RAMBOLL

ENVIRONMENT
& HEALTH

Prepared for:
Steel Treaters, Inc.
Troy, New York

Prepared By:
Ramboll Americas Engineering Solutions, Inc.

Date:
November 24, 2025

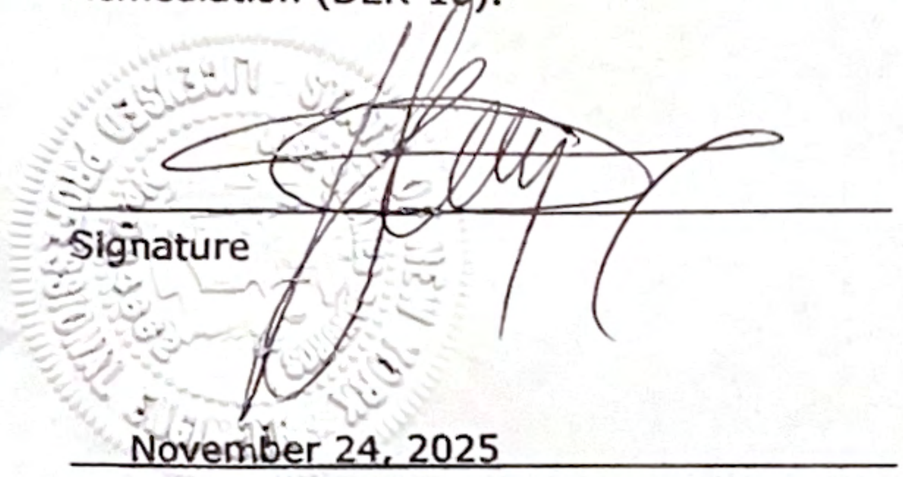
Project Number:
1690000663_Conv-001

PERIODIC REVIEW REPORT

STEEL TREATERS, INC. SITE
520 CAMPBELL AVENUE
TROY, NEW YORK
NEW YORK STATE VOLUNTARY CLEANUP PROGRAM
SITE NO. V00578

CERTIFICATION STATEMENT

I, Jose Sananes Sangros, certify that I am currently a NYS registered professional engineer and that this Periodic Review Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).



Signature

November 24, 2025

Date

CONTENTS

EXECUTIVE SUMMARY		**1**
1.	**INTRODUCTION**	**2**
1.1	Site Location and Description	2
1.2	Remedial History	3
1.3	Objectives of the Periodic Review	4
2.	**REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS**	**5**
2.1	IC/EC Plan Compliance Report	5
2.1.1	Cover System Compliance	5
2.1.2	PRB and ZVI Treatment Zone Compliance	5
2.1.3	Institutional Controls Compliance	6
2.2	IC/EC Compliance Conclusions and Recommendations	7
2.3	Monitoring Plan Compliance Report	7
2.3.1	Summary of Site Inspections	8
2.3.2	Summary of Groundwater Monitoring	9
2.3.3	Monitoring Conclusions and Recommendations	12
3.	**CONCLUSIONS AND RECOMMENDATIONS**	**13**
3.1	Conclusions	13
3.2	Recommendations and Future Submittals	13
4.	**REFERENCES**	**14**

TABLES

Table 1: Summary of Dissolved Oxygen and Oxidation-Reduction Potential Measurements - Event 13
Table 2: Summary of Groundwater Sampling Results

FIGURES

Figure 1: Site Location Map
Figure 2: Site Layout Map
Figure 3: Engineering Controls Location
Figure 4: Institutional Control Boundaries
Figure 5: Groundwater Monitoring VOC Results

APPENDICES

Appendix A: Environmental Easement
Appendix B: Institutional and Engineering Controls Certification Form
Appendix C: Site Management Forms
Appendix D: Groundwater Sampling Field Logs – 13th Sampling Event
Appendix E: Waste Manifest – 13th Sampling Event
Appendix F: Laboratory Analytical Reports – 13th Sampling Event
Appendix G: Data Usability Summary Report – 13th Sampling Event

ACRONYMS AND ABBREVIATIONS

1,1-DCA:	1,1-dichloroethane
1,1-DCE:	1,1-dichloroethene
1,2-DCA:	1,2-dichloroethane
1,2-DCE:	cis-1,2-dichloroethene
AWQS:	Ambient Water Quality Standards
bgs:	below ground surface
cVOC:	chlorinated volatile organic compound
DER:	Division of Environmental Remediation
DO:	dissolved oxygen
DUSR:	Data Usability Summary Report
EC:	Engineering Control
ENVIRON:	ENVIRON Engineers of North Carolina, PC
EPA:	United States Environmental Protection Agency
ESCO:	ESCO Corporation
H&BBC:	Harrison and Burrowes Bridge Construction Inc.
IC:	Institutional Control
NELAP:	National Environmental Laboratory Accreditation Program
NYSDEC:	New York State Department of Environmental Conservation
NYSDOH:	New York State Department of Health
ORP:	oxidation-reduction potential
PCE:	tetrachloroethene
PRB:	permeable reactive barrier
PRR:	Periodic Review Report
Ramboll:	Ramboll Americas Engineering Solutions, Inc.
RAO:	Remedial Action Objective
SCO:	soil cleanup objective
SF:	square feet
SMP:	Site Management Plan
STI:	Steel Treaters, Inc.
TCA:	1,1,1-trichloroethane
TCE:	trichloroethene

VCA:	Voluntary Cleanup Agreement
VCP:	Voluntary Cleanup Program
VOC:	volatile organic compound
ZVI:	zero-valent iron

EXECUTIVE SUMMARY

Ramboll Americas Engineering Solutions, Inc. (Ramboll and formerly ENVIRON Engineers of North Carolina, PC or ENVIRON) has prepared this Periodic Review Report (PRR) for the Former Steel Treaters, Inc. Facility (the Site) located in Troy, New York (see **Figure 1**). The period of review for this report is October 26, 2024, to October 26, 2025.

Between 1966 and 2005, the Site was used to heat treat metal machine parts received from various manufacturers. These activities included the use of solvents, including 1,1,1-trichloroethane (TCA) and trichloroethene (TCE), which were stored in 55-gallon drums and used for degreasing of metal parts. The solvents were reportedly used until 1991 and were reclaimed following use. Operations at the Site ceased following a fire on February 24, 2005, which damaged the single-story building. The Site is currently vacant and consists of the concrete slab of the former building (demolished in 2017), surrounding asphalt parking lot, and wooded areas.

Prior to site remediation, ESCO completed several phases of remedial investigation at the Site, which identified chlorinated ethenes and ethanes as the primary contaminants of concern. The primary source of contamination was identified as a former parts degreaser pit located in the southeast portion of the former building (see **Figure 2**). Between 2007 and 2010, several interim remedial measures were completed at the Site (i.e., in-situ chemical oxidation in 2007, soil vapor extraction from 2008 to 2010, and soil excavation in December 2010) primarily to address contamination identified near the former degreaser pit. These remedial actions resulted in soil concentrations meeting the NYSDEC-restricted commercial or industrial SCOs; therefore, no further remedial action of soil was warranted other than establishing institutional controls (ICs) restricting land use to commercial or industrial purposes. However, the detection of chlorinated ethenes and ethanes in groundwater above New York's Ambient Water Quality Standards (AWQS) for Class GA water indicated that remedial action of groundwater was warranted.

In accordance with NYSDEC's Decision Document on October 13, 2017, between January 9, 2018, and March 29, 2018, a passive groundwater remedy was implemented that included (1) construction of a permeable reactive barrier (PRB); (2) construction of a ZVI treatment zone immediately downgradient of the former degreasing pit, where TCA and TCE concentrations are highest; and (3) installation of engineering controls (ECs; i.e., a permanent cover system). In addition, ICs were established in the form of an environmental easement.

All requirements of the IC/EC and monitoring plans were met during the current review period. The results of site-wide inspections and groundwater sampling show that the IC/ECs are in place, effective, and performing as designed. The groundwater monitoring results show that the PRB system is effectively reducing VOC concentrations as groundwater flows through the barriers.

There are no recommended changes to the groundwater monitoring program at this time and groundwater monitoring will continue in accordance with the SMP. The next PRR will be submitted to NYSDEC by November 26, 2026, and will cover monitoring activities completed from October 26, 2025, to October 26, 2026.

1. INTRODUCTION

This Periodic Review Report (PRR) is a required element of the Site Management Plan (SMP; ENVIRON, 2018) for the remedial action at the Former Steel Treaters, Inc. Facility located in Troy, New York (hereinafter referred to as the "Site"; see **Figure 1**). Steel Treaters, Inc. (STI) entered into a Voluntary Cleanup Agreement (VCA) with the New York State Department of Environmental Conservation (NYSDEC) on September 19, 2003, to remediate the Site. The property ownership was transferred to ESCO Corporation (ESCO), STI's parent company and current property owner, in 2012. The Site is currently in the NYSDEC's Voluntary Cleanup Program (VCP) as Site No. V00578-4. The SMP for the Site (dated June 14, 2018) was approved by NYSDEC on June 26, 2018.[1]

This PRR is the seventh review report for the Site and covers monitoring activities for the period between October 26, 2024, to October 26, 2025. This document was prepared in accordance with the requirements of NYSDEC's DER-10 ("Technical Guidance for Site Investigation and Remediation"), dated May 2010 and the guidelines provided by NYSDEC.

1.1 Site Location and Description

The Site is located in Troy, Rensselaer County, New York and is identified as Section 112 Block 4 and Lot 25 on the Rensselaer County Tax Map. The Site encompasses an approximately 1.109-acre area and is bounded by Campbell Avenue to the north, a butcher shop and a few residences to the south, undeveloped land to the east, and commercial properties to the west (see **Figure 2**). The boundaries of the Site are more fully described in the metes and bounds site description that is part of the Environmental Easement provided in **Appendix A**. The currently vacant Site, which is zoned industrial, consists of the concrete slab of a former building that was demolished in 2017, surrounding asphalt parking lot, and wooded areas.

The Site was acquired by STI in 1965 and used to heat treat metal machine parts received from various manufacturers starting in 1966. Past site activities included the use of solvents, including 1,1,1-trichloroethane (TCA) and trichloroethene (TCE), which were stored in 55-gallon drums and used for degreasing of metal parts. The solvents were reportedly used until 1991 and were reclaimed following use. Operations at the Site ceased following a fire on February 24, 2005, which damaged the single-story building. The building's superstructure was demolished during the week of April 17, 2017.

Prior to site remediation, ESCO completed several phases of remedial investigation at the Site, which identified chlorinated ethenes and ethanes as the primary contaminants of concern. The primary source of contamination was identified as a former parts degreaser pit located in the southeast portion of the former building (see **Figure 2**). Soil sampling indicated that ethenes (1,1-dichloroethene [1,1-DCE], cis-1,2-dichloroethene [1,2-DCE], tetrachloroethene [PCE], TCE, and vinyl chloride), ethanes (1,1-dichloroethane [1,1-DCA], 1,2-dichloroethane [1,2-DCA], and TCA), and 1,4-dioxane were present in site soils in excess of the NYSDEC unrestricted soil cleanup objective (SCO). In addition, some metals (barium, cadmium, total chromium, copper, nickel, and zinc) were detected in surficial soils (less than 12 inches deep) in excess of the NYSDEC unrestricted SCO. Groundwater sampling indicated the presence of chlorinated volatile organic compounds (cVOCs; TCA, PCE, and associated

[1] A revised Site Management Plan (SMP) was submitted to NYSDEC on December 9, 2019. The revised SMP reflects the replacement of wells MW-102I and MW-103E with MW-102IR and MW-103ER, respectively (January 2019); resurvey of all Site groundwater monitoring wells (February 2019); and a change in the analytical method for 1,4-dioxane requested by NYSDEC (July 2019).

breakdown products) above New York's Ambient Water Quality Standards (AWQS) for Class GA water. The groundwater containing cVOCs extended to monitoring wells located on the north side of Campbell Avenue.

1.2 Remedial History

A summary of the investigation and remedial history of the Site is provided in Section 2.3 of the SMP. As discussed above, several phases of remedial investigation were completed at the Site between 2001 and 2013. In addition, between 2007 and 2010, several interim remedial measures were completed at the Site (i.e., in-situ chemical oxidation in 2007, soil vapor extraction from 2008 to 2010, and soil excavation in December 2010) primarily to address contamination identified in the source area, near the former degreaser pit. These remedial actions resulted in soil concentrations meeting the NYSDEC-restricted commercial or industrial SCOs; therefore, no further remedial action of soil was warranted other than establishing institutional controls (ICs) restricting land use to commercial or industrial purposes. However, the detection of chlorinated ethenes and ethanes in groundwater above the AWQS for Class GA water indicated that remedial action of groundwater was warranted.

As described in the SMP, additional investigatory activities were conducted between December 2015 and March 2016 and the results presented in ENVIRON's Pre-Design Investigation Report and Remedial Action Workplan dated July 19, 2017. Following the NYSDEC issuance of a Decision Document on October 13, 2017, ENVIRON prepared the Remedial Design Report for the selected remedy, which was approved by NYSDEC on December 19, 2017. As documented in ENVIRON's Final Engineering Report dated June 15, 2018, the remedy was implemented between January 9, 2018, and March 29, 2018, and included the following components:

1. Construction of a permeable reactive barrier (PRB)
2. Construction of a ZVI treatment zone immediately downgradient of the former degreasing pit, where TCA and TCE concentrations are highest; and
3. Installation of engineering controls (ECs; i.e., a permanent cover system).

In addition, ICs were established in the form of an environmental easement which: (a) defines inspection and reporting requirements in accordance with Part 375-1.8(h)(3); (b) limits use and redevelopment of the Site to commercial and industrial purposes as defined by Part 375-1.8(g) and the City of Troy's zoning determination; (c) restricts groundwater as a source of potable or process water without pre-treatment as determined by the New York State Department of Health (NYSDOH) or County DOH; and (d) requires compliance with the SMP developed for the Site. Further and as required by the Environmental Easement, an SMP for long-term management of remaining contamination, which includes plans for (1) IC/ECs, (2) monitoring, (3) operation and maintenance, and (4) reporting, was developed and implemented. The long-term monitoring defined in the SMP consists of quarterly groundwater sampling from wells upgradient, within, and downgradient of the PRB for the first year (completed), semi-annually for the next two years (completed), and annually thereafter to ensure that the treated groundwater complies with the AWQS for Class GA water and restoration of the ground water aquifer to pre-disposal/pre-release conditions has been achieved to the extent practicable.

No changes to the remedy have been made since remedy selection.

1.3 Objectives of the Periodic Review

In accordance with the SMP, this PRR will:

- Evaluate the overall performance and effectiveness of the remedy;
- Evaluate the compliance of the remedy with the requirements of the October 13, 2017, NYSDEC Decision Document and the SMP;
- Evaluate the operation and effectiveness of all treatment units, including identification of any needed repairs or modifications;
- Evaluate trends in contaminant levels in the affected media to determine if the remedy continues to be effective in achieving the remedial goals as specified by the Decision Document;
- Provide any new conclusions or observations regarding site contamination based on inspections or data generated by the NYSDEC-approved Monitoring and Sampling Plan for the media being monitored; and
- Provide recommendations regarding any necessary changes to the remedy and/or Monitoring and Sampling Plan.

This report includes:

- Identification, assessment, and certification of all IC/ECs required by the remedy for the Site.
- Results of the required annual site inspections completed during the reporting period.
- All site management forms and other records generated for the Site during the reporting period, if not previously submitted.
- A summary of monitoring data generated during the reporting period, with comments and conclusions.
- Data summary tables and graphical representation of contaminants of concern by media, which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These include a presentation of past data as part of an evaluation of contaminant concentration trends.

2. REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

2.1 IC/EC Plan Compliance Report

As discussed in **Section 1.2**, ECs at the Site currently consist of (1) the Site cover system and (2) the PRB and ZVI treatment zone. Currently, there are no structures on-site and there is no sub-slab depressurization system in place. ICs have been established for the Site in the form of an Environmental Easement (**Appendix A**). **Figures 3** and **4** show the EC locations and IC boundaries, respectively.

The following subsections describe each control, its objective, performance evaluation completed during the current review period, and status.

2.1.1 Cover System Compliance

As described in the SMP, the cover system is comprised of a minimum of 12 inches of clean coarse aggregate over a demarcation layer in areas immediately around the former building, as well as the concrete slab of the former building and asphalt pavement. In the areas where the PRB and ZVI treatment zone were excavated, the upper 12 inches were backfilled with 8 inches of dense graded aggregate (DGA) and 4 inches of asphalt and concrete, respectively. The coarse aggregate cover system, concrete slab, and asphalt pavement extend over approximately 4,500 square feet (SF), 9,000 SF, and 8,300 SF, respectively (refer to **Figure 3**). The objective of the cover system is to address soil exceedances of the SCOs and prevent direct contact with underlying soils.

In accordance with the SMP, performance of the cover system was visually inspected during the annual site-wide inspection, which for the current review period was performed on August 12, 2025. No visible damage was observed on the cover system during this inspection, including the asphalt berm along the northern edge repaired in August 2023. The inspection forms completed during this site-wide inspections are provided in **Appendix C**. Based on the inspection completed in August, the cover system is unchanged from the previous certification and complies with the SMP.

2.1.2 PRB and ZVI Treatment Zone Compliance

The PRB was installed around the northern side of the former building and includes an approximately 30-foot-long pervious ZVI treatment barrier (20% ZVI and 80% washed sand) and impermeable hydraulic barriers (steel sheet pile sections) on either side of the PRB with a total combined length of 220 linear feet. The PRB is approximately 3 feet wide and installed to a depth between approximately 15.2 and 16.2 feet below ground surface (bgs), extending to the top of the underlying bedrock. The objective of the PRB is to passively reduce concentrations of contaminants in groundwater in-situ and mitigate, to the extent practicable, offsite migrations of impacted groundwater.

The ZVI treatment zone consists of an approximately 3-foot wide and 25-foot-long barrier (35% ZVI and 65% washed sand) installed to a depth of approximately 13.7 and 17.7 feet bgs, extending to the top of the underlying bedrock. The objective of the ZVI treatment zone is to passively reduce concentrations in groundwater, improve the effectiveness of the PRB, and reduce remedial timeframes.

Since the PRB and ZVI treatment zone are passive groundwater treatment systems, there are no operational and maintenance requirements for these systems. The performance of the reactive media

in both barriers is monitored via monitoring well pairs installed upgradient and downgradient of each barrier. Monitoring wells are also installed within the reactive media. Based on the monitoring completed to date (refer to **Section 2.3.2**), the PRB and ZVI treatment zone are performing as designed and comply with the SMP.

2.1.3 Institutional Controls Compliance

The ICs required by the Environmental Easement[2] (**Appendix A**) and implemented under the SMP are:

- The property use is limited to commercial and/or industrial land uses;
- All ECs must be operated and maintained as specified in the SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Rensselaer Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;
- Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries noted on **Figure 4**, and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the site are prohibited.

These ICs exist to: (1) implement, maintain and monitor the EC systems; (2) prevent future exposure to remaining contamination; and (3) limit the use and development of the site to commercial or industrial uses only. As stated in the Environmental Easement, the ICs may not be discontinued without an amendment to or extinguishment of the Environmental Easement. The ICs are in place and unchanged from the previous certification. Site access continues to be restricted by the concrete jersey barriers placed along the north and east property boundaries.

[2] The Environmental Easement also requires that "operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP." However, the remedy at the Site does not include any mechanical or physical components.

2.2 IC/EC Compliance Conclusions and Recommendations

The completed NYSDEC Institutional and Engineering Controls (IC/ECs) Certification Form for this review period is included as **Appendix B**. The IC/ECs are in place and unchanged from the previous certification, are performing as designed, and comply with the SMP. No changes to the IC/ECs are recommended at this time.

2.3 Monitoring Plan Compliance Report

The monitoring plan for the Site currently includes annual sitewide inspections. Although not required during the current review period, the monitoring plan also includes sitewide inspections after all severe weather conditions that may affect the ECs or monitoring devices. As discussed in Section 4.2 of the SMP, the purpose of the inspections is to determine and document the following:

- Whether ECs continue to perform as designed;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria; and
- If site records are complete and up to date.

During each inspection, the inspection form provided in the SMP (**Appendix C – Site Management Form**) is completed to assess the following:

- Compliance with all ICs, including site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General site conditions at the time of the inspection;
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection; and
- Confirm that site records are up to date.

Inspections are conducted of all remedial components installed at the site, except for the PRB and ZVI treatment zone which are below ground surface. There are no active systems (i.e., systems requiring energy, pumping, or moving parts) requiring monitoring or operation and maintenance. Instead, standard groundwater monitoring is used to assess the performance of the PRB and ZVI treatment zone. Sampling locations, required analytical parameters, and schedule are provided in Table 6 – Post Remediation Sampling Requirements and Schedule of the SMP, reproduced below:

Table 6 – Post Remediation Sampling Requirements and Schedule

Sampling Location (1)	VOC Analysis (3)	Cations, Anions, Dissolved Fe, and Dissolved H2 (4)	Water Levels	Schedule
Overburden monitoring wells MW-101I, MW-104I, MW-104E, MW-11, MW-13, MW-14, MW-17, MW-18, and MW-19	X (2)		X	Annually
Groundwater monitoring for PRB effectiveness (monitoring wells MW-100I, MW-100B, MW-100E, MW-102IR, MW-102B, MW-102ER, MW-103I, MW-103B, and MW-103ER)	X (2)	X	X	Quarterly for first year; semi-annually for the next two years and annually thereafter
Water level monitoring wells MW-101E, MW-1, MW-5 and MW-8			X	Annually

Note 1: Existing monitoring wells MW-2, MW-3, MW-6, MW-7, MW-10, BRMW-1, BRMW-2S, BRMW-2D, BRMW-3 and BRMW-4 will be maintained but not sampled or monitored. Monitoring wells MW-4, MW-9, MW-12, MW-15 and MW-16 will be abandoned, if not abandoned already.
2: The laboratory will achieve detection limits of no greater than 1 ug/L for all chlorinated VOCs of concern for this site.
3: Per correspondence with NYSDEC on July 31, 2019, VOC analysis will be by EPA Method 8260C except for 1,4-dioxane analysis which will be by EPA Method 8270 SIM.
4: Cations refers to calcium, magnesium, sodium, and potassium (EPA Method 200.7). Anions refers to alkalinity (Method SM 2320B), nitrate (EPA Method 300), sulfate (EPA Method 300), and chloride (EPA Method 300). Samples to be analyzed for these parameters will be collected using low-flow sampling techniques and will include measurement of standard water quality parameters (pH, redox potential specific conductivity, and dissolved oxygen).

[3]

The groundwater monitoring program is designed to monitor changes in the groundwater plume characteristics, including contaminant concentrations and the horizontal extent of the plume. Documentation of continued decreasing trends in VOC concentrations and monitoring groundwater geochemistry across each treatment zone (i.e., ZVI treatment zone and PRB) is considered sufficient to demonstrate the continued effectiveness of the remedy.

2.3.1 Summary of Site Inspections

As discussed in **Section 2.1.1**, the sitewide inspection during the current review period was conducted on August 12, 2025. The inspection form completed during this site-wide inspection is provided in **Appendix C**.

The cover system (i.e., the asphalt, stone, and concrete caps) was observed to be in generally good condition during the inspections. The ¼- to – ½ inch asphalt milling piles (approximately totaling 5 cubic yards) initially observed in February 2020 are still onsite. Further, the wood pallets, 4- x 4-inch timbers and three sections of 12” piping from Harrison and Burrowes Bridge Construction Inc. remain onsite from their temporary site use in June 2023. Following the August 2025 inspection, vegetation

[3] Analysis of total organic and total inorganic carbon via EPA Method 5310C was added for all monitoring wells immediately upgradient and immediately downgradient of the PRBs in 2023 (MW-100E, MW-100I, MW-102ER, MW-102IR, MW-103ER, and MW-103I).

growing within and around the northern, eastern, and western sides of the concrete slab was manually cleared.

Ramboll repositioned and secured with concrete patch the well manhole cover for BRMW-2S, which was found to be loose and raised a few inches above the surrounding concrete well pad and asphalt surface (refer to **Appendix C**). Consistent with previous site inspections, the concrete pads for MW-102B and MW-103B were observed to be a few inches above the surrounding surface. This condition will continue to be monitored during future site inspections; however, no repairs are required at this time.

Monitoring wells MW-11 and MW-14, which were temporarily buried during sidewalk excavation work in 2024 (refer to the November 23, 2024 PRR for additional details), were found to be in good condition. However, as detailed in **Section 2.3.2**, a sample could not be collected from this monitoring well. Thus, MW-14 should be redeveloped before the next annual sampling event to allow for sample collection. All other monitoring wells were found to be accessible and in good condition.

2.3.2 Summary of Groundwater Monitoring

To date, thirteen post-remedy implementation groundwater sampling events have been conducted at the Site. In accordance with the sampling schedule defined in the SMP (refer to **Section 2.3** above), four quarterly events were conducted in the first year following remedy implementation (July/August 2018, November 2018, February 2019, and May 2019); two semi-annual events were conducted in the second and third years (July/August 2019, February 2020, August 2020, and February 2021); and the annual events commenced in the fourth year (August 2021), with four additional annual events completed since then (August 2022, August 2023, August 2024, and August 2025). The results of each groundwater sampling event were provided to NYSDEC in interim monitoring letter reports dated January 10, 2019 (Events 1 and 2), April 17, 2019 (Event 3), June 21, 2019 (Event 4), September 20, 2019 (Event 5), May 14, 2020 (Event 6), November 20, 2020 (Event 7), and August 2, 2021 (Event 8); or Periodic Review Reports dated November 18, 2021 (Event 9), November 23, 2022 (Event 10), November 22, 2023 (Event 11), and November 23, 2024 (Event 12).

During the current review period, groundwater samples were collected from the following monitoring wells (Event 13):

- PRB system monitoring wells: MW-100I, MW-100B, MW-100E, MW-102IR, MW-102B, MW-102ER, MW-103I, MW-103B, and MW-103ER.
- Overburden monitoring wells: MW-11, MW-17, MW-18, MW-19, MW-101I, MW-104I, and MW-104E. MW-13 could not be sampled due to insufficient water in the well at the time of sampling and MW-14 could not be sampled due to high turbidity levels[4] which did not allow for low-flow sampling.

All groundwater samples were collected in accordance with the United States Environmental Protection Agency's (EPA) low-flow sampling procedure. Static water levels within each well were measured before and after insertion of the bladder pump into the well. Additionally, during the thirteenth

[4] The high turbidity is likely the result of solids entering the well when it was temporarily buried during sidewalk excavation work in 2024 and/or the subsequent excavation activities. Note that the bottom of well is approximately two and a half feet higher than when constructed. Further, the well was pumped dry three times in an effort to remove solids and reduce turbidity, but those efforts were unsuccessful.

monitoring event, downhole measurements of dissolved oxygen and oxidation-reduction potential were collected at most wells prior to the beginning of the sampling task as was performed during the twelfth monitoring event. These measurements are presented in **Table 1**. After pump startup, the water level drawdown and water quality parameters (i.e., pH, specific conductance, turbidity, temperature, oxidation-reduction potential [ORP], and dissolved oxygen [DO]) were monitored every five minutes using a Horiba U-52 and a flow through cell until the parameters stabilized, at which point samples were collected in the appropriate laboratory supplied containers. The groundwater sampling field logs for the thirteenth monitoring event are included in **Appendix D**.

The groundwater samples collected from both the PRB system monitoring wells and other overburden monitoring wells were analyzed for volatile organic compounds (VOCs) using EPA Method 8260C and 1,4-dioxane using EPA Method 8270 SIM by Eurofins TestAmerica, Inc. (Eurofins), a National Environmental Laboratory Accreditation Program (NELAP) certified laboratory approved by NYSDOH. In addition, the groundwater samples collected from the PRB system monitoring wells were also analyzed for cations, anions, and dissolved iron.[5,6] Further, the groundwater samples collected from the interior and exterior PRB system monitoring wells were analyzed for total organic carbon and total inorganic carbon.

On August 22, 2025, investigation derived waste (IDW) generated as part of the thirteenth groundwater monitoring event was removed from the site by West Central Environmental Corporation, for disposal at Reworld (formerly Global Cycle and subsequently Covanta) in Taunton, Massachusetts in accordance with the NYSDEC's June 6, 2025 "Contained-In" Determination. A total of one 55-gallon drum of liquid IDW was generated during the August 2025 groundwater sampling event; waste manifest provided in **Appendix E.**

The groundwater sampling results for the thirteenth monitoring event are provided in the attached Category B laboratory analytical reports (**Appendix F**) and summarized, along with all prior monitoring events, in the attached **Figure 5** and **Table 2**. In accordance with Appendix 2B of NYSDEC DER-10, a Data Usability Summary Report (DUSR) evaluating the analytical data collected during the event has been prepared and is included as **Appendix G**.

Data evaluated in the DUSR for the thirteenth monitoring event were qualified for CCV/ICV recoveries, CCV/ICV RRF, blank contamination, LCS/LCSD recoveries, field duplicate precision, and when concentrations were detected between the MDL and RL. However, these qualifications do not change the conclusions made from evaluation of the data; therefore, the overall conclusion of the DUSR is that the analytical data are usable as qualified.

The PRB system was designed to control off-site migration of the groundwater plume, reduce contaminant mass, and improve water quality over time. As with the prior monitoring events completed to date, the data from the PRB system monitoring wells for the thirteenth monitoring event

[5] Cations refers to calcium, magnesium, sodium, and potassium (EPA Method 200.7). Anions refers to alkalinity (Method SM 2320B), nitrate (EPA Method 300), sulfate (EPA Method 300), and chloride (EPA Method 300). Samples were analyzed for dissolved iron using EPA Method 200.7. Total organic carbon and total inorganic carbon were analyzed for using EPA Method SM 5310B.

[6] Analysis of samples from the PRB system monitoring wells for dissolved hydrogen using AM20GAX could not be performed as the analytical method has been discontinued by Pace Analytical Laboratories. Reporting limits for alternate methods from other laboratories would not prove suitable for this site given the past results (i.e. past concentrations at the site were orders of magnitude lower than reporting limits offered by other laboratories).

indicate that the PRB system is continuing to function as designed. A properly functioning ZVI PRB will result in elevated pH values and reduced ORP values within and immediately downgradient of the PRB compared to the groundwater entering it. Consistent with prior monitoring events and as expected, measured values of pH generally trend higher and measured values of ORP trend lower within and downgradient of the PRB except for MW-103ER where pH was nearly identical to upgradient of the barrier. A return of pH and ORP measured values toward ambient levels on the downgradient side of the barriers was generally observed as anticipated. At the MW-100 series wells, downgradient pH decreased slightly from the previous monitoring event, in contrast to an increased trend in pH observed downgradient of the barrier in previous years. Similarly, a decrease in the concentration of key cations (calcium and magnesium) and alkalinity in groundwater samples was also generally observed across each barrier, with some increase toward ambient conditions downgradient from the PRB at MW-103ER. These observations are consistent with expectations for functioning PRBs.

Consistent with the prior monitoring events[7], the data from the wells upgradient of the PRB system (i.e., MW-18 and MW-19) for the thirteenth monitoring event indicate that contaminant levels post-remedy implementation remain comparable to contaminant levels pre-remedy implementation, which is expected given that the remedy relies on passive treatment of the impacted groundwater as it flows through the reactive media barriers. In MW-11, located downgradient of the PRB system, detected concentrations of TCE and cis-1,2-DCE increased slightly since the previous monitoring event, but all VOC concentrations remain below the AWQS for Class GA water. In other wells downgradient of the PRB system that could be sampled (i.e., MW-17), some key VOCs were detected above the AWQS; these concentrations are generally comparable to those prior to remedy implementation and are most likely due to residual VOCs present in groundwater.

Data from the wells located on either side of the sheet pile wall (i.e., MW-101I, MW-104I, and MW-104E) indicate that contaminant levels in these wells remain relatively constant or show a slight downward trend over the thirteen monitoring events completed to date, though a slight increase was detected in MW-101I in the last sampling event. Some key VOCs remain above the AWQS in MW-101I, MW-104E and MW-104I, likely due to residual VOCs present in groundwater prior to remedial action implementation.

As with the prior twelve monitoring events, the VOC concentrations in groundwater samples collected during the thirteenth monitoring event from the monitoring wells immediately upgradient of the PRBs (MW-100I, MW-102IR, and MW-103I) generally remain higher than in the samples from monitoring wells within the PRBs (MW-100B, MW-102B, and MW-103B) and these, in turn, generally remain higher than in samples from monitoring wells downgradient of the PRBs (MW-100E, MW-102ER, MW-103ER). These results indicate that VOC concentrations are continuing to be reduced as the groundwater flows through the barriers. During this monitoring event, the concentration of cis-1,2-dichloroethene in the groundwater sample collected from MW-102ER increased slightly (from 2.5 ug/L to 10 ug/L) and marginally exceeds the WQS-GA (5 ug/L). However, the concentrations of cis-1,2-dichloroethene observed in groundwater samples from MW-100E and MW-102ER, and of trichloroethene and cis-1,2-dichloroethene in MW-103ER (monitoring wells immediately downgradient of the PRBs) are most likely due to residual VOCs present in groundwater prior to remedial action implementation. However, the concentrations of key VOCs in samples from these downgradient wells

[7] Except the 11th and 12th monitoring events, where an unexpected sharp decrease in VOC concentrations was observed in MW-18 and where an unexpected sharp decrease in 1,1-DCE and cis-1,2-DCE concentrations was observed in MW-19, respectively.

have generally decreased over time as anticipated, signaling significant progress in the remedial approach. Natural attenuation processes are also enhanced by the geochemical conditioning of the groundwater (observed through lower ORP measurements) and mass flux reduction as promoted by the PRB, as evidenced by sulfate and nitrate reduction within and downgradient of the barriers.

2.3.3 Monitoring Conclusions and Recommendations

The results of the sitewide inspections and maintenance activities completed during the current review period show that the monitoring wells and the cover system are in generally good condition. The cover system is effectively preventing direct contact with underlying soils with exceedances of the SCOs.

The results of the groundwater monitoring completed during the current review period show that the PRB system is effectively reducing VOC concentrations in groundwater in-situ and mitigating offsite migration of impacted groundwater. While concentrations of some VOCs remain above the AWQS for Class GA water in the three monitoring wells immediately downgradient of the PRBs, evaluation of the monitoring results shows that VOC concentrations are being reduced as groundwater flows through the barriers. Residual concentrations are expected to continue decreasing over time as groundwater from the Site continues to flow through the PRB system.

3. CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

All requirements of the IC/EC plan were met during the current review period. Site-wide inspections and groundwater sampling were performed in accordance with the schedule provided in the SMP. In addition, some monitoring well and cap maintenance activities were performed in 2024 to ensure the continued performance of the IC/EC. The results of these activities show that the IC/ECs are in place, effective, and performing as designed.

In addition, all requirements of the monitoring plan were met. The results show that the PRB system is effectively reducing VOC concentrations as groundwater flows through the barriers.

3.2 Recommendations and Future Submittals

There are no recommended changes to the groundwater monitoring program at this time and groundwater monitoring will continue in accordance with the revised SMP. However, it is recommended that MW-14 be redeveloped before the next annual sampling event to allow for sample collection. The next annual groundwater monitoring event will be completed in August 2026 and the results will be provided to NYSDEC in the next PRR. Groundwater monitoring will continue to be performed annually in accordance with the SMP.

In accordance with the SMP, the next PRR will be submitted to NYSDEC by November 26, 2026, and will cover monitoring activities completed from October 26, 2025, to October 26, 2026.

4. REFERENCES

ENVIRON Engineers of North Carolina, PC (ENVIRON). July 2017. Pre-Design Investigation Report and Remedial Action Workplan.

ENVIRON. December 2017. Remedial Design Report.

ENVIRON. June 2018. Final Engineering Report.

ENVIRON. June 2018 (revised December 2019). Site Management Plan.

ENVIRON. January 2019. Letter Report – Post-Remedy Groundwater Monitoring Results – First and Second Quarterly Events.

ENVIRON. April 2019. Letter Report – Post-Remedy Groundwater Monitoring Results – Third Quarterly Event.

ENVIRON. June 2019. Letter Report – Post-Remedy Groundwater Monitoring Results – Fourth Quarterly Event.

ENVIRON. September 2019. Letter Report – Post-Remedy Groundwater Monitoring Results – Fifth Monitoring Event.

ENVIRON. November 2019. Periodic Review Report.

ENVIRON. May 2020. Letter Report – Post-Remedy Groundwater Monitoring Results – Sixth Monitoring Event.

ENVIRON. November 2020. Letter Report – Post-Remedy Groundwater Monitoring Results – Seventh Monitoring Event.

ENVIRON. August 2021. Letter Report – Post-Remedy Groundwater Monitoring Results – Eighth Monitoring Event.

New York State Department of Environmental Conservation (NYSDEC). May 2010. DER-10 / Technical Guidance for Site Investigation and Remediation.

NYSDEC. October 2017. Decision Document – Steel Treaters, Inc., Voluntary Cleanup Program, Troy, Rensselaer County, Site No. V00578.

TABLES

Table 1
Summary of Dissolved Oxygen and Oxidation-Reduction Potential Measurements - Event 13
ESCO Steel Treaters, Troy, NY

Well ID	DO mg/L	ORP mV
MW-01	0.44	11.7
MW-05	Dry	Dry
MW-08	2.77	-61.8
MW-100B	0.5	-308.1
MW-100E	0.38	-307.8
MW-100I	0.47	-32.1
MW-101E	1.7	94.0
MW-101I	0.75	59.6
MW-102B	0.44	-353.2
MW-102E	0.48	-356.5
MW-102I	0.64	90.5
MW-103B	0.51	-353.9
MW-103E	0.35	-124.8
MW-103I	0.96	25.2
MW-104E	0.31	-123.3
MW-104I	0.66	-68.2
MW-11	1.45	68.9
MW-17	1.59	-188.9
MW-18	2.32	64.9
MW-19	0.96	56.5

Measurements were taken approximately 1 ft above the bottom of each well. Only one measurement was take per well due to low well volumes.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location		MW06	MW100B	MW100B	MW100B	MW100B	MW100B	MW100B
	Field Sample ID		MW-06-180730	MW-100B-180801	DUP-180801	MW-100B-181113	MW-100B-190220	MW100B-190506	DUP-190506
	Lab Sample ID	NY Fresh Groundwater (GA) Standards	200-44580-3 / 460-161627-3	276600001 / 460-161828-1	276600005 / 460-161828-5	460-169286-4 / MW-100B-181113	295620001 / 460-175850-1	302370002 / 460-181278-2	302370004 / 460-181278-4
	Sample Method		Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP
	Sample Date		7/30/2018	8/1/2018	8/1/2018	11/13/2018	2/20/2019	5/6/2019	5/6/2019
	Comments				Field Duplicate				Field Duplicate
WQ									
	Alkalinity		---	155000 (5000)	154000 (5000)	94800 (5000)	80400 (5000)	69700 (5000)	69700 (5000)
	Total Alkalinity as CaCO3		---	---	---	---	---	---	---
	Bicarbonate Alkalinity		---	155000 (5000)	154000 (5000)	71600 (5000)	65300 (5000)	38000 (5000)	40500 (5000)
	Bicarbonate as CaCO3		---	---	---	---	---	---	---
	Carbonate Alkalinity		---	U (5000)	U (5000)	23200 (5000)	15100 (5000)	31700 (5000)	29200 (5000)
	Chloride	250000	---	126000 (5520)	130000 (5640)	163000 (6600)	73500 (3000)	78600 (3000)	77300 (3000)
	Nitrate	10000	---	100 J (100)	140 J (100)	U (100)	U (100)	59 J (100)	57 J (100)
	Sulfate	250000	---	75900 (27600)	70100 (28200)	590 J (600)	3160 (600)	1060 (600)	1040 (600)
VOC									
	Acetone	50	---	**330 (5)**	---	34 J+ (5)	6.3 J (5)	5.7 (5)	5.8 (5)
	Benzene	1	---	0.93 J (1)	---	0.55 J (1)	U (1)	U (1)	U (1)
	Bromodichloromethane	50	---	U (1)	---	U (1)	U (1)	U (1)	U (1)
	Bromoform	50	---	U (1)	---	U (1)	U (1)	U (1)	U (1)
	2-Butanone	50	---	33 (5)	---	26 (5)	13 (5)	3.6 J (5)	5.9 (5)
	Chloroethane	5	---	1.5 (1)	---	1.1 (1)	0.51 J (1)	0.92 J (1)	U (1)
	Chloroform	7	---	U (1)	---	U (1)	U (1)	U (1)	U (1)
	Chloromethane	5	---	U (1)	---	UJ (1)	U (1)	UJ (1)	U (1)
	Cumene	5	---	U (1)	---	U (1)	U (1)	U (1)	U (1)
	Dibromochloromethane	50	---	U (1)	---	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethane	5	---	0.49 J (1)	---	0.33 J (1)	0.28 J (1)	U (1)	U (1)
	1,2-Dichloroethane	0.6	---	U (1)	---	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethene	5	---	U (1)	---	U (1)	UJ (1)	U (1)	U (1)
	cis-1,2-Dichloroethene	5	---	0.46 J (1)	---	0.88 J (1)	0.9 J (1)	0.28 J (1)	U (1)
	trans-1,2-Dichloroethene	5	---	U (1)	---	U (1)	UJ (1)	U (1)	U (1)
	1,4-Dioxane		---	120 (50)	---	71 J- (50)	U (50)	U (50)	U (50)
	Ethanol		---	---	---	---	---	---	---
	Ethyl Benzene	5	---	U (1)	---	U (1)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone		---	U (5)	---	U (5)	U (5)	U (5)	U (5)
	Methylene Chloride	5	---	0.64 J (1)	---	U (1)	U (1)	U (1)	U (1)
	Tetrachloroethene	5	---	U (1)	---	U (1)	U (1)	U (1)	U (1)
	Toluene	5	---	U (1)	---	U (1)	U (1)	U (1)	U (1)
	1,1,1-Trichloroethane	5	---	U (1)	---	U (1)	U (1)	U (1)	U (1)
	1,1,2-Trichloroethane	1	---	U (1)	---	U (1)	U (1)	U (1)	U (1)
	Trichloroethene	5	---	2 (1)	---	0.78 J (1)	3.2 (1)	U (1)	U (1)
	Trichlorofluoromethane	5	---	U (1)	---	U (1)	U (1)	U (1)	U (1)
	Vinyl Chloride	2	---	U (1)	---	U (1)	0.28 J (1)	U (1)	U (1)
	m,p-xylene		---	U (1)	---	U (1)	U (1)	U (1)	U (1)
	ortho-xylene	5	---	U (1)	---	U (1)	U (1)	U (1)	U (1)
	Xylenes (total)	5	---	U (1)	---	U (1)	U (1)	U (1)	U (1)
TOC									
	Inorganic Carbon (total)		---	---	---	---	---	---	---
	Organic Carbon (total)		---	---	---	---	---	---	---
SVOC									
	1,4-Dioxane		U (0.2)	---	---	---	---	---	---

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location		MW06	MW100B	MW100B	MW100B	MW100B	MW100B	MW100B
	Field Sample ID		MW-06-180730	MW-100B-180801	DUP-180801	MW-100B-181113	MW-100B-190220	MW100B-190506	DUP-190506
	Lab Sample ID	NY Fresh Groundwater (GA) Standards	200-44580-3 / 460-161627-3	276600001 / 460-161828-1	276600005 / 460-161828-5	460-169286-4 / MW-100B-181113	295620001 / 460-175850-1	302370002 / 460-181278-2	302370004 / 460-181278-4
	Sample Method		Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP
	Sample Date		7/30/2018	8/1/2018	8/1/2018	11/13/2018	2/20/2019	5/6/2019	5/6/2019
	Comments				Field Duplicate				Field Duplicate
PFAS [ng/L]									
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)		U (18)	---	---	---	---	---	---
	Perfluorobutanoic acid (PFBA)		9.8 (1.8)	---	---	---	---	---	---
	Perfluoropentanoic acid (PFPeA)		2.1 (1.8)	---	---	---	---	---	---
	Perfluorohexanoic acid (PFHxA)		8.04 (1.8)	---	---	---	---	---	---
	Perfluoroheptanoic acid (PFHpA)		1.91 (1.8)	---	---	---	---	---	---
	Perfluorooctanoic acid (PFOA)		2.34 JB (3.59)	---	---	---	---	---	---
	Perfluorononanoic acid (PFNA)		1.04 J (1.8)	---	---	---	---	---	---
	Perfluorodecanoic acid (PFDA)		1.18 J (1.8)	---	---	---	---	---	---
	Perfluoroundecanoic acid (PFUnA)		0.24 J (1.8)	---	---	---	---	---	---
	Perfluorododecanoic acid (PFDoA)		0.44 J (1.8)	---	---	---	---	---	---
	Perfluorobutanesulfonic acid (PFBS)		4.58 (1.8)	---	---	---	---	---	---
	Perfluorohexanesulfonic acid (PFHxS)		U (3.59)	---	---	---	---	---	---
	Perfluoroheptanesulfonic acid (PFHpS)		U (1.8)	---	---	---	---	---	---
	Perfluorooctanesulfonic acid (PFOS)		7.58 (1.8)	---	---	---	---	---	---
MNA									
	Chloride	250000	---	---	---	---	---	---	---
	Nitrate	10000	---	---	---	---	---	---	---
	Sulfate	250000	---	---	---	---	---	---	---
INORG (Total)									
	Calcium		---	29700 (5000)	29500 (5000)	10500 (5000)	6000 (5000)	6260 (5000)	6030 (5000)
	Magnesium	35000	---	1670 J (5000)	1640 J (5000)	U (5000)	U (5000)	U (5000)	U (5000)
	Potassium		---	10500 (5000)	10400 (5000)	11500 (5000)	6890 (5000)	4800 J (5000)	4640 J (5000)
	Sodium	20000	---	**184000 (5000)**	**183000 (5000)**	**153000 (5000)**	**78400 (5000)**	**78000 (5000)**	**76700 (5000)**
INORG (Dissolved)									
	Iron		---	3150 (150)	3300 (150)	U (150)	U (150)	U (150)	U (150)
GEOCHEMICAL									
	HYDROGEN (H2) [nM]		---	130000 n (5000)	100000 n (10000)	7600 Jn (500)	170 n (10)	620 Jn (50)	380 Jn (20)
Field Parameters									
	Dissolved Oxygen, Field		---	0	---	0	2090	150	---
	Oxidation Reduction Potential (Field Measured) [mV]		---	-393	---	-157	31	-87	---
	pH (Field Analysis) [su]		---	7.67	---	10.27	10.9	10	---

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW100B	MW100B	MW100B	MW100B	MW100B	MW100B	MW100B	MW100B
	Field Sample ID	MW100B-190729	DUP-190729	MW100B-200224	MW100B-200811	MW100B-210209	MW-100B-210817	MW-100B-220823	MW-100B/230808
	Lab Sample ID	310520002 / 460-187743-2	310520003 / 460-187743-3	330740003 / 460-203694-3	22008146601 / 460-215822-3	22102182201 / 460-227927-1	22108194202 / 460-241081-7	22208245703 / 460-264343-6	20285724003 / 620-13200-1
	Sample Method	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	7/29/2019	7/29/2019	2/24/2020	8/11/2020	2/9/2021	8/17/2021	8/23/2022	8/8/2023
	Comments		Field Duplicate						
WQ									
	Alkalinity	68200 (5000)	67000 (5000)	83800 (5000)	80800 (5000)	117000 (5000)	95700 (5000)	111000 (5000)	---
	Total Alkalinity as CaCO3	---	---	---	---	---	---	---	116000 (5000)
	Bicarbonate Alkalinity	39600 (5000)	38100 (5000)	32700 (5000)	46700 (5000)	31800 (5000)	42300 (5000)	37900 (5000)	---
	Bicarbonate as CaCO3	---	---	32700 (5000)	---	---	---	---	---
	Carbonate Alkalinity	28600 (5000)	28900 (5000)	51200 (5000)	34000 (5000)	84900 (5000)	53400 (5000)	73500 (5000)	---
	Chloride	57900 (2400)	57700 (2400)	52900 (2400)	71300 (320)	51600 (320)	14800 (320)	21100 (320)	---
	Nitrate	U (100)	U (100)	U (100)	78 J (160)	U (160)	160 (160)	U (160)	---
	Sulfate	670 (600)	690 (600)	1340 (600)	260 J (480)	2000 (480)	280 J (480)	230 J (480)	---
VOC									
	Acetone	U (5)	U (5)	U (5)	U (5)	U (5)	17 (5)	8.6 (5)	U (10)
	Benzene	U (1)	U (1)	U (1)	0.46 J (1)	0.33 J (1)	0.54 J (1)	0.47 J (1)	0.48 J (1)
	Bromodichloromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (0.5)
	Bromoform	UJ (1)	UJ (1)	U (1)	U (1)	U (1)	UJ (1)	U (1)	U (1)
	2-Butanone	4.9 J (5)	U (5)	2.6 J (5)	U (5)	U (5)	4.4 J (5)	U (5)	1.1 J (2)
	Chloroethane	U (1)	0.84 J (1)	0.44 J (1)	1.1 (1)	U (1)	0.48 J (1)	0.87 J (1)	U (2)
	Chloroform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Chloromethane	U (1)	U (1)	U (1)	U (1)	0.94 J (1)	U (1)	U (1)	U (2)
	Cumene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Dibromochloromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (0.5)
	1,1-Dichloroethane	U (1)	U (1)	0.26 J (1)	0.6 J (1)	0.4 J (1)	1.2 (1)	1 (1)	1.5 (1)
	1,2-Dichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethene	UJ (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	cis-1,2-Dichloroethene	0.33 J (1)	0.31 J (1)	0.36 J (1)	0.54 J (1)	0.48 J (1)	0.66 J (1)	0.28 J (1)	U (1)
	trans-1,2-Dichloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	UJ (1)	U (1)
	1,4-Dioxane	U (50)	U (50)	---	---	---	---	---	---
	Ethanol	---	---	---	---	---	---	---	U (200)
	Ethyl Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (2)
	Methylene Chloride	U (1)	U (1)	U (1)	U (1)	0.42 J (1)	U (1)	U (1)	U (2)
	Tetrachloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Toluene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,1-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Trichloroethene	0.45 J (1)	0.38 J (1)	U (1)	U (1)	0.35 J (1)	U (1)	U (1)	U (1)
	Trichlorofluoromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Vinyl Chloride	U (1)	U (1)	U (1)	0.38 J (1)	U (1)	U (1)	0.34 J (1)	U (1)
	m,p-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	ortho-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Xylenes (total)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
TOC									
	Inorganic Carbon (total)	---	---	---	---	---	---	---	---
	Organic Carbon (total)	---	---	---	---	---	---	---	---
SVOC									
	1,4-Dioxane	---	---	2.4 (0.2)	3.3 (0.2)	3.7 (0.2)	0.83 (0.2)	2.6 (0.2)	1.6 B (0.19)

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

Location	MW100B	MW100B	MW100B	MW100B	MW100B	MW100B	MW100B	MW100B
Field Sample ID	MW100B-190729	DUP-190729	MW100B-200224	MW100B-200811	MW100B-210209	MW-100B-210817	MW-100B-220823	MW-100B/230808
Lab Sample ID	310520002 / 460-187743-2	310520003 / 460-187743-3	330740003 / 460-203694-3	22008146601 / 460-215822-3	22102182201 / 460-227927-1	22108194202 / 460-241081-7	22208245703 / 460-264343-6	20285724003 / 620-13200-1
Sample Method	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
Sample Date	7/29/2019	7/29/2019	2/24/2020	8/11/2020	2/9/2021	8/17/2021	8/23/2022	8/8/2023
Comments		Field Duplicate						
PFAS [ng/L]								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	---	---	---	---
Perfluorobutanoic acid (PFBA)	---	---	---	---	---	---	---	---
Perfluoropentanoic acid (PFPeA)	---	---	---	---	---	---	---	---
Perfluorohexanoic acid (PFHxA)	---	---	---	---	---	---	---	---
Perfluoroheptanoic acid (PFHpA)	---	---	---	---	---	---	---	---
Perfluorooctanoic acid (PFOA)	---	---	---	---	---	---	---	---
Perfluorononanoic acid (PFNA)	---	---	---	---	---	---	---	---
Perfluorodecanoic acid (PFDA)	---	---	---	---	---	---	---	---
Perfluoroundecanoic acid (PFUnA)	---	---	---	---	---	---	---	---
Perfluorododecanoic acid (PFDoA)	---	---	---	---	---	---	---	---
Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	---	---	---	---
Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	---	---	---	---
Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	---	---	---	---
Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	---	---	---	---
MNA								
Chloride	---	---	---	---	---	---	---	14600 (320)
Nitrate	---	---	---	---	---	---	---	U (160)
Sulfate	---	---	---	---	---	---	---	200 J (480)
INORG (Total)								
Calcium	6840 (5000)	6870 (5000)	2630 J (5000)	3700 J (5000)	1960 J (5000)	2480 J (5000)	2160 J (5000)	2200 (2000)
Magnesium	U (5000)	U (5000)	U (5000)	227 J (5000)	U (5000)	U (5000)	484 J (5000)	1300 (200)
Potassium	4670 J (5000)	4600 J (5000)	4490 J (5000)	3140 J (5000)	3340 J (5000)	5940 (5000)	2060 J (5000)	4700 (4000)
Sodium	**66700 (5000)**	**66600 (5000)**	**82100 (5000)**	**86200 (5000)**	**86300 (5000)**	**52200 (5000)**	**59400 (5000)**	**53100 (6000)**
INORG (Dissolved)								
Iron	U (150)	U (150)	U (150)	U (150)	U (150)	U (150)	U (150)	U (100)
GEOCHEMICAL								
HYDROGEN (H2) [nM]	1300 n (100)	1500 n (50)	45 n (2)	58 (3.8)	6.6 (0.49)	1.3 J (0.49)	4 (1.9)	28.3 (1.9)
Field Parameters								
Dissolved Oxygen, Field	0	---	0	490	2590	17100	1480	1280
Oxidation Reduction Potential (Field Measured) [mV]	6	---	2	-152	-99	-60	155	-198
pH (Field Analysis) [su]	10.41	---	10.35	10.23	9.78	9.81	8.05	9.1

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW100B	MW100B	MW100E	MW100E	MW100E	MW100E	MW100E	MW100E
	Field Sample ID	MW-100B/240820	MW-100B/250811	MW-100E-180801	MW-100E-181113	MW-100E-190220	MW100E-190506	MW100E-190729	MW100E-200224
	Lab Sample ID	620-20451-7	620-28495-2	276600002 / 460-161828-2	460-169286-3 / MW-100E-181113	295620003 / 460-175850-3	302370001 / 460-181278-1	310540002 / 460-187853-2	330740002 / 460-203694-2
	Sample Method	Bladder Pump	Bladder Pump	Peristaltic Pump	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP
	Sample Date	8/20/2024	8/11/2025	8/1/2018	11/13/2018	2/20/2019	5/6/2019	7/29/2019	2/24/2020
	Comments								
WQ									
	Alkalinity	---	---	160000 (5000)	107000 (5000)	62400 (5000)	47500 (5000)	61300 (5000)	38600 (5000)
	Total Alkalinity as CaCO3	120000 (5000)	127000 (8000)	---	---	---	---	---	---
	Bicarbonate Alkalinity	---	---	160000 (5000)	102000 (5000)	45000 (5000)	28500 (5000)	48500 (5000)	32500 (5000)
	Bicarbonate as CaCO3	---	---	---	---	---	---	---	32500 (5000)
	Carbonate Alkalinity	---	---	U (5000)	U (5000)	17400 (5000)	19000 (5000)	12800 (5000)	6000 (5000)
	Chloride	---	---	104000 (4560)	82800 (3480)	140000 (6000)	143000 (6000)	75300 (3000)	98800 (6000)
	Nitrate	---	---	U (100)	U (100)	U (100)	57 J (100)	U (100)	U (100)
	Sulfate	---	---	25100 (600)	15100 (600)	1450 (600)	930 (600)	970 (600)	U (600)
VOC									
	Acetone	2.6 J- (10)	U (10)	**120 (5)**	43 J (5)	6.1 J (5)	U (5)	U (5)	U (5)
	Benzene	0.29 J (1)	0.39 J (1)	0.95 J (1)	0.47 J (1)	U (1)	U (1)	U (1)	U (1)
	Bromodichloromethane	U (0.5)	U (0.5)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Bromoform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	2-Butanone	UJ (2)	U (2)	39 (5)	**66 (5)**	14 (5)	2.6 J (5)	3.9 J (5)	U (5)
	Chloroethane	1.2 J (2)	U (2)	1.1 (1)	0.45 J (1)	U (1)	U (1)	UJ (1)	0.42 J (1)
	Chloroform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Chloromethane	UJ (2)	U (2)	U (1)	UJ (1)	U (1)	UJ (1)	U (1)	U (1)
	Cumene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	0.77 J (1)
	Dibromochloromethane	U (0.5)	U (0.5)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethane	1.5 (1)	1.2 (1)	4.9 (1)	0.67 J (1)	U (1)	0.27 J (1)	0.28 J (1)	U (1)
	1,2-Dichloroethane	0.34 J (1)	U (1)	0.46 J (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethene	U (1)	U (1)	1 (1)	U (1)	UJ (1)	U (1)	U (1)	U (1)
	cis-1,2-Dichloroethene	U (1)	U (1)	**290 (1)**	**43 (1)**	**20 (1)**	**19 (1)**	**20 (1)**	**11 (1)**
	trans-1,2-Dichloroethene	U (1)	U (1)	0.31 J (1)	U (1)	UJ (1)	U (1)	U (1)	U (1)
	1,4-Dioxane	---	---	U (50)	UJ (50)	U (50)	U (50)	U (50)	---
	Ethanol	UJ (200)	U (200)	---	---	---	---	---	---
	Ethyl Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone	U (2)	U (2)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
	Methylene Chloride	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Tetrachloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Toluene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,1-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Trichloroethene	U (1)	U (1)	**5.3 (1)**	2 (1)	2.2 (1)	3 (1)	3.7 (1)	2.3 (1)
	Trichlorofluoromethane	UJ (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Vinyl Chloride	U (1)	U (1)	**220 (1)**	**8.1 (1)**	**5.4 (1)**	**4.4 (1)**	**4.7 (1)**	1.5 (1)
	m,p-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	ortho-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Xylenes (total)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
TOC									
	Inorganic Carbon (total)	---	---	---	---	---	---	---	---
	Organic Carbon (total)	---	---	---	---	---	---	---	---
SVOC									
	1,4-Dioxane	2.9 J+ (0.2)	1.6 (0.2)	---	---	---	---	---	1.9 (0.2)

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

Location	MW100B	MW100B	MW100E	MW100E	MW100E	MW100E	MW100E	MW100E
Field Sample ID	MW-100B/240820	MW-100B/250811	MW-100E-180801	MW-100E-181113	MW-100E-190220	MW100E-190506	MW100E-190729	MW100E-200224
Lab Sample ID	620-20451-7	620-28495-2	276600002 / 460-161828-2	460-169286-3 / MW-100E-181113	295620003 / 460-175850-3	302370001 / 460-181278-1	310540002 / 460-187853-2	330740002 / 460-203694-2
Sample Method	Bladder Pump	Bladder Pump	Peristaltic Pump	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP
Sample Date	8/20/2024	8/11/2025	8/1/2018	11/13/2018	2/20/2019	5/6/2019	7/29/2019	2/24/2020
Comments								
PFAS [ng/L]								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	---	---	---	---
Perfluorobutanoic acid (PFBA)	---	---	---	---	---	---	---	---
Perfluoropentanoic acid (PFPeA)	---	---	---	---	---	---	---	---
Perfluorohexanoic acid (PFHxA)	---	---	---	---	---	---	---	---
Perfluoroheptanoic acid (PFHpA)	---	---	---	---	---	---	---	---
Perfluorooctanoic acid (PFOA)	---	---	---	---	---	---	---	---
Perfluorononanoic acid (PFNA)	---	---	---	---	---	---	---	---
Perfluorodecanoic acid (PFDA)	---	---	---	---	---	---	---	---
Perfluoroundecanoic acid (PFUnA)	---	---	---	---	---	---	---	---
Perfluorododecanoic acid (PFDoA)	---	---	---	---	---	---	---	---
Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	---	---	---	---
Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	---	---	---	---
Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	---	---	---	---
Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	---	---	---	---
MNA								
Chloride	15700 (320)	8820 (1500)	---	---	---	---	---	---
Nitrate	U (160)	U (110)	---	---	---	---	---	---
Sulfate	710 (480)	U (1500)	---	---	---	---	---	---
INORG (Total)								
Calcium	1900 J+ (500)	2300 (500)	42600 (5000)	8500 (5000)	5980 (5000)	18900 (5000)	8740 (5000)	12500 (5000)
Magnesium	2200 J+ (20)	3600 (40)	3310 J (5000)	U (5000)	U (5000)	U (5000)	U (5000)	254 J (5000)
Potassium	2800 J+ (1000)	1400 (1000)	14700 (5000)	10600 (5000)	9580 (5000)	6120 (5000)	3700 J (5000)	6120 (5000)
Sodium	**66600 (1500)**	**48000 (1500)**	**125000 (5000)**	**117000 (5000)**	**111000 (5000)**	**93700 (5000)**	**68000 (5000)**	**86100 (5000)**
INORG (Dissolved)								
Iron	9.5 J (100)	U (100)	1400 (150)	U (150)	U (150)	U (150)	U (150)	U (150)
GEOCHEMICAL								
HYDROGEN (H2) [nM]	---	---	5300 n (1000)	1900 Jn (100)	390 n (20)	270 n (20)	510 n (50)	790 n (100)
Field Parameters								
Dissolved Oxygen, Field	0	0	0	2360	0	0	4760	2720
Oxidation Reduction Potential (Field Measured) [mV]	-119	-136	-80	-244	-116	-207	-47	-156
pH (Field Analysis) [su]	10.55	10.04	7	8.92	10.62	10.01	10.18	9.72

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW100E	MW100E	MW100E	MW100E	MW100E	MW100E	MW100E	MW100E
	Field Sample ID	MW100E-200812	MW100E-210209	MW-100E-210817	MW-100E-220824	MW-100E/230808	DUPA/230808	MW-100E/240820	DUP/240820
	Lab Sample ID	22008146607 / 460-215822-10	22102182202 / 460-227927-2	22108214202 / 460-241154-2	22208259005 / 460-264416-5	20285724004 / 620-13200-8	20285724005 / 620-13200-11	620-20451-5	620-20451-10
	Sample Method	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	8/12/2020	2/9/2021	8/17/2021	8/24/2022	8/8/2023	8/8/2023	8/20/2024	8/20/2024
	Comments						Field Duplicate		Field Duplicate
WQ									
	Alkalinity	48100 (5000)	38400 (5000)	104000 (5000)	125000 (5000)	---	---	---	---
	Total Alkalinity as CaCO3	---	---	---	---	114000 J (5000)	57100 J (5000)	101000 (5000)	99500 (5000)
	Bicarbonate Alkalinity	48100 (5000)	29200 (5000)	55400 (5000)	113000 (5000)	---	---	---	---
	Bicarbonate as CaCO3	---	---	---	---	---	---	---	---
	Carbonate Alkalinity	U (5000)	9200 (5000)	48200 (5000)	11500 (5000)	---	---	---	---
	Chloride	67900 (320)	67300 (320)	48800 (320)	10300 (320)	---	---	---	---
	Nitrate	U (160)	U (160)	U (160)	U (160)	---	---	---	---
	Sulfate	280 J (480)	200 J (480)	840 (480)	160 J (480)	---	---	---	---
VOC									
	Acetone	U (5)	U (5)	U (5)	U (5)	U (10)	13 J+ (10)	2.7 J- (10)	U (10)
	Benzene	U (1)	0.32 J (1)	U (1)	0.35 J (1)	0.3 J (1)	U (1)	U (1)	0.28 J (1)
	Bromodichloromethane	U (1)	U (1)	U (1)	U (1)	U (0.5)	U (0.5)	U (0.5)	U (0.5)
	Bromoform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	2-Butanone	U (5)	U (5)	U (5)	U (5)	U (2)	U (2)	UJ (2)	U (2)
	Chloroethane	U (1)	U (1)	U (1)	0.39 J (1)	U (2)	U (2)	UJ (2)	UJ (2)
	Chloroform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Chloromethane	U (1)	1.2 (1)	U (1)	U (1)	U (2)	U (2)	UJ (2)	UJ (2)
	Cumene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Dibromochloromethane	U (1)	U (1)	U (1)	U (1)	U (0.5)	U (0.5)	U (0.5)	U (0.5)
	1,1-Dichloroethane	0.47 J (1)	U (1)	0.36 J (1)	0.62 J (1)	U (1)	U (1)	U (1)	U (1)
	1,2-Dichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	cis-1,2-Dichloroethene	**18 (1)**	**11 (1)**	**8.5 (1)**	**12 (1)**	**5.7 J (1)**	0.98 J (1)	4.6 J (1)	**6.9 J (1)**
	trans-1,2-Dichloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,4-Dioxane	---	---	---	---	---	---	---	---
	Ethanol	---	---	---	---	80 J (200)	U (200)	UJ (200)	UJ (200)
	Ethyl Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone	U (5)	U (5)	U (5)	U (5)	U (2)	0.67 J (2)	U (2)	U (2)
	Methylene Chloride	U (1)	0.4 J (1)	U (1)	U (1)	U (2)	U (2)	U (2)	U (2)
	Tetrachloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Toluene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,1-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Trichloroethene	3.6 (1)	2.4 (1)	3.5 (1)	2.2 (1)	4.7 J (1)	UJ (1)	1.8 (1)	2.4 (1)
	Trichlorofluoromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	UJ (1)	U (1)
	Vinyl Chloride	**3.6 (1)**	2 (1)	0.98 J (1)	**3.5 (1)**	0.93 J (1)	U (1)	1 (1)	0.86 J (1)
	m,p-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	ortho-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Xylenes (total)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
TOC									
	Inorganic Carbon (total)	---	---	---	27500 (1000)	---	---	18800 J (2000)	2200 J (2000)
	Organic Carbon (total)	---	---	---	18800 (1000)	10900 J (1000)	8100 J (1000)	15600 J (1000)	540 J (1000)
SVOC									
	1,4-Dioxane	1.3 (0.2)	1 (0.2)	2.4 (0.2)	0.59 (0.2)	3.5 J (0.19)	0.54 J (0.19)	1.8 J (0.19)	UJ (0.2)

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW100E	MW100E	MW100E	MW100E	MW100E	MW100E	MW100E	MW100E
	Field Sample ID	MW100E-200812	MW100E-210209	MW-100E-210817	MW-100E-220824	MW-100E/230808	DUPA/230808	MW-100E/240820	DUP/240820
	Lab Sample ID	22008146607 / 460-215822-10	22102182202 / 460-227927-2	22108214202 / 460-241154-2	22208259005 / 460-264416-5	20285724004 / 620-13200-8	20285724005 / 620-13200-11	620-20451-5	620-20451-10
	Sample Method	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	8/12/2020	2/9/2021	8/17/2021	8/24/2022	8/8/2023	8/8/2023	8/20/2024	8/20/2024
	Comments						Field Duplicate		Field Duplicate
PFAS [ng/L]									
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	---	---	---	---
	Perfluorobutanoic acid (PFBA)	---	---	---	---	---	---	---	---
	Perfluoropentanoic acid (PFPeA)	---	---	---	---	---	---	---	---
	Perfluorohexanoic acid (PFHxA)	---	---	---	---	---	---	---	---
	Perfluoroheptanoic acid (PFHpA)	---	---	---	---	---	---	---	---
	Perfluorooctanoic acid (PFOA)	---	---	---	---	---	---	---	---
	Perfluorononanoic acid (PFNA)	---	---	---	---	---	---	---	---
	Perfluorodecanoic acid (PFDA)	---	---	---	---	---	---	---	---
	Perfluoroundecanoic acid (PFUnA)	---	---	---	---	---	---	---	---
	Perfluorododecanoic acid (PFDoA)	---	---	---	---	---	---	---	---
	Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	---	---	---	---
	Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	---	---	---	---
	Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	---	---	---	---
	Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	---	---	---	---
MNA									
	Chloride	---	---	---	---	35800 J (320)	3710 J (320)	17100 (320)	16800 (320)
	Nitrate	---	---	---	---	U (160)	110 J (160)	U (160)	U (160)
	Sulfate	---	---	---	---	900 (480)	980 (480)	810 (480)	880 (480)
INORG (Total)									
	Calcium	9020 (5000)	11900 (5000)	3480 J (5000)	5440 (5000)	3000 J (1000)	8300 J (1000)	1500 J+ (500)	U (500)
	Magnesium	428 J (5000)	U (5000)	545 J (5000)	1140 J (5000)	460 (100)	740 (100)	350 J+ (20)	U (20)
	Potassium	3760 J (5000)	6240 (5000)	1840 J (5000)	1830 J (5000)	2300 J (2000)	1500 J (2000)	2800 J+ (1000)	U (1000)
	Sodium	**47700 (5000)**	**48100 (5000)**	**74800 (5000)**	**53700 (5000)**	**72000 J (3000)**	7600 J (3000)	**58100 J (1500)**	150 J (1500)
INORG (Dissolved)									
	Iron	U (150)	U (150)	U (150)	U (150)	U (100)	93 J (100)	24 J (100)	11 J (100)
GEOCHEMICAL									
	HYDROGEN (H2) [nM]	910 (190)	1200 (98)	170 J (6.2)	5.9 (1.9)	28.1 (1.9)	28.9 (1.9)	---	---
Field Parameters									
	Dissolved Oxygen, Field	340	2570	1060	1070	970	---	0	---
	Oxidation Reduction Potential (Field Measured) [mV]	-236	-178	-168	68	-261	---	-218	---
	pH (Field Analysis) [su]	8.47	8.74	9.92	5.62	9.89	---	11	---

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW100E	MW100E	MW100I	MW100I	MW100I	MW100I	MW100I	MW100I
	Field Sample ID	MW-100E/250811	DUP/250812	MW-100I-180801	MW-100I-181113	DUP-181113	MW-100I-190220	DUP-190220	MW100I-190506
	Lab Sample ID	620-28495-3	620-28538-8	276600004 / 460-161828-4	460-169286-1 / MW-100I-181113	460-169286-2 / DUP-181113	295620002 / 460-175850-2	295620004 / 460-175850-6	302580004 / 460-181383-7
	Sample Method	Bladder Pump	Bladder Pump	Peristaltic Pump	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP
	Sample Date	8/11/2025	8/12/2025	8/1/2018	11/13/2018	11/13/2018	2/20/2019	2/20/2019	5/6/2019
	Comments		Field Duplicate			Field Duplicate		Field Duplicate	
WQ									
	Alkalinity	---	---	252000 (5000)	393000 (5000)	379000 (5000)	315000 (5000)	315000 (5000)	266000 (5000)
	Total Alkalinity as CaCO3	101000 (8000)	234000 (8000)	---	---	---	---	---	---
	Bicarbonate Alkalinity	---	---	252000 (5000)	393000 (5000)	379000 (5000)	315000 (5000)	315000 (5000)	266000 (5000)
	Bicarbonate as CaCO3	---	---	---	---	---	---	---	---
	Carbonate Alkalinity	---	---	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)
	Chloride	---	---	**406000 (12000)**	226000 (9480)	232000 (9480)	119000 (6000)	113000 (6000)	114000 (6000)
	Nitrate	---	---	U (100)	U (100)	U (100)	43 J (100)	83 J (100)	62 J (100)
	Sulfate	---	---	27700 (600)	27200 (6000)	27100 (6000)	27900 (600)	27500 (600)	26900 (600)
VOC									
	Acetone	U (10)	U (10)	U (50)	U (25)	U (25)	U (10)	U (10)	U (25)
	Benzene	0.27 J (1)	U (1)	U (10)	U (5)	U (5)	U (2)	U (2)	U (5)
	Bromodichloromethane	U (0.5)	U (0.5)	U (10)	U (5)	U (5)	U (2)	U (2)	U (5)
	Bromoform	U (1)	U (1)	U (10)	U (5)	U (5)	UJ (2)	UJ (2)	U (5)
	2-Butanone	U (2)	U (2)	U (50)	U (25)	U (25)	U (10)	U (10)	U (25)
	Chloroethane	U (2)	U (2)	U (10)	U (5)	U (5)	U (2)	U (2)	U (5)
	Chloroform	U (1)	U (1)	U (10)	U (5)	U (5)	U (2)	U (2)	U (5)
	Chloromethane	U (2)	U (2)	U (10)	UJ (5)	UJ (5)	U (2)	U (2)	UJ (5)
	Cumene	U (1)	U (1)	U (10)	U (5)	U (5)	U (2)	U (2)	U (5)
	Dibromochloromethane	U (0.5)	U (0.5)	U (10)	U (5)	U (5)	U (2)	U (2)	U (5)
	1,1-Dichloroethane	U (1)	**6.9 (1)**	**98 (10)**	**56 (5)**	**58 (5)**	**66 (2)**	**67 (2)**	**57 (5)**
	1,2-Dichloroethane	U (1)	0.42 J (1)	**10 (10)**	**5.1 (5)**	**4.3 J (5)**	**2.7 (2)**	**2.7 (2)**	**2.9 J (5)**
	1,1-Dichloroethene	U (1)	4.8 (1)	**26 (10)**	**15 (5)**	**19 (5)**	**12 (2)**	**11 (2)**	**12 (5)**
	cis-1,2-Dichloroethene	**5.9 (1)**	**300 (10)**	**3400 (10)**	**740 (5)**	**790 (5)**	**360 (2)**	**350 (2)**	**280 (5)**
	trans-1,2-Dichloroethene	U (1)	**6.7 (1)**	3 J (10)	2.8 J (5)	2.1 J (5)	1.4 J (2)	1.3 J (2)	1.7 J (5)
	1,4-Dioxane	---	---	360 J (500)	UJ (250)	UJ (250)	64 J (100)	77 J (100)	U (250)
	Ethanol	U (200)	U (200)	---	---	---	---	---	---
	Ethyl Benzene	U (1)	U (1)	U (10)	U (5)	U (5)	U (2)	U (2)	U (5)
	4-Methyl-2-pentanone	U (2)	U (2)	U (50)	U (25)	U (25)	U (10)	U (10)	U (25)
	Methylene Chloride	U (2)	U (2)	U (10)	U (5)	U (5)	U (2)	U (2)	U (5)
	Tetrachloroethene	U (1)	1.9 (1)	U (10)	**5.2 (5)**	**5.6 (5)**	4.2 (2)	4.1 (2)	**8.1 (5)**
	Toluene	U (1)	U (1)	U (10)	U (5)	U (5)	U (2)	U (2)	U (5)
	1,1,1-Trichloroethane	U (1)	2.4 (1)	**41 (10)**	**37 (5)**	**42 (5)**	**16 (2)**	**15 (2)**	**18 (5)**
	1,1,2-Trichloroethane	U (1)	U (1)	U (10)	**3.2 J (5)**	**3.1 J (5)**	**1.5 J (2)**	**1.6 J (2)**	U (5)
	Trichloroethene	2 (1)	**270 (10)**	**410 (10)**	**870 (5)**	**970 (5)**	**880 (2)**	**850 (2)**	**1300 (5)**
	Trichlorofluoromethane	U (1)	U (1)	U (10)	U (5)	U (5)	U (2)	U (2)	U (5)
	Vinyl Chloride	U (1)	**99 (10)**	**250 (10)**	**260 (5)**	**310 (5)**	**180 (2)**	**180 (2)**	**100 (5)**
	m,p-xylene	U (1)	U (1)	U (10)	U (5)	U (5)	U (2)	U (2)	U (5)
	ortho-xylene	U (1)	U (1)	U (10)	U (5)	U (5)	U (2)	U (2)	U (5)
	Xylenes (total)	U (1)	U (10)	U (10)	U (5)	U (5)	U (2)	U (2)	U (5)
TOC									
	Inorganic Carbon (total)	10700 (2000)	34600 (2000)	---	---	---	---	---	---
	Organic Carbon (total)	9600 (1000)	5800 (1000)	---	---	---	---	---	---
SVOC									
	1,4-Dioxane	2 (0.21)	2.2 (0.19)	---	---	---	---	---	---

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW100E	MW100E	MW100I	MW100I	MW100I	MW100I	MW100I	MW100I
	Field Sample ID	MW-100E/250811	DUP/250812	MW-100I-180801	MW-100I-181113	DUP-181113	MW-100I-190220	DUP-190220	MW100I-190506
	Lab Sample ID	620-28495-3	620-28538-8	276600004 / 460-161828-4	460-169286-1 / MW-100I-181113	460-169286-2 / DUP-181113	295620002 / 460-175850-2	295620004 / 460-175850-6	302580004 / 460-181383-7
	Sample Method	Bladder Pump	Bladder Pump	Peristaltic Pump	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP
	Sample Date	8/11/2025	8/12/2025	8/1/2018	11/13/2018	11/13/2018	2/20/2019	2/20/2019	5/6/2019
	Comments		Field Duplicate			Field Duplicate		Field Duplicate	
PFAS [ng/L]									
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		---	---	---	---	---	---	---	---
Perfluorobutanoic acid (PFBA)		---	---	---	---	---	---	---	---
Perfluoropentanoic acid (PFPeA)		---	---	---	---	---	---	---	---
Perfluorohexanoic acid (PFHxA)		---	---	---	---	---	---	---	---
Perfluoroheptanoic acid (PFHpA)		---	---	---	---	---	---	---	---
Perfluorooctanoic acid (PFOA)		---	---	---	---	---	---	---	---
Perfluorononanoic acid (PFNA)		---	---	---	---	---	---	---	---
Perfluorodecanoic acid (PFDA)		---	---	---	---	---	---	---	---
Perfluoroundecanoic acid (PFUnA)		---	---	---	---	---	---	---	---
Perfluorododecanoic acid (PFDoA)		---	---	---	---	---	---	---	---
Perfluorobutanesulfonic acid (PFBS)		---	---	---	---	---	---	---	---
Perfluorohexanesulfonic acid (PFHxS)		---	---	---	---	---	---	---	---
Perfluoroheptanesulfonic acid (PFHpS)		---	---	---	---	---	---	---	---
Perfluorooctanesulfonic acid (PFOS)		---	---	---	---	---	---	---	---
MNA									
Chloride		8730 (1500)	6130 (1500)	---	---	---	---	---	---
Nitrate		U (110)	U (110)	---	---	---	---	---	---
Sulfate		650 J (1500)	13900 (1500)	---	---	---	---	---	---
INORG (Total)									
Calcium		2100 (500)	48800 (500)	94700 (5000)	70300 (5000)	72400 (5000)	46500 (5000)	46500 (5000)	37400 (5000)
Magnesium		520 (40)	7300 (40)	30500 (5000)	23600 (5000)	24300 (5000)	15600 (5000)	15600 (5000)	12800 (5000)
Potassium		1700 (1000)	820 J (1000)	1160 J (5000)	829 J (5000)	849 J (5000)	527 J (5000)	530 J (5000)	579 J (5000)
Sodium		**44200 (1500)**	**43300 (1500)**	**250000 (5000)**	**199000 (5000)**	**203000 (5000)**	**155000 (5000)**	**158000 (5000)**	**136000 (5000)**
INORG (Dissolved)									
Iron		U (100)	U (100)	U (150)	U (150)	U (150)	U (150)	U (150)	U (150)
GEOCHEMICAL									
HYDROGEN (H2) [nM]		---	---	87000 n (10000)	140 Jn (20)	20 Jn (4)	58 Jn (2)	17 Jn (1)	5.5 n (1)
Field Parameters									
Dissolved Oxygen, Field		0	---	0	7830	---	0	---	700
Oxidation Reduction Potential (Field Measured) [mV]		-264	---	-109	-50	---	-46	---	-69
pH (Field Analysis) [su]		10.45	---	7.16	7.14	---	7.35	---	6.98

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW100I	MW100I	MW100I	MW100I	MW100I	MW100I	MW100I	MW100I
	Field Sample ID	MW100I-190729	MW100I-200224	MW100I-200812	MW100I-210209	MW-100I-210818	MW-100I-220824	MW-100I/230808	MW-100I/240821
	Lab Sample ID	310520001 / 460-187743-1	330740001 / 460-203694-1	22008203201 / 460-215912-2	22103087101 / 460-228039-2	22108214201 / 460-241154-1	22208259006 / 460-264416-6	20285724006 / 620-13200-6	620-20477-5
	Sample Method	BLADDER PUMP	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	7/29/2019	2/24/2020	8/12/2020	2/9/2021	8/18/2021	8/24/2022	8/8/2023	8/21/2024
	Comments								
WQ									
	Alkalinity	317000 (5000)	317000 (5000)	309000 (5000)	291000 (5000)	313000 (5000)	231000 (5000)	---	---
	Total Alkalinity as CaCO3	---	---	---	---	---	---	268000 (5000)	272000 (5000)
	Bicarbonate Alkalinity	317000 (5000)	317000 (5000)	309000 (5000)	291000 (5000)	313000 (5000)	231000 (5000)	---	---
	Bicarbonate as CaCO3	---	317000 (5000)	---	---	---	---	---	---
	Carbonate Alkalinity	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	---	---
	Chloride	101000 (3600)	45500 (2400)	45600 (320)	24600 (320)	20000 (320)	15900 (320)	---	---
	Nitrate	U (100)	U (100)	79 J (160)	UJ (160)	200 (160)	U (160)	---	---
	Sulfate	23500 (18000)	26700 (12000)	46400 (480)	22000 (480)	24300 (480)	22300 (480)	---	---
VOC									
	Acetone	U (25)	U (25)	U (10)	U (10)	U (25)	U (5)	U (10)	U (10)
	Benzene	U (5)	U (5)	U (2)	U (2)	U (5)	U (1)	U (1)	U (1)
	Bromodichloromethane	U (5)	U (5)	U (2)	U (2)	U (5)	U (1)	U (0.5)	U (0.5)
	Bromoform	UJ (5)	U (5)	U (2)	U (2)	U (5)	U (1)	U (1)	U (1)
	2-Butanone	U (25)	U (25)	U (10)	U (10)	U (25)	U (5)	U (2)	1.4 J (2)
	Chloroethane	U (5)	U (5)	U (2)	U (2)	U (5)	U (1)	U (2)	U (2)
	Chloroform	U (5)	U (5)	U (2)	U (2)	U (5)	U (1)	U (1)	U (1)
	Chloromethane	U (5)	U (5)	U (2)	U (2)	U (5)	U (1)	U (2)	U (2)
	Cumene	U (5)	U (5)	U (2)	U (2)	U (5)	U (1)	U (1)	U (1)
	Dibromochloromethane	U (5)	U (5)	U (2)	U (2)	U (5)	U (1)	U (0.5)	U (0.5)
	1,1-Dichloroethane	**29 (5)**	**51 (5)**	**10 (2)**	**22 (2)**	**25 (5)**	**7.3 (1)**	**17 (1)**	**9.3 (1)**
	1,2-Dichloroethane	U (5)	U (5)	**0.86 J (2)**	**1.1 J (2)**	U (5)	0.46 J (1)	**0.83 J (1)**	0.5 J (1)
	1,1-Dichloroethene	**6.2 J- (5)**	**13 (5)**	2.6 (2)	**7 (2)**	**8.2 (5)**	2.7 (1)	**7.3 (1)**	4.9 (1)
	cis-1,2-Dichloroethene	**230 (5)**	**310 (5)**	**230 (2)**	**250 (2)**	**320 (5)**	**300 (1)**	**700 (25)**	**330 (10)**
	trans-1,2-Dichloroethene	1.2 J (5)	3.6 J (5)	1.3 J (2)	2 (2)	2.9 J (5)	2.5 (1)	2.6 (1)	2.5 (1)
	1,4-Dioxane	U (250)	---	---	---	---	---	---	---
	Ethanol	---	---	---	---	---	---	U (200)	U (200)
	Ethyl Benzene	U (5)	U (5)	U (2)	U (2)	U (5)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone	U (25)	U (25)	U (10)	U (10)	U (25)	U (5)	U (2)	U (2)
	Methylene Chloride	U (5)	U (5)	U (2)	U (2)	U (5)	U (1)	U (2)	U (2)
	Tetrachloroethene	**5.7 (5)**	**5.9 (5)**	2 (2)	3.3 (2)	4.1 J (5)	1.9 (1)	1.7 * (1)	2.5 (1)
	Toluene	U (5)	U (5)	U (2)	U (2)	U (5)	U (1)	U (1)	U (1)
	1,1,1-Trichloroethane	**14 (5)**	**10 (5)**	**6.3 (2)**	**8.6 (2)**	**6.3 (5)**	4 (1)	2.7 (1)	3.7 (1)
	1,1,2-Trichloroethane	U (5)	U (5)	U (2)	0.71 J (2)	U (5)	0.38 J (1)	U (1)	U (1)
	Trichloroethene	**1100 (5)**	**1300 (5)**	**630 (2)**	**770 (2)**	**950 (5)**	**340 (1)**	**220 (25)**	**370 (10)**
	Trichlorofluoromethane	U (5)	U (5)	UJ (2)	U (2)	U (5)	U (1)	U (1)	U (1)
	Vinyl Chloride	**76 (5)**	**110 (5)**	**37 (2)**	**55 (2)**	**98 (5)**	**120 (1)**	**160 (25)**	**84 J- (1)**
	m,p-xylene	U (5)	U (5)	U (2)	U (2)	U (5)	U (1)	U (1)	U (1)
	ortho-xylene	U (5)	U (5)	U (2)	U (2)	U (5)	U (1)	U (1)	U (1)
	Xylenes (total)	U (5)	U (5)	U (2)	U (2)	U (5)	U (1)	U (25)	U (10)
TOC									
	Inorganic Carbon (total)	---	---	---	---	---	69100 (1000)	---	60000 (2000)
	Organic Carbon (total)	---	---	---	---	---	5500 (1000)	7000 (1000)	20500 (1000)
SVOC									
	1,4-Dioxane	---	7.1 (0.2)	5.7 (0.2)	3.9 (0.2)	3.3 (0.2)	3.1 (0.2)	4.7 B (0.19)	9.1 (0.2)

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW100I	MW100I	MW100I	MW100I	MW100I	MW100I	MW100I	MW100I
	Field Sample ID	MW100I-190729	MW100I-200224	MW100I-200812	MW100I-210209	MW-100I-210818	MW-100I-220824	MW-100I/230808	MW-100I/240821
	Lab Sample ID	310520001 / 460-187743-1	330740001 / 460-203694-1	22008203201 / 460-215912-2	22103087101 / 460-228039-2	22108214201 / 460-241154-1	22208259006 / 460-264416-6	20285724006 / 620-13200-6	620-20477-5
	Sample Method	BLADDER PUMP	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	7/29/2019	2/24/2020	8/12/2020	2/9/2021	8/18/2021	8/24/2022	8/8/2023	8/21/2024
	Comments								
PFAS [ng/L]									
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	---	---	---	---
	Perfluorobutanoic acid (PFBA)	---	---	---	---	---	---	---	---
	Perfluoropentanoic acid (PFPeA)	---	---	---	---	---	---	---	---
	Perfluorohexanoic acid (PFHxA)	---	---	---	---	---	---	---	---
	Perfluoroheptanoic acid (PFHpA)	---	---	---	---	---	---	---	---
	Perfluorooctanoic acid (PFOA)	---	---	---	---	---	---	---	---
	Perfluorononanoic acid (PFNA)	---	---	---	---	---	---	---	---
	Perfluorodecanoic acid (PFDA)	---	---	---	---	---	---	---	---
	Perfluoroundecanoic acid (PFUnA)	---	---	---	---	---	---	---	---
	Perfluorododecanoic acid (PFDoA)	---	---	---	---	---	---	---	---
	Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	---	---	---	---
	Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	---	---	---	---
	Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	---	---	---	---
	Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	---	---	---	---
MNA									
	Chloride	---	---	---	---	---	---	15000 (320)	10800 (320)
	Nitrate	---	---	---	---	---	---	U (160)	U (160)
	Sulfate	---	---	---	---	---	---	18200 (480)	23800 (480)
INORG (Total)									
	Calcium	47000 (5000)	45600 (5000)	52300 (5000)	47400 (5000)	41800 (5000)	59100 (5000)	54400 (1000)	62200 B (500)
	Magnesium	14800 (5000)	14800 (5000)	14100 (5000)	12800 (5000)	10700 (5000)	9610 (5000)	8900 (100)	10600 (20)
	Potassium	581 J (5000)	490 J (5000)	708 J (5000)	524 J (5000)	832 J (5000)	663 J (5000)	740 J (2000)	3000 (1000)
	Sodium	**150000 (5000)**	**131000 (5000)**	**110000 (5000)**	**96700 (5000)**	**70500 (5000)**	**44000 (5000)**	**56600 (3000)**	**63100 (1500)**
INORG (Dissolved)									
	Iron	U (150)	U (150)	U (150)	U (150)	U (150)	U (150)	400 (100)	240 J+ (100)
GEOCHEMICAL									
	HYDROGEN (H2) [nM]	18 n (1)	2.4 n (1)	8.6 (1.9)	0.95 J (0.49)	34 J (0.49)	1.1 J (1.9)	9.5 (1.9)	---
Field Parameters									
	Dissolved Oxygen, Field	0	0	350	3020	1550	2320	5340	0
	Oxidation Reduction Potential (Field Measured) [mV]	0	36	-119	-12	-42	71	-99	-32
	pH (Field Analysis) [su]	6.74	7.43	7.06	7.1	6.77	5.4	7.19	7.3

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW100I	MW101I	MW101I	MW101I	MW101I	MW101I	MW101I	MW101I
	Field Sample ID	MW-100I/250812	MW-101I-180731	MW101I-190731	MW101I-200811	MW-101I-210817	MW-101I-220823	MW-101I/230807	MW-101I/240820
	Lab Sample ID	620-28538-4	460-161718-3	460-188165-6	460-215716-3	460-241081-5	460-264343-2	620-13201-3	620-20451-6
	Sample Method	Bladder Pump	Peristaltic Pump	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	8/12/2025	7/31/2018	7/31/2019	8/11/2020	8/17/2021	8/23/2022	8/7/2023	8/20/2024
	Comments								
WQ									
	Alkalinity	---	---	---	---	---	---	---	---
	Total Alkalinity as CaCO3	238000 (8000)	---	---	---	---	---	---	---
	Bicarbonate Alkalinity	---	---	---	---	---	---	---	---
	Bicarbonate as CaCO3	---	---	---	---	---	---	---	---
	Carbonate Alkalinity	---	---	---	---	---	---	---	---
	Chloride	---	---	---	---	---	---	---	---
	Nitrate	---	---	---	---	---	---	---	---
	Sulfate	---	---	---	---	---	---	---	---
VOC									
	Acetone	U (10)	U (5)	U (5)	U (5)	U (5)	U (5)	U (10)	UJ (10)
	Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Bromodichloromethane	2.9 J+ (0.5)	U (1)	U (1)	U (1)	U (1)	U (1)	U (0.5)	U (0.5)
	Bromoform	U (1)	U (1)	U (1)	U (1)	UJ (1)	U (1)	U (1)	U (1)
	2-Butanone	U (2)	U (5)	U (5)	U (5)	U (5)	U (5)	U (2)	UJ (2)
	Chloroethane	U (2)	U (1)	UJ (1)	U (1)	U (1)	U (1)	U (2)	UJ (2)
	Chloroform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Chloromethane	U (2)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	UJ (2)
	Cumene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Dibromochloromethane	U (0.5)	U (1)	U (1)	U (1)	U (1)	U (1)	U (0.5)	U (0.5)
	1,1-Dichloroethane	**6.7 (1)**	U (1)	U (1)	U (1)	U (1)	0.64 J (1)	U (1)	U (1)
	1,2-Dichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethene	4.6 (1)	U (1)	U (1)	U (1)	U (1)	1.2 (1)	0.61 J (1)	U (1)
	cis-1,2-Dichloroethene	**290 (10)**	3.1 (1)	1.9 (1)	0.56 J (1)	1.9 (1)	**38 (1)**	**20 (1)**	**6.3 (1)**
	trans-1,2-Dichloroethene	**6.5 (1)**	0.64 J (1)	0.34 J (1)	U (1)	0.24 J (1)	1.8 (1)	0.66 J (1)	0.42 J (1)
	1,4-Dioxane	---	U (50)	U (50)	---	U (50)	U (50)	---	---
	Ethanol	U (200)	---	---	---	---	---	U (200)	UJ (200)
	Ethyl Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone	U (2)	U (5)	U (5)	U (5)	U (5)	U (5)	U (2)	U (2)
	Methylene Chloride	U (2)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (2)
	Tetrachloroethene	1.9 (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Toluene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,1-Trichloroethane	2.5 (1)	U (1)	U (1)	U (1)	U (1)	0.42 J (1)	U (1)	U (1)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Trichloroethene	**270 (10)**	**110 (1)**	**59 (1)**	**22 (1)**	**32 (1)**	**190 (1)**	**70 (1)**	**47 (1)**
	Trichlorofluoromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	UJ (1)
	Vinyl Chloride	**91 (10)**	U (1)	U (1)	U (1)	U (1)	**7.3 (1)**	**2.6 (1)**	1.8 (1)
	m,p-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	ortho-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Xylenes (total)	U (10)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
TOC									
	Inorganic Carbon (total)	37700 (2000)	---	---	---	---	---	---	---
	Organic Carbon (total)	5600 (1000)	---	---	---	---	---	---	---
SVOC									
	1,4-Dioxane	2.3 (0.2)	---	---	U (0.2)	---	---	---	---

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW100I	MW101I	MW101I	MW101I	MW101I	MW101I	MW101I	MW101I
	Field Sample ID	MW-100I/250812	MW-101I-180731	MW101I-190731	MW101I-200811	MW-101I-210817	MW-101I-220823	MW-101I/230807	MW-101I/240820
	Lab Sample ID	620-28538-4	460-161718-3	460-188165-6	460-215716-3	460-241081-5	460-264343-2	620-13201-3	620-20451-6
	Sample Method	Bladder Pump	Peristaltic Pump	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	8/12/2025	7/31/2018	7/31/2019	8/11/2020	8/17/2021	8/23/2022	8/7/2023	8/20/2024
	Comments								
PFAS [ng/L]									
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	---	---	---	---
	Perfluorobutanoic acid (PFBA)	---	---	---	---	---	---	---	---
	Perfluoropentanoic acid (PFPeA)	---	---	---	---	---	---	---	---
	Perfluorohexanoic acid (PFHxA)	---	---	---	---	---	---	---	---
	Perfluoroheptanoic acid (PFHpA)	---	---	---	---	---	---	---	---
	Perfluorooctanoic acid (PFOA)	---	---	---	---	---	---	---	---
	Perfluorononanoic acid (PFNA)	---	---	---	---	---	---	---	---
	Perfluorodecanoic acid (PFDA)	---	---	---	---	---	---	---	---
	Perfluoroundecanoic acid (PFUnA)	---	---	---	---	---	---	---	---
	Perfluorododecanoic acid (PFDoA)	---	---	---	---	---	---	---	---
	Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	---	---	---	---
	Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	---	---	---	---
	Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	---	---	---	---
	Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	---	---	---	---
MNA									
	Chloride	6100 (1500)	---	---	---	---	---	---	---
	Nitrate	U (110)	---	---	---	---	---	---	---
	Sulfate	14200 (1500)	---	---	---	---	---	---	---
INORG (Total)									
	Calcium	46000 (500)	---	---	---	---	---	---	---
	Magnesium	6900 (40)	---	---	---	---	---	---	---
	Potassium	720 J (1000)	---	---	---	---	---	---	---
	Sodium	**41000 (1500)**	---	---	---	---	---	---	---
INORG (Dissolved)									
	Iron	U (100)	---	---	---	---	---	---	---
GEOCHEMICAL									
	HYDROGEN (H2) [nM]	---	---	---	---	---	---	---	---
Field Parameters									
	Dissolved Oxygen, Field	380	---	---	---	3290	670	940	1940
	Oxidation Reduction Potential (Field Measured) [mV]	40	---	---	---	225	154	150	95
	pH (Field Analysis) [su]	7.24	---	---	---	5.63	6.47	6.19	6.62

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW101I	MW102B	MW102B	MW102B	MW102B	MW102B	MW102B	MW102B
	Field Sample ID	MW-101I/250812	MW-102B-180731	MW-102B-181114	MW-102B-190225	MW102B-190506	MW102B-190729	MW102B-200225	MW102B-200811
	Lab Sample ID	620-28538-3	276320001 / 460-161718-1	460-169286-7 / MW-102B-181114	295750001 / 460-176031-1	302580005 / 460-181383-8	310540004 / 460-187853-4	330740006 / 460-203694-7	22008146603 / 460-215822-1
	Sample Method	Bladder Pump	Peristaltic Pump	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	Bladder Pump
	Sample Date	8/12/2025	7/31/2018	11/14/2018	2/25/2019	5/6/2019	7/29/2019	2/25/2020	8/11/2020
	Comments								
WQ									
	Alkalinity	---	147000 (5000)	143000 (5000)	102000 (5000)	101000 (5000)	133000 (5000)	147000 (5000)	97000 J (5000)
	Total Alkalinity as CaCO3	---	---	---	---	---	---	---	---
	Bicarbonate Alkalinity	---	92500 (5000)	96900 (5000)	59600 (5000)	58200 (5000)	82800 (5000)	95200 (5000)	53700 J (5000)
	Bicarbonate as CaCO3	---	---	---	---	---	---	95200 (5000)	---
	Carbonate Alkalinity	---	54100 (5000)	46200 (5000)	42600 (5000)	42300 (5000)	50400 (5000)	52000 (5000)	43300 (5000)
	Chloride	---	36900 (1680)	64000 J (2400)	75600 (2400)	65300 (2400)	58100 (2280)	35100 (1200)	18800 (320)
	Nitrate	---	U (100)	U (100)	33 J (100)	62 J (100)	U (100)	U (100)	80 J (160)
	Sulfate	---	1990 (600)	29200 J (12000)	36600 (12000)	49400 (12000)	8210 (600)	24600 (6000)	U (480)
VOC									
	Acetone	U (10)	U (5)	UJ (5)	U (5)	U (5)	U (5)	U (5)	U (5)
	Benzene	U (1)	0.73 J (1)	0.65 J (1)	0.49 J (1)	0.59 J (1)	0.8 J (1)	0.51 J (1)	0.81 J (1)
	Bromodichloromethane	U (0.5)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Bromoform	U (1)	UJ (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	2-Butanone	U (2)	U (5)	U (5)	U (5)	U (5)	U (5)	4.5 J (5)	U (5)
	Chloroethane	U (2)	U (1)	U (1)	U (1)	U (1)	2.6 J- (1)	0.95 J (1)	1.4 (1)
	Chloroform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Chloromethane	U (2)	U (1)	UJ (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Cumene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Dibromochloromethane	U (0.5)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethane	U (1)	3.6 (1)	2.8 (1)	1.6 (1)	**5.1 (1)**	2.9 (1)	2.5 (1)	1.2 (1)
	1,2-Dichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethene	0.86 J (1)	0.48 J (1)	0.63 J (1)	0.38 J (1)	U (1)	0.69 J (1)	0.58 J (1)	0.51 J (1)
	cis-1,2-Dichloroethene	**22 (1)**	**290 (1)**	**220 (1)**	**15 (1)**	**8.2 (1)**	**86 (1)**	**48 (1)**	**67 (1)**
	trans-1,2-Dichloroethene	1.5 (1)	U (1)	0.26 J (1)	U (1)	U (1)	0.25 J (1)	U (1)	U (1)
	1,4-Dioxane	---	U (50)	UJ (50)	U (50)	U (50)	U (50)	---	---
	Ethanol	U (200)	---	---	---	---	---	---	---
	Ethyl Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone	U (2)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
	Methylene Chloride	U (2)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Tetrachloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Toluene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,1-Trichloroethane	0.87 J (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Trichloroethene	**140 (10)**	1.4 (1)	0.36 J (1)	U (1)	U (1)	1 (1)	1.1 (1)	0.53 J (1)
	Trichlorofluoromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Vinyl Chloride	**4.1 (1)**	**5.3 (1)**	**4.2 (1)**	1.8 (1)	1.5 (1)	**7.7 (1)**	**4.7 (1)**	**5.8 (1)**
	m,p-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	ortho-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Xylenes (total)	U (10)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
TOC									
	Inorganic Carbon (total)	---	---	---	---	---	---	---	---
	Organic Carbon (total)	---	---	---	---	---	---	---	---
SVOC									
	1,4-Dioxane	---	---	---	---	---	---	2.4 (0.2)	3.4 (0.2)

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW101I	MW102B	MW102B	MW102B	MW102B	MW102B	MW102B	MW102B
	Field Sample ID	MW-101I/250812	MW-102B-180731	MW-102B-181114	MW-102B-190225	MW102B-190506	MW102B-190729	MW102B-200225	MW102B-200811
	Lab Sample ID	620-28538-3	276320001 / 460-161718-1	460-169286-7 / MW-102B-181114	295750001 / 460-176031-1	302580005 / 460-181383-8	310540004 / 460-187853-4	330740006 / 460-203694-7	22008146603 / 460-215822-1
	Sample Method	Bladder Pump	Peristaltic Pump	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	Bladder Pump
	Sample Date	8/12/2025	7/31/2018	11/14/2018	2/25/2019	5/6/2019	7/29/2019	2/25/2020	8/11/2020
	Comments								
PFAS [ng/L]									
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		---	---	---	---	---	---	---	---
Perfluorobutanoic acid (PFBA)		---	---	---	---	---	---	---	---
Perfluoropentanoic acid (PFPeA)		---	---	---	---	---	---	---	---
Perfluorohexanoic acid (PFHxA)		---	---	---	---	---	---	---	---
Perfluoroheptanoic acid (PFHpA)		---	---	---	---	---	---	---	---
Perfluorooctanoic acid (PFOA)		---	---	---	---	---	---	---	---
Perfluorononanoic acid (PFNA)		---	---	---	---	---	---	---	---
Perfluorodecanoic acid (PFDA)		---	---	---	---	---	---	---	---
Perfluoroundecanoic acid (PFUnA)		---	---	---	---	---	---	---	---
Perfluorododecanoic acid (PFDoA)		---	---	---	---	---	---	---	---
Perfluorobutanesulfonic acid (PFBS)		---	---	---	---	---	---	---	---
Perfluorohexanesulfonic acid (PFHxS)		---	---	---	---	---	---	---	---
Perfluoroheptanesulfonic acid (PFHpS)		---	---	---	---	---	---	---	---
Perfluorooctanesulfonic acid (PFOS)		---	---	---	---	---	---	---	---
MNA									
Chloride		---	---	---	---	---	---	---	---
Nitrate		---	---	---	---	---	---	---	---
Sulfate		---	---	---	---	---	---	---	---
INORG (Total)									
Calcium		---	5840 (5000)	6220 (5000)	8000 (5000)	10800 (5000)	3310 J (5000)	6350 (5000)	2640 J (5000)
Magnesium		---	8330 (5000)	18400 (5000)	13600 (5000)	13100 (5000)	7830 (5000)	15800 (5000)	2720 J (5000)
Potassium		---	1390 J (5000)	1350 J (5000)	2390 J (5000)	2430 J (5000)	1370 J (5000)	1980 J (5000)	1190 J (5000)
Sodium		---	**63600 (5000)**	**79700 (5000)**	**76600 (5000)**	**65900 (5000)**	**83700 (5000)**	**71800 (5000)**	**48600 (5000)**
INORG (Dissolved)									
Iron		---	U (150)	U (150)	U (150)	U (150)	U (150)	U (150)	U (150)
GEOCHEMICAL									
HYDROGEN (H2) [nM]		---	3700 n (120)	250 Jn (20)	130 n (10)	3.7 n (1)	22 n (1)	3 n (1)	1.9 (1.9)
Field Parameters									
Dissolved Oxygen, Field		1030	0	0	0	0	0	0	520
Oxidation Reduction Potential (Field Measured) [mV]		274	-183	-98	-66	-81	6	-72	-30
pH (Field Analysis) [su]		6.69	9.43	9.06	10.23	9.72	9.93	9.72	9.07

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW102B	MW102B	MW102B	MW102B	MW102B	MW102B	MW102ER	MW102ER
	Field Sample ID	MW102B-210209	MW-102B-210818	MW-102B-220824	MW-102B/230808	MW-102B/240821	MW-102B/250813	MW-102ER-180802	MW-102ER-181114
	Lab Sample ID	22103087103 / 460-228039-4	22108214205 / 460-241154-5	22208259003 / 460-264416-3	20285724002 / 620-13200-3	620-20477-7	620-28577-5	276650001 / 460-161923-1	460-169286-8 / MW-102ER-181114
	Sample Method	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Peristaltic Pump	BLADDER PUMP
	Sample Date	2/9/2021	8/18/2021	8/24/2022	8/8/2023	8/21/2024	8/13/2025	8/2/2018	11/14/2018
	Comments								
WQ									
	Alkalinity	191000 (5000)	173000 (5000)	185000 (5000)	---	---	---	64900 (5000)	99200 (5000)
	Total Alkalinity as CaCO3	---	---	---	129000 (5000)	131000 (5000)	184000 (8000)	---	---
	Bicarbonate Alkalinity	128000 (5000)	117000 (5000)	150000 (5000)	---	---	---	63700 (5000)	93500 (5000)
	Bicarbonate as CaCO3	---	---	---	---	---	---	---	---
	Carbonate Alkalinity	63400 (5000)	55800 (5000)	34300 (5000)	---	---	---	U (5000)	5700 (5000)
	Chloride	34400 (320)	20200 (320)	37300 (320)	---	---	---	94800 (3000)	81800 (3360)
	Nitrate	UJ (160)	U (160)	U (160)	---	---	---	UJ (100)	U (100)
	Sulfate	14500 (480)	1130 (480)	UJ (480)	---	---	---	U (600)	7460 (600)
VOC									
	Acetone	U (5)	U (5)	U (5)	U (10)	U (10)	U (10)	16 (10)	U (5)
	Benzene	0.76 J (1)	**1.1 (1)**	0.42 J (1)	**2 (1)**	**1.2 (1)**	0.85 J (1)	U (2)	0.49 J (1)
	Bromodichloromethane	U (1)	U (1)	U (1)	U (0.5)	U (0.5)	U (0.5)	U (2)	U (1)
	Bromoform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)
	2-Butanone	U (5)	U (5)	U (5)	1.8 J (2)	2.3 (2)	U (2)	U (10)	U (5)
	Chloroethane	1.9 (1)	0.73 J (1)	0.88 J (1)	0.42 J (2)	0.88 J (2)	4.6 (2)	U (2)	U (1)
	Chloroform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)
	Chloromethane	U (1)	U (1)	U (1)	U (2)	U (2)	U (2)	U (2)	UJ (1)
	Cumene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)
	Dibromochloromethane	U (1)	U (1)	U (1)	U (0.5)	U (0.5)	U (0.5)	U (2)	U (1)
	1,1-Dichloroethane	2.9 (1)	1 (1)	1.5 (1)	0.56 J (1)	0.98 J (1)	2.1 (1)	1.8 J (2)	1.5 (1)
	1,2-Dichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)
	1,1-Dichloroethene	1.1 (1)	0.37 J (1)	0.5 J (1)	0.36 J (1)	0.73 J (1)	0.71 J (1)	U (2)	0.74 J (1)
	cis-1,2-Dichloroethene	**160 (1)**	**72 (1)**	**210 (1)**	**66 (1)**	**120 (10)**	**150 (10)**	**530 (2)**	**220 (1)**
	trans-1,2-Dichloroethene	0.28 J (1)	U (1)	0.45 J (1)	0.2 J (1)	0.67 J (1)	1.8 (1)	U (2)	0.32 J (1)
	1,4-Dioxane	---	---	---	---	---	---	U (100)	UJ (50)
	Ethanol	---	---	---	U (200)	U (200)	U (200)	---	---
	Ethyl Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)
	4-Methyl-2-pentanone	U (5)	U (5)	U (5)	U (2)	U (2)	U (2)	U (10)	U (5)
	Methylene Chloride	U (1)	U (1)	U (1)	U (2)	U (2)	U (2)	U (2)	U (1)
	Tetrachloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)
	Toluene	U (1)	U (1)	U (1)	1 (1)	0.67 J (1)	0.62 J (1)	U (2)	U (1)
	1,1,1-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)
	Trichloroethene	0.77 J (1)	0.53 J (1)	1.7 (1)	1.6 J+ (1)	4.5 (1)	3.7 (1)	1.6 J (2)	1.4 (1)
	Trichlorofluoromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)
	Vinyl Chloride	**13 (1)**	**3.6 (1)**	**16 (1)**	**5.5 (1)**	**14 (1)**	**25 (1)**	**5.2 (2)**	**8.9 (1)**
	m,p-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)
	ortho-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)
	Xylenes (total)	U (1)	U (1)	U (1)	U (1)	U (10)	U (10)	U (2)	U (1)
TOC									
	Inorganic Carbon (total)	---	---	---	---	---	---	---	---
	Organic Carbon (total)	---	---	---	---	---	---	---	---
SVOC									
	1,4-Dioxane	10 (0.2)	4.2 (0.2)	16 (0.2)	8 B (0.19)	32 (1.9)	53 (2)	---	---

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

Location	MW102B	MW102B	MW102B	MW102B	MW102B	MW102B	MW102ER	MW102ER
Field Sample ID	MW102B-210209	MW-102B-210818	MW-102B-220824	MW-102B/230808	MW-102B/240821	MW-102B/250813	MW-102ER-180802	MW-102ER-181114
Lab Sample ID	22103087103 / 460-228039-4	22108214205 / 460-241154-5	22208259003 / 460-264416-3	20285724002 / 620-13200-3	620-20477-7	620-28577-5	276650001 / 460-161923-1	460-169286-8 / MW-102ER-181114
Sample Method	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Peristaltic Pump	BLADDER PUMP
Sample Date	2/9/2021	8/18/2021	8/24/2022	8/8/2023	8/21/2024	8/13/2025	8/2/2018	11/14/2018
Comments								
PFAS [ng/L]								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	---	---	---	---
Perfluorobutanoic acid (PFBA)	---	---	---	---	---	---	---	---
Perfluoropentanoic acid (PFPeA)	---	---	---	---	---	---	---	---
Perfluorohexanoic acid (PFHxA)	---	---	---	---	---	---	---	---
Perfluoroheptanoic acid (PFHpA)	---	---	---	---	---	---	---	---
Perfluorooctanoic acid (PFOA)	---	---	---	---	---	---	---	---
Perfluorononanoic acid (PFNA)	---	---	---	---	---	---	---	---
Perfluorodecanoic acid (PFDA)	---	---	---	---	---	---	---	---
Perfluoroundecanoic acid (PFUnA)	---	---	---	---	---	---	---	---
Perfluorododecanoic acid (PFDoA)	---	---	---	---	---	---	---	---
Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	---	---	---	---
Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	---	---	---	---
Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	---	---	---	---
Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	---	---	---	---
MNA								
Chloride	---	---	---	13300 (320)	14500 (320)	18400 (7500)	---	---
Nitrate	---	---	---	U (160)	U (160)	U (110)	---	---
Sulfate	---	---	---	190 J (480)	270 J (480)	UJ (1500)	---	---
INORG (Total)								
Calcium	3470 J (5000)	3420 J (5000)	4990 J (5000)	2600 (1000)	5100 B (500)	7000 (500)	25800 (5000)	14600 (5000)
Magnesium	16000 (5000)	9620 (5000)	14900 (5000)	7400 (100)	10900 (20)	10500 (40)	10600 (5000)	12400 (5000)
Potassium	1330 J (5000)	1600 J (5000)	1280 J (5000)	1800 J (2000)	2000 (1000)	1100 (1000)	2210 J (5000)	1970 J (5000)
Sodium	**84100 (5000)**	**65900 (5000)**	**74200 (5000)**	**47800 (3000)**	**43600 (1500)**	**57100 (1500)**	**55000 (5000)**	**57400 (5000)**
INORG (Dissolved)								
Iron	U (150)	U (150)	U (150)	U (100)	150 J+ (100)	U (100)	U (150)	U (150)
GEOCHEMICAL								
HYDROGEN (H2) [nM]	0.74 J (0.49)	6.9 J (0.49)	1.2 J (1.9)	29.4 (1.9)	---	---	540 n (100)	1800 Jn (100)
Field Parameters								
Dissolved Oxygen, Field	2490	310	7990	4720	0	690	360	260
Oxidation Reduction Potential (Field Measured) [mV]	-161	-65	-60	-103	-63	-215	30	-90
pH (Field Analysis) [su]	9.53	8.53	8.87	9.01	9.84	9.18	8.9	8.7

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW102ER	MW102ER	MW102ER	MW102ER	MW102ER	MW102ER	MW102ER	MW102ER
	Field Sample ID	MW-102ER-190225	MW102ER-190507	MW102ER-190730	MW102ER-200225	DUP-200225	MW102ER-200812	MW102ER-210210	MW-102ER-210819
	Lab Sample ID	295750002 / 460-176031-2	302580001 / 460-181383-1	310540005 / 460-187853-9	330740005 / 460-203694-6	330740007 / 460-203694-8	22008146606 / 460-215822-7	22103087105 / 460-228039-7	22108214401 / 460-241230-1
	Sample Method	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	2/25/2019	5/7/2019	7/30/2019	2/25/2020	2/25/2020	8/12/2020	2/10/2021	8/19/2021
	Comments					Field Duplicate			
WQ									
	Alkalinity	93600 (5000)	55700 (5000)	65400 (5000)	62900 (5000)	62900 (5000)	67200 (5000)	58700 (5000)	76600 (5000)
	Total Alkalinity as CaCO3	---	---	---	---	---	---	---	---
	Bicarbonate Alkalinity	70800 (5000)	17500 (5000)	48800 (5000)	35200 (5000)	34500 (5000)	49600 (5000)	28900 (5000)	61500 (5000)
	Bicarbonate as CaCO3	---	---	---	35200 (5000)	34500 (5000)	---	---	---
	Carbonate Alkalinity	22700 (5000)	38200 (5000)	16600 (5000)	27700 (5000)	28400 (5000)	17600 (5000)	29800 (5000)	15100 (5000)
	Chloride	53000 (2400)	39100 (2400)	77400 (3240)	19200 (1200)	18900 (1200)	26400 (320)	26000 (320)	5610 (320)
	Nitrate	32 J (100)	58 J (100)	U (100)	U (100)	U (100)	78 J (160)	U (160)	U (160)
	Sulfate	9080 (600)	9530 (600)	710 (600)	560 J (600)	560 J (600)	U (480)	1030 (480)	180 J (480)
VOC									
	Acetone	7 (5)	U (5)	U (5)	U (5)	U (5)	18 (5)	U (5)	U (5)
	Benzene	0.48 J (1)	0.68 J (1)	0.8 J (1)	U (1)	U (1)	**1.2 (1)**	**1.1 (1)**	**1.9 (1)**
	Bromodichloromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Bromoform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	2-Butanone	U (5)	U (5)	U (5)	U (5)	7.1 (5)	8.9 (5)	U (5)	U (5)
	Chloroethane	U (1)	U (1)	UJ (1)	U (1)	U (1)	0.34 J (1)	U (1)	U (1)
	Chloroform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Chloromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Cumene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Dibromochloromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethane	4 (1)	0.33 J (1)	0.65 J (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,2-Dichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethene	1.3 (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	cis-1,2-Dichloroethene	**240 (1)**	**34 (1)**	**60 (1)**	**37 (1)**	**38 (1)**	**57 (1)**	**34 (1)**	2.2 (1)
	trans-1,2-Dichloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,4-Dioxane	U (50)	U (50)	U (50)	---	---	---	---	---
	Ethanol	---	---	---	---	---	---	---	---
	Ethyl Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
	Methylene Chloride	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Tetrachloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Toluene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	0.58 J (1)
	1,1,1-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Trichloroethene	**7.2 (1)**	0.86 J (1)	0.88 J (1)	U (1)	U (1)	0.61 J (1)	U (1)	U (1)
	Trichlorofluoromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Vinyl Chloride	**7 (1)**	0.76 J (1)	**2.2 (1)**	U (1)	0.37 J (1)	1.5 (1)	1.5 (1)	U (1)
	m,p-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	ortho-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Xylenes (total)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
TOC									
	Inorganic Carbon (total)	---	---	---	---	---	---	---	---
	Organic Carbon (total)	---	---	---	---	---	---	---	---
SVOC									
	1,4-Dioxane	---	---	---	0.18 J (0.2)	0.15 J (0.2)	0.27 (0.2)	0.66 (0.2)	0.13 J (0.2)

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

Location	MW102ER	MW102ER	MW102ER	MW102ER	MW102ER	MW102ER	MW102ER	MW102ER
Field Sample ID	**MW-102ER-190225**	**MW102ER-190507**	**MW102ER-190730**	**MW102ER-200225**	**DUP-200225**	**MW102ER-200812**	**MW102ER-210210**	**MW-102ER-210819**
Lab Sample ID	**295750002 / 460-176031-2**	**302580001 / 460-181383-1**	**310540005 / 460-187853-9**	**330740005 / 460-203694-6**	**330740007 / 460-203694-8**	**22008146606 / 460-215822-7**	**22103087105 / 460-228039-7**	**22108214401 / 460-241230-1**
Sample Method	**BLADDER PUMP**	**BLADDER PUMP**	**BLADDER PUMP**	**BLADDER PUMP**	**BLADDER PUMP**	**Bladder Pump**	**Bladder Pump**	**Bladder Pump**
Sample Date	**2/25/2019**	**5/7/2019**	**7/30/2019**	**2/25/2020**	**2/25/2020**	**8/12/2020**	**2/10/2021**	**8/19/2021**
Comments					**Field Duplicate**			
PFAS [ng/L]								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	---	---	---	---
Perfluorobutanoic acid (PFBA)	---	---	---	---	---	---	---	---
Perfluoropentanoic acid (PFPeA)	---	---	---	---	---	---	---	---
Perfluorohexanoic acid (PFHxA)	---	---	---	---	---	---	---	---
Perfluoroheptanoic acid (PFHpA)	---	---	---	---	---	---	---	---
Perfluorooctanoic acid (PFOA)	---	---	---	---	---	---	---	---
Perfluorononanoic acid (PFNA)	---	---	---	---	---	---	---	---
Perfluorodecanoic acid (PFDA)	---	---	---	---	---	---	---	---
Perfluoroundecanoic acid (PFUnA)	---	---	---	---	---	---	---	---
Perfluorododecanoic acid (PFDoA)	---	---	---	---	---	---	---	---
Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	---	---	---	---
Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	---	---	---	---
Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	---	---	---	---
Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	---	---	---	---
MNA								
Chloride	---	---	---	---	---	---	---	---
Nitrate	---	---	---	---	---	---	---	---
Sulfate	---	---	---	---	---	---	---	---
INORG (Total)								
Calcium	12700 (5000)	5780 (5000)	11000 (5000)	3170 J (5000)	3240 J (5000)	4370 J (5000)	2860 J (5000)	2330 J (5000)
Magnesium	11600 (5000)	938 J (5000)	9890 (5000)	1480 J (5000)	1450 J (5000)	2370 J (5000)	1150 J (5000)	U (5000)
Potassium	2060 J (5000)	4890 J (5000)	1550 J (5000)	3950 J (5000)	4010 J (5000)	2480 J (5000)	2240 J (5000)	3090 J (5000)
Sodium	**46200 (5000)**	**43300 (5000)**	**47800 (5000)**	**39700 (5000)**	**40400 (5000)**	**40700 (5000)**	**38800 (5000)**	**34200 (5000)**
INORG (Dissolved)								
Iron	U (150)	U (150)	U (150)	U (150)	U (150)	U (150)	U (150)	U (150)
GEOCHEMICAL								
HYDROGEN (H2) [nM]	520 n (20)	880 n (50)	42 n (1)	2.5 n (1)	2 n (1)	16 (1.9)	1 J (0.49)	7.6 J (0.49)
Field Parameters								
Dissolved Oxygen, Field	0	0	40	7150	---	630	1930	410
Oxidation Reduction Potential (Field Measured) [mV]	-52	-126	89	34	---	-37	-93	-84
pH (Field Analysis) [su]	10.03	10.5	9.49	9.85	---	9.47	9.6	8.35

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW102ER	MW102ER	MW102ER	MW102ER	MW102IR	MW102IR	MW102IR	MW102IR
	Field Sample ID	MW-102ER-220823	MW-102ER/230808	MW-102ER/240821	MW-102ER/250812	MW-102IR-190221	MW102IR-190506	MW102IR-190730	MW102IR-200224
	Lab Sample ID	22208245702 / 460-264343-5	20285724001 / 620-13200-2	620-20477-1	620-28538-7	295620005 / 460-175850-7	302370003 / 460-181278-3	310730001 / 460-187853-8	330740004 / 460-203694-5
	Sample Method	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP
	Sample Date	8/23/2022	8/8/2023	8/21/2024	8/12/2025	2/21/2019	5/6/2019	7/30/2019	2/24/2020
	Comments								
WQ									
	Alkalinity	71800 (5000)	---	---	---	352000 (5000)	295000 (5000)	358000 (5000)	272000 (5000)
	Total Alkalinity as CaCO3	---	77500 (5000)	63100 (5000)	64900 (8000)	---	---	---	---
	Bicarbonate Alkalinity	71800 (5000)	---	---	---	352000 (5000)	295000 (5000)	358000 (5000)	272000 (5000)
	Bicarbonate as CaCO3	---	---	---	---	---	---	---	272000 (5000)
	Carbonate Alkalinity	U (5000)	---	---	---	U (5000)	U (5000)	U (5000)	U (5000)
	Chloride	16700 (320)	---	---	---	67800 J+ (3000)	58900 J+ (3000)	63800 (2640)	33500 (1200)
	Nitrate	U (160)	---	---	---	6470 J+ (500)	5150 J- (2500)	3500 (100)	3200 (100)
	Sulfate	290 J (480)	---	---	---	79400 J+ (15000)	70800 J+ (15000)	58300 (13200)	52600 (6000)
VOC									
	Acetone	13 (5)	U (10)	U (10)	U (10)	U (25)	U (10)	U (25)	U (10)
	Benzene	0.93 J (1)	**2.4 (1)**	**2.3 (1)**	**1.3 (1)**	U (5)	U (2)	U (5)	U (2)
	Bromodichloromethane	U (1)	U (0.5)	U (0.5)	U (0.5)	U (5)	U (2)	U (5)	U (2)
	Bromoform	U (1)	U (1)	U (1)	U (1)	UJ (5)	U (2)	U (5)	U (2)
	2-Butanone	U (5)	1.3 J (2)	2.4 (2)	U (2)	U (25)	U (10)	U (25)	U (10)
	Chloroethane	U (1)	U (2)	U (2)	U (2)	U (5)	U (2)	UJ (5)	U (2)
	Chloroform	U (1)	U (1)	U (1)	U (1)	U (5)	U (2)	U (5)	U (2)
	Chloromethane	U (1)	U (2)	U (2)	U (2)	U (5)	U (2)	U (5)	U (2)
	Cumene	U (1)	U (1)	U (1)	U (1)	U (5)	U (2)	U (5)	U (2)
	Dibromochloromethane	U (1)	U (0.5)	U (0.5)	U (0.5)	U (5)	U (2)	U (5)	U (2)
	1,1-Dichloroethane	U (1)	U (1)	U (1)	U (1)	**5.8 (5)**	3.8 (2)	5 (5)	2.3 (2)
	1,2-Dichloroethane	U (1)	U (1)	U (1)	U (1)	U (5)	U (2)	U (5)	U (2)
	1,1-Dichloroethene	U (1)	U (1)	U (1)	U (1)	**7.8 (5)**	**5.6 (2)**	**8.2 (5)**	4.3 (2)
	cis-1,2-Dichloroethene	1.4 (1)	1.1 (1)	2.5 (1)	**10 (1)**	**180 (5)**	**150 (2)**	**340 (5)**	**120 (2)**
	trans-1,2-Dichloroethene	UJ (1)	U (1)	U (1)	U (1)	**5.2 (5)**	3.3 (2)	**6.2 (5)**	3.4 (2)
	1,4-Dioxane	---	---	---	---	U (250)	U (100)	U (250)	---
	Ethanol	---	U (200)	U (200)	U (200)	---	---	---	---
	Ethyl Benzene	U (1)	U (1)	0.41 J (1)	U (1)	U (5)	U (2)	U (5)	U (2)
	4-Methyl-2-pentanone	U (5)	U (2)	U (2)	U (2)	U (25)	U (10)	U (25)	U (10)
	Methylene Chloride	U (1)	U (2)	U (2)	U (2)	U (5)	U (2)	U (5)	U (2)
	Tetrachloroethene	U (1)	U (1)	U (1)	U (1)	U (5)	U (2)	U (5)	U (2)
	Toluene	0.45 J (1)	0.99 J (1)	1.3 (1)	0.63 J (1)	U (5)	U (2)	U (5)	U (2)
	1,1,1-Trichloroethane	U (1)	U (1)	U (1)	U (1)	2.7 J (5)	2.5 (2)	3 J (5)	1.1 J (2)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (5)	U (2)	U (5)	U (2)
	Trichloroethene	U (1)	U (1)	U (1)	U (1)	**960 (5)**	**640 (2)**	**950 (5)**	**500 (2)**
	Trichlorofluoromethane	U (1)	U (1)	U (1)	U (1)	U (5)	U (2)	U (5)	U (2)
	Vinyl Chloride	U (1)	U (1)	UJ (1)	U (1)	**12 (5)**	**23 (2)**	**27 (5)**	**13 (2)**
	m,p-xylene	U (1)	U (1)	U (1)	U (1)	U (5)	U (2)	U (5)	U (2)
	ortho-xylene	U (1)	U (1)	U (1)	U (1)	U (5)	U (2)	U (5)	U (2)
	Xylenes (total)	U (1)	U (1)	U (1)	U (1)	U (5)	U (2)	U (5)	U (2)
TOC									
	Inorganic Carbon (total)	17500 (1000)	---	12600 (2000)	9600 (2000)	---	---	---	---
	Organic Carbon (total)	4500 (1000)	2000 (1000)	3800 (1000)	2300 (1000)	---	---	---	---
SVOC									
	1,4-Dioxane	0.33 (0.2)	0.77 B (0.2)	1.2 (0.22)	1.5 (0.22)	---	---	---	3 (0.2)

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

Location	MW102ER	MW102ER	MW102ER	MW102ER	MW102IR	MW102IR	MW102IR	MW102IR
Field Sample ID	MW-102ER-220823	MW-102ER/230808	MW-102ER/240821	MW-102ER/250812	MW-102IR-190221	MW102IR-190506	MW102IR-190730	MW102IR-200224
Lab Sample ID	22208245702 / 460-264343-5	20285724001 / 620-13200-2	620-20477-1	620-28538-7	295620005 / 460-175850-7	302370003 / 460-181278-3	310730001 / 460-187853-8	330740004 / 460-203694-5
Sample Method	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP
Sample Date	8/23/2022	8/8/2023	8/21/2024	8/12/2025	2/21/2019	5/6/2019	7/30/2019	2/24/2020
Comments								
PFAS [ng/L]								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	---	---	---	---
Perfluorobutanoic acid (PFBA)	---	---	---	---	---	---	---	---
Perfluoropentanoic acid (PFPeA)	---	---	---	---	---	---	---	---
Perfluorohexanoic acid (PFHxA)	---	---	---	---	---	---	---	---
Perfluoroheptanoic acid (PFHpA)	---	---	---	---	---	---	---	---
Perfluorooctanoic acid (PFOA)	---	---	---	---	---	---	---	---
Perfluorononanoic acid (PFNA)	---	---	---	---	---	---	---	---
Perfluorodecanoic acid (PFDA)	---	---	---	---	---	---	---	---
Perfluoroundecanoic acid (PFUnA)	---	---	---	---	---	---	---	---
Perfluorododecanoic acid (PFDoA)	---	---	---	---	---	---	---	---
Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	---	---	---	---
Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	---	---	---	---
Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	---	---	---	---
Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	---	---	---	---
MNA								
Chloride	---	4130 (320)	2980 (320)	2960 (1500)	---	---	---	---
Nitrate	---	U (160)	U (160)	U (110)	---	---	---	---
Sulfate	---	1000 (480)	350 J (480)	U (1500)	---	---	---	---
INORG (Total)								
Calcium	6530 (5000)	4300 (1000)	5400 B (500)	5600 (500)	98700 (5000)	88600 (5000)	98200 (5000)	73400 (5000)
Magnesium	2250 J (5000)	1500 (100)	2800 (20)	5400 (40)	23000 (5000)	18600 (5000)	22000 (5000)	15600 (5000)
Potassium	2160 J (5000)	3700 (2000)	2200 (1000)	1200 (1000)	1320 J (5000)	1370 J (5000)	1690 J (5000)	1250 J (5000)
Sodium	**26500 (5000)**	**29100 (3000)**	**20200 (1500)**	12100 (1500)	**99300 (5000)**	**89800 (5000)**	**110000 (5000)**	**76200 (5000)**
INORG (Dissolved)								
Iron	U (150)	U (100)	210 J+ (100)	U (100)	U (150)	U (150)	U (150)	U (150)
GEOCHEMICAL								
HYDROGEN (H2) [nM]	1.3 J (1.9)	9.4 (1.9)	---	---	3.5 n (1)	1.7 n (1)	2.8 n (1)	2.3 n (1)
Field Parameters								
Dissolved Oxygen, Field	3320	670	0	0	0	0	0	0
Oxidation Reduction Potential (Field Measured) [mV]	-130	-116	-118	-263	123	70	149	139
pH (Field Analysis) [su]	9.18	7.61	8.89	8.72	7.13	6.77	6.63	6.72

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW102IR	MW102IR	MW102IR	MW102IR	MW102IR	MW102IR	MW102IR	MW103B
	Field Sample ID	MW102IR-200813	MW102IR-210210	MW-102IR-210819	MW-102IR-220824	MW-102IR/230809	MW-102IR/240821	MW-102IR/250813	MW-103B-180731
	Lab Sample ID	22008203202 / 460-215912-4	22103087106 / 460-228039-8	22108214402 / 460-241230-2	22208259004 / 460-264416-4	20285723001 / 620-13227-1	620-20477-8	620-28577-6	276320002 / 460-161718-2
	Sample Method	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Peristaltic Pump
	Sample Date	8/13/2020	2/10/2021	8/19/2021	8/24/2022	8/9/2023	8/21/2024	8/13/2025	7/31/2018
	Comments								
WQ									
	Alkalinity	284000 (5000)	308000 (5000)	258000 (5000)	290000 (5000)	---	---	---	92900 (5000)
	Total Alkalinity as CaCO3	---	---	---	---	242000 (5000)	202000 (5000)	262000 (8000)	---
	Bicarbonate Alkalinity	284000 (5000)	308000 (5000)	258000 (5000)	290000 (5000)	---	---	---	47200 (5000)
	Bicarbonate as CaCO3	---	---	---	---	---	---	---	---
	Carbonate Alkalinity	U (5000)	U (5000)	U (5000)	U (5000)	---	---	---	45700 (5000)
	Chloride	35600 (320)	30900 (320)	17500 (320)	29700 (320)	---	---	---	40200 (1800)
	Nitrate	1330 (160)	2030 (160)	1460 (160)	910 (160)	---	---	---	U (100)
	Sulfate	54900 (480)	46500 (480)	36700 (480)	31400 (480)	---	---	---	3840 (600)
VOC									
	Acetone	U (10)	U (10)	U (5)	U (5)	U (10)	U (10)	U (10)	U (5)
	Benzene	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)	U (1)	0.62 J (1)
	Bromodichloromethane	U (2)	U (2)	U (1)	U (1)	U (0.5)	U (0.5)	UJ (0.5)	U (1)
	Bromoform	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	2-Butanone	U (10)	U (10)	U (5)	U (5)	U (2)	U (2)	U (2)	6.4 (5)
	Chloroethane	1.1 J (2)	U (2)	0.49 J (1)	0.43 J (1)	U (2)	U (2)	U (2)	**5.7 (1)**
	Chloroform	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Chloromethane	U (2)	U (2)	U (1)	U (1)	U (2)	U (2)	U (2)	U (1)
	Cumene	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Dibromochloromethane	U (2)	U (2)	U (1)	U (1)	U (0.5)	U (0.5)	U (0.5)	U (1)
	1,1-Dichloroethane	1.6 J (2)	2.7 (2)	1 (1)	0.98 J (1)	0.68 J (1)	0.38 J (1)	0.7 J (1)	**45 (1)**
	1,2-Dichloroethane	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)	UJ (1)	U (1)
	1,1-Dichloroethene	2.5 (2)	4.5 (2)	1.9 (1)	1.8 (1)	1.7 (1)	0.77 J (1)	2.1 (1)	U (1)
	cis-1,2-Dichloroethene	**140 (2)**	**170 (2)**	**100 (1)**	**110 (1)**	**110 (10)**	**71 (1)**	**120 (10)**	**32 (1)**
	trans-1,2-Dichloroethene	2.1 (2)	4.3 (2)	1.6 (1)	2.3 (1)	1.9 (1)	1 (1)	1.9 (1)	U (1)
	1,4-Dioxane	---	---	---	---	---	---	---	36 J (50)
	Ethanol	---	---	---	---	U (200)	U (200)	U (200)	---
	Ethyl Benzene	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone	U (10)	U (10)	U (5)	U (5)	U (2)	U (2)	U (2)	U (5)
	Methylene Chloride	U (2)	U (2)	U (1)	U (1)	U (2)	U (2)	U (2)	U (1)
	Tetrachloroethene	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)	0.45 J (1)	U (1)
	Toluene	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,1-Trichloroethane	0.96 J (2)	1 J (2)	0.66 J (1)	0.98 J (1)	1.3 (1)	0.87 J (1)	2.7 (1)	U (1)
	1,1,2-Trichloroethane	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Trichloroethene	**390 (2)**	**660 (2)**	**230 (1)**	**270 (1)**	**200 (10)**	**110 (10)**	**260 (10)**	0.57 J (1)
	Trichlorofluoromethane	UJ (2)	U (2)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Vinyl Chloride	**16 (2)**	**19 (2)**	**5.9 (1)**	**12 (1)**	**13 J- (1)**	**7.5 (1)**	**17 (1)**	**3.1 (1)**
	m,p-xylene	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	ortho-xylene	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Xylenes (total)	U (2)	U (2)	U (1)	U (1)	U (10)	U (10)	U (10)	U (1)
TOC									
	Inorganic Carbon (total)	---	---	---	79200 (5000)	---	48100 (2000)	38100 (2000)	---
	Organic Carbon (total)	---	---	---	4100 (1000)	2900 (1000)	5700 (1000)	2900 (1000)	---
SVOC									
	1,4-Dioxane	6.1 (0.2)	7 (0.2)	4.6 (0.2)	12 (0.2)	7.8 B (0.19)	4.8 (0.21)	15 (0.2)	---

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW102IR	MW102IR	MW102IR	MW102IR	MW102IR	MW102IR	MW102IR	MW103B
	Field Sample ID	MW102IR-200813	MW102IR-210210	MW-102IR-210819	MW-102IR-220824	MW-102IR/230809	MW-102IR/240821	MW-102IR/250813	MW-103B-180731
	Lab Sample ID	22008203202 / 460-215912-4	22103087106 / 460-228039-8	22108214402 / 460-241230-2	22208259004 / 460-264416-4	20285723001 / 620-13227-1	620-20477-8	620-28577-6	276320002 / 460-161718-2
	Sample Method	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Peristaltic Pump
	Sample Date	8/13/2020	2/10/2021	8/19/2021	8/24/2022	8/9/2023	8/21/2024	8/13/2025	7/31/2018
	Comments								
PFAS [ng/L]									
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	---	---	---	---
	Perfluorobutanoic acid (PFBA)	---	---	---	---	---	---	---	---
	Perfluoropentanoic acid (PFPeA)	---	---	---	---	---	---	---	---
	Perfluorohexanoic acid (PFHxA)	---	---	---	---	---	---	---	---
	Perfluoroheptanoic acid (PFHpA)	---	---	---	---	---	---	---	---
	Perfluorooctanoic acid (PFOA)	---	---	---	---	---	---	---	---
	Perfluorononanoic acid (PFNA)	---	---	---	---	---	---	---	---
	Perfluorodecanoic acid (PFDA)	---	---	---	---	---	---	---	---
	Perfluoroundecanoic acid (PFUnA)	---	---	---	---	---	---	---	---
	Perfluorododecanoic acid (PFDoA)	---	---	---	---	---	---	---	---
	Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	---	---	---	---
	Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	---	---	---	---
	Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	---	---	---	---
	Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	---	---	---	---
MNA									
	Chloride	---	---	---	---	11200 (320)	6200 (320)	9590 (1500)	---
	Nitrate	---	---	---	---	1100 (160)	780 (160)	2260 (110)	---
	Sulfate	---	---	---	---	23800 (480)	19200 (480)	25000 J- (1500)	---
INORG (Total)									
	Calcium	71400 (5000)	72100 (5000)	61800 (5000)	80600 (5000)	53500 (1000)	52900 B (500)	60500 (500)	7400 (5000)
	Magnesium	14400 (5000)	15700 (5000)	11500 (5000)	17900 (5000)	11200 (50)	9500 (20)	10800 (40)	2840 J (5000)
	Potassium	1610 J (5000)	1210 J (5000)	1490 J (5000)	2050 J (5000)	1200 (1000)	2000 (1000)	1300 (1000)	2040 J (5000)
	Sodium	**80700 (5000)**	**78300 (5000)**	**46900 (5000)**	**64400 (5000)**	**45100 (1500)**	**31800 (1500)**	**40800 (1500)**	**53900 (5000)**
INORG (Dissolved)									
	Iron	U (150)	U (150)	U (150)	U (150)	U (50)	U (100)	U (100)	U (150)
GEOCHEMICAL									
	HYDROGEN (H2) [nM]	21 (1.9)	0.9 J (0.49)	1.1 J (0.49)	1.4 J (1.9)	9 (1.9)	---	---	1600 n (120)
Field Parameters									
	Dissolved Oxygen, Field	500	2230	770	3230	940	2530	170	0
	Oxidation Reduction Potential (Field Measured) [mV]	76	113	199	85	135	127	159	-136
	pH (Field Analysis) [su]	6.43	6.2	5.51	6.89	6.41	6.83	6.82	9.9

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW103B	MW103B	MW103B	MW103B	MW103B	MW103B	MW103B	MW103B
	Field Sample ID	MW-103B-181114	MW-103B-190225	MW103B-190507	MW103B-190729	MW103B-200225	MW103B-200811	MW103B-210209	MW-103B-210817
	Lab Sample ID	460-169346-1 / MW-103B-181114 (460-169346-1)	295750005 / 460-176031-5	460-181383-4	310540003 / 460-187853-3	330740009 / 460-203694-11	22008146501 / 460-215716-4	22103087102 / 460-228039-3	22108194201 / 460-241081-4
	Sample Method	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	11/14/2018	2/25/2019	5/7/2019	7/29/2019	2/25/2020	8/11/2020	2/9/2021	8/17/2021
	Comments								
WQ									
	Alkalinity	46500 (5000)	55000 (5000)	42800 (5000)	100000 (5000)	59200 (5000)	139000 (5000)	129000 (5000)	125000 (5000)
	Total Alkalinity as CaCO3	---	---	---	---	---	---	---	---
	Bicarbonate Alkalinity	28300 (5000)	41700 (5000)	26300 (5000)	74000 (5000)	44100 (5000)	89100 (5000)	84400 (5000)	80000 (5000)
	Bicarbonate as CaCO3	---	---	---	---	44100 (5000)	---	---	---
	Carbonate Alkalinity	18200 (5000)	13300 (5000)	16500 (5000)	26400 (5000)	15100 (5000)	49900 (5000)	44600 (5000)	45300 (5000)
	Chloride	51000 J+ (2040)	37500 (2400)	35800 (2400)	48400 (1920)	17000 (1200)	19900 (320)	16100 (320)	12800 (320)
	Nitrate	U (100)	34 J (100)	78 J (100)	U (100)	U (100)	78 J (160)	UJ (160)	300 (160)
	Sulfate	U (600)	330 J (600)	3310 (600)	660 (600)	U (600)	1150 (480)	U (480)	270 J (480)
VOC									
	Acetone	14 (5)	5.6 (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
	Benzene	0.56 J (1)	U (1)	0.48 J (1)	0.52 J (1)	U (1)	0.61 J (1)	0.44 J (1)	**1.1 (1)**
	Bromodichloromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Bromoform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	UJ (1)
	2-Butanone	U (5)	U (5)	2.5 J (5)	U (5)	U (5)	U (5)	U (5)	U (5)
	Chloroethane	U (1)	U (1)	U (1)	0.85 J (1)	U (1)	1.6 (1)	1 (1)	2.9 (1)
	Chloroform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Chloromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Cumene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Dibromochloromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethane	0.78 J (1)	0.29 J (1)	U (1)	**9.3 (1)**	0.26 J (1)	**15 (1)**	**11 (1)**	**19 (1)**
	1,2-Dichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethene	UJ (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	cis-1,2-Dichloroethene	1 (1)	0.89 J (1)	0.4 J (1)	**19 (1)**	0.42 J (1)	**27 (1)**	4.7 (1)	**14 (1)**
	trans-1,2-Dichloroethene	UJ (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,4-Dioxane	U (50)	U (50)	U (50)	U (50)	---	---	---	---
	Ethanol	---	---	---	---	---	---	---	---
	Ethyl Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
	Methylene Chloride	UJ (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Tetrachloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Toluene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	0.53 J (1)
	1,1,1-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Trichloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Trichlorofluoromethane	UJ (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Vinyl Chloride	U (1)	U (1)	U (1)	0.83 J (1)	U (1)	1 (1)	0.53 J (1)	1.4 (1)
	m,p-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	ortho-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Xylenes (total)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
TOC									
	Inorganic Carbon (total)	---	---	---	---	---	---	---	---
	Organic Carbon (total)	---	---	---	---	---	---	---	---
SVOC									
	1,4-Dioxane	---	---	---	---	0.65 (0.2)	6.7 (0.2)	9.3 (0.2)	5.4 (0.2)

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

Location	MW103B	MW103B	MW103B	MW103B	MW103B	MW103B	MW103B	MW103B
Field Sample ID	MW-103B-181114	MW-103B-190225	MW103B-190507	MW103B-190729	MW103B-200225	MW103B-200811	MW103B-210209	MW-103B-210817
Lab Sample ID	460-169346-1 / MW-103B-181114 (460-169346-1)	295750005 / 460-176031-5	460-181383-4	310540003 / 460-187853-3	330740009 / 460-203694-11	22008146501 / 460-215716-4	22103087102 / 460-228039-3	22108194201 / 460-241081-4
Sample Method	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump
Sample Date	11/14/2018	2/25/2019	5/7/2019	7/29/2019	2/25/2020	8/11/2020	2/9/2021	8/17/2021
Comments								
PFAS [ng/L]								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	---	---	---	---
Perfluorobutanoic acid (PFBA)	---	---	---	---	---	---	---	---
Perfluoropentanoic acid (PFPeA)	---	---	---	---	---	---	---	---
Perfluorohexanoic acid (PFHxA)	---	---	---	---	---	---	---	---
Perfluoroheptanoic acid (PFHpA)	---	---	---	---	---	---	---	---
Perfluorooctanoic acid (PFOA)	---	---	---	---	---	---	---	---
Perfluorononanoic acid (PFNA)	---	---	---	---	---	---	---	---
Perfluorodecanoic acid (PFDA)	---	---	---	---	---	---	---	---
Perfluoroundecanoic acid (PFUnA)	---	---	---	---	---	---	---	---
Perfluorododecanoic acid (PFDoA)	---	---	---	---	---	---	---	---
Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	---	---	---	---
Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	---	---	---	---
Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	---	---	---	---
Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	---	---	---	---
MNA								
Chloride	---	---	---	---	---	---	---	---
Nitrate	---	---	---	---	---	---	---	---
Sulfate	---	---	---	---	---	---	---	---
INORG (Total)								
Calcium	8330 (5000)	9960 (5000)	9030 (5000)	7660 (5000)	5370 (5000)	3950 J (5000)	3640 J (5000)	3770 J (5000)
Magnesium	4370 J (5000)	7380 (5000)	4780 J (5000)	12400 (5000)	5250 (5000)	8230 (5000)	7720 (5000)	10100 (5000)
Potassium	3870 J (5000)	2880 J (5000)	3570 J (5000)	2980 J (5000)	3320 J (5000)	2330 J (5000)	2330 J (5000)	2730 J (5000)
Sodium	**36100 (5000)**	**25900 (5000)**	**23200 (5000)**	**47900 (5000)**	**27600 (5000)**	**53200 (5000)**	**53100 (5000)**	**47500 (5000)**
INORG (Dissolved)								
Iron	U (150)	U (150)	U (150)	U (150)	U (150)	U (150)	U (150)	U (150)
GEOCHEMICAL								
HYDROGEN (H2) [nM]	170 Jn (20)	34 n (1)	---	7.2 n (1)	5 n (1)	2.6 (1.9)	0.74 J (0.49)	3.2 (0.49)
Field Parameters								
Dissolved Oxygen, Field	2150	5250	340	1350	9290	1230	7070	350
Oxidation Reduction Potential (Field Measured) [mV]	-7	57	-33	96	89	-140	10	-72
pH (Field Analysis) [su]	9.48	10.25	9.77	9.52	9.44	9.66	9.52	8

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW103B	MW103B	MW103B	MW103B	MW103E	MW103ER	MW103ER	MW103ER
	Field Sample ID	MW-103B-220824	MW-103B/230808	MW-103B/240821	MW-103B/250812	MW-103E-180731	MW-103ER-190225	MW103ER-190507	MW103ER-190729
	Lab Sample ID	22208259001 / 460-264416-1	20285724008 / 620-13200-9	620-20477-2	620-28538-6	200-44580-5 / 460-161627-5	295750004 / 460-176031-4	302580003 / 460-181383-3	310540001 / 460-187853-1
	Sample Method	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Peristaltic Pump	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP
	Sample Date	8/24/2022	8/8/2023	8/21/2024	8/12/2025	7/31/2018	2/25/2019	5/7/2019	7/29/2019
	Comments								
WQ									
	Alkalinity	151000 (5000)	---	---	---	119000 (5000)	87500 (5000)	139000 (5000)	52800 (5000)
	Total Alkalinity as CaCO3	---	128000 (5000)	119000 (5000)	120000 (8000)	---	---	---	---
	Bicarbonate Alkalinity	6600 (5000)	---	---	---	119000 (5000)	84100 (5000)	139000 (5000)	52800 (5000)
	Bicarbonate as CaCO3	---	---	---	---	---	---	---	---
	Carbonate Alkalinity	145000 (5000)	---	---	---	U (5000)	U (5000)	U (5000)	U (5000)
	Chloride	14500 (320)	---	---	---	83200 (3720)	8720 (600)	9660 (600)	10600 (480)
	Nitrate	U (160)	---	---	---	U (100)	36 J (100)	180 (100)	U (100)
	Sulfate	UJ (480)	---	---	---	U (600)	610 (600)	11700 (600)	810 (600)
VOC									
	Acetone	U (5)	12 J+ (10)	10 J+ (10)	12 J+ (10)	**170 (5)**	U (5)	U (5)	U (5)
	Benzene	0.74 J (1)	0.81 J (1)	0.55 J (1)	0.57 J (1)	U (1)	U (1)	U (1)	U (1)
	Bromodichloromethane	U (1)	U (0.5)	U (0.5)	U (0.5)	U (1)	U (1)	U (1)	U (1)
	Bromoform	U (1)	U (1)	U (1)	U (1)	UJ (1)	U (1)	U (1)	U (1)
	2-Butanone	U (5)	0.74 J (2)	U (2)	U (2)	U (5)	U (5)	U (5)	U (5)
	Chloroethane	**6.3 (1)**	2.9 (2)	2.4 (2)	4.5 (2)	**5.9 (1)**	U (1)	U (1)	UJ (1)
	Chloroform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Chloromethane	U (1)	U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
	Cumene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Dibromochloromethane	U (1)	U (0.5)	U (0.5)	U (0.5)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethane	**58 (1)**	**24 (1)**	**31 (1)**	**80 (1)**	**14 (1)**	0.58 J (1)	U (1)	0.66 J (1)
	1,2-Dichloroethane	U (1)	U (1)	0.31 J (1)	**0.75 J (1)**	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethene	0.43 J (1)	U (1)	U (1)	0.67 J (1)	0.42 J (1)	U (1)	U (1)	U (1)
	cis-1,2-Dichloroethene	**26 (1)**	**5.7 (1)**	**18 (1)**	**46 (1)**	**88 (1)**	3.2 (1)	2.8 (1)	3.7 (1)
	trans-1,2-Dichloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,4-Dioxane	---	---	---	---	---	U (50)	U (50)	U (50)
	Ethanol	---	110 J (200)	U (200)	U (200)	---	---	---	---
	Ethyl Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone	U (5)	U (2)	U (2)	U (2)	U (5)	U (5)	U (5)	U (5)
	Methylene Chloride	U (1)	U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
	Tetrachloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	2.8 (1)	U (1)
	Toluene	U (1)	0.44 J (1)	0.36 J (1)	0.32 J (1)	U (1)	U (1)	U (1)	U (1)
	1,1,1-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Trichloroethene	U (1)	U (1)	U (1)	U (1)	1.6 (1)	0.42 J (1)	**17 (1)**	0.78 J (1)
	Trichlorofluoromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Vinyl Chloride	**12 (1)**	1.3 (1)	**4.4 J- (1)**	**29 (1)**	**4.8 (1)**	0.62 J (1)	U (1)	1.1 (1)
	m,p-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	ortho-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Xylenes (total)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
TOC									
	Inorganic Carbon (total)	---	---	---	---	---	---	---	---
	Organic Carbon (total)	---	---	---	---	---	---	---	---
SVOC									
	1,4-Dioxane	7.6 (0.2)	7.6 B (0.19)	14 (0.4)	24 (0.98)	2.6 (0.2)	---	---	---

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

Location	MW103B	MW103B	MW103B	MW103B	MW103E	MW103ER	MW103ER	MW103ER
Field Sample ID	MW-103B-220824	MW-103B/230808	MW-103B/240821	MW-103B/250812	MW-103E-180731	MW-103ER-190225	MW103ER-190507	MW103ER-190729
Lab Sample ID	22208259001 / 460-264416-1	20285724008 / 620-13200-9	620-20477-2	620-28538-6	200-44580-5 / 460-161627-5	295750004 / 460-176031-4	302580003 / 460-181383-3	310540001 / 460-187853-1
Sample Method	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Peristaltic Pump	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP
Sample Date	8/24/2022	8/8/2023	8/21/2024	8/12/2025	7/31/2018	2/25/2019	5/7/2019	7/29/2019
Comments								
PFAS [ng/L]								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	5.46 J (19.1)	---	---	---
Perfluorobutanoic acid (PFBA)	---	---	---	---	127 (1.91)	---	---	---
Perfluoropentanoic acid (PFPeA)	---	---	---	---	84.8 (1.91)	---	---	---
Perfluorohexanoic acid (PFHxA)	---	---	---	---	53.9 (1.91)	---	---	---
Perfluoroheptanoic acid (PFHpA)	---	---	---	---	56.9 (1.91)	---	---	---
Perfluorooctanoic acid (PFOA)	---	---	---	---	52.5 B (1.91)	---	---	---
Perfluorononanoic acid (PFNA)	---	---	---	---	1.58 J (1.91)	---	---	---
Perfluorodecanoic acid (PFDA)	---	---	---	---	U (1.91)	---	---	---
Perfluoroundecanoic acid (PFUnA)	---	---	---	---	U (1.91)	---	---	---
Perfluorododecanoic acid (PFDoA)	---	---	---	---	U (1.91)	---	---	---
Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	3.87 (1.91)	---	---	---
Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	34.3 (1.91)	---	---	---
Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	0.9 J (1.91)	---	---	---
Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	12.6 (1.91)	---	---	---
MNA								
Chloride	---	9580 (320)	9570 (320)	18800 (7500)	---	---	---	---
Nitrate	---	U (160)	U (160)	U (110)	---	---	---	---
Sulfate	---	230 J (480)	810 (480)	U (1500)	---	---	---	---
INORG (Total)								
Calcium	3680 J (5000)	3700 (1000)	4100 J+ (500)	4500 (500)	58600 (5000)	18600 (5000)	51300 (5000)	19300 (5000)
Magnesium	11700 (5000)	8700 (100)	9400 (20)	8800 (40)	8490 (5000)	6360 (5000)	6330 (5000)	5160 (5000)
Potassium	1840 J (5000)	2700 (2000)	3600 (1000)	1900 (1000)	4440 J (5000)	2210 J (5000)	2160 J (5000)	3670 J (5000)
Sodium	**50000 (5000)**	**38000 (3000)**	**41700 (1500)**	**42600 (1500)**	**40800 (5000)**	11700 (5000)	11600 (5000)	16000 (5000)
INORG (Dissolved)								
Iron	U (150)	87 J (100)	100 J+ (100)	U (100)	U (150)	U (150)	U (150)	U (150)
GEOCHEMICAL								
HYDROGEN (H2) [nM]	1.2 J (1.9)	11.4 (1.9)	---	---	470 n (24)	5.4 n (1)	46 n (1)	40 n (1)
Field Parameters								
Dissolved Oxygen, Field	1400	430	0	0	0	0	0	0
Oxidation Reduction Potential (Field Measured) [mV]	-135	-126	-50	-86	-90	-226	24	-31
pH (Field Analysis) [su]	9.2	9.01	9.56	9.69	7.07	9.2	6.51	6.77

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW103ER	MW103ER	MW103ER	MW103ER	MW103ER	MW103ER	MW103ER	MW103ER
	Field Sample ID	MW103ER-200225	MW103ER-200811	DUP-200811	MW103ER-210210	DUP-210210	MW-103ER-210817	DUP-210817	MW-103ER-220823
	Lab Sample ID	330790001 / 460-203770-1	22008146602 / 460-215822-2	22008146604 / 460-215822-4	22103087104 / 460-228039-6	22103087107 / 460-228039-9	22108214203 / 460-241154-3	22108214206 / 460-241154-8	22208245701 / 460-264343-4
	Sample Method	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	2/25/2020	8/11/2020	8/11/2020	2/10/2021	2/10/2021	8/17/2021	8/17/2021	8/23/2022
	Comments			Field Duplicate		Field Duplicate		Field Duplicate	
WQ									
	Alkalinity	140000 (5000)	71100 (5000)	76700 (5000)	57000 (5000)	50500 (5000)	170000 (5000)	172000 (5000)	110000 (5000)
	Total Alkalinity as CaCO3	---	---	---	---	---	---	---	---
	Bicarbonate Alkalinity	140000 (5000)	71100 (5000)	76700 (5000)	57000 (5000)	50500 (5000)	170000 (5000)	172000 (5000)	110000 (5000)
	Bicarbonate as CaCO3	---	---	---	---	---	---	---	---
	Carbonate Alkalinity	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)
	Chloride	4120 (120)	10500 (320)	10500 (320)	5380 (320)	5380 (320)	3160 (320)	3090 (320)	8810 (320)
	Nitrate	59 J (100)	UJ (160)	UJ (160)	U (160)	U (160)	U (160)	UJ (160)	U (160)
	Sulfate	11300 (600)	1930 (480)	1890 (480)	1650 (480)	1640 (480)	3870 (480)	3830 (480)	1050 J- (480)
VOC									
	Acetone	U (5)	9.9 (5)	11 (5)	U (5)	U (5)	U (5)	U (5)	5.5 (5)
	Benzene	U (1)	0.52 J (1)	0.54 J (1)	0.45 J (1)	0.51 J (1)	0.73 J (1)	0.73 J (1)	0.29 J (1)
	Bromodichloromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Bromoform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	1 (1)	U (1)
	2-Butanone	U (5)	4.8 J (5)	4.7 J (5)	U (5)	U (5)	U (5)	U (5)	U (5)
	Chloroethane	U (1)	0.33 J (1)	0.46 J (1)	U (1)	U (1)	U (1)	U (1)	0.68 J (1)
	Chloroform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Chloromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Cumene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Dibromochloromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	1.2 (1)	U (1)
	1,1-Dichloroethane	U (1)	0.98 J (1)	0.95 J (1)	0.26 J (1)	0.3 J (1)	U (1)	U (1)	1.1 (1)
	1,2-Dichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	cis-1,2-Dichloroethene	2.1 (1)	**7.8 (1)**	**7.5 (1)**	U (1)	U (1)	3.7 (1)	3.4 (1)	1.8 (1)
	trans-1,2-Dichloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	UJ (1)
	1,4-Dioxane	---	---	---	---	---	---	---	---
	Ethanol	---	---	---	---	---	---	---	---
	Ethyl Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
	Methylene Chloride	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Tetrachloroethene	1.9 (1)	U (1)	U (1)	U (1)	U (1)	1.5 (1)	1.9 (1)	1.1 (1)
	Toluene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,1-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Trichloroethene	**13 (1)**	U (1)	0.32 J (1)	0.58 J (1)	0.63 J (1)	**9.7 (1)**	**9.5 (1)**	**5.6 (1)**
	Trichlorofluoromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Vinyl Chloride	U (1)	1.1 (1)	1.1 (1)	U (1)	U (1)	1.7 (1)	1.7 (1)	0.48 J (1)
	m,p-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	ortho-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Xylenes (total)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
TOC									
	Inorganic Carbon (total)	---	---	---	---	---	---	---	42200 (1000)
	Organic Carbon (total)	---	---	---	---	---	---	---	6100 (1000)
SVOC									
	1,4-Dioxane	U (0.2)	0.83 J (0.2)	UJ (0.2)	0.42 J (0.2)	0.29 J (0.2)	U (0.2)	U (0.2)	3.4 N (0.2)

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

Location	MW103ER	MW103ER	MW103ER	MW103ER	MW103ER	MW103ER	MW103ER	MW103ER
Field Sample ID	MW103ER-200225	MW103ER-200811	DUP-200811	MW103ER-210210	DUP-210210	MW-103ER-210817	DUP-210817	MW-103ER-220823
Lab Sample ID	330790001 / 460-203770-1	22008146602 / 460-215822-2	22008146604 / 460-215822-4	22103087104 / 460-228039-6	22103087107 / 460-228039-9	22108214203 / 460-241154-3	22108214206 / 460-241154-8	22208245701 / 460-264343-4
Sample Method	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
Sample Date	2/25/2020	8/11/2020	8/11/2020	2/10/2021	2/10/2021	8/17/2021	8/17/2021	8/23/2022
Comments			Field Duplicate		Field Duplicate		Field Duplicate	
PFAS [ng/L]								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	---	---	---	---
Perfluorobutanoic acid (PFBA)	---	---	---	---	---	---	---	---
Perfluoropentanoic acid (PFPeA)	---	---	---	---	---	---	---	---
Perfluorohexanoic acid (PFHxA)	---	---	---	---	---	---	---	---
Perfluoroheptanoic acid (PFHpA)	---	---	---	---	---	---	---	---
Perfluorooctanoic acid (PFOA)	---	---	---	---	---	---	---	---
Perfluorononanoic acid (PFNA)	---	---	---	---	---	---	---	---
Perfluorodecanoic acid (PFDA)	---	---	---	---	---	---	---	---
Perfluoroundecanoic acid (PFUnA)	---	---	---	---	---	---	---	---
Perfluorododecanoic acid (PFDoA)	---	---	---	---	---	---	---	---
Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	---	---	---	---
Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	---	---	---	---
Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	---	---	---	---
Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	---	---	---	---
MNA								
Chloride	---	---	---	---	---	---	---	---
Nitrate	---	---	---	---	---	---	---	---
Sulfate	---	---	---	---	---	---	---	---
INORG (Total)								
Calcium	50600 (5000)	17000 (5000)	15900 (5000)	16800 (5000)	16300 (5000)	51700 (5000)	53400 (5000)	22200 (5000)
Magnesium	5950 (5000)	2590 J (5000)	2250 J (5000)	1920 J (5000)	1860 J (5000)	7340 (5000)	7540 (5000)	3030 J (5000)
Potassium	2170 J (5000)	3080 J (5000)	2830 J (5000)	2140 J (5000)	2120 J (5000)	3200 J (5000)	3260 J (5000)	1970 J (5000)
Sodium	9990 (5000)	**22400 (5000)**	**21900 (5000)**	11600 (5000)	11700 (5000)	9110 (5000)	9190 (5000)	**22900 (5000)**
INORG (Dissolved)								
Iron	U (150)	U (150)	U (150)	596 (150)	435 (150)	U (150)	U (150)	U (150)
GEOCHEMICAL								
HYDROGEN (H2) [nM]	2.2 n (1)	2.8 (1.9)	2 (1.9)	1.3 J (0.49)	0.95 J (0.49)	3.6 J (0.49)	5.5 J (0.49)	2.5 (1.9)
Field Parameters								
Dissolved Oxygen, Field	0	0	---	6090	---	360	---	1030
Oxidation Reduction Potential (Field Measured) [mV]	30	-128	---	-5	---	14	---	-68
pH (Field Analysis) [su]	5.96	6.81	---	6.77	---	4.61	---	6.75

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW103ER	MW103ER	MW103ER	MW103I	MW103I	MW103I	MW103I	MW103I
	Field Sample ID	MW-103ER/230808	MW-103ER/240820	MW-103ER/250812	MW-103I-180801	MW-103I-181114	MW-103I-190225	MW103I-190507	MW103I-190730
	Lab Sample ID	620-13200-4	620-20451-4	620-28538-5	276600003 / 460-161828-3	460-169286-9 / MW-103I-181114	295750003 / 460-176031-3	302580002 / 460-181383-2	310730002 / 460-187954-1
	Sample Method	Bladder Pump	Bladder Pump	Bladder Pump	Peristaltic Pump	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP
	Sample Date	8/8/2023	8/20/2024	8/12/2025	8/1/2018	11/14/2018	2/25/2019	5/7/2019	7/30/2019
	Comments								
WQ									
	Alkalinity	---	---	---	360000 (5000)	248000 (5000)	327000 (5000)	215000 (5000)	262000 (5000)
	Total Alkalinity as CaCO3	197000 (5000)	187000 (5000)	130000 (8000)	---	---	---	---	---
	Bicarbonate Alkalinity	---	---	---	360000 (5000)	248000 (5000)	327000 (5000)	215000 (5000)	262000 (5000)
	Bicarbonate as CaCO3	---	---	---	---	---	---	---	---
	Carbonate Alkalinity	---	---	---	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)
	Chloride	---	---	---	16800 (720)	82600 (3360)	89800 (3000)	75400 (2400)	47200 (2400)
	Nitrate	---	---	---	UJ (100)	3110 (100)	780 (100)	7880 (200)	5090 J (100)
	Sulfate	---	---	---	31100 (3600)	33300 (16800)	23400 (15000)	49900 (12000)	49600 (1200)
VOC									
	Acetone	U (10)	3.1 J- (10)	U (10)	U (5)	UJ (5)	U (10)	U (5)	U (5)
	Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)
	Bromodichloromethane	U (0.5)	U (0.5)	U (0.5)	U (1)	U (1)	U (2)	U (1)	U (1)
	Bromoform	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)
	2-Butanone	U (2)	UJ (2)	U (2)	U (5)	U (5)	U (10)	U (5)	U (5)
	Chloroethane	U (2)	UJ (2)	U (2)	U (1)	0.76 J (1)	U (2)	U (1)	U (1)
	Chloroform	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)
	Chloromethane	U (2)	UJ (2)	U (2)	U (1)	UJ (1)	U (2)	UJ (1)	U (1)
	Cumene	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)
	Dibromochloromethane	U (0.5)	U (0.5)	U (0.5)	U (1)	U (1)	U (2)	U (1)	U (1)
	1,1-Dichloroethane	U (1)	U (1)	U (1)	**100 (1)**	**99 (1)**	**110 (2)**	**7.9 (1)**	4.8 (1)
	1,2-Dichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)
	1,1-Dichloroethene	U (1)	U (1)	U (1)	3.8 (1)	**8.9 (1)**	**16 (2)**	2.4 (1)	0.91 J (1)
	cis-1,2-Dichloroethene	1.7 (1)	3 (1)	3.8 (1)	**450 (1)**	**490 (1)**	**720 (2)**	**60 (1)**	**28 (1)**
	trans-1,2-Dichloroethene	U (1)	U (1)	0.3 J (1)	0.37 J (1)	0.95 J (1)	U (2)	0.48 J (1)	0.39 J (1)
	1,4-Dioxane	---	---	---	130 (50)	63 J- (50)	120 (100)	U (50)	U (50)
	Ethanol	U (200)	UJ (200)	U (200)	---	---	---	---	---
	Ethyl Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)
	4-Methyl-2-pentanone	U (2)	U (2)	U (2)	U (5)	U (5)	U (10)	U (5)	U (5)
	Methylene Chloride	U (2)	U (2)	U (2)	0.32 J (1)	U (1)	U (2)	U (1)	U (1)
	Tetrachloroethene	2.9 * (1)	2.5 (1)	0.79 J (1)	U (1)	0.26 J (1)	U (2)	1.2 (1)	0.62 J (1)
	Toluene	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)
	1,1,1-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	0.24 J (1)	U (1)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)
	Trichloroethene	**20 (1)**	**16 (1)**	**6.5 (1)**	4.3 (1)	**40 (1)**	**26 (2)**	**99 (1)**	**87 (1)**
	Trichlorofluoromethane	U (1)	UJ (1)	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)
	Vinyl Chloride	U (1)	0.97 J (1)	U (1)	**110 (1)**	**44 (1)**	**47 (2)**	1.8 (1)	0.76 J (1)
	m,p-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)
	ortho-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)
	Xylenes (total)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)
TOC									
	Inorganic Carbon (total)	---	55100 J+ (2000)	23400 (2000)	---	---	---	---	---
	Organic Carbon (total)	3500 (1000)	5800 J+ (1000)	3500 (1000)	---	---	---	---	---
SVOC									
	1,4-Dioxane	U (0.19)	U (0.19)	3.4 (0.22)	---	---	---	---	---

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

Location	MW103ER	MW103ER	MW103ER	MW103I	MW103I	MW103I	MW103I	MW103I
Field Sample ID	MW-103ER/230808	MW-103ER/240820	MW-103ER/250812	MW-103I-180801	MW-103I-181114	MW-103I-190225	MW103I-190507	MW103I-190730
Lab Sample ID	620-13200-4	620-20451-4	620-28538-5	276600003 / 460-161828-3	460-169286-9 / MW-103I-181114	295750003 / 460-176031-3	302580002 / 460-181383-2	310730002 / 460-187954-1
Sample Method	Bladder Pump	Bladder Pump	Bladder Pump	Peristaltic Pump	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP	BLADDER PUMP
Sample Date	8/8/2023	8/20/2024	8/12/2025	8/1/2018	11/14/2018	2/25/2019	5/7/2019	7/30/2019
Comments								
PFAS [ng/L]								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	---	---	---	---
Perfluorobutanoic acid (PFBA)	---	---	---	---	---	---	---	---
Perfluoropentanoic acid (PFPeA)	---	---	---	---	---	---	---	---
Perfluorohexanoic acid (PFHxA)	---	---	---	---	---	---	---	---
Perfluoroheptanoic acid (PFHpA)	---	---	---	---	---	---	---	---
Perfluorooctanoic acid (PFOA)	---	---	---	---	---	---	---	---
Perfluorononanoic acid (PFNA)	---	---	---	---	---	---	---	---
Perfluorodecanoic acid (PFDA)	---	---	---	---	---	---	---	---
Perfluoroundecanoic acid (PFUnA)	---	---	---	---	---	---	---	---
Perfluorododecanoic acid (PFDoA)	---	---	---	---	---	---	---	---
Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	---	---	---	---
Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	---	---	---	---
Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	---	---	---	---
Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	---	---	---	---
MNA								
Chloride	1560 (320)	1430 (320)	4060 (1500)	---	---	---	---	---
Nitrate	630 (160)	140 J (160)	U (110)	---	---	---	---	---
Sulfate	11900 (480)	7280 (480)	2750 (1500)	---	---	---	---	---
INORG (Total)								
Calcium	65900 (1000)	57800 B (500)	33700 (500)	63500 (5000)	73400 (5000)	74400 (5000)	76000 (5000)	84100 (5000)
Magnesium	7200 (100)	6500 (20)	3800 (40)	16900 (5000)	14500 (5000)	17700 (5000)	14600 (5000)	14900 (5000)
Potassium	4200 (2000)	4200 J+ (1000)	2000 (1000)	2120 J (5000)	3380 J (5000)	1990 J (5000)	3970 J (5000)	4700 J (5000)
Sodium	6400 (3000)	7200 (1500)	7700 (1500)	**80700 (5000)**	**81300 (5000)**	**99000 (5000)**	**69300 (5000)**	**66200 (5000)**
INORG (Dissolved)								
Iron	40 J (100)	760 (100)	U (100)	U (150)	U (150)	U (150)	U (150)	U (150)
GEOCHEMICAL								
HYDROGEN (H2) [nM]	---	---	---	7.7 n (2)	250 Jn (20)	340 n (20)	1.3 n (1)	1.6 n (1)
Field Parameters								
Dissolved Oxygen, Field	400	0	0	0	190	5370	1120	1950
Oxidation Reduction Potential (Field Measured) [mV]	38	122	59	-105	2	79	125	176
pH (Field Analysis) [su]	6.03	6.72	6.97	7.33	6.81	7.74	6.33	6.62

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW103I	MW103I	MW103I	MW103I	MW103I	MW103I	MW103I	MW103I
	Field Sample ID	MW103I-200225	MW103I-200812	MW103I-210210	MW-103I-210818	MW-103I-220824	MW-103I/230808	MW-103I/240821	MW-103I/250813
	Lab Sample ID	330740008 / 460-203694-10	22008146605 / 460-215822-5	22103087108 / 460-228038-1	22108214204 / 460-241154-4	22208259002 / 460-264416-2	20285724009 / 620-13200-5	620-20477-4	620-28577-4
	Sample Method	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	2/25/2020	8/12/2020	2/10/2021	8/18/2021	8/24/2022	8/8/2023	8/21/2024	8/13/2025
	Comments								
WQ									
	Alkalinity	248000 (5000)	258000 (5000)	295000 (5000)	249000 (5000)	361000 (5000)	---	---	---
	Total Alkalinity as CaCO3	---	---	---	---	---	236000 (5000)	233000 (5000)	256000 (8000)
	Bicarbonate Alkalinity	248000 (5000)	258000 (5000)	295000 (5000)	249000 (5000)	361000 (5000)	---	---	---
	Bicarbonate as CaCO3	248000 (5000)	---	---	---	---	---	---	---
	Carbonate Alkalinity	U (5000)	U (5000)	U (5000)	U (5000)	U (5000)	---	---	---
	Chloride	22600 (1200)	17200 (320)	25300 (320)	7980 (320)	21100 (320)	---	---	---
	Nitrate	3480 (100)	3290 (160)	530 (160)	2880 (160)	U (160)	---	---	---
	Sulfate	25500 (6000)	37700 (480)	21900 (480)	29500 (480)	29800 J (480)	---	---	---
VOC									
	Acetone	U (5)	U (5)	U (5)	U (5)	U (25)	U (10)	U (10)	U (10)
	Benzene	U (1)	U (1)	U (1)	U (1)	U (5)	U (1)	U (1)	U (1)
	Bromodichloromethane	U (1)	U (1)	U (1)	0.68 J (1)	U (5)	U (0.5)	U (0.5)	U (0.5)
	Bromoform	U (1)	U (1)	U (1)	U (1)	U (5)	U (1)	U (1)	U (1)
	2-Butanone	U (5)	U (5)	U (5)	U (5)	U (25)	U (2)	U (2)	U (2)
	Chloroethane	U (1)	U (1)	U (1)	U (1)	U (5)	U (2)	U (2)	U (2)
	Chloroform	U (1)	U (1)	U (1)	U (1)	U (5)	U (1)	U (1)	U (1)
	Chloromethane	U (1)	U (1)	U (1)	U (1)	U (5)	U (2)	U (2)	U (2)
	Cumene	U (1)	U (1)	U (1)	U (1)	U (5)	U (1)	U (1)	U (1)
	Dibromochloromethane	U (1)	U (1)	U (1)	U (1)	U (5)	U (0.5)	U (0.5)	U (0.5)
	1,1-Dichloroethane	**49 (1)**	**15 (1)**	**21 (1)**	**24 (1)**	**140 J (5)**	4.3 (1)	U (1)	**13 (1)**
	1,2-Dichloroethane	U (1)	U (1)	U (1)	U (1)	U (5)	U (1)	U (1)	U (1)
	1,1-Dichloroethene	**11 (1)**	3.7 (1)	4 (1)	**8.8 (1)**	**23 (5)**	2 (1)	U (1)	**6.5 (1)**
	cis-1,2-Dichloroethene	**270 (1)**	**110 (1)**	**180 (1)**	**160 (1)**	**1500 J (5)**	**47 (1)**	**10 (1)**	**100 (10)**
	trans-1,2-Dichloroethene	0.56 J (1)	0.47 J (1)	0.27 J (1)	0.43 J (1)	1.3 J (5)	0.46 J (1)	U (1)	0.74 J (1)
	1,4-Dioxane	---	---	---	---	---	---	---	---
	Ethanol	---	---	---	---	---	U (200)	U (200)	U (200)
	Ethyl Benzene	U (1)	U (1)	U (1)	U (1)	U (5)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone	U (5)	U (5)	U (5)	U (5)	U (25)	U (2)	U (2)	U (2)
	Methylene Chloride	U (1)	U (1)	U (1)	U (1)	U (5)	U (2)	U (2)	U (2)
	Tetrachloroethene	1.9 (1)	2.5 (1)	0.5 J (1)	1.6 (1)	U (5)	0.72 J (1)	U (1)	1.3 (1)
	Toluene	U (1)	U (1)	U (1)	U (1)	U (5)	U (1)	U (1)	U (1)
	1,1,1-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (5)	U (1)	U (1)	U (1)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (5)	U (1)	U (1)	U (1)
	Trichloroethene	**93 (1)**	**120 (1)**	**64 (1)**	**88 (1)**	**76 (5)**	**83 (1)**	**38 (1)**	**83 (10)**
	Trichlorofluoromethane	U (1)	U (1)	U (1)	U (1)	U (5)	U (1)	U (1)	U (1)
	Vinyl Chloride	**12 (1)**	**6 (1)**	**32 (1)**	**9.5 (1)**	**98 (5)**	0.81 J (1)	UJ (1)	**5.1 (1)**
	m,p-xylene	U (1)	U (1)	U (1)	U (1)	U (5)	U (1)	U (1)	U (1)
	ortho-xylene	U (1)	U (1)	U (1)	U (1)	U (5)	U (1)	U (1)	U (1)
	Xylenes (total)	U (1)	U (1)	U (1)	U (1)	U (5)	U (1)	U (1)	U (10)
TOC									
	Inorganic Carbon (total)	---	---	---	---	101000 (5000)	---	54200 (2000)	41400 (2000)
	Organic Carbon (total)	---	---	---	---	7000 (1000)	1900 (1000)	7400 (1000)	2900 (1000)
SVOC									
	1,4-Dioxane	3 (0.2)	1.5 (0.2)	8.3 (0.2)	2 (0.2)	8.8 J (0.2)	1.1 B (0.2)	0.34 (0.19)	1.8 J- (0.2)

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

Location	MW103I	MW103I	MW103I	MW103I	MW103I	MW103I	MW103I	MW103I
Field Sample ID	MW103I-200225	MW103I-200812	MW103I-210210	MW-103I-210818	MW-103I-220824	MW-103I/230808	MW-103I/240821	MW-103I/250813
Lab Sample ID	330740008 / 460-203694-10	22008146605 / 460-215822-5	22103087108 / 460-228038-1	22108214204 / 460-241154-4	22208259002 / 460-264416-2	20285724009 / 620-13200-5	620-20477-4	620-28577-4
Sample Method	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
Sample Date	2/25/2020	8/12/2020	2/10/2021	8/18/2021	8/24/2022	8/8/2023	8/21/2024	8/13/2025
Comments								
PFAS [ng/L]								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	---	---	---	---
Perfluorobutanoic acid (PFBA)	---	---	---	---	---	---	---	---
Perfluoropentanoic acid (PFPeA)	---	---	---	---	---	---	---	---
Perfluorohexanoic acid (PFHxA)	---	---	---	---	---	---	---	---
Perfluoroheptanoic acid (PFHpA)	---	---	---	---	---	---	---	---
Perfluorooctanoic acid (PFOA)	---	---	---	---	---	---	---	---
Perfluorononanoic acid (PFNA)	---	---	---	---	---	---	---	---
Perfluorodecanoic acid (PFDA)	---	---	---	---	---	---	---	---
Perfluoroundecanoic acid (PFUnA)	---	---	---	---	---	---	---	---
Perfluorododecanoic acid (PFDoA)	---	---	---	---	---	---	---	---
Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	---	---	---	---
Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	---	---	---	---
Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	---	---	---	---
Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	---	---	---	---
MNA								
Chloride	---	---	---	---	---	5700 (320)	2910 (320)	6140 (1500)
Nitrate	---	---	---	---	---	3470 (160)	2870 (160)	1010 (110)
Sulfate	---	---	---	---	---	21000 (480)	17300 (480)	16500 J- (1500)
INORG (Total)								
Calcium	66300 (5000)	62400 (5000)	72900 (5000)	63400 (5000)	101000 (5000)	60200 (1000)	72100 B (500)	64700 (500)
Magnesium	12100 (5000)	11900 (5000)	12500 (5000)	10300 (5000)	21300 (5000)	8100 (100)	6700 (20)	10300 (40)
Potassium	3090 J (5000)	3300 J (5000)	2940 J (5000)	3580 J (5000)	2630 J (5000)	4300 (2000)	6100 (1000)	2600 (1000)
Sodium	**59500 (5000)**	**64700 (5000)**	**57300 (5000)**	**46000 (5000)**	**39500 (5000)**	**34000 (3000)**	**28100 (1500)**	**24100 (1500)**
INORG (Dissolved)								
Iron	U (150)	U (150)	U (150)	U (150)	U (150)	U (100)	U (100)	U (100)
GEOCHEMICAL								
HYDROGEN (H2) [nM]	2.5 n (1)	8.5 (1.9)	1.1 J (0.49)	1.3 J (0.49)	U (1.9)	20.4 (1.9)	---	---
Field Parameters								
Dissolved Oxygen, Field	1050	280	2860	380	2920	890	2440	730
Oxidation Reduction Potential (Field Measured) [mV]	177	122	119	131	130	118	122	139
pH (Field Analysis) [su]	6.36	6.49	6.73	5.76	6.89	6.19	6.89	6.91

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW104E	MW104E	MW104E	MW104E	MW104E	MW104E	MW104E	MW104E
	Field Sample ID	MW-104E-180802	MW104E-190731	MW104E-200811	MW-104E-210818	MW-104E-220823	MW-104E/230808	MW-104E/240821	MW-104E/250812
	Lab Sample ID	460-161923-3	460-188165-1	460-215716-5	460-241154-7	460-264343-3	620-13200-21	620-20477-6	620-28538-2
	Sample Method	Peristaltic Pump	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	8/2/2018	7/31/2019	8/11/2020	8/18/2021	8/23/2022	8/8/2023	8/21/2024	8/12/2025
	Comments								
WQ									
	Alkalinity	---	---	---	---	---	---	---	---
	Total Alkalinity as CaCO3	---	---	---	---	---	---	---	---
	Bicarbonate Alkalinity	---	---	---	---	---	---	---	---
	Bicarbonate as CaCO3	---	---	---	---	---	---	---	---
	Carbonate Alkalinity	---	---	---	---	---	---	---	---
	Chloride	---	---	---	---	---	---	---	---
	Nitrate	---	---	---	---	---	---	---	---
	Sulfate	---	---	---	---	---	---	---	---
VOC									
	Acetone	U (5)	U (5)	U (5)	U (5)	U (5)	U (10)	20 J+ (10)	U (10)
	Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Bromodichloromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (0.5)	U (0.5)	U (0.5)
	Bromoform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	2-Butanone	U (5)	U (5)	U (5)	U (5)	U (5)	U (2)	1.3 J (2)	U (2)
	Chloroethane	U (1)	UJ (1)	U (1)	U (1)	U (1)	U (2)	U (2)	U (2)
	Chloroform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Chloromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (2)	U (2)
	Cumene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Dibromochloromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (0.5)	U (0.5)	U (0.5)
	1,1-Dichloroethane	4.7 (1)	**6.2 (1)**	**6.2 (1)**	4 (1)	**5.4 (1)**	3.3 (1)	4.7 (1)	4.4 (1)
	1,2-Dichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethene	1.5 (1)	1.4 (1)	0.93 J (1)	U (1)	0.68 J (1)	U (1)	0.35 J (1)	U (1)
	cis-1,2-Dichloroethene	**32 (1)**	**22 (1)**	**11 (1)**	5 (1)	**9.5 (1)**	4.7 (1)	**7.1 (1)**	4.4 (1)
	trans-1,2-Dichloroethene	U (1)	U (1)	U (1)	U (1)	0.36 J (1)	U (1)	0.19 J (1)	U (1)
	1,4-Dioxane	U (50)	U (50)	---	U (50)	U (50)	---	---	---
	Ethanol	---	---	---	---	---	U (200)	U (200)	U (200)
	Ethyl Benzene	**16 (1)**	**9.9 (1)**	**12 (1)**	U (1)	3.2 (1)	U (1)	1.6 (1)	0.65 J (1)
	4-Methyl-2-pentanone	U (5)	U (5)	U (5)	U (5)	U (5)	U (2)	U (2)	U (2)
	Methylene Chloride	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (2)	U (2)
	Tetrachloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Toluene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,1-Trichloroethane	1.1 (1)	3 (1)	1.3 (1)	0.84 J (1)	0.47 J (1)	0.33 J (1)	0.38 J (1)	U (1)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Trichloroethene	**12 (1)**	3.7 (1)	2.7 (1)	0.61 J (1)	1.2 (1)	U (1)	1.1 (1)	0.63 J (1)
	Trichlorofluoromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Vinyl Chloride	**9.9 (1)**	**20 (1)**	**14 (1)**	**3.7 (1)**	**14 (1)**	**4.5 (1)**	**6.8 J- (1)**	**5.6 (1)**
	m,p-xylene	65 (1)	10 (1)	3 (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	ortho-xylene	**45 (1)**	1.5 (1)	2.3 (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Xylenes (total)	**110 (1)**	**11.5 (1)**	**5.3 (1)**	U (1)	U (1)	U (1)	U (1)	U (1)
TOC									
	Inorganic Carbon (total)	---	---	---	---	---	---	---	---
	Organic Carbon (total)	---	---	---	---	---	---	---	---
SVOC									
	1,4-Dioxane	---	---	13 (0.2)	---	---	---	---	---

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

Location	MW104E	MW104E	MW104E	MW104E	MW104E	MW104E	MW104E	MW104E
Field Sample ID	MW-104E-180802	MW104E-190731	MW104E-200811	MW-104E-210818	MW-104E-220823	MW-104E/230808	MW-104E/240821	MW-104E/250812
Lab Sample ID	460-161923-3	460-188165-1	460-215716-5	460-241154-7	460-264343-3	620-13200-21	620-20477-6	620-28538-2
Sample Method	Peristaltic Pump	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
Sample Date	8/2/2018	7/31/2019	8/11/2020	8/18/2021	8/23/2022	8/8/2023	8/21/2024	8/12/2025
Comments								
PFAS [ng/L]								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	---	---	---	---
Perfluorobutanoic acid (PFBA)	---	---	---	---	---	---	---	---
Perfluoropentanoic acid (PFPeA)	---	---	---	---	---	---	---	---
Perfluorohexanoic acid (PFHxA)	---	---	---	---	---	---	---	---
Perfluoroheptanoic acid (PFHpA)	---	---	---	---	---	---	---	---
Perfluorooctanoic acid (PFOA)	---	---	---	---	---	---	---	---
Perfluorononanoic acid (PFNA)	---	---	---	---	---	---	---	---
Perfluorodecanoic acid (PFDA)	---	---	---	---	---	---	---	---
Perfluoroundecanoic acid (PFUnA)	---	---	---	---	---	---	---	---
Perfluorododecanoic acid (PFDoA)	---	---	---	---	---	---	---	---
Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	---	---	---	---
Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	---	---	---	---
Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	---	---	---	---
Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	---	---	---	---
MNA								
Chloride	---	---	---	---	---	---	---	---
Nitrate	---	---	---	---	---	---	---	---
Sulfate	---	---	---	---	---	---	---	---
INORG (Total)								
Calcium	---	---	---	---	---	---	---	---
Magnesium	---	---	---	---	---	---	---	---
Potassium	---	---	---	---	---	---	---	---
Sodium	---	---	---	---	---	---	---	---
INORG (Dissolved)								
Iron	---	---	---	---	---	---	---	---
GEOCHEMICAL								
HYDROGEN (H2) [nM]	---	---	---	---	---	---	---	---
Field Parameters								
Dissolved Oxygen, Field	---	---	---	6750	3720	7580	0	0
Oxidation Reduction Potential (Field Measured) [mV]	---	---	---	30	-153	-29	-104	-122
pH (Field Analysis) [su]	---	---	---	6.59	7.3	7.12	7.62	7.42

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW104I	MW104I	MW104I	MW104I	MW104I	MW104I	MW104I	MW104I
	Field Sample ID	MW-104I-180802	MW104I-190730	MW104I-200812	MW-104I-210818	MW-104I-220825	MW-104I/230809	MW-104I/240821	MW-104I/250812
	Lab Sample ID	460-161923-5	460-187954-4	460-215912-1	460-241154-6	460-264457-2	620-13227-3	620-20477-3	620-28538-1
	Sample Method	Peristaltic Pump	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	8/2/2018	7/30/2019	8/12/2020	8/18/2021	8/25/2022	8/9/2023	8/21/2024	8/12/2025
	Comments								
WQ									
	Alkalinity	---	---	---	---	---	---	---	---
	Total Alkalinity as CaCO3	---	---	---	---	---	---	---	---
	Bicarbonate Alkalinity	---	---	---	---	---	---	---	---
	Bicarbonate as CaCO3	---	---	---	---	---	---	---	---
	Carbonate Alkalinity	---	---	---	---	---	---	---	---
	Chloride	---	---	---	---	---	---	---	---
	Nitrate	---	---	---	---	---	---	---	---
	Sulfate	---	---	---	---	---	---	---	---
VOC									
	Acetone	U (5)	U (5)	U (5)	U (10)	U (5)	U (10)	U (10)	U (10)
	Benzene	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
	Bromodichloromethane	U (1)	U (1)	U (1)	U (2)	U (1)	U (0.5)	U (0.5)	U (0.5)
	Bromoform	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
	2-Butanone	U (5)	U (5)	U (5)	U (10)	U (5)	U (2)	U (2)	U (2)
	Chloroethane	U (1)	U (1)	UJ (1)	U (2)	U (1)	U (2)	U (2)	U (2)
	Chloroform	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
	Chloromethane	U (1)	U (1)	U (1)	U (2)	U (1)	U (2)	U (2)	U (2)
	Cumene	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
	Dibromochloromethane	U (1)	U (1)	U (1)	U (2)	U (1)	U (0.5)	U (0.5)	U (0.5)
	1,1-Dichloroethane	**17 (1)**	**20 (1)**	**21 (1)**	**24 (2)**	**19 (1)**	**12 (1)**	**9.8 (1)**	**9.3 (1)**
	1,2-Dichloroethane	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethene	4.4 (1)	**5.2 (1)**	3.9 (1)	**6.1 (2)**	**5.1 (1)**	3.4 (1)	2.5 (1)	2 (1)
	cis-1,2-Dichloroethene	**360 (1)**	**460 (1)**	**460 (1)**	**510 (2)**	**360 (1)**	**180 (10)**	**100 (10)**	**98 (10)**
	trans-1,2-Dichloroethene	0.45 J (1)	0.75 J (1)	0.76 J (1)	1.7 J (2)	1.5 (1)	0.93 J (1)	0.69 J (1)	3.9 (1)
	1,4-Dioxane	U (50)	U (50)	---	U (100)	U (50)	---	---	---
	Ethanol	---	---	---	---	---	U (200)	U (200)	U (200)
	Ethyl Benzene	0.45 J (1)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone	U (5)	U (5)	U (5)	U (10)	U (5)	U (2)	U (2)	U (2)
	Methylene Chloride	U (1)	U (1)	U (1)	U (2)	U (1)	U (2)	U (2)	U (2)
	Tetrachloroethene	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
	Toluene	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
	1,1,1-Trichloroethane	U (1)	U (1)	U (1)	U (2)	U (1)	0.69 J (1)	0.41 J (1)	U (1)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
	Trichloroethene	**34 (1)**	**38 (1)**	**28 (1)**	**42 (2)**	**36 (1)**	**24 (1)**	**30 (1)**	**16 (1)**
	Trichlorofluoromethane	U (1)	U (1)	UJ (1)	U (2)	U (1)	U (1)	U (1)	U (1)
	Vinyl Chloride	**68 (1)**	**81 (1)**	**86 (1)**	**87 (2)**	**58 (1)**	**52 J- (1)**	**29 J- (1)**	**26 (1)**
	m,p-xylene	1.6 (1)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
	ortho-xylene	0.81 J (1)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
	Xylenes (total)	2.41 (1)	U (1)	U (1)	U (2)	U (1)	U (10)	U (10)	U (10)
TOC									
	Inorganic Carbon (total)	---	---	---	---	---	---	---	---
	Organic Carbon (total)	---	---	---	---	---	---	---	---
SVOC									
	1,4-Dioxane	---	---	1.8 (0.2)	---	---	---	---	---

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW104I	MW104I	MW104I	MW104I	MW104I	MW104I	MW104I	MW104I
	Field Sample ID	MW-104I-180802	MW104I-190730	MW104I-200812	MW-104I-210818	MW-104I-220825	MW-104I/230809	MW-104I/240821	MW-104I/250812
	Lab Sample ID	460-161923-5	460-187954-4	460-215912-1	460-241154-6	460-264457-2	620-13227-3	620-20477-3	620-28538-1
	Sample Method	Peristaltic Pump	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	8/2/2018	7/30/2019	8/12/2020	8/18/2021	8/25/2022	8/9/2023	8/21/2024	8/12/2025
	Comments								
PFAS [ng/L]									
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	---	---	---	---
	Perfluorobutanoic acid (PFBA)	---	---	---	---	---	---	---	---
	Perfluoropentanoic acid (PFPeA)	---	---	---	---	---	---	---	---
	Perfluorohexanoic acid (PFHxA)	---	---	---	---	---	---	---	---
	Perfluoroheptanoic acid (PFHpA)	---	---	---	---	---	---	---	---
	Perfluorooctanoic acid (PFOA)	---	---	---	---	---	---	---	---
	Perfluorononanoic acid (PFNA)	---	---	---	---	---	---	---	---
	Perfluorodecanoic acid (PFDA)	---	---	---	---	---	---	---	---
	Perfluoroundecanoic acid (PFUnA)	---	---	---	---	---	---	---	---
	Perfluorododecanoic acid (PFDoA)	---	---	---	---	---	---	---	---
	Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	---	---	---	---
	Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	---	---	---	---
	Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	---	---	---	---
	Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	---	---	---	---
MNA									
	Chloride	---	---	---	---	---	---	---	---
	Nitrate	---	---	---	---	---	---	---	---
	Sulfate	---	---	---	---	---	---	---	---
INORG (Total)									
	Calcium	---	---	---	---	---	---	---	---
	Magnesium	---	---	---	---	---	---	---	---
	Potassium	---	---	---	---	---	---	---	---
	Sodium	---	---	---	---	---	---	---	---
INORG (Dissolved)									
	Iron	---	---	---	---	---	---	---	---
GEOCHEMICAL									
	HYDROGEN (H2) [nM]	---	---	---	---	---	---	---	---
Field Parameters									
	Dissolved Oxygen, Field	---	---	---	370	2250	4910	4240	0
	Oxidation Reduction Potential (Field Measured) [mV]	---	---	---	-104	-13	-92	20	-85
	pH (Field Analysis) [su]	---	---	---	5.7	5.92	6.69	7.7	7.35

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW11	MW11	MW11	MW11	MW11	MW11	MW11	MW13
	Field Sample ID	MW11-190731	MW11-200810	MW-11-210816	MW-11-220822	MW-11/230807	MW-11/240820	MW-11/250811	MW13-190731
	Lab Sample ID	460-188165-2	460-215716-1	460-241081-2	460-264254-2	620-13201-1	620-20451-1	620-28495-1	460-188165-3
	Sample Method	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	BLADDER PUMP
	Sample Date	7/31/2019	8/10/2020	8/16/2021	8/22/2022	8/7/2023	8/20/2024	8/11/2025	7/31/2019
	Comments								
WQ									
	Alkalinity	---	---	---	---	---	---	---	---
	Total Alkalinity as CaCO3	---	---	---	---	---	---	---	---
	Bicarbonate Alkalinity	---	---	---	---	---	---	---	---
	Bicarbonate as CaCO3	---	---	---	---	---	---	---	---
	Carbonate Alkalinity	---	---	---	---	---	---	---	---
	Chloride	---	---	---	---	---	---	---	---
	Nitrate	---	---	---	---	---	---	---	---
	Sulfate	---	---	---	---	---	---	---	---
VOC									
	Acetone	U (5)	U (5)	U (5)	U (5)	U (10)	4.2 J- (10)	U (10)	U (5)
	Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Bromodichloromethane	U (1)	U (1)	U (1)	U (1)	U (0.5)	U (0.5)	U (0.5)	U (1)
	Bromoform	U (1)	U (1)	UJ (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	2-Butanone	U (5)	U (5)	U (5)	U (5)	U (2)	UJ (2)	U (2)	U (5)
	Chloroethane	UJ (1)	U (1)	U (1)	U (1)	U (2)	UJ (2)	U (2)	UJ (1)
	Chloroform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Chloromethane	U (1)	U (1)	U (1)	U (1)	U (2)	UJ (2)	U (2)	U (1)
	Cumene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Dibromochloromethane	U (1)	U (1)	U (1)	U (1)	U (0.5)	U (0.5)	U (0.5)	U (1)
	1,1-Dichloroethane	U (1)	U (1)	0.93 J (1)	U (1)	1 (1)	0.6 J (1)	0.39 J (1)	U (1)
	1,2-Dichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	cis-1,2-Dichloroethene	U (1)	U (1)	0.68 J (1)	0.52 J (1)	3.6 (1)	1.8 (1)	3.5 (1)	0.8 J (1)
	trans-1,2-Dichloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,4-Dioxane	U (50)	---	U (50)	U (50)	---	---	---	U (50)
	Ethanol	---	---	---	---	U (200)	UJ (200)	U (200)	---
	Ethyl Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone	U (5)	U (5)	U (5)	U (5)	U (2)	U (2)	U (2)	U (5)
	Methylene Chloride	U (1)	U (1)	U (1)	U (1)	U (2)	U (2)	U (2)	U (1)
	Tetrachloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	1.1 (1)
	Toluene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,1-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Trichloroethene	U (1)	U (1)	0.49 J (1)	0.65 J (1)	1.9 (1)	1.7 (1)	3.1 (1)	**20 (1)**
	Trichlorofluoromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	0.23 J (1)	U (1)
	Vinyl Chloride	U (1)	U (1)	U (1)	U (1)	0.39 J (1)	U (1)	U (1)	U (1)
	m,p-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	ortho-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Xylenes (total)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
TOC									
	Inorganic Carbon (total)	---	---	---	---	---	---	---	---
	Organic Carbon (total)	---	---	---	---	---	---	---	---
SVOC									
	1,4-Dioxane	---	U (0.2)	---	---	---	---	---	---

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW11	MW11	MW11	MW11	MW11	MW11	MW11	MW13
	Field Sample ID	MW11-190731	MW11-200810	MW-11-210816	MW-11-220822	MW-11/230807	MW-11/240820	MW-11/250811	MW13-190731
	Lab Sample ID	460-188165-2	460-215716-1	460-241081-2	460-264254-2	620-13201-1	620-20451-1	620-28495-1	460-188165-3
	Sample Method	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	BLADDER PUMP
	Sample Date	7/31/2019	8/10/2020	8/16/2021	8/22/2022	8/7/2023	8/20/2024	8/11/2025	7/31/2019
	Comments								
PFAS [ng/L]									
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		---	---	---	---	---	---	---	---
Perfluorobutanoic acid (PFBA)		---	---	---	---	---	---	---	---
Perfluoropentanoic acid (PFPeA)		---	---	---	---	---	---	---	---
Perfluorohexanoic acid (PFHxA)		---	---	---	---	---	---	---	---
Perfluoroheptanoic acid (PFHpA)		---	---	---	---	---	---	---	---
Perfluorooctanoic acid (PFOA)		---	---	---	---	---	---	---	---
Perfluorononanoic acid (PFNA)		---	---	---	---	---	---	---	---
Perfluorodecanoic acid (PFDA)		---	---	---	---	---	---	---	---
Perfluoroundecanoic acid (PFUnA)		---	---	---	---	---	---	---	---
Perfluorododecanoic acid (PFDoA)		---	---	---	---	---	---	---	---
Perfluorobutanesulfonic acid (PFBS)		---	---	---	---	---	---	---	---
Perfluorohexanesulfonic acid (PFHxS)		---	---	---	---	---	---	---	---
Perfluoroheptanesulfonic acid (PFHpS)		---	---	---	---	---	---	---	---
Perfluorooctanesulfonic acid (PFOS)		---	---	---	---	---	---	---	---
MNA									
Chloride		---	---	---	---	---	---	---	---
Nitrate		---	---	---	---	---	---	---	---
Sulfate		---	---	---	---	---	---	---	---
INORG (Total)									
Calcium		---	---	---	---	---	---	---	---
Magnesium		---	---	---	---	---	---	---	---
Potassium		---	---	---	---	---	---	---	---
Sodium		---	---	---	---	---	---	---	---
INORG (Dissolved)									
Iron		---	---	---	---	---	---	---	---
GEOCHEMICAL									
HYDROGEN (H2) [nM]		---	---	---	---	---	---	---	---
Field Parameters									
Dissolved Oxygen, Field		---	---	3650	4430	1030	1800	90	---
Oxidation Reduction Potential (Field Measured) [mV]		---	---	79	146	82	80	193	---
pH (Field Analysis) [su]		---	---	6.69	7.18	6.71	7.13	7.1	---

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW13	MW13	MW14	MW14	MW14	MW14	MW14	MW14
	Field Sample ID	MW-13-210816	MW-13/230808	MW-14-180731	MW14-190731	MW14-200812	MW-14-210816	MW-14-220822	MW-14/230807
	Lab Sample ID	460-241081-1	620-13200-20	200-44580-4 / 460-161627-4	460-188165-4	460-215822-6	460-241081-3	460-264254-1	620-13201-4
	Sample Method	Bladder Pump	Bladder Pump	Peristaltic Pump	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	8/16/2021	8/8/2023	7/31/2018	7/31/2019	8/12/2020	8/16/2021	8/22/2022	8/7/2023
	Comments								
WQ									
	Alkalinity	---	---	---	---	---	---	---	---
	Total Alkalinity as CaCO3	---	---	---	---	---	---	---	---
	Bicarbonate Alkalinity	---	---	---	---	---	---	---	---
	Bicarbonate as CaCO3	---	---	---	---	---	---	---	---
	Carbonate Alkalinity	---	---	---	---	---	---	---	---
	Chloride	---	---	---	---	---	---	---	---
	Nitrate	---	---	---	---	---	---	---	---
	Sulfate	---	---	---	---	---	---	---	---
VOC									
	Acetone	U (5)	U (10)	U (5)	U (5)	U (5)	U (5)	U (5)	U (10)
	Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Bromodichloromethane	U (1)	U (0.5)	U (1)	U (1)	U (1)	U (1)	U (1)	U (0.5)
	Bromoform	UJ (1)	U (1)	UJ (1)	U (1)	U (1)	UJ (1)	U (1)	U (1)
	2-Butanone	U (5)	U (2)	U (5)	U (5)	U (5)	U (5)	U (5)	U (2)
	Chloroethane	U (1)	U (2)	U (1)	UJ (1)	U (1)	U (1)	U (1)	U (2)
	Chloroform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Chloromethane	0.91 J (1)	U (2)	U (1)	U (1)	U (1)	0.75 J (1)	U (1)	U (2)
	Cumene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Dibromochloromethane	U (1)	U (0.5)	U (1)	U (1)	U (1)	U (1)	U (1)	U (0.5)
	1,1-Dichloroethane	U (1)	U (1)	4.8 (1)	**6.3 (1)**	4.9 (1)	**5.7 (1)**	**6.9 (1)**	4.9 (1)
	1,2-Dichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethene	U (1)	U (1)	1.8 (1)	1.6 (1)	1.1 (1)	1.2 (1)	1.5 (1)	0.44 J (1)
	cis-1,2-Dichloroethene	0.93 J (1)	0.54 J (1)	**66 (1)**	**52 (1)**	**39 (1)**	**39 (1)**	**57 (1)**	**42 (1)**
	trans-1,2-Dichloroethene	U (1)	U (1)	0.33 J (1)	0.36 J (1)	0.27 J (1)	0.47 J (1)	0.79 J (1)	0.43 J (1)
	1,4-Dioxane	U (50)	---	---	U (50)	---	U (50)	U (50)	---
	Ethanol	---	U (200)	---	---	---	---	---	U (200)
	Ethyl Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone	U (5)	U (2)	U (5)	U (5)	U (5)	U (5)	U (5)	U (2)
	Methylene Chloride	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)
	Tetrachloroethene	1.5 (1)	1 * (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Toluene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,1-Trichloroethane	U (1)	U (1)	1 (1)	2.8 (1)	0.6 J (1)	0.47 J (1)	U (1)	U (1)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Trichloroethene	**18 (1)**	**11 (1)**	**9.4 (1)**	**16 (1)**	**13 (1)**	**14 (1)**	**16 (1)**	**19 (1)**
	Trichlorofluoromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Vinyl Chloride	U (1)	U (1)	**9.1 (1)**	**13 (1)**	**15 (1)**	**26 (1)**	**24 (1)**	**9.1 (1)**
	m,p-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	ortho-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Xylenes (total)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
TOC									
	Inorganic Carbon (total)	---	---	---	---	---	---	---	---
	Organic Carbon (total)	---	---	---	---	---	---	---	---
SVOC									
	1,4-Dioxane	---	---	7.5 (0.2)	---	12 (0.2)	---	---	---

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

Location	MW13	MW13	MW14	MW14	MW14	MW14	MW14	MW14
Field Sample ID	MW-13-210816	MW-13/230808	MW-14-180731	MW14-190731	MW14-200812	MW-14-210816	MW-14-220822	MW-14/230807
Lab Sample ID	460-241081-1	620-13200-20	200-44580-4 / 460-161627-4	460-188165-4	460-215822-6	460-241081-3	460-264254-1	620-13201-4
Sample Method	Bladder Pump	Bladder Pump	Peristaltic Pump	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
Sample Date	8/16/2021	8/8/2023	7/31/2018	7/31/2019	8/12/2020	8/16/2021	8/22/2022	8/7/2023
Comments								
PFAS [ng/L]								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	U (17.5)	---	---	---	---	---
Perfluorobutanoic acid (PFBA)	---	---	40.5 (1.75)	---	---	---	---	---
Perfluoropentanoic acid (PFPeA)	---	---	3.67 (1.75)	---	---	---	---	---
Perfluorohexanoic acid (PFHxA)	---	---	1.88 (1.75)	---	---	---	---	---
Perfluoroheptanoic acid (PFHpA)	---	---	0.35 J (1.75)	---	---	---	---	---
Perfluorooctanoic acid (PFOA)	---	---	0.96 JB (1.75)	---	---	---	---	---
Perfluorononanoic acid (PFNA)	---	---	U (1.75)	---	---	---	---	---
Perfluorodecanoic acid (PFDA)	---	---	U (1.75)	---	---	---	---	---
Perfluoroundecanoic acid (PFUnA)	---	---	0.29 J (1.75)	---	---	---	---	---
Perfluorododecanoic acid (PFDoA)	---	---	U (1.75)	---	---	---	---	---
Perfluorobutanesulfonic acid (PFBS)	---	---	1.13 J (1.75)	---	---	---	---	---
Perfluorohexanesulfonic acid (PFHxS)	---	---	0.45 J (1.75)	---	---	---	---	---
Perfluoroheptanesulfonic acid (PFHpS)	---	---	U (1.75)	---	---	---	---	---
Perfluorooctanesulfonic acid (PFOS)	---	---	U (1.75)	---	---	---	---	---
MNA								
Chloride	---	---	---	---	---	---	---	---
Nitrate	---	---	---	---	---	---	---	---
Sulfate	---	---	---	---	---	---	---	---
INORG (Total)								
Calcium	---	---	---	---	---	---	---	---
Magnesium	---	---	---	---	---	---	---	---
Potassium	---	---	---	---	---	---	---	---
Sodium	---	---	---	---	---	---	---	---
INORG (Dissolved)								
Iron	---	---	---	---	---	---	---	---
GEOCHEMICAL								
HYDROGEN (H2) [nM]	---	---	---	---	---	---	---	---
Field Parameters								
Dissolved Oxygen, Field	1070	---	---	---	---	440	---	---
Oxidation Reduction Potential (Field Measured) [mV]	252	---	---	---	---	-50	---	---
pH (Field Analysis) [su]	5.45	---	---	---	---	5.41	7.33	---

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW14	MW17	MW17	MW17	MW17	MW17	MW17	MW17
	Field Sample ID	MW-14/240820	MW-17-180802	MW17-190730	MW17-200810	MW-17-210817	MW-17-220822	MW-17/230807	MW-17/240820
	Lab Sample ID	620-20451-3	460-161923-2	460-187954-3	460-215716-2	460-241081-6	460-264254-3	620-13201-2	620-20451-2
	Sample Method	Bladder Pump	Peristaltic Pump	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	8/20/2024	8/2/2018	7/30/2019	8/10/2020	8/17/2021	8/22/2022	8/7/2023	8/20/2024
	Comments								
WQ									
	Alkalinity	---	---	---	---	---	---	---	---
	Total Alkalinity as CaCO3	---	---	---	---	---	---	---	---
	Bicarbonate Alkalinity	---	---	---	---	---	---	---	---
	Bicarbonate as CaCO3	---	---	---	---	---	---	---	---
	Carbonate Alkalinity	---	---	---	---	---	---	---	---
	Chloride	---	---	---	---	---	---	---	---
	Nitrate	---	---	---	---	---	---	---	---
	Sulfate	---	---	---	---	---	---	---	---
VOC									
	Acetone	U (10)	U (5)	U (5)	U (5)	U (5)	U (5)	U (10)	U (10)
	Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Bromodichloromethane	U (0.5)	U (1)	U (1)	U (1)	U (1)	U (1)	U (0.5)	U (0.5)
	Bromoform	U (1)	U (1)	U (1)	U (1)	UJ (1)	U (1)	U (1)	U (1)
	2-Butanone	U (2)	U (5)	U (5)	U (5)	U (5)	U (5)	U (2)	U (2)
	Chloroethane	UJ (2)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	UJ (2)
	Chloroform	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Chloromethane	UJ (2)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	UJ (2)
	Cumene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Dibromochloromethane	U (0.5)	U (1)	U (1)	U (1)	U (1)	U (1)	U (0.5)	U (0.5)
	1,1-Dichloroethane	**9.7 (1)**	U (1)	U (1)	U (1)	U (1)	0.31 J (1)	U (1)	U (1)
	1,2-Dichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1-Dichloroethene	0.85 J (1)	0.39 J (1)	1.2 (1)	1.4 (1)	0.9 J (1)	0.58 J (1)	1.6 (1)	1.5 (1)
	cis-1,2-Dichloroethene	**84 (1)**	**7.3 (1)**	**28 (1)**	**48 (1)**	**32 (1)**	**94 (1)**	**85 (1)**	**65 (1)**
	trans-1,2-Dichloroethene	1 (1)	0.57 J (1)	1.8 (1)	2.4 (1)	1.2 (1)	3.8 (1)	3.3 (1)	2.5 (1)
	1,4-Dioxane	---	U (50)	U (50)	---	U (50)	U (50)	---	---
	Ethanol	UJ (200)	---	---	---	---	---	U (200)	UJ (200)
	Ethyl Benzene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone	U (2)	U (5)	U (5)	U (5)	U (5)	U (5)	U (2)	U (2)
	Methylene Chloride	U (2)	U (1)	U (1)	U (1)	U (1)	U (1)	U (2)	U (2)
	Tetrachloroethene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Toluene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	1,1,1-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	0.7 J (1)	1.5 (1)
	1,1,2-Trichloroethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Trichloroethene	**21 (1)**	**100 (1)**	**350 (1)**	**280 (1)**	**150 (1)**	**21 (1)**	**220 (10)**	**230 (10)**
	Trichlorofluoromethane	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Vinyl Chloride	**42 (1)**	U (1)	**2.4 (1)**	**4.1 (1)**	**2.7 (1)**	**5.2 (1)**	**4.7 (1)**	**6.3 (1)**
	m,p-xylene	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	ortho-xylene	U (1)	0.83 J (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
	Xylenes (total)	U (1)	0.83 J (1)	U (1)	U (1)	U (1)	U (1)	U (10)	U (10)
TOC									
	Inorganic Carbon (total)	---	---	---	---	---	---	---	---
	Organic Carbon (total)	---	---	---	---	---	---	---	---
SVOC									
	1,4-Dioxane	---	---	---	0.85 (0.2)	---	---	---	---

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW14	MW17	MW17	MW17	MW17	MW17	MW17	MW17
	Field Sample ID	MW-14/240820	MW-17-180802	MW17-190730	MW17-200810	MW-17-210817	MW-17-220822	MW-17/230807	MW-17/240820
	Lab Sample ID	620-20451-3	460-161923-2	460-187954-3	460-215716-2	460-241081-6	460-264254-3	620-13201-2	620-20451-2
	Sample Method	Bladder Pump	Peristaltic Pump	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	8/20/2024	8/2/2018	7/30/2019	8/10/2020	8/17/2021	8/22/2022	8/7/2023	8/20/2024
	Comments								
PFAS [ng/L]									
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	---	---	---	---
	Perfluorobutanoic acid (PFBA)	---	---	---	---	---	---	---	---
	Perfluoropentanoic acid (PFPeA)	---	---	---	---	---	---	---	---
	Perfluorohexanoic acid (PFHxA)	---	---	---	---	---	---	---	---
	Perfluoroheptanoic acid (PFHpA)	---	---	---	---	---	---	---	---
	Perfluorooctanoic acid (PFOA)	---	---	---	---	---	---	---	---
	Perfluorononanoic acid (PFNA)	---	---	---	---	---	---	---	---
	Perfluorodecanoic acid (PFDA)	---	---	---	---	---	---	---	---
	Perfluoroundecanoic acid (PFUnA)	---	---	---	---	---	---	---	---
	Perfluorododecanoic acid (PFDoA)	---	---	---	---	---	---	---	---
	Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	---	---	---	---
	Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	---	---	---	---
	Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	---	---	---	---
	Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	---	---	---	---
MNA									
	Chloride	---	---	---	---	---	---	---	---
	Nitrate	---	---	---	---	---	---	---	---
	Sulfate	---	---	---	---	---	---	---	---
INORG (Total)									
	Calcium	---	---	---	---	---	---	---	---
	Magnesium	---	---	---	---	---	---	---	---
	Potassium	---	---	---	---	---	---	---	---
	Sodium	---	---	---	---	---	---	---	---
INORG (Dissolved)									
	Iron	---	---	---	---	---	---	---	---
GEOCHEMICAL									
	HYDROGEN (H2) [nM]	---	---	---	---	---	---	---	---
Field Parameters									
	Dissolved Oxygen, Field	0	---	---	---	3820	5060	1020	310
	Oxidation Reduction Potential (Field Measured) [mV]	-44	---	---	---	112	145	-9	108
	pH (Field Analysis) [su]	7.5	---	---	---	6.29	5.73	6.68	7.21

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW17	MW18	MW18	MW18	MW18	MW18	MW18	MW18
	Field Sample ID	MW-17/250811	MW-18-180730	DUP-180730	MW18-190731	MW18-200813	MW-18-210818	MW-18-220825	MW-18/230808
	Lab Sample ID	620-28577-1	200-44580-1 / 460-161627-1	200-44580-2 / 460-161627-2	460-187954-7	460-215912-5	460-241230-4	460-264457-1	620-13200-7
	Sample Method	Bladder Pump	Peristaltic Pump	Peristaltic Pump	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	8/11/2025	7/30/2018	7/30/2018	7/31/2019	8/13/2020	8/18/2021	8/25/2022	8/8/2023
	Comments			Field Duplicate					
WQ									
	Alkalinity	---	---	---	---	---	---	---	---
	Total Alkalinity as CaCO3	---	---	---	---	---	---	---	---
	Bicarbonate Alkalinity	---	---	---	---	---	---	---	---
	Bicarbonate as CaCO3	---	---	---	---	---	---	---	---
	Carbonate Alkalinity	---	---	---	---	---	---	---	---
	Chloride	---	---	---	---	---	---	---	---
	Nitrate	---	---	---	---	---	---	---	---
	Sulfate	---	---	---	---	---	---	---	---
VOC									
	Acetone	U (10)	U (50)	U (130)	U (50)	U (50)	U (50)	U (50)	U (10)
	Benzene	U (1)	U (10)	U (25)	U (10)	U (10)	U (10)	U (10)	U (1)
	Bromodichloromethane	U (0.5)	U (10)	U (25)	U (10)	U (10)	U (10)	U (10)	U (0.5)
	Bromoform	U (1)	U (10)	UJ (25)	U (10)	U (10)	U (10)	U (10)	U (1)
	2-Butanone	U (2)	U (50)	U (130)	U (50)	U (50)	U (50)	U (50)	U (2)
	Chloroethane	U (2)	U (10)	U (25)	U (10)	U (10)	U (10)	U (10)	U (2)
	Chloroform	U (1)	U (10)	U (25)	U (10)	U (10)	U (10)	U (10)	U (1)
	Chloromethane	U (2)	U (10)	U (25)	U (10)	U (10)	U (10)	U (10)	U (2)
	Cumene	U (1)	U (10)	U (25)	U (10)	U (10)	U (10)	U (10)	U (1)
	Dibromochloromethane	U (0.5)	U (10)	U (25)	U (10)	U (10)	U (10)	U (10)	U (0.5)
	1,1-Dichloroethane	U (1)	**38 J (10)**	**83 J (25)**	**21 (10)**	**15 (10)**	**9.7 J (10)**	**28 (10)**	3.8 (1)
	1,2-Dichloroethane	U (1)	U (10)	U (25)	U (10)	U (10)	U (10)	U (10)	U (1)
	1,1-Dichloroethene	2.2 (1)	**18 J (10)**	**34 J (25)**	**21 (10)**	**32 (10)**	**21 (10)**	**37 (10)**	1.9 (1)
	cis-1,2-Dichloroethene	**97 (1)**	**25 J (10)**	**45 J (25)**	**180 (10)**	**230 (10)**	**160 (10)**	**270 (10)**	**78 (1)**
	trans-1,2-Dichloroethene	3.3 (1)	U (10)	U (25)	U (10)	U (10)	U (10)	U (10)	0.33 J (1)
	1,4-Dioxane	---	---	---	U (500)	---	U (500)	U (500)	---
	Ethanol	U (200)	---	---	---	---	---	---	U (200)
	Ethyl Benzene	U (1)	U (10)	U (25)	U (10)	U (10)	U (10)	U (10)	U (1)
	4-Methyl-2-pentanone	U (2)	U (50)	U (130)	U (50)	U (50)	U (50)	U (50)	U (2)
	Methylene Chloride	U (2)	U (10)	U (25)	U (10)	U (10)	U (10)	U (10)	U (2)
	Tetrachloroethene	U (1)	**13 (10)**	**20 J (25)**	**32 (10)**	**41 (10)**	**28 (10)**	**28 (10)**	**5.9 * (1)**
	Toluene	U (1)	U (10)	U (25)	U (10)	U (10)	U (10)	U (10)	U (1)
	1,1,1-Trichloroethane	0.94 J (1)	**380 J (10)**	**610 J (25)**	**430 (10)**	**820 (10)**	**390 (10)**	**540 (10)**	**47 (1)**
	1,1,2-Trichloroethane	U (1)	U (10)	U (25)	U (10)	U (10)	U (10)	U (10)	U (1)
	Trichloroethene	**220 (10)**	**2600 J (10)**	**4300 J (25)**	**3900 (10)**	**4900 (10)**	**3000 (10)**	**2900 (10)**	**470 (20)**
	Trichlorofluoromethane	U (1)	U (10)	U (25)	U (10)	UJ (10)	U (10)	U (10)	U (1)
	Vinyl Chloride	**10 (1)**	U (10)	U (25)	**2.8 J (10)**	U (10)	U (10)	U (10)	U (1)
	m,p-xylene	U (1)	U (10)	U (25)	U (10)	U (10)	U (10)	U (10)	U (1)
	ortho-xylene	U (1)	U (10)	U (25)	U (10)	U (10)	U (10)	U (10)	U (1)
	Xylenes (total)	U (10)	U (10)	U (25)	U (10)	U (10)	U (10)	U (10)	U (20)
TOC									
	Inorganic Carbon (total)	---	---	---	---	---	---	---	---
	Organic Carbon (total)	---	---	---	---	---	---	---	---
SVOC									
	1,4-Dioxane	---	7.8 (1)	9.1 (1)	---	19 (0.2)	---	---	---

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW17	MW18	MW18	MW18	MW18	MW18	MW18	MW18
	Field Sample ID	MW-17/250811	MW-18-180730	DUP-180730	MW18-190731	MW18-200813	MW-18-210818	MW-18-220825	MW-18/230808
	Lab Sample ID	620-28577-1	200-44580-1 / 460-161627-1	200-44580-2 / 460-161627-2	460-187954-7	460-215912-5	460-241230-4	460-264457-1	620-13200-7
	Sample Method	Bladder Pump	Peristaltic Pump	Peristaltic Pump	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	8/11/2025	7/30/2018	7/30/2018	7/31/2019	8/13/2020	8/18/2021	8/25/2022	8/8/2023
	Comments			Field Duplicate					
PFAS [ng/L]									
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		---	U (89.3)	U (89.7)	---	---	---	---	---
Perfluorobutanoic acid (PFBA)		---	498 (8.93)	496 (8.97)	---	---	---	---	---
Perfluoropentanoic acid (PFPeA)		---	24 (8.93)	23.6 (8.97)	---	---	---	---	---
Perfluorohexanoic acid (PFHxA)		---	4.86 J (8.93)	23 (8.97)	---	---	---	---	---
Perfluoroheptanoic acid (PFHpA)		---	3.88 J (8.93)	7.63 J (8.97)	---	---	---	---	---
Perfluorooctanoic acid (PFOA)		---	30.2 B (17.9)	23.6 B (17.9)	---	---	---	---	---
Perfluorononanoic acid (PFNA)		---	2.16 J (8.93)	1.79 J (8.97)	---	---	---	---	---
Perfluorodecanoic acid (PFDA)		---	U (8.93)	U (8.97)	---	---	---	---	---
Perfluoroundecanoic acid (PFUnA)		---	U (8.93)	U (8.97)	---	---	---	---	---
Perfluorododecanoic acid (PFDoA)		---	U (8.93)	U (8.97)	---	---	---	---	---
Perfluorobutanesulfonic acid (PFBS)		---	38.6 (8.93)	51.5 (8.97)	---	---	---	---	---
Perfluorohexanesulfonic acid (PFHxS)		---	U (8.93)	1.97 J (8.97)	---	---	---	---	---
Perfluoroheptanesulfonic acid (PFHpS)		---	U (8.93)	U (8.97)	---	---	---	---	---
Perfluorooctanesulfonic acid (PFOS)		---	7.43 J (8.93)	5.45 J (8.97)	---	---	---	---	---
MNA									
Chloride		---	---	---	---	---	---	---	---
Nitrate		---	---	---	---	---	---	---	---
Sulfate		---	---	---	---	---	---	---	---
INORG (Total)									
Calcium		---	---	---	---	---	---	---	---
Magnesium		---	---	---	---	---	---	---	---
Potassium		---	---	---	---	---	---	---	---
Sodium		---	---	---	---	---	---	---	---
INORG (Dissolved)									
Iron		---	---	---	---	---	---	---	---
GEOCHEMICAL									
HYDROGEN (H2) [nM]		---	---	---	---	---	---	---	---
Field Parameters									
Dissolved Oxygen, Field		310	---	---	---	---	1180	5930	5280
Oxidation Reduction Potential (Field Measured) [mV]		-8	---	---	---	---	40	150	121
pH (Field Analysis) [su]		6.97	---	---	---	---	7.1	7.27	7.37

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW18	MW18	MW19	MW19	MW19	MW19	MW19	MW19
	Field Sample ID	MW-18/240822	MW-18/250813	MW-19-180802	MW19-190730	MW19-200813	MW-19-210819	MW-19-220823	MW-19/230809
	Lab Sample ID	620-20507-2	620-28577-3	460-161923-4	460-187954-2	460-215912-3	460-241230-3	460-264343-1	620-13227-4
	Sample Method	Bladder Pump	Bladder Pump	Peristaltic Pump	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	8/22/2024	8/13/2025	8/2/2018	7/30/2019	8/13/2020	8/19/2021	8/23/2022	8/9/2023
	Comments								
WQ									
	Alkalinity	---	---	---	---	---	---	---	---
	Total Alkalinity as CaCO3	---	---	---	---	---	---	---	---
	Bicarbonate Alkalinity	---	---	---	---	---	---	---	---
	Bicarbonate as CaCO3	---	---	---	---	---	---	---	---
	Carbonate Alkalinity	---	---	---	---	---	---	---	---
	Chloride	---	---	---	---	---	---	---	---
	Nitrate	---	---	---	---	---	---	---	---
	Sulfate	---	---	---	---	---	---	---	---
VOC									
	Acetone	UJ (10)	U (10)	U (10)	U (25)	U (10)	U (5)	6 (5)	U (10)
	Benzene	U (1)	U (1)	U (2)	U (5)	U (2)	U (1)	U (1)	U (1)
	Bromodichloromethane	U (0.5)	U (0.5)	U (2)	U (5)	U (2)	U (1)	U (1)	U (0.5)
	Bromoform	U (1)	U (1)	U (2)	U (5)	U (2)	U (1)	U (1)	U (1)
	2-Butanone	UJ (2)	U (2)	U (10)	U (25)	U (10)	U (5)	U (5)	U (2)
	Chloroethane	UJ (2)	U (2)	U (2)	U (5)	U (2)	U (1)	U (1)	U (2)
	Chloroform	U (1)	U (1)	U (2)	U (5)	U (2)	0.35 J (1)	0.59 J (1)	U (1)
	Chloromethane	UJ (2)	U (2)	U (2)	U (5)	U (2)	U (1)	U (1)	U (2)
	Cumene	U (1)	U (1)	U (2)	U (5)	U (2)	U (1)	U (1)	U (1)
	Dibromochloromethane	U (0.5)	U (0.5)	U (2)	U (5)	U (2)	U (1)	U (1)	U (0.5)
	1,1-Dichloroethane	**6 (1)**	**13 (1)**	**20 (2)**	**16 J+ (5)**	**14 (2)**	**8.4 (1)**	**11 (1)**	**10 (1)**
	1,2-Dichloroethane	U (1)	U (1)	U (2)	U (5)	U (2)	U (1)	U (1)	U (1)
	1,1-Dichloroethene	**20 (1)**	**23 (1)**	3.4 (2)	**7 J+ (5)**	3.4 (2)	1.2 (1)	1.2 (1)	1.5 (1)
	cis-1,2-Dichloroethene	**130 (25)**	**95 (1)**	**240 (2)**	**1000 (5)**	**820 (2)**	**280 (1)**	**200 (1)**	**190 (10)**
	trans-1,2-Dichloroethene	0.77 J (1)	1 (1)	0.71 J (2)	2.1 J (5)	1.7 J (2)	0.63 J (1)	1 (1)	1.2 (1)
	1,4-Dioxane	---	---	U (100)	U (250)	---	U (50)	U (50)	---
	Ethanol	UJ (200)	U (200)	---	---	---	---	---	U (200)
	Ethyl Benzene	U (1)	U (1)	U (2)	U (5)	U (2)	U (1)	U (1)	U (1)
	4-Methyl-2-pentanone	U (2)	U (2)	U (10)	U (25)	U (10)	U (5)	U (5)	U (2)
	Methylene Chloride	U (2)	U (2)	U (2)	U (5)	U (2)	U (1)	U (1)	U (2)
	Tetrachloroethene	**61 (1)**	**45 (1)**	**14 (2)**	4.7 J (5)	**7.2 (2)**	0.79 J (1)	2.6 (1)	2.3 (1)
	Toluene	U (1)	U (1)	U (2)	U (5)	U (2)	U (1)	U (1)	U (1)
	1,1,1-Trichloroethane	**380 (25)**	**330 (50)**	**150 (2)**	**120 J+ (5)**	**100 (2)**	**32 (1)**	**54 (1)**	**31 (1)**
	1,1,2-Trichloroethane	U (1)	U (1)	U (2)	U (5)	U (2)	U (1)	U (1)	U (1)
	Trichloroethene	**2100 (25)**	**1700 (50)**	**570 (2)**	**130 (5)**	**190 (2)**	**14 (1)**	**54 (1)**	**18 (1)**
	Trichlorofluoromethane	UJ (1)	U (1)	U (2)	U (5)	UJ (2)	U (1)	U (1)	U (1)
	Vinyl Chloride	1.3 (1)	U (1)	U (2)	U (5)	**5.2 (2)**	1.3 (1)	**27 (1)**	0.68 J (1)
	m,p-xylene	U (1)	U (1)	U (2)	U (5)	U (2)	U (1)	U (1)	U (1)
	ortho-xylene	U (1)	U (1)	U (2)	U (5)	U (2)	U (1)	U (1)	U (1)
	Xylenes (total)	U (25)	U (50)	U (2)	U (5)	U (2)	U (1)	U (1)	U (10)
TOC									
	Inorganic Carbon (total)	---	---	---	---	---	---	---	---
	Organic Carbon (total)	---	---	---	---	---	---	---	---
SVOC									
	1,4-Dioxane	---	---	---	---	7.3 (0.2)	---	---	---

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW18	MW18	MW19	MW19	MW19	MW19	MW19	MW19
	Field Sample ID	MW-18/240822	MW-18/250813	MW-19-180802	MW19-190730	MW19-200813	MW-19-210819	MW-19-220823	MW-19/230809
	Lab Sample ID	620-20507-2	620-28577-3	460-161923-4	460-187954-2	460-215912-3	460-241230-3	460-264343-1	620-13227-4
	Sample Method	Bladder Pump	Bladder Pump	Peristaltic Pump	BLADDER PUMP	Bladder Pump	Bladder Pump	Bladder Pump	Bladder Pump
	Sample Date	8/22/2024	8/13/2025	8/2/2018	7/30/2019	8/13/2020	8/19/2021	8/23/2022	8/9/2023
	Comments								
PFAS [ng/L]									
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---	---	---	---	---	---	---
	Perfluorobutanoic acid (PFBA)	---	---	---	---	---	---	---	---
	Perfluoropentanoic acid (PFPeA)	---	---	---	---	---	---	---	---
	Perfluorohexanoic acid (PFHxA)	---	---	---	---	---	---	---	---
	Perfluoroheptanoic acid (PFHpA)	---	---	---	---	---	---	---	---
	Perfluorooctanoic acid (PFOA)	---	---	---	---	---	---	---	---
	Perfluorononanoic acid (PFNA)	---	---	---	---	---	---	---	---
	Perfluorodecanoic acid (PFDA)	---	---	---	---	---	---	---	---
	Perfluoroundecanoic acid (PFUnA)	---	---	---	---	---	---	---	---
	Perfluorododecanoic acid (PFDoA)	---	---	---	---	---	---	---	---
	Perfluorobutanesulfonic acid (PFBS)	---	---	---	---	---	---	---	---
	Perfluorohexanesulfonic acid (PFHxS)	---	---	---	---	---	---	---	---
	Perfluoroheptanesulfonic acid (PFHpS)	---	---	---	---	---	---	---	---
	Perfluorooctanesulfonic acid (PFOS)	---	---	---	---	---	---	---	---
MNA									
	Chloride	---	---	---	---	---	---	---	---
	Nitrate	---	---	---	---	---	---	---	---
	Sulfate	---	---	---	---	---	---	---	---
INORG (Total)									
	Calcium	---	---	---	---	---	---	---	---
	Magnesium	---	---	---	---	---	---	---	---
	Potassium	---	---	---	---	---	---	---	---
	Sodium	---	---	---	---	---	---	---	---
INORG (Dissolved)									
	Iron	---	---	---	---	---	---	---	---
GEOCHEMICAL									
	HYDROGEN (H2) [nM]	---	---	---	---	---	---	---	---
Field Parameters									
	Dissolved Oxygen, Field	1010	4530	---	---	---	830	1630	880
	Oxidation Reduction Potential (Field Measured) [mV]	233	134	---	---	---	-149	220	-156
	pH (Field Analysis) [su]	7.99	7.47	---	---	---	7.04	5.73	6.6

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW19	MW19
	Field Sample ID	MW-19/240822	MW-19/250813
	Lab Sample ID	620-20507-1	620-28577-2
	Sample Method	Bladder Pump	Bladder Pump
	Sample Date	8/22/2024	8/13/2025
	Comments		
WQ			
	Alkalinity	---	---
	Total Alkalinity as CaCO3	---	---
	Bicarbonate Alkalinity	---	---
	Bicarbonate as CaCO3	---	---
	Carbonate Alkalinity	---	---
	Chloride	---	---
	Nitrate	---	---
	Sulfate	---	---
VOC			
	Acetone	UJ (10)	UJ (10)
	Benzene	U (1)	U (1)
	Bromodichloromethane	U (0.5)	UJ (0.5)
	Bromoform	U (1)	U (1)
	2-Butanone	UJ (2)	U (2)
	Chloroethane	UJ (2)	U (2)
	Chloroform	U (1)	U (1)
	Chloromethane	UJ (2)	U (2)
	Cumene	U (1)	U (1)
	Dibromochloromethane	U (0.5)	U (0.5)
	1,1-Dichloroethane	2.2 (1)	**5.3 J- (1)**
	1,2-Dichloroethane	U (1)	UJ (1)
	1,1-Dichloroethene	U (1)	0.54 J (1)
	cis-1,2-Dichloroethene	**38 (1)**	**80 (1)**
	trans-1,2-Dichloroethene	0.29 J (1)	0.43 J (1)
	1,4-Dioxane	---	---
	Ethanol	UJ (200)	U (200)
	Ethyl Benzene	U (1)	U (1)
	4-Methyl-2-pentanone	U (2)	U (2)
	Methylene Chloride	U (2)	U (2)
	Tetrachloroethene	4.3 (1)	**5.2 (1)**
	Toluene	U (1)	U (1)
	1,1,1-Trichloroethane	**20 (1)**	**41 (1)**
	1,1,2-Trichloroethane	U (1)	U (1)
	Trichloroethene	**66 (1)**	**80 (1)**
	Trichlorofluoromethane	UJ (1)	U (1)
	Vinyl Chloride	U (1)	0.39 J (1)
	m,p-xylene	U (1)	U (1)
	ortho-xylene	U (1)	U (1)
	Xylenes (total)	U (1)	U (1)
TOC			
	Inorganic Carbon (total)	---	---
	Organic Carbon (total)	---	---
SVOC			
	1,4-Dioxane	---	---

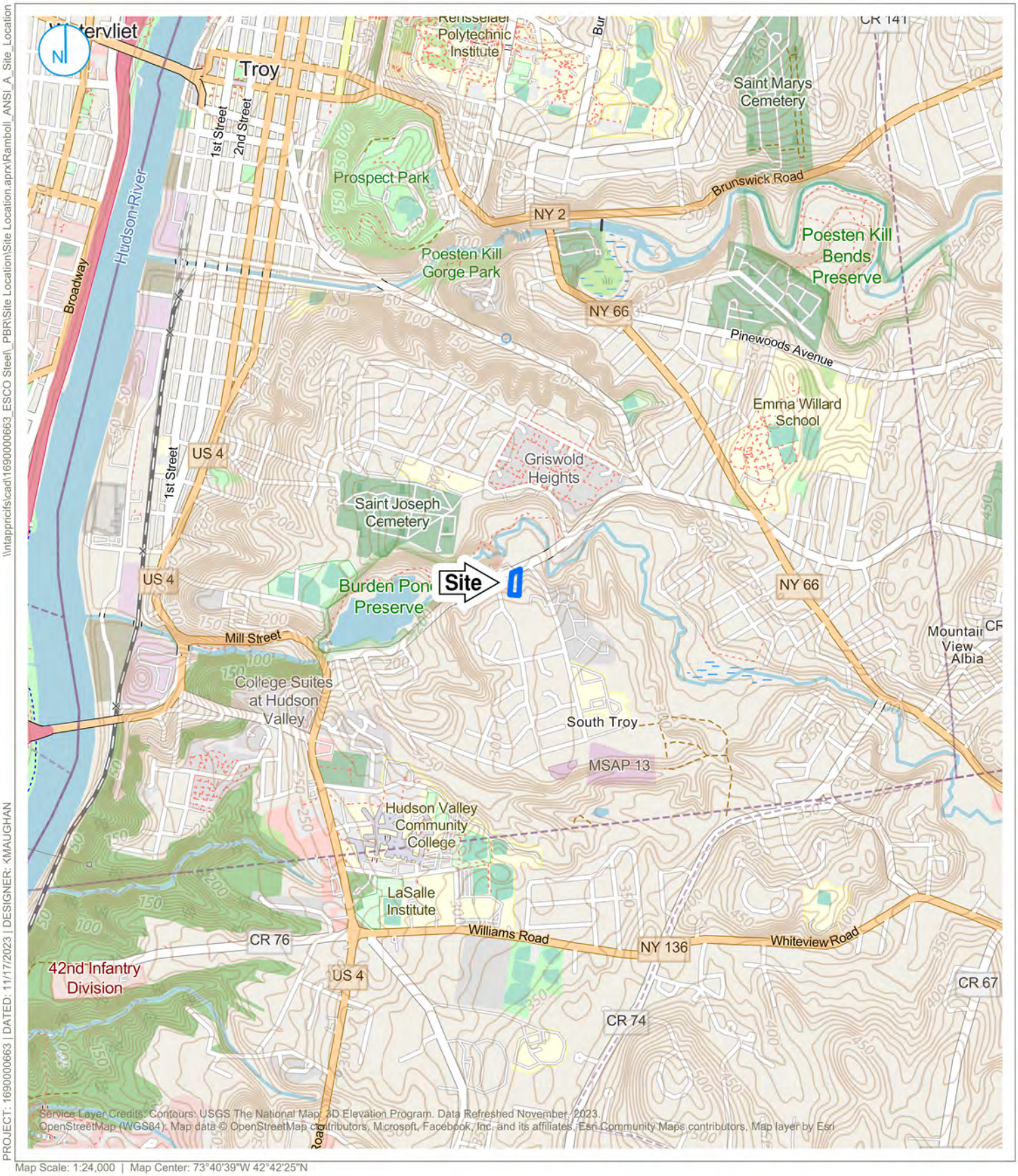
Table 2
Cumulative Groundwater Sampling Results
ESCO Steel Treaters; Troy, NY

	Location	MW19	MW19
	Field Sample ID	MW-19/240822	MW-19/250813
	Lab Sample ID	620-20507-1	620-28577-2
	Sample Method	Bladder Pump	Bladder Pump
	Sample Date	8/22/2024	8/13/2025
	Comments		
PFAS [ng/L]			
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	---	---
	Perfluorobutanoic acid (PFBA)	---	---
	Perfluoropentanoic acid (PFPeA)	---	---
	Perfluorohexanoic acid (PFHxA)	---	---
	Perfluoroheptanoic acid (PFHpA)	---	---
	Perfluorooctanoic acid (PFOA)	---	---
	Perfluorononanoic acid (PFNA)	---	---
	Perfluorodecanoic acid (PFDA)	---	---
	Perfluoroundecanoic acid (PFUnA)	---	---
	Perfluorododecanoic acid (PFDoA)	---	---
	Perfluorobutanesulfonic acid (PFBS)	---	---
	Perfluorohexanesulfonic acid (PFHxS)	---	---
	Perfluoroheptanesulfonic acid (PFHpS)	---	---
	Perfluorooctanesulfonic acid (PFOS)	---	---
MNA			
	Chloride	---	---
	Nitrate	---	---
	Sulfate	---	---
INORG (Total)			
	Calcium	---	---
	Magnesium	---	---
	Potassium	---	---
	Sodium	---	---
INORG (Dissolved)			
	Iron	---	---
GEOCHEMICAL			
	HYDROGEN (H2) [nM]	---	---
Field Parameters			
	Dissolved Oxygen, Field	860	0
	Oxidation Reduction Potential (Field Measured) [mV]	151	143
	pH (Field Analysis) [su]	7.43	6.99

Notes:
1 All concentrations are presented in ug/L (ppb) unless otherwise noted.
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the NY Fresh Groundwater (GA) Standards are **boldfaced**.

Abbreviations:
U -- Not Detected.
n -- The lab does not hold NELAP/TNI accreditation for this method or analyte.
J -- Estimated Concentration.
B -- Analyte was found in associated blank.
H -- Sample was prepped or analyzed beyond specified holding time.
* -- LCS or LCSD is outside acceptance limits
+ -- Biased High.
- -- Biased Low.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

FIGURES



\\tapprnclfs\cad\1690000663_ESCO Steel_PBR\Site Location\Site Location.aprx\Ramboll_ANSI_A_Site_Location

PROJECT: 1690000663 | DATED: 11/17/2023 | DESIGNER: KMAUGHAN

Map Scale: 1:24,000 | Map Center: 73°40'39"W 42°42'25"N

KEY MAP (not to scale)

PROPERTY BOUNDARY

0 1,000 2,000 Feet

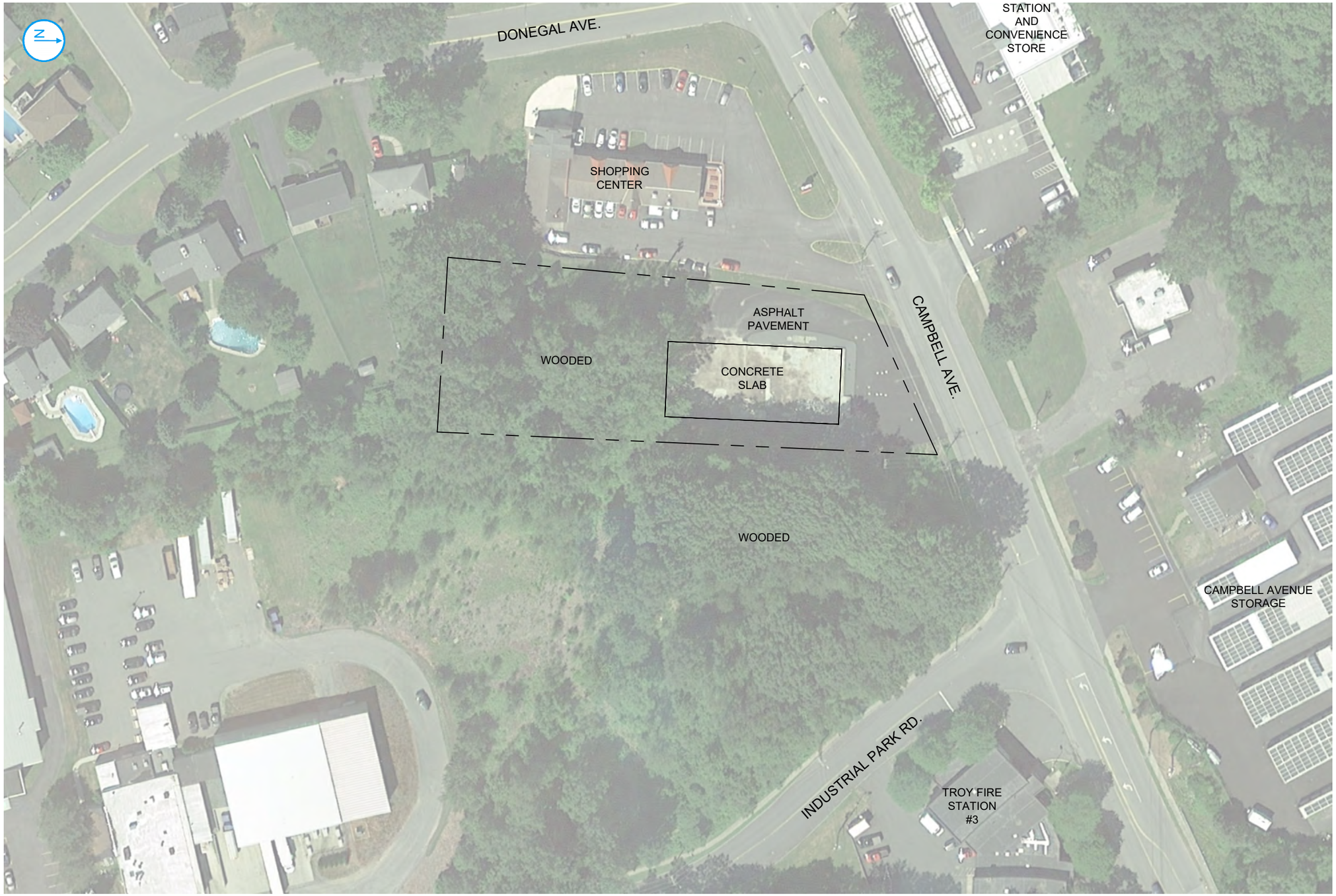
SITE LOCATION

ESCO STEEL
520 CAMPBELL AVENUE
CITY OF TROY, NEW YORK

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL



SOURCE: GOOGLE EARTH AERIAL IMAGERY DATED 6/25/2018.

0 80 Feet

SITE LAYOUT MAP

ESCO STEEL
520 CAMPBELL AVENUE
CITY OF TROY, NEW YORK

FIGURE 2

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

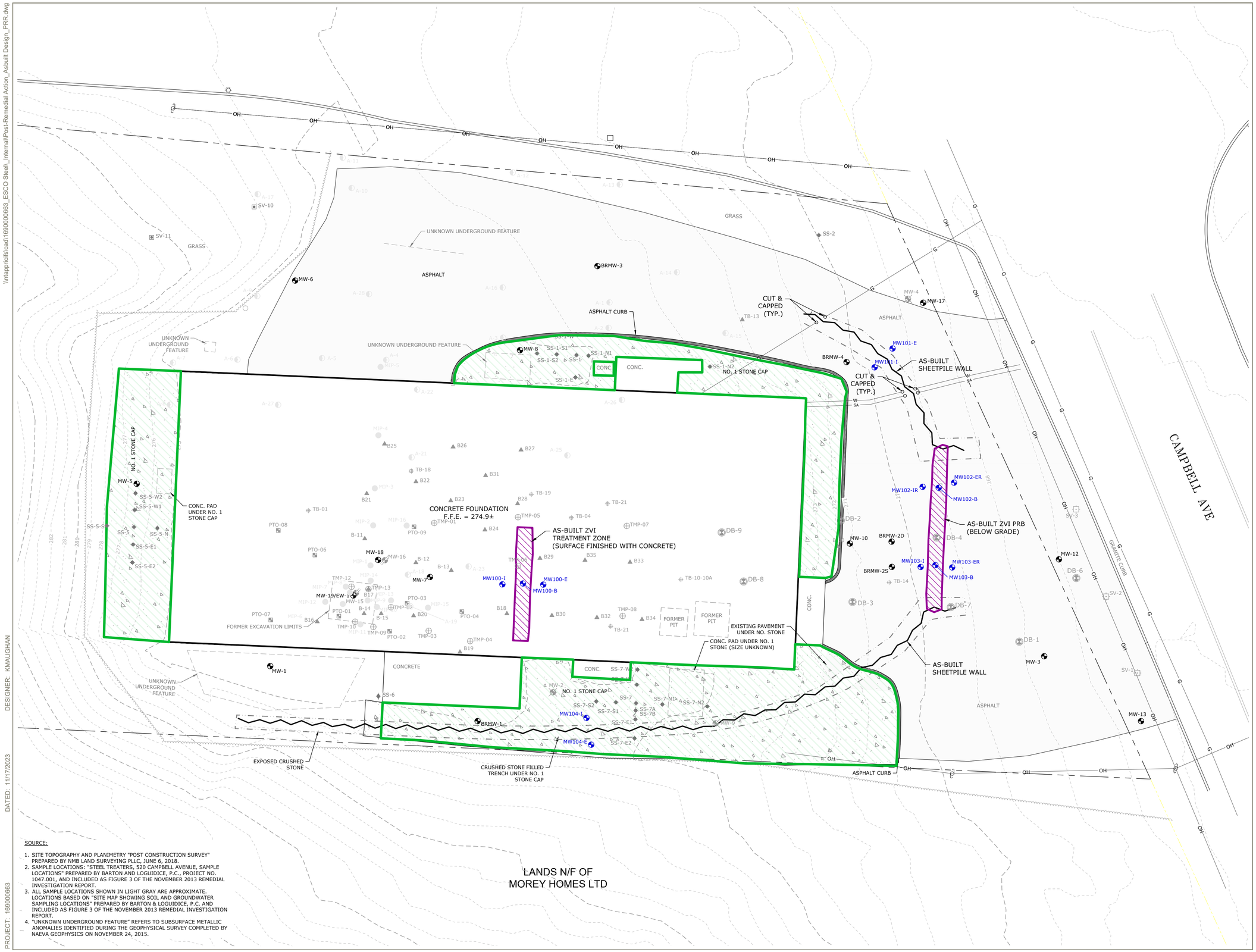
\\ntappricifs\cad\1690000663_ESCO Steel_NYSDEC_PRR\Site Layout_PRR.dwg
DESIGNER: KMAUGHAN
DATED: 11/17/2023
PROJECT: 1690000663

\\tapprichi\cad\169000663_ESCO Steel_Internal\Post-Remedial Action_Asbuilt Design_PRR.dwg

DESIGNER: KMAUGHAN

DATED: 11/17/2023

PROJECT: 169000663



SOURCE:

1. SITE TOPOGRAPHY AND PLANIMETRY "POST CONSTRUCTION SURVEY" PREPARED BY NMB LAND SURVEYING PLLC, JUNE 6, 2018.
2. SAMPLE LOCATIONS: "STEEL TREATERS, 520 CAMPBELL AVENUE, SAMPLE LOCATIONS" PREPARED BY BARTON AND LOGUIDICE, P.C., PROJECT NO. 1047.001, AND INCLUDED AS FIGURE 3 OF THE NOVEMBER 2013 REMEDIAL INVESTIGATION REPORT.
3. ALL SAMPLE LOCATIONS SHOWN IN LIGHT GRAY ARE APPROXIMATE. LOCATIONS BASED ON "SITE MAP SHOWING SOIL AND GROUNDWATER SAMPLING LOCATIONS" PREPARED BY BARTON & LOGUIDICE, P.C. AND INCLUDED AS FIGURE 3 OF THE NOVEMBER 2013 REMEDIAL INVESTIGATION REPORT.
4. "UNKNOWN UNDERGROUND FEATURE" REFERS TO SUBSURFACE METALLIC ANOMALIES IDENTIFIED DURING THE GEOPHYSICAL SURVEY COMPLETED BY NAEVA GEOPHYSICS ON NOVEMBER 24, 2015.

LEGEND

- PROPERTY BOUNDARY
- EXISTING GRADE CONTOUR
- APPROXIMATE TREE LINE
- SA — 6"Ø CLAY SANITARY SEWER LINE
- G — 2"Ø GAS LINE
- OH — OVERHEAD WIRES
- W — 1"Ø COPPER WATER LINE
- DB-2 — BORING LOCATION
- MW — MONITORING WELL LOCATION
- SV-5 — SOIL VAPOR SAMPLING POINTS
- B-10 — BORING LOCATION (ENVIRON 2015 & 2016)
- PTO-04 — PUMP TEST OBSERVATION POINT (ENVIRON 2015)
- TMP-06 — TEMPORARY MONITORING POINT
- TB-21 — TEST BORING LOCATION
- MIP-4 — MEMBRANE INTERFACE PROBE (08/10)
- A-3 — MEMBRANE INTERFACE PROBE (09/12)
- MW-15 — WELL REMOVED DURING DEC. 2010 EXCAVATION IRM
- SS-7A — SURFACE SOIL SAMPLE (0 TO 2 INCHES) (REH 2016 & 2017)
- SS-7 — SOIL COVER SAMPLE (REH 2016 & 2017)
- SV-10 — SOIL GAS SAMPLE (REH 2016 & 2017)
- MW100-I — MONITORING WELL (REH 2018)
- MW-4 — WELL NO LONGER SUITABLE FOR SAMPLING
- AS-BUILT CAP LIMITS

10 0 10 20
SCALE IN FEET

ENGINEERING CONTROLS LOCATION

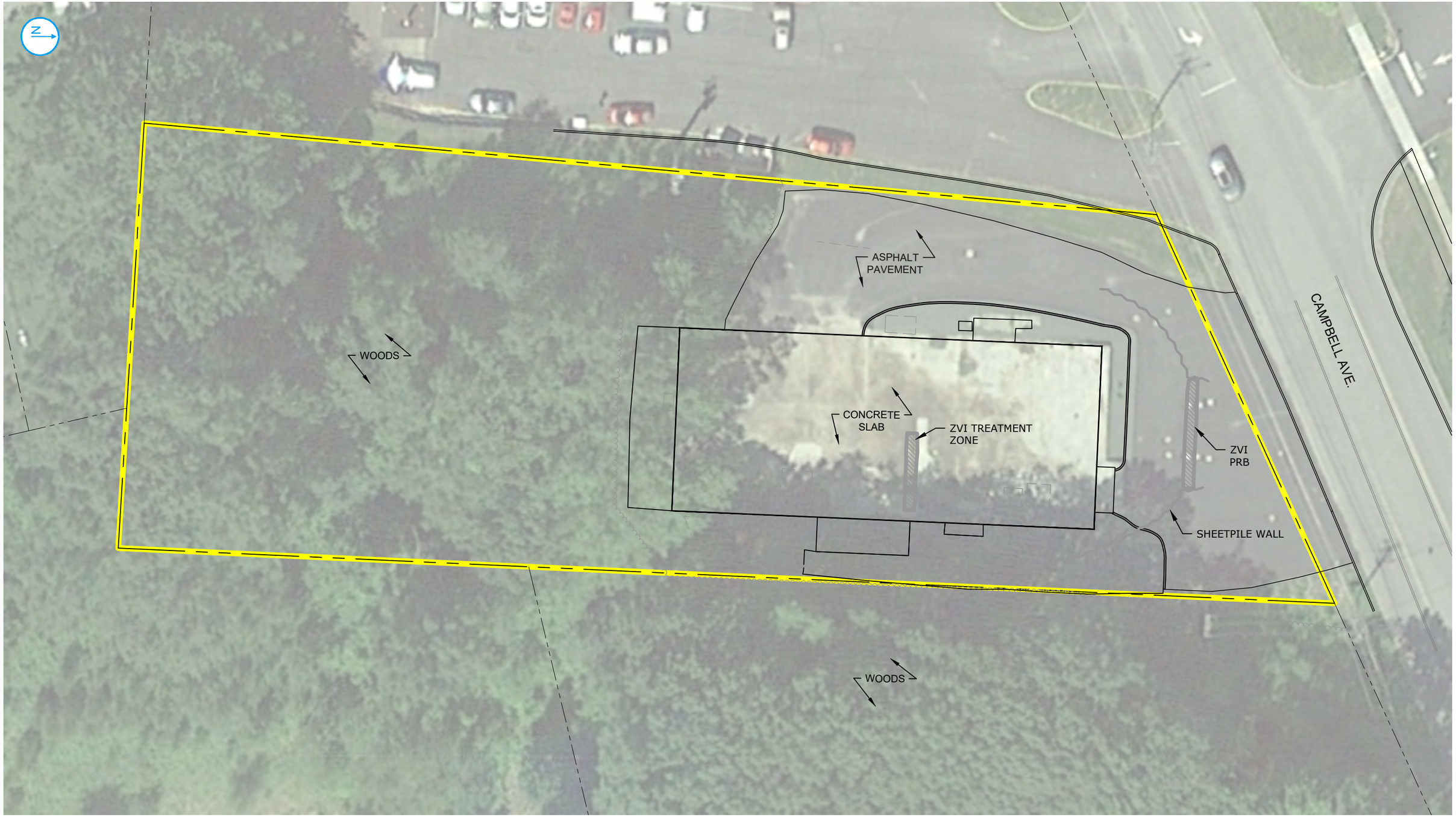
ESCO STEEL
520 CAMPBELL AVENUE
CITY OF TROY, NEW YORK

FIGURE 3

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

\\tnappricifs\cad\1690000663_ESCO Steel_NYSDEC_PRR\Institutional Control Boundary_PRR.dwg



PROJECT: 1690000663 DATED: 11/17/2023 DESIGNER: KMAUGHAN

SOURCE:

1. SITE TOPOGRAPHY AND PLANIMETRY: "POST CONSTRUCTION SURVEY" PREPARED BY NMB LAND SURVEYING PLLC, JUNE 6, 2018.
2. GOOGLE EARTH AERIAL IMAGERY DATED JUNE 25, 2019.

0 30 Feet

PROPERTY BOUNDARY

INSTITUTIONAL CONTROL BOUNDARY

INSTITUTIONAL CONTROL BOUNDARIES

ESCO STEEL
520 CAMPBELL AVENUE
CITY OF TROY, NEW YORK

FIGURE 4

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY
RAMBOLL

F:\169000\0063_ESCO Steel_Semi\Annual Monitoring\2025 Aug\Data_GW_Semi_Aug 2025.dwg

PROJECT: 169000063 DATED: 10/20/2025 DESIGNER: DBLANCHARD

MW100B	08/01/2018 ug/l		11/13/2018 ug/l		02/20/2019 ug/l		05/06/2019 ug/l		07/29/2019 ug/l		02/24/2020 ug/l		08/11/2020 ug/l		02/09/2021 ug/l		08/17/2021 ug/l		08/23/2022 ug/l		08/08/2023 ug/l		08/11/2025 ug/l	
VOC																								
Acetone	**330 (DA)**	NA	34.3+	NA	6.3 J	NA	5.7 U	5.8 U	5 U	5 U	5 U	5 U	17	8.6	10 U	2.6 J-	10 U	0.39 J
Benzene	0.93 J	NA	**0.55 J**	NA	1 U	1 U	1 U	1 U	1 U	1 U	**0.46 J**	0.33 J	0.54 J	**0.47 J**	0.48 J	0.29 J	**0.5 U**	0.5 U
Bromodichloromethane	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	33	NA	26	NA	13	3.6 J	5.9	4.9 J	5 U	2.6 J	5 U	5 U	4.4 J	5 U	11 J	2 U	2 U	2 U
Chlorobenzene	1.5	NA	1 U	NA	**0.51 J**	**0.92 J**	1 U	1 U	1 U	**0.84 J**	1 U	1 U	**0.48 J**	**0.87 J**	2 U	1.2 J	2 U	2 U
Chloroform	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cumene	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.49 J	NA	0.33 J	NA	0.28 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	0.44 J	NA	0.88 J	NA	0.33 J	0.36 J	0.34 J	0.46 J	0.66 J	0.28 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	120	NA	71 J+	NA	2.4	3.2	3.7	0.83	2.6	1.6-R	2.5 J+	1.6
Ethanol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Ethyl Benzene	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2 U	2 U	2 U	2 U
Methylene Chloride	0.64 J	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	0.42 J	1 U	1 U	1 U	2 U	2 U	2 U	2 U
Tetrachloroethene	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	2	NA	**0.78 J**	NA	3.2	1 U	1 U	0.45 J	**0.38 J**	1 U	1 U	1 U	0.35 J	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	1 U	NA	1 U	NA	0.28 J	1 U	1 U	1 U	1 U	1 U	**0.38 J**	1 U	1 U	1 U	0.34 J	1 U	1 U	1 U
Xylenes (total)	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

MW100E	08/01/2018 ug/l		11/13/2018 ug/l		02/20/2019 ug/l		05/06/2019 ug/l		07/29/2019 ug/l		02/24/2020 ug/l		08/12/2020 ug/l		02/09/2021 ug/l		08/17/2021 ug/l		08/24/2022 ug/l		08/08/2023 ug/l		08/20/2024 ug/l		08/11/2025 ug/l	
VOC																										
Acetone	**320 (DA)**		43 J		6.1 J		5 U		5 U		5 U		5 U		5 U		5 U		0.35 J		0.3 J		13+	2.7+	10 U	0.27 J
Benzene	0.95 J		0.47 J		1 U		1 U		1 U		1 U		1 U		1 U		1 U		0.32 J		0.5 U		0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		0.5 U		0.5 U	0.5 U	1 U	0.5 U
Bromoform	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	1 U	1 U	1 U
2-Butanone	39		**66 (DA)**		14		2.6 J		3.9 J		5 U		5 U		5 U		2 U		2 U		2 U		2 U	2 U	2 U	2 U
Chlorobenzene	1.1		0.45 J		1 U		1 U		1 U		**0.42 J**		1 U		1 U		1 U		1 U		0.39 J		2 U	2 U	2 U	2 U
Chloroform	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	1 U	1 U	1 U
Chloromethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		2 U	2 U	2 U	2 U
Cumene	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		2 U	2 U	2 U	2 U
Dibromochloromethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	1 U	0.5 U	0.5 U
1,1-Dichloroethane	4.9		0.67 J		1 U		0.27 J		0.28 J		1 U		0.47 J		1 U		1 U		0.36 J		0.62 J		1 U	1 U	0.5 U	0.5 U
1,2-Dichloroethane	0.46 J		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	1 U	1 U	1 U
1,2-Dichloroethene	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	**290 (DA)**		**63 (DA)**		**20 (DA)**		**19 (DA)**		**20 (DA)**		**11 (DA)**		**18 (DA)**		**13 (DA)**		**8.5 (DA)**		**12 (DA)**		**17.3 (DA)**		0.98 J	**4.6 J**	**5.9 (DA)**	
trans-1,2-Dichloroethene	0.31 J		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	1 U	1 U	1 U
1,4-Dioxane	50 U		50 U		50 U		50 U		50 U		50 U		1.9		1.3		2.4		0.59		3.5 J		0.54 J	1.8 J	0.2 U	2
Ethanol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		90 J		200 U	200 U	200 U	200 U
Ethyl Benzene	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		0.37 J		1 U	1 U	1 U	1 U
4-Methyl-2-pentanone	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		0.47 J		2 U	2 U	2 U	2 U
Methylene Chloride	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		2 U	2 U	2 U	2 U
Tetrachloroethene	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	1 U	1 U	1 U
Toluene	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	1 U	1 U	1 U
Trichloroethene	**5.8 (DA)**		**3.8**		5		2.3		1.6 J		2.7		1		0.38 J		0.68 J		0.36 J		0.62 J		1 U	1 U	0.38 J	0.3 J
Trichlorofluoromethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	1 U	1 U	1 U
Vinyl Chloride	**7.8 (DA)**		**5.2 (DA)**		**5.2 (DA)**		**3.2 (DA)**		**2.6 (DA)**		**2.1 (DA)**		**2.7**		**1.1 (DA)**		**0.77 J**		**1.2**		**2.1 (DA)**		**1.6 (DA)**	**1.2 (DA)**	**0.77 J**	**0.5 (DA)**
Xylenes (total)	**5.2 (DA)**		**2.1 (DA)**		**1.2 (DA)**		**1.1 (DA)**		**1.1 (DA)**		**1.1 (DA)**		**1.1 (DA)**		**1.1 (DA)**		**1.1 (DA)**		**1.1 (DA)**		**1.1 (DA)**		**1.1 (DA)**	**1.1 (DA)**	**1.1 (DA)**	**1.1 (DA)**

MW102I/MW102IR	02/21/2019 ug/l		05/06/2019 ug/l		07/30/2019 ug/l		02/24/2020 ug/l		08/13/2020 ug/l		02/10/2021 ug/l		08/19/2021 ug/l		08/24/2022 ug/l		08/09/2023 ug/l		08/21/2024 ug/l		08/13/2025 ug/l	
VOC																						
Acetone	25 U		10 U		25 U		10 U		10 U		10 U		5 U		10 U		10 U		10 U		10 U	
Benzene	5 U		2 U		5 U		2 U		2 U		2 U		1 U		1 U		0.5 U		0.5 U		0.5 U	
Bromodichloromethane	5 U		2 U		5 U		2 U		2 U		2 U		1 U		1 U		0.5 U		0.5 U		0.5 U	
Bromoform	5 U		2 U		5 U		2 U		2 U		2 U		1 U		1 U		1 U		1 U		1 U	
2-Butanone	10 U		4 U		10 U		4 U		4 U		4 U		2 U		2 U		0.49 J		2 U		2 U	
Chlorobenzene	5 U		2 U		5 U		2 U		2 U		2 U		1 U		1 U		0.43 J		2 U		2 U	
Chloroform	5 U		2 U		5 U		2 U		2 U		2 U		1 U		1 U		1 U		2 U		2 U	
Chloromethane	5 U		2 U		5 U		2 U		2 U		2 U		1 U		1 U		1 U		2 U		2 U	
Cumene	5 U		2 U		5 U		2 U		2 U		2 U		1 U		1 U		1 U		2 U		2 U	
Dibromochloromethane	5 U		2 U		5 U		2 U		2 U		2 U		1 U		1 U		0.38 J		2 U		2 U	
1,1-Dichloroethane	**5.8 (DA)**		3.8		5		2.3		1.6 J		2.7		1		0.38 J		0.68 J		0.36 J		0.62 J	
1,2-Dichloroethane	5 U		2 U		5 U		2 U		2 U		2 U		1 U		1 U		1 U		1 U		1 U	
1,2-Dichloroethene	**7.8 (DA)**		**5.2 (DA)**		**5.2 (DA)**		**3.2 (DA)**		**2.6 (DA)**		**2.1 (DA)**		**2.7**		**1.1 (DA)**		**0.77 J**		**1.2**		**2.1 (DA)**	
cis-1,2-Dichloroethene	**5.2 (DA)**		**3.5**		**3.4**		**2.1**		**1.6 (DA)**		**2.3**		**1.6 (DA)**		**1.1 (DA)**		**0.77 J**		**1.2**		**2.1 (DA)**	
trans-1,2-Dichloroethene	**5.2 (DA)**		**3.5**		**3.4**		**2.1**		**1.6 (DA)**		**2.3**		**1.6 (DA)**		**1.1 (DA)**		**0.77 J**		**1.2**		**2.1 (DA)**	
1,4-Dioxane	250 U		100 U		250 U		100 U		3		6.1		NA		NA		NA		NA		NA	
Ethanol	NA		NA		NA		NA		NA		NA		200 U		200 U		200 U		200 U		200 U	
Ethyl Benzene	5 U		2 U		5 U		2 U		2 U		2 U		1 U		1 U		1 U		1 U		1 U	
4-Methyl-2-pentanone	10 U		4 U		10 U		4 U		4 U		4 U		2 U		2 U		2 U		2 U		2 U	
Methylene Chloride	5 U		2 U		5 U		2 U		2 U		2 U		1 U		1 U		1 U		2 U		2 U	
Tetrachloroethene	5 U		2 U		5 U		2 U		2 U		2 U		1 U		1 U		1 U		1 U		1 U	
Toluene	5 U		2 U		5 U		2 U		2 U		2 U		1 U		1 U		1 U		1 U		1 U	
1,1,1-Trichloroethane	2.7 J		2.5		3 J		1.1 J		0.96 J		2		0.66 J		0.38 J		1.2		0.67 J		2	
1,1,2-Trichloroethane	5 U		2 U		5 U		2 U		2 U		2 U		1 U		1 U		1 U		1 U		1 U	
Trichloroethene	**160 (DA)**		**66 (DA)**		**99 (DA)**		**39 (DA)**		**39 (DA)**		**39 (DA)**		**23 (DA)**		**20 (DA)**		**13 (DA)**		**18 (DA)**		**22 (DA)**	
Trichlorofluoromethane	5 U		2 U		5 U		2 U		2 U		2 U		1 U		1 U		1 U		1 U		1 U	
Vinyl Chloride	**5.2 (DA)**		**2.1 (DA)**		**3.2 (DA)**		**1.3 (DA)**		**1.1 (DA)**		**1.3**		**1.1 (DA)**		**0.77 J**		**0.51 J**		**0.77 J**		**1.1 (DA)**	
Xylenes (total)	5 U		2 U		5 U		2 U		2 U		2 U		1 U		1 U		1 U		1 U		1 U	

(1) MW102-I could not be sampled in July/August 2018 or November 2018 due to insufficient water column in the well.
(2) MW102-I was replaced with MW102-IR on January 23, 2019.

MW101I	07/31/2018 ug/l		07/31/2019 ug/l		08/11/2020 ug/l		08/17/2021 ug/l		08/23/2022 ug/l		08/27/2023 ug/l		08/20/2024 ug/l		08/12/2025 ug/l	
VOC																
Acetone	5 U		5 U		5 U		5 U		10 U		10 U		10 U		10 U	
Benzene	1 U		1 U		1 U		1 U		0.5 U		0.5 U		0.5 U		0.5 U	
Bromodichloromethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Bromoform	1 U		1 U		1 U		1 U		0.5 U		0.5 U		0.5 U		0.5 U	
2-Butanone	5 U		5 U		5 U		5 U		2 U		2 U		2 U		2 U	
Chlorobenzene	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Chloroform	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Chloromethane	1 U		1 U		1 U		1 U		1 U		1 U		2 U		2 U	
Cumene	1 U		1 U		1 U		1 U		1 U		1 U		2 U		2 U	
Dibromochloromethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
1,1-Dichloroethane	1 U		1 U		1 U		1 U		0.5 U		0.5 U		0.5 U		0.5 U	
1,2-Dichloroethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
1,2-Dichloroethene	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
cis-1,2-Dichloroethene	0.44 J		0.54 J		0.42 J		0.47 J		0.39 J		0.56 J		0.47 J		0.74 J	
trans-1,2-Dichloroethene	0.31 J		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
1,4-Dioxane	50 U		50 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U	
Ethanol	NA		NA		NA		NA		NA		NA		NA		NA	
Ethyl Benzene	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
4-Methyl-2-pentanone	5 U		5 U		2 U		2 U		2 U		2 U		2 U		2 U	
Methylene Chloride	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Tetrachloroethene	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Toluene	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
1,1,1-Trichloroethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
1,1,2-Trichloroethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Trichloroethene	**2.2 (DA)**		**1.6 (DA)**		**1.1 (DA)**		**1.1 (DA)**		**0.77 J**		**1.1 (DA)**		**1.1 (DA)**		**1.1 (DA)**	
Trichlorofluoromethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Vinyl Chloride	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Xylenes (total)	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	

MW17	08/02/2018 ug/l		07/30/2019 ug/l		08/10/2020 ug/l		08/17/2021 ug/l		08/22/2022 ug/l		08/07/2023 ug/l		08/20/2024 ug/l		08/11/2025 ug/l	
VOC																
Acetone	5 U		5 U		5 U		5 U		5 U		10 U		10 U		10 U	
Benzene	1 U		1 U		1 U		1 U		1 U		0.5 U		0.5 U		0.5 U	
Bromodichloromethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Bromoform	1 U		1 U		1 U		1 U		1 U		0.5 U		0.5 U		0.5 U	
2-Butanone	5 U		5 U		5 U		5 U		2 U		2 U		2 U		2 U	
Chlorobenzene	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Chloroform	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Chloromethane	1 U		1 U		1 U		1 U		1 U		1 U		2 U		2 U	
Cumene	1 U		1 U		1 U		1 U		1 U		1 U		2 U		2 U	
Dibromochloromethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
1,1-Dichloroethane	0.29 J		1 U		1 U		0.61 J		0.58 J		0.86 J		1 U		1 U	
1,2-Dichloroethane	**0.57 J**		**0.45 J**		**0.38 J**		**0.42 J**		**0.43 J**		**0.48 J**		**0.43 J**		**0.43 J**	
1,2-Dichloroethene	50 U		50 U		0.2 U		0.85		50 U		50 U		200 U		200 U	
1,4-Dioxane	NA		NA		NA		NA		NA		NA		NA		NA	
Ethanol	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Ethyl Benzene	5 U		5 U		2 U		2 U		2 U		2 U		2 U		2 U	
4-Methyl-2-pentanone	5 U		5 U		2 U		2 U		2 U		2 U		2 U		2 U	
Methylene Chloride	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Tetrachloroethene	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Toluene	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
1,1,1-Trichloroethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
1,1,2-Trichloroethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Trichloroethene	**2.2 (DA)**		**1.6 (DA)**		**1.1 (DA)**		**1.1 (DA)**		**0.77 J**		**1.1 (DA)**		**1.1 (DA)**		**1.1 (DA)**	
Trichlorofluoromethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Vinyl Chloride	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Xylenes (total)	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	

MW102B	07/31/2018 ug/l		11/14/2018 ug/l		02/25/2019 ug/l		05/06/2019 ug/l		07/29/2019 ug/l		02/25/2020 ug/l		08/11/2020 ug/l		02/09/2021 ug/l		08/18/2021 ug/l		08/24/2022 ug/l		08/08/2023 ug/l		08/21/2024 ug/l		08/13/2025 ug/l	
VOC																										
Acetone	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		10 U		10 U		10 U		10 U	
Benzene	0.73 J		0.65 J		0.49 J		0.59 J		0.8 J		0.51 J		0.81 J		0.76 J		**0.53 J**		**0.42 J**		**2 (DA)**		**0.42 J**		**0.85 J**	
Bromodichloromethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Bromoform	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
2-Butanone	5 U		5 U		5 U		5 U		5 U		5 U		4.5 J		5 U		5 U		1.8 J		2.5 J		2 U		0.85 J	
Chlorobenzene	1.9		1.7		1.9		2.6 J+		0.95 J		1.9		1.7		1.9		0.73 J		0.88 J		4.4		2 U		2 U	
Chloroform	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Chloromethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		2 U		2 U	
Cumene	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		2 U		2 U	
Dibromochloromethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		0.5 U	
1,1-Dichloroethane	3.6		2.8		3.6		4.2		3.6		3.6		3.4		3.6		2.6		3.3		3.6		2.1		0.98 J	
1,2-Dichloroethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
1,2-Dichloroethene	**160 (DA)**		**120 (DA)**		**160 (DA)**		**200 (DA)**		**160 (DA)**		**160 (DA)**		**160 (DA)**		**160 (DA)**		**120 (DA)**		**150 (DA)**		**200 (DA)**		**120 (DA)**		**150 (DA)**	
cis-1,2-Dichloroethene	**160 (DA)**		**120 (DA)**		**160 (DA)**		**200 (DA)**		**160 (DA)**		**160 (DA)**		**160 (DA)**		**160 (DA)**		**120 (DA)**		**150 (DA)**		**200 (DA)**		**120 (DA)**		**150 (DA)**	
trans-1,2-Dichloroethene	1 U		0.26 J		1 U		1 U		0.25 J		1 U		1 U		0.28 J		1 U		0.45 J		0.2 J		0.67 J		1.8	
1,4-Dioxane	50 U		50 U		50 U		50 U		50 U		2.4		3.4		NA		4.7 J		16		2.4		0.88 J		53	
Ethanol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		200 U		200 U		200 U	
Ethyl Benzene	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
4-Methyl-2-pentanone	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U		2 U		2 U		2 U	
Methylene Chloride	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		2 U		2 U		2 U	
Tetrachloroethene	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Toluene	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
1,1,1-Trichloroethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
1,1,2-Trichloroethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Trichloroethene	1.4		0.36 J		1 U		1 U		1 U		1 U		1 U		1 U		0.53 J		0.77 J		0.53 J		1.7		1.6 J+	
Trichlorofluoromethane	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Vinyl Chloride	**5.2 (DA)**		**4 J**		**5.2 (DA)**		**6.2 (DA)**		**2.6 (DA)**		**5.2 (DA)**		**5.2 (DA)**		**5.2 (DA)**		**3.8 (DA)**		**5.2 (DA)**		**10 (DA)**		**3.8 (DA)**		**5.2 (DA)**	
Xylenes (total)	1 U		1 U		1 U		1 U		1 U		1 U		1 U	

APPENDIX A
ENVIRONMENTAL EASEMENT

RENSSELAER COUNTY – STATE OF NEW YORK
FRANK MEROLA COUNTY CLERK
105 THIRD STREET, TROY, NEW YORK 12180

COUNTY CLERK'S RECORDING PAGE
THIS PAGE IS PART OF THE DOCUMENT – DO NOT DETACH

BOOK/PAGE: 8450 / 244
INSTRUMENT #: 2018-530098

Receipt#: 1117806
Clerk: RK
Rec Date: 03/01/2018 11:53:33 AM
Doc Grp: RP
Descrip: EASEMENT
Num Pgs: 10
Rec'd Frm: SNEERINGER PROVOST & REDGRAVE

Party1: ESCO CORP
Party2: PEOPLE OF THE STATE OF NEW YORK
Town: TROY

Recording:	
Cover Page	5.00
Recording Fee	65.00
Cultural Ed	14.25
Records Management - Coun	1.00
Records Management - Stat	4.75
TP584	5.00
Sub Total:	95.00
Transfer Tax	
Transfer Tax - State	0.00
Sub Total:	0.00
Total:	95.00

**** NOTICE: THIS IS NOT A BILL ****

***** Transfer Tax *****
Transfer Tax #: 2899
Transfer Tax
Consideration: 0.00

Total: 0.00

WARNING***
I hereby certify that the within and foregoing was recorded in the Rensselaer County Clerk's Office, State of New York. This sheet constitutes the Clerks endorsement required by Section 316 of the Real Property Law of the State of New York.

Frank Merola
Rensselaer County Clerk

Record and Return To:

SNEERINGER PROVOST & REDGRAVE
50 CHAPEL STREET
ALBANY NY 12207

Instr # 2018-530098
Bk 8450 Pg: 244

10/104

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 21st day of February, 20 18 between Owner(s) ESCO Corporation, having an office at 2141 NW 25th Avenue, Portland, Oregon 97210, County of Multnomah, State of Oregon (the "Grantor"), and The People of the State of New York (the "Grantee"), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 520 Campbell Avenue in the City of Troy, County of Rensselaer and State of New York, known and designated on the tax map of the County Clerk of Rensselaer as tax map parcel numbers: Section 112 Block 4 Lot 25, being the same as that property conveyed to Grantor by deed dated October 23, 2012 and recorded in the Rensselaer County Clerk's Office in Instrument No. 2012-00420835. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 1.109 +/- acres, and is hereinafter more fully described in the Land Title Survey dated January 30, 2018 prepared by Nathan M. Burrows, LLS of NMB Land Surveying PLLC, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is

R+R - Box SMPR - Courtesy Recording Bond, Schoeneck & King Attn: Theresa

extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Voluntary Cleanup Agreement Index Number: V00578-4, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Rensselaer County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against

the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: V00578
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the

recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

ESCO Corporation:

By: _____

Print Name: Kevin Thomas

Title: SVP, GC & Secy Date: 2/12/18

Grantor's Acknowledgment

STATE OF Oregon)
) ss:
COUNTY OF Multnomah)

On the 12th day of February, in the year 2018, before me, the undersigned, personally appeared Kevin S. Thomas personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Mary Denise Roberts
Notary Public - State of Oregon

OFFICIAL STAMP
MARY DENISE ROBERTS
NOTARY PUBLIC-OREGON
COMMISSION NO. 925759
MY COMMISSION EXPIRES MARCH 05, 2018

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____

Michael J. Ryan, Assistant Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 21st day of February, in the year 2018 before me, the undersigned, personally appeared Michael J. Ryan, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2018

SCHEDULE "A" PROPERTY DESCRIPTION

ALL THAT PIECE OR PARCEL OF LAND situate in the City of Troy, County of Rensselaer, State of New York, BEGINNING AT A POINT in the South line of Campbell's Highway said point being in the Northeast corner of the new Weber Lot resulting from a sub division of his original lot which was shown on a map prepared by James F. Hoffman, PE, LS, CE of HOFFMAN ENGINEERS AND SURVEYORS dated November 23, 1965 said point being further North 80 degrees 00 minutes East (N. 80° 00' E.) along the said South line of Campbell's Highway one hundred seventy five feet (175.00') from a concrete monument set in the division line between the Lands of the Airport Inn and the original Charles Weber parcel; thence according to the magnetic meridian and along the said South line of Campbell's Highway North 80 degrees 00 minutes East (N. 80° 00' E.) one hundred forty point twenty feet (140.20') to a point; thence South 17 degrees 12 minutes West (S. 17° 12" W.) four hundred feet (400.00') to a point in the North line of the lands of the Troy Airport; thence along this same North line North 71 degrees 54 minutes West (N. 71° 54' W.) one hundred thirty nine point eighty feet (139.80') to a point in the Southeast corner of the new aforementioned Weber lot; thence along the East line of the Weber lot which is the West line of the lot herein described North 19 degrees 46 minutes East (N. 19° 46' E.) three hundred thirty-four point zero eight feet (334.08') to a point in the South line of Campbell's Highway, said point being the point of beginning.

Containing approximately 1.109 acres more or less.

APPENDIX B
INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. V00578

Site Name Steel Treaters,Inc.

Site Address: 520 Campbell Avenue Zip Code: 12180
City/Town: Troy
County: Rensselaer
Site Acreage: 1.109

Reporting Period: October 26, 2024 to October 26, 2025

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒	☐
7. Are all ICs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____
Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. V00578 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
11200000040250000000	ESCO Corporation	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan Building Use Restriction IC/EC Plan

Institutional controls required at the site by the environmental easement include a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3), groundwater restrictions, land use restrictions (commercial and industrial) and the requirement that the site adheres to the approved SMP. Future buildings erected at the site must evaluate the potential for soil vapor intrusion.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
11200000040250000000	Cover System Subsurface Barriers Monitoring Wells

Engineering controls consist of operation and maintenance of the site cover, two Permeable Reactive Barriers (zero-valent-iron walls), and periodic groundwater monitoring.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. V00578

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Pamela S Pawelek (print name) at ESCO Group LLC Headquarters, 1631 NW Thurman St.,Portland, OR 97209 (print business address),

am certifying as Owner's Representative (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Pamela S. Pawelek on behalf of ESCO Group LLC
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

21- November 2025
Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Jose Sananes Sangros (print name) at 777 Scudders Mill Road, Princeton, NJ 08540 (print business address),

am certifying as a Professional Engineer for the ESCO Group LLC (Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

November 24, 2025
Date

APPENDIX C
SITE MANAGEMENT FORMS

Monitoring Well Inspection Form
Former Steel Treaters, Inc. (Site No. V00578)
520 Campbell Avenue, Troy, New York

Inspection Date: 8/12/2025

Inspected By: Kyle Walker, Jacquelyn Cook

Monitoring Well	Well Cover Condition	Locking Well Cap Condition	Comments and Maintenance Needs/Actions
MW-1	Good	Good	
MW-5	Good	Good	
MW-8	Good	Good	
MW-11	Good	Good	
MW-13	Good	Good	
MW-14	Good	Okay	Recommend well redevelopment due to suspended solids during well purging.
MW-17	Good	Good	Vegetation around well cleared for easier access.
MW-18	Good	Good	
MW-19	Good	Good	
MW-100I	Good	Good	Missing bolt eye on well vault; no water in vault.
MW-100B	Good	Good	
MW-100E	Good	Good	
MW-101I	Good	Good	
MW-101E	Good	Good	
MW-102I	Good	Good	
MW-102B	Good	Good	
MW-102ER	Good	Good	
MW-103I	Good	Good	
MW-103B	Good	Good	

Monitoring Well Inspection Form
Former Steel Treaters, Inc. (Site No. V00578)
520 Campbell Avenue, Troy, New York

Inspection Date: 8/12/2025

Inspected By: Kyle Walker, Jacquelyn Cook

Monitoring Well	Well Cover Condition	Locking Well Cap Condition	Comments and Maintenance Needs/Actions
MW-103ER	Good	Good	
MW-104I	Good	Good	
MW-104E	Good	Good	
MONITORING WELLS NOT IN USE			
MW-3	Good	Good	
MW-6	N/A	N/A	
MW-7	Good	Good	Missing bolt eye on well vault; no water in vault.
MW-10	Good	Good	
BRMW-1	Good	Good	
BRMW-2S	Good	Good	Well manhole resecured with concrete patch.
BRMW-2D	Good	Good	Missing bolt eye on well vault; no water in vault.
BRMW-3	Good	Good	Missing bolt eye on well vault; no water in vault.
BRMW-4	Good	Good	Missing bolt eye on well vault; no water in vault.
MW-12[1]	Good	Good	

Notes:

1. Monitoring well MW-12 was to be abandoned per the SMP; however, the well was redeveloped and repaired on July 7, 2023 for potential future use.
2. Monitoring wells MW-2 and MW-9 were abandoned on July 7 and 6, 2023, respectively.

Inspection Date: 8/12/2025			
Inspected By: Kyle Walker, Jacquelyn Cook			
Consolidation and Capping Area Designation	**Type of Final Cap Material**	**Observations**	
		Satisfactory Cap Condition	**Comments**
Northern cap area	Asphalt cap	Yes	Concrete pads are for MW-102B and MW-103B are about 3 inches higher than surrounding surface. Concrete pad for BRMW-2S was repaired and well pad and manhole cover are now flush with surrounding asphalt cap area.
Northern cap area	Stone cap	Yes	Vegetation removed
Western cap area	Asphalt cap	Yes	Curb repairs from 2023 remain in good condition
Western cap area	Stone cap	Yes	Vegetation removed
Southern cap area	Stone cap	Yes	Vegetation removed
Eastern cap area	Stone cap	Yes	Vegetation removed
Foundation area	Concrete cap	Yes	Vegetation removed

Photo 1: Northern asphalt and stone cap prior to vegetation clearing (facing south).

Photo 2: Western stone and asphalt cap prior to vegetation clearing (facing northeast).

Photo 3: Concrete cap prior to vegetation clearing and clean-up (facing north).

Photo 4: Asphalt milling piles located at the southeast corner of property (facing southeast).

Photo 5: Eastern stone cap prior to vegetation clearing. (facing east).

Photo 6: Northern asphalt and stone cap following vegetation clearing (facing south).

Photo 7: Western stone cap following vegetation clearing (facing East)

Photo 8: Concrete cap and eastern stone cap following vegetation clearing (facing southwest).

Photo 9: Eastern stone cap following vegetation clearing (facing northeast).

Photo 10: Concrete cap following vegetation clearing (facing north).

Photo 11: Repaired well pad for BRMW-2S.

Photo 12: High turbidity in MW-14 purge water causing inability to collect a groundwater sample

APPENDIX D
GROUNDWATER SAMPLING FIELD LOGS – 13TH SAMPLING EVENT

RAMBOLL

Low Flow Groundwater Sampling Field Log

Monitoring Well - **MW-11**

Site **ESCO Steel Treaters**
Location **Troy, NY**

Sampling Information

Date (MM/DD/YY) - **August 11, 2025**
Personnel - **N. Hertz**
Weather - **86 degrees, sunny**
Sampling Device - **Geotech Bladder Pump**

Pump Controller - **MP50**
Refill - **10.0** sec
Discharge - **5.0** sec
Pressure - **10** psi

Well Information

Well Vault PID - **0.0** ppm
Well Casing PID - **0.0** ppm
Well Diameter - **2.0** Inches

Measured Depth to Bottom - **12.79** ft BTOC
Depth to Pump Intake - **11.8** ft BTOC
Pre-Pump (Static) Depth to Water - **10.98** ft BTOC
Post-Pump Depth to Water - **10.98** ft BTOC

Well Evacuation Data

Stabilization Criteria			± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
12:15	0.0	100	7.04	3.030	189.0	20.14	217	1.22	pump	Brown
12:20	0.5	100	7.06	2.990	70.0	20.17	220	0.89	pump	slight brown
12:25	1.0	100	7.07	2.990	38.1	19.71	222	0.60	pump	slight brown
12:30	1.5	100	7.08	2.980	21.5	19.51	219	0.42	pump	slight brown
12:35	2.0	100	7.08	2.980	15.7	19.53	216	0.31	pump	slight brown
12:40	2.5	100	7.08	3.000	12.6	19.56	213	0.25	pump	slight brown
12:45	3.0	100	7.08	3.010	12.4	19.78	210	0.48	pump	slight brown
12:50	3.5	100	7.10	3.090	61.9	19.79	205	0.36	pump	slight brown
12:55	4.0	100	7.10	3.060	15.3	19.58	204	0.25	pump	Clear
13:00	4.5	100	7.10	3.050	12.7	19.51	202	0.18	pump	Clear
13:05	5.0	100	7.10	3.030	12.6	19.50	198	0.10	pump	Clear
13:10	5.5	100	7.10	3.000	12.8	19.66	195	0.09	pump	Clear
13:15	6.0	100	7.10	2.990	12.9	19.70	193	0.09	pump	Clear
13:15	***SAMPLE***	100	7.10	2.990	12.9	19.70	193	0.09	pump	Clear

Sample ID - **MW-11/250811**
Sample Time - **13:15**

Notes / Sample Information

Appearance at Start - **Brown**
Appearance After Purging - **Clear**

Additional Sample - **None**
Additional Sample ID - **NA**

Approx. Total Volume Purged - **6.0** liters
Purge Rate - **100** mL/min

DTW After Purging - **pump** ft bTOC
DTW at Time of Sampling - **pump** ft bTOC

Notes

Confidential

Low Flow Groundwater Sampling Field Log

Monitoring Well - **MW-17**

Site **ESCO Steel Treaters**
Location **Troy, NY**

Sampling Information

Date (MM/DD/YY) - **August 11, 2025**
Personnel - **K. Walker**
Weather - **89 degrees, partly cloudy**
Sampling Device - **Geotech Bladder Pump**

Pump Controller - **MP50**
Refill - **12.0** sec
Discharge - **3.0** sec
Pressure - **9** psi

Well Information

Well Vault PID - **0.2** ppm
Well Casing PID - **10.8** ppm
Well Diameter - **2.0** Inches

Measured Depth to Bottom - **8.35** ft BTOC
Depth to Pump Intake - **7.8** ft BTOC
Pre-Pump (Static) Depth to Water - **6.49** ft BTOC
Post-Pump Depth to Water - **6.49** ft BTOC

Well Evacuation Data

Stabilization Criteria			± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
14:45	0.0	100	7.06	0.299	89.1	32.78	-1	2.19	pump	Clear
14:50	0.5	100	6.95	0.265	74.1	27.90	-18	0.79	pump	Clear
14:55	1.0	100	6.93	0.272	67.9	26.51	-34	0.42	pump	Clear
15:00	1.5	100	6.95	0.327	53.1	26.14	-26	0.87	pump	Clear
15:05	2.0	100	6.97	0.330	43.1	27.13	-22	0.83	pump	Clear
15:10	2.5	100	6.96	0.332	40.6	27.42	-23	0.75	pump	Clear
15:15	3.0	100	6.96	0.342	36.6	27.62	-24	0.62	pump	Clear
15:20	3.5	100	6.96	0.362	31.0	27.86	-22	0.46	pump	Clear
15:25	4.0	100	6.96	0.371	26.7	27.99	-19	0.40	pump	Clear
15:30	4.5	100	6.96	0.379	24.8	28.16	-15	0.36	pump	Clear
15:35	5.0	100	6.97	0.381	23.5	28.25	-13	0.33	pump	Clear
15:40	5.5	100	6.97	0.385	22.4	28.48	-9	0.33	pump	Clear
15:45	6.0	100	6.97	0.387	22.0	28.33	-8	0.31	pump	Clear
15:45	***SAMPLE***	100	6.97	0.387	22.0	28.33	-8	0.31	pump	Clear

Notes / Sample Information

Sample ID - **MW-17/250811**
Sample Time - **15:45**

Appearance at Start - **Clear**
Appearance After Purging - **Clear**

Additional Sample - **None**
Additional Sample ID - **NA**

Approx. Total Volume Purged - **6.0** liters
Purge Rate - **100** mL/min

DTW After Purging - **pump** ft bTOC
DTW at Time of Sampling - **pump** ft bTOC

Notes

Confidential

Low Flow Groundwater Sampling Field Log

Monitoring Well - **MW-18**

Site **ESCO Steel Treaters**
Location **Troy, NY**

Sampling Information

Date (MM/DD/YY) - **August 13, 2025**
Personnel - **K. Walker**
Weather - **86 degrees, partly cloudy**
Sampling Device - **Geotech Bladder Pump**

Pump Controller - **MP50**
Refill - **10.0** sec
Discharge - **5.0** sec
Pressure - **10** psi

Well Information

Well Vault PID - **11.4** ppm
Well Casing PID - **65.1** ppm
Well Diameter - **2.0** Inches

Measured Depth to Bottom - **15.93** ft BTOC
Depth to Pump Intake - **15.0** ft BTOC
Pre-Pump (Static) Depth to Water - **9.97** ft BTOC
Post-Pump Depth to Water - **9.97** ft BTOC

Well Evacuation Data

Stabilization Criteria			± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
11:00	0.0	*100*	6.47	0.413	1000+	22.42	111	2.14	9.99	dark brown
11:05	0.5	*100*	7.42	0.442	692.0	22.01	125	1.41	10.09	dark brown
11:10	1.0	*100*	7.46	0.489	498.0	21.53	126	0.79	10.22	slight brown
11:15	1.5	*100*	7.46	0.485	394.0	22.01	127	3.21	10.45	slight brown
11:20	2.0	*100*	7.47	0.482	386.0	21.85	128	4.44	10.67	slight brown
11:25	2.5	*100*	7.48	0.476	354.0	21.64	130	5.09	10.91	slight brown
11:30	3.0	*100*	7.46	0.459	331.0	21.41	131	4.63	11.21	slight brown
11:35	3.5	*100*	7.47	0.461	319.0	21.66	133	4.60	11.44	slight brown
11:40	4.0	*100*	7.47	0.465	312.0	21.46	134	4.53	11.58	slight brown
11:40	***SAMPLE***	100	7.47	0.465	312.0	21.46	134	4.53	11.58	slight brown

Notes / Sample Information

Sample ID - **MW-18/250813**
Sample Time - **11:40**

Appearance at Start - **dark brown**
Appearance After Purging - **slight brown**

Additional Sample - **None**
Additional Sample ID - **N/A**

Approx. Total Volume Purged - **4.0** liters
Purge Rate - **100** mL/min

DTW After Purging - **11.58** ft bTOC
DTW at Time of Sampling - **11.58** ft bTOC

Notes

Confidential

Low Flow Groundwater Sampling Field Log

Monitoring Well - **MW-19**

Site **ESCO Steel Treaters**
Location **Troy, NY**

Sampling Information

Date (MM/DD/YY) - **August 13, 2025**
Personnel - **J. Cook**
Weather - **81 degrees, partly cloudy**
Sampling Device - **Geotech Bladder Pump**

Pump Controller - **MP50**
Refill - **10.0** sec
Discharge - **5.0** sec
Pressure - **7** psi

Well Information

Well Vault PID - **0.9** ppm
Well Casing PID - **11.6** ppm
Well Diameter - **2.0** Inches

Measured Depth to Bottom - **12.95** ft BTOC
Depth to Pump Intake - **12.0** ft BTOC
Pre-Pump (Static) Depth to Water - **9.77** ft BTOC
Post-Pump Depth to Water - **9.77** ft BTOC

Well Evacuation Data

Stabilization Criteria			± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
10:00	-	140	6.98	0.578	0.0	22.10	120	0.21	9.97	clear
10:05	0.7	140	6.98	0.598	0.0	20.62	130	0.00	9.97	clear
10:10	1.4	140	6.97	0.608	0.0	20.19	134	0.00	9.97	clear
10:15	2.1	140	6.99	0.614	0.5	19.97	139	0.00	9.97	clear
10:20	2.8	140	6.99	0.616	1.9	19.96	142	0.00	9.97	clear
10:25	3.5	140	6.99	0.616	2.8	20.08	143	0.00	9.97	clear
10:30	4.2	140	6.99	0.616	4.1	20.22	143	0.00	9.97	clear
10:35	4.9	140	6.99	0.616	4.1	20.48	143	0.00	9.97	clear
10:35	***SAMPLE***	140	6.99	0.616	4.1	20.48	143	0.00	9.97	clear

Notes / Sample Information

Sample ID - **MW-19/250813**
Sample Time - **10:35**

Appearance at Start - **Clear**
Appearance After Purging - **Clear**

Additional Sample - **None**
Additional Sample ID - **NA**

Approx. Total Volume Purged - **4.9** liters
Purge Rate - **140** mL/min

DTW After Purging - **9.97** ft bTOC
DTW at Time of Sampling - **9.97** ft bTOC

Notes

Confidential

RAMBOLL

Low Flow Groundwater Sampling Field Log

Monitoring Well - **MW-100I**

Site **ESCO Steel Treaters**
Location **Troy, NY**

Sampling Information

Date (MM/DD/YY) - **August 12, 2025**
Personnel - **N. Hertz**
Weather - **85 degrees, sunny**
Sampling Device - **Geotech Bladder Pump**

Pump Controller - **MP50**
Refill - **11.0** sec
Discharge - **4.0** sec
Pressure - **10** psi

Well Information

Well Vault PID - **0.1** ppm
Well Casing PID - **0.3** ppm
Well Diameter - **2.0** Inches

Measured Depth to Bottom - **14.70** ft BTOC
Depth to Pump Intake - **13.5** ft BTOC
Pre-Pump (Static) Depth to Water - **9.51** ft BTOC
Post-Pump Depth to Water - **9.51** ft BTOC

Well Evacuation Data

Stabilization Criteria			± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
11:30	0.0	200	7.14	0.52	124.0	19.79	54	2.52	9.51	Slight brown
11:35	1.0	200	7.17	0.48	90.8	18.18	47	0.89	9.72	Clear
11:40	2.0	100	7.17	0.45	25.5	18.23	69	0.53	9.74	Clear
11:45	2.5	100	7.15	0.443	16.4	18.57	72	0.45	9.78	Clear
11:50	3.0	100	7.19	0.442	14.3	19.12	71	0.48	9.78	Clear
11:55	3.5	100	7.20	0.441	8.4	19.57	63	0.45	9.78	Clear
12:00	4.0	100	7.14	0.429	6.5	19.68	55	3.31	9.78	Clear
12:05	4.5	100	7.22	0.44	5.3	19.70	49	0.42	9.78	Clear
12:10	5.0	100	7.23	0.44	4.3	19.75	45	0.39	9.78	Clear
12:15	5.5	*100*	7.24	0.442	3.4	19.92	40	0.38	9.78	Clear
12:15	***SAMPLE***	100	7.24	0.442	3.4	19.92	40	0.38	9.78	Clear

Sample ID - **MW-100I/250812**
Sample Time - **12:15**

Notes / Sample Information

Appearance at Start - **Clear**
Appearance After Purging - **Clear**

Additional Sample - **Field Duplicate**
Additional Sample ID - **DUP/250812**

Approx. Total Volume Purged - **5.5** liters
Purge Rate - **100-200** mL/min

DTW After Purging - **9.78** ft bTOC
DTW at Time of Sampling - **9.78** ft bTOC

Notes

Confidential

Low Flow Groundwater Sampling Field Log

Monitoring Well - **MW-100B**

Site **ESCO Steel Treaters**
Location **Troy, NY**

Sampling Information

Date (MM/DD/YY) - **August 11, 2025**
Personnel - **J. Cook**
Weather - **85 degrees, sunny**
Sampling Device - **Geotech Bladder Pump**

Pump Controller - **MP50**
Refill - **10.0** sec
Discharge - **5.0** sec
Pressure - **10** psi

Well Information

Well Vault PID - **0.0** ppm
Well Casing PID - **22.8** ppm
Well Diameter - **2.0** Inches

Measured Depth to Bottom - **16.87** ft BTOC
Depth to Pump Intake - **15.9** ft BTOC
Pre-Pump (Static) Depth to Water - **9.42** ft BTOC
Post-Pump Depth to Water - **9.41** ft BTOC

Well Evacuation Data

Stabilization Criteria			± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
12:15	-	120	9.88	0.25	1.5	23.46	-86	0.00	9.44	Clear
12:20	0.6	120	9.93	0.24	1.3	23.51	-97	0.00	9.43	clear
12:25	1.2	120	9.95	0.24	1.9	23.53	-107	0.00	9.43	clear
12:30	1.8	120	9.98	0.238	2.1	23.46	-115	0.00	9.43	Clear
12:35	2.4	120	10.00	0.237	1.7	23.51	-120	0.00	9.43	Clear
12:40	3.0	120	10.02	0.238	2.0	23.40	-125	0.00	9.43	Clear
12:45	3.6	120	10.02	0.238	1.5	23.47	-127	0.00	9.43	Clear
12:50	4.2	120	10.03	0.24	0.8	23.54	-132	0.00	9.43	Clear
12:55	4.8	120	10.04	0.24	0.5	23.62	-133	0.00	9.43	Clear
13:00	5.4	*120*	10.04	0.243	0.2	23.64	-136	0.00	9.43	Clear
13:00	***SAMPLE***	120	10.04	0.243	0.2	23.64	-136	0.00	9.43	Clear

Notes / Sample Information

Sample ID - **MW-100B/250811**
Sample Time - **13:00**

Appearance at Start - **Clear**
Appearance After Purging - **Clear**

Additional Sample - **None**
Additional Sample ID - **NA**

Approx. Total Volume Purged - **5.4** liters
Purge Rate - **120** mL/min

DTW After Purging - **9.43** ft bTOC
DTW at Time of Sampling - **9.43** ft bTOC

Notes

Confidential

RAMBOLL

Low Flow Groundwater Sampling Field Log

Monitoring Well - **MW-100E**

Site **ESCO Steel Treaters**
Location **Troy, NY**

Sampling Information

Date (MM/DD/YY) - **August 11, 2025**
Personnel - **J. Cook**
Weather - **85 degrees, sunny**
Sampling Device - **Geotech Bladder Pump**

Pump Controller - **MP50**
Refill - **10.0** sec
Discharge - **5.0** sec
Pressure - **9** psi

Well Information

Well Vault PID - **0.0** ppm
Well Casing PID - **0.0** ppm
Well Diameter - **2.0** Inches

Measured Depth to Bottom - **15.32** ft BTOC
Depth to Pump Intake - **14.3** ft BTOC
Pre-Pump (Static) Depth to Water - **9.12** ft BTOC
Post-Pump Depth to Water - **9.12** ft BTOC

Well Evacuation Data

Stabilization Criteria			± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
14:10	-	140	9.29	0.32	24.7	24.00	-218	0.00	9.52	clear
14:15	0.7	140	9.66	0.31	17.6	22.75	-239	0.00	9.52	clear
14:20	1.4	140	9.87	0.30	14.9	22.18	-244	0.00	9.52	clear
14:25	2.1	140	10.00	0.290	12.0	22.15	-249	0.00	9.52	clear
14:30	2.8	140	10.06	0.286	10.3	22.13	-252	0.00	9.52	clear
14:35	3.5	140	10.17	0.278	8.0	22.01	-256	0.00	9.52	clear
14:40	4.2	140	10.24	0.271	6.7	21.88	-259	0.00	9.52	clear
14:45	4.9	140	10.32	0.26	5.5	21.75	-261	0.00	9.52	clear
14:50	5.6	140	10.38	0.26	5.5	21.77	-262	0.00	9.52	clear
14:55	6.3	*140*	10.42	0.252	5.3	21.87	-264	0.00	9.52	clear
15:00	7.0	140	10.43	0.250	5.4	21.85	-264	0.00	9.52	clear
15:05	7.7	140	10.45	0.248	5.5	21.87	-264	0.00	9.52	clear
15:05	***SAMPLE***	140	10.45	0.248	5.5	21.87	-264	0.00	9.52	clear

Sample ID - **MW-100E/250811**
Sample Time - **15:05**

Notes / Sample Information

Appearance at Start - **Clear**
Appearance After Purging - **Clear**

Additional Sample - **None**
Additional Sample ID - **NA**

Approx. Total Volume Purged - **7.7** liters
Purge Rate - **140** mL/min

DTW After Purging - **9.52** ft bTOC
DTW at Time of Sampling - **9.52** ft bTOC

Notes

Confidential

RAMBOLL

Low Flow Groundwater Sampling Field Log

Monitoring Well - **MW-101I**

Site **ESCO Steel Treaters**
Location **Troy, NY**

Sampling Information

Date (MM/DD/YY) - **August 12, 2025**
Personnel - **K. Walker**
Weather - **82 degrees, sunny**
Sampling Device - **Geotech Bladder Pump**

Pump Controller - **MP50**
Refill - **12.0** sec
Discharge - **3.0** sec
Pressure - **12** psi

Well Information

Well Vault PID - **0.1** ppm
Well Casing PID - **0.5** ppm
Well Diameter - **2.0** Inches

Measured Depth to Bottom - **11.65** ft BTOC
Depth to Pump Intake - **10.5** ft BTOC
Pre-Pump (Static) Depth to Water - **7.98** ft BTOC
Post-Pump Depth to Water - **7.98** ft BTOC

Well Evacuation Data

Stabilization Criteria			± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
10:50	0.0	*120*	6.71	0.300	0.0	25.36	282	7.24	8.05	Clear
10:55	0.6	*110*	6.69	0.298	0.0	24.31	285	4.21	8.06	Clear
11:00	1.2	*110*	6.67	0.295	0.0	24.22	291	1.47	8.07	Clear
11:05	1.7	*110*	6.69	0.301	0.0	24.43	290	1.22	8.07	Clear
11:10	2.3	*110*	6.69	0.305	0.0	24.51	287	1.04	8.09	Clear
11:15	2.8	*110*	6.69	0.307	0.0	24.72	285	0.89	8.10	Clear
11:20	3.4	*110*	6.69	0.309	0.0	24.85	282	0.81	8.10	Clear
11:25	3.9	*110*	6.69	0.325	0.0	24.28	279	0.92	8.11	Clear
11:30	4.5	*110*	6.70	0.323	0.0	24.16	275	1.01	8.11	Clear
11:35	5.0	*110*	6.69	0.326	0.0	23.99	274	1.03	8.11	Clear
11:35	***SAMPLE***	110	6.69	0.326	0.0	23.99	274	1.03	8.11	Clear

Notes / Sample Information

Sample ID - **MW-101I/250812**
Sample Time - **11:35**

Appearance at Start - **Clear**
Appearance After Purging - **Clear**

Additional Sample - **None**
Additional Sample ID - **N/A**

Approx. Total Volume Purged - **5.0** liters
Purge Rate - **110-120** mL/min

DTW After Purging - **8.11** ft bTOC
DTW at Time of Sampling - **8.11** ft bTOC

Notes

Confidential

RAMBOLL

Low Flow Groundwater Sampling Field Log

Monitoring Well - **MW-102IR**

Site **ESCO Steel Treaters**
Location **Troy, NY**

Sampling Information

Date (MM/DD/YY) - **August 13, 2025**
Personnel - **J. Cook**
Weather - **85 degrees, cloudy**
Sampling Device - **Geotech Bladder Pump**

Pump Controller - **MP50**
Refill - **10.0** sec
Discharge - **5.0** sec
Pressure - **8** psi

Well Information

Well Vault PID - **0.0** ppm
Well Casing PID - **0.2** ppm
Well Diameter - **2.0** Inches

Measured Depth to Bottom - **15.97** ft BTOC
Depth to Pump Intake - **15.0** ft BTOC
Pre-Pump (Static) Depth to Water - **11.80** ft BTOC
Post-Pump Depth to Water - **11.84** ft BTOC

Well Evacuation Data

Stabilization Criteria			± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
14:35	-	140	6.93	0.38	28.3	27.28	214	0.44	11.94	clear
14:40	0.7	140	6.82	0.39	3.4	26.14	200	0.30	11.94	clear
14:45	1.4	140	6.81	0.40	0.0	25.54	188	0.32	12.08	clear
14:50	2.1	140	6.80	0.407	0.0	25.28	180	0.29	12.08	clear
14:55	2.8	140	6.80	0.413	0.0	25.01	173	0.26	12.08	clear
15:00	3.5	140	6.79	0.418	0.0	24.77	169	0.58	12.08	clear
15:05	4.2	140	6.80	0.422	0.0	24.57	167	0.26	12.08	clear
15:10	4.9	140	6.80	0.43	0.0	24.32	164	0.21	12.08	clear
15:15	5.6	140	6.81	0.43	0.0	24.19	162	0.18	12.08	clear
15:20	6.3	*140*	6.82	0.435	0.0	24.11	161	0.17	12.08	clear
15:25	7.0	140	6.83	0.438	0.0	24.02	160	0.16	12.08	clear
15:30	7.7	140	6.82	0.443	0.0	23.94	159	0.17	12.08	clear
15:30	***SAMPLE***	140	6.82	0.443	0.0	23.94	159	0.17	12.08	clear

Notes / Sample Information

Sample ID - **MW-102IR/250811**
Sample Time - **15:30**

Appearance at Start - **Clear**
Appearance After Purging - **Clear**

Additional Sample - **None**
Additional Sample ID - **NA**

Approx. Total Volume Purged - **7.7** liters
Purge Rate - **140** mL/min

DTW After Purging - **12.08** ft bTOC
DTW at Time of Sampling - **12.08** ft bTOC

Notes

Confidential

RAMBOLL

Low Flow Groundwater Sampling Field Log

Monitoring Well - **MW-102B**

Site **ESCO Steel Treaters**
Location **Troy, NY**

Sampling Information

Date (MM/DD/YY) - **August 13, 2025**
Personnel - **J. Cook**
Weather - **86 degrees, sunny**
Sampling Device - **Geotech Bladder Pump**

Pump Controller - **MP50**
Refill - **10.0** sec
Discharge - **5.0** sec
Pressure - **12** psi

Well Information

Well Vault PID - **2.8** ppm
Well Casing PID - **26.1** ppm
Well Diameter - **2.0** Inches

Measured Depth to Bottom - **16.70** ft BTOC
Depth to Pump Intake - **15.7** ft BTOC
Pre-Pump (Static) Depth to Water - **12.45** ft BTOC
Post-Pump Depth to Water - **12.45** ft BTOC

Well Evacuation Data

Stabilization Criteria			± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
11:50	-	130	9.14	0.29	14.8	24.24	-98	7.41	12.47	Clear
11:55	0.7	130	9.25	0.29	10.3	25.11	-111	3.59	12.47	Clear
12:00	1.3	130	9.25	0.29	8.7	25.31	-105	3.13	12.47	Clear
12:05	2.0	130	9.24	0.292	4.8	25.62	-114	2.80	12.47	Clear
12:10	2.6	130	9.24	0.290	2.8	26.16	-125	2.35	12.47	Clear
12:15	3.3	130	9.24	0.286	0.5	26.40	-132	1.98	12.47	Clear
12:20	3.9	130	9.23	0.290	0.0	26.28	-137	1.97	12.47	Clear
12:25	4.6	130	9.23	0.29	0.0	26.51	-148	1.57	12.47	Clear
12:30	5.2	130	9.23	0.29	0.0	26.77	-139	1.43	12.47	Clear
12:35	5.9	*130*	9.23	0.288	0.0	27.08	-150	1.19	12.47	Clear
12:40	6.5	130	9.23	0.283	0.0	27.31	-160	1.10	12.47	Clear
12:45	7.2	130	9.22	0.286	0.0	26.35	-174	0.96	12.47	Clear
12:50	7.8	130	9.21	0.286	0.0	26.10	-190	0.94	12.47	Clear
12:55	8.5	*130*	9.19	0.291	0.0	25.41	-203	0.83	12.47	Clear
13:00	9.1	*130*	9.18	0.289	0.0	25.23	-208	0.75	12.47	Clear
13:05	9.8	*130*	9.14	0.291	0.0	25.11	-206	0.68	12.47	Clear
13:10	10.4	*130*	9.18	0.291	0.0	25.32	-215	0.69	12.47	Clear
13:10	***SAMPLE***	130	9.18	0.291	0.0	25.32	-215	0.69	12.47	Clear

Notes / Sample Information

Sample ID - **MW-102B/250813**
Sample Time - **13:10**

Appearance at Start - **Clear**
Appearance After Purging - **Clear**

Additional Sample - **None**
Additional Sample ID - **NA**

Approx. Total Volume Purged - **10.4** liters
Purge Rate - **130** mL/min

DTW After Purging - **12.47** ft bTOC
DTW at Time of Sampling - **12.47** ft bTOC

Notes

Confidential

RAMBOLL

Low Flow Groundwater Sampling Field Log

Monitoring Well - **MW-102ER**

Site **ESCO Steel Treaters**
Location **Troy, NY**

Sampling Information

Date (MM/DD/YY) - **August 12, 2025**
Personnel - **J. Cook**
Weather - **87 degrees, sunny**
Sampling Device - **Geotech Bladder Pump**

Pump Controller - **MP50**
Refill - **10.0** sec
Discharge - **5.0** sec
Pressure - **10** psi

Well Information

Well Vault PID - **0.0** ppm
Well Casing PID - **0.0** ppm
Well Diameter - **2.0** Inches

Measured Depth to Bottom - **15.63** ft BTOC
Depth to Pump Intake - **14.5** ft BTOC
Pre-Pump (Static) Depth to Water - **11.72** ft BTOC
Post-Pump Depth to Water - **11.72** ft BTOC

Well Evacuation Data

Stabilization Criteria			± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
14:15	-	150	8.48	0.15	8.2	24.50	-183	0.00	11.72	clear
14:20	0.8	150	8.59	0.15	5.5	23.67	-228	0.00	11.72	clear
14:25	1.5	150	8.61	0.15	4.8	23.58	-238	0.00	11.72	clear
14:30	2.3	150	8.64	0.148	4.7	23.54	-253	0.00	11.72	clear
14:35	3.0	150	8.67	0.149	4.7	23.51	-258	0.00	11.72	clear
14:40	3.8	150	8.69	0.149	4.7	23.48	-261	0.00	11.72	clear
14:45	4.5	150	8.72	0.149	5.0	23.41	-263	0.00	11.72	clear
14:45	***SAMPLE***	150	8.72	0.149	5.0	23.41	-263	0.00	11.72	clear

Notes / Sample Information

Sample ID - **MW-102ER/250812**
Sample Time - **14:45**

Appearance at Start - **Clear**
Appearance After Purging - **Clear**

Additional Sample - **None**
Additional Sample ID - **NA**

Approx. Total Volume Purged - **4.5** liters
Purge Rate - **150** mL/min

DTW After Purging - **11.72** ft bTOC
DTW at Time of Sampling - **11.72** ft bTOC

Notes

Confidential

Low Flow Groundwater Sampling Field Log

Monitoring Well - **MW-103I**

Site ESCO Steel Treaters
Location Troy, NY

Sampling Information

Date (MM/DD/YY) - **August 13, 2025**
Personnel - **N. Hertz**
Weather - **88 degrees, sunny**
Sampling Device - **Geotech Bladder Pump**

Pump Controller - **MP50**
Refill - **11.0** sec
Discharge - **4.0** sec
Pressure - **10** psi

Well Information

Well Vault PID - **0.2** ppm
Well Casing PID - **2.6** ppm
Well Diameter - **2.0** Inches

Measured Depth to Bottom - **15.98** ft BTOC
Depth to Pump Intake - **14.0** ft BTOC
Pre-Pump (Static) Depth to Water - **11.96** ft BTOC
Post-Pump Depth to Water - **11.96** ft BTOC

Well Evacuation Data

Stabilization Criteria			± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
12:00	0.0	150	6.91	0.47	0.0	21.31	148	1.60	12.09	Clear
12:05	0.8	150	6.91	0.47	0.0	21.31	149	0.97	12.15	Clear
12:10	1.5	150	6.9	0.47	0.0	21.42	147	0.50	12.15	Clear
12:15	2.3	150	6.90	0.459	0.0	22.56	145	0.40	12.25	Clear
12:20	3.0	100	6.90	0.458	0.0	23.95	143	0.44	12.26	Clear
12:25	3.5	100	6.90	0.459	0.0	25.00	142	0.68	12.26	Clear
12:30	4.0	100	6.90	0.463	0.0	26.55	138	0.80	12.24	Clear
12:35	4.5	100	6.91	0.47	0.0	27.05	139	0.73	12.24	Clear
12:35	***SAMPLE***	100	6.91	0.465	0.0	27.05	139	0.73	12.24	Clear

Notes / Sample Information

Sample ID - **MW-103I/250813**
Sample Time - **12:35**

Appearance at Start - **Clear**
Appearance After Purging - **Clear**

Additional Sample - **None**
Additional Sample ID - **NA**

Approx. Total Volume Purged - **4.5** liters
Purge Rate - **100-150** mL/min

DTW After Purging - **12.24** ft bTOC
DTW at Time of Sampling - **12.24** ft bTOC

Notes

Confidential

Low Flow Groundwater Sampling Field Log

Monitoring Well - **MW-103B**

Site **ESCO Steel Treaters**
Location **Troy, NY**

Sampling Information

Date (MM/DD/YY) - **August 12, 2025**
Personnel - **K. Walker**
Weather - **90 degrees, sunny**
Sampling Device - **Geotech Bladder Pump**

Pump Controller - **MP50**
Refill - **10.0** sec
Discharge - **5.0** sec
Pressure - **15** psi

Well Information

Well Vault PID - **1.1** ppm
Well Casing PID - **21.2** ppm
Well Diameter - **2.0** Inches

Measured Depth to Bottom - **16.59** ft BTOC
Depth to Pump Intake - **15.5** ft BTOC
Pre-Pump (Static) Depth to Water - **12.28** ft BTOC
Post-Pump Depth to Water - **12.28** ft BTOC

Well Evacuation Data

Stabilization Criteria			± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
13:50	0.0	*160*	9.42	0.180	0.0	28.06	5	1.59	12.36	Clear
13:55	0.8	*160*	9.75	0.196	0.0	24.77	-55	0.33	12.37	Clear
14:00	1.6	*160*	9.73	0.206	0.0	23.93	-73	0.14	12.38	Clear
14:05	2.4	*160*	9.72	0.214	0.0	23.36	-78	0.05	12.38	Clear
14:10	3.2	*160*	9.71	0.217	0.0	23.11	-82	0.00	12.38	Clear
14:15	4.0	*160*	9.70	0.219	0.0	22.83	-85	0.00	12.38	Clear
14:20	4.8	*160*	9.69	0.221	0.0	22.72	-86	0.00	12.38	Clear
14:25	5.6	*160*	9.69	0.222	0.0	22.62	-86	0.00	12.38	Clear
14:30	6.4	*160*	9.69	0.223	0.0	22.66	-86	0.00	12.38	Clear
14:30	***SAMPLE***	160	9.69	0.223	0.0	22.66	-86	0.00	12.38	Clear

Notes / Sample Information

Sample ID - MW-103B/250812
Sample Time - 14:30

Appearance at Start - **Clear**
Appearance After Purging - **Clear**

Additional Sample - None
Additional Sample ID - NA

Approx. Total Volume Purged - **6.4** liters
Purge Rate - **160** mL/min

DTW After Purging - **12.38** ft bTOC
DTW at Time of Sampling - **12.38** ft bTOC

Notes

Confidential

RAMBOLL

Low Flow Groundwater Sampling Field Log

Monitoring Well - **MW-103ER**

Site **ESCO Steel Treaters**
Location **Troy, NY**

Sampling Information

Date (MM/DD/YY) - **August 12, 2025**
Personnel - **K. Walker**
Weather - **86 degrees, sunny**
Sampling Device - **Geotech Bladder Pump**

Pump Controller - **MP50**
Refill - **12.0** sec
Discharge - **3.0** sec
Pressure - **10** psi

Well Information

Well Vault PID - **0.2** ppm
Well Casing PID - **0.9** ppm
Well Diameter - **2.0** Inches

Measured Depth to Bottom - **15.26** ft BTOC
Depth to Pump Intake - **14.2** ft BTOC
Pre-Pump (Static) Depth to Water - **11.78** ft BTOC
Post-Pump Depth to Water - **11.78** ft BTOC

Well Evacuation Data

Stabilization Criteria			± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
12:25	0.0	*160*	6.82	0.220	16.0	22.36	-18	4.18	11.82	Clear
12:30	0.8	*100*	6.80	0.210	1.4	22.02	-8	1.21	11.87	Clear
12:35	1.3	*100*	6.77	0.199	0.0	21.07	1	0.15	11.91	Clear
12:40	1.8	*100*	6.80	0.196	0.0	21.32	18	0.14	11.94	Clear
12:45	2.3	*100*	6.83	0.195	0.0	21.42	24	0.09	11.99	Clear
12:50	2.8	*100*	6.87	0.197	0.0	21.41	41	0.06	12.02	Clear
12:55	3.3	*100*	6.91	0.199	0.0	21.50	51	0.00	12.05	Clear
13:00	3.8	*100*	6.94	0.200	0.0	21.52	54	0.00	12.07	Clear
13:05	4.3	*100*	6.97	0.196	0.0	21.59	59	0.00	12.08	Clear
13:05	***SAMPLE***	100	6.97	0.196	0.0	21.59	59	0.00	12.08	Clear

Sample ID - **MW-103ER/250812**
Sample Time - **13:05**

Notes / Sample Information

Appearance at Start - **Clear**
Appearance After Purging - **Clear**

Additional Sample - **None**
Additional Sample ID - **NA**

Approx. Total Volume Purged - **4.3** liters
Purge Rate - **100-160** mL/min

DTW After Purging - **12.08** ft bTOC
DTW at Time of Sampling - **12.08** ft bTOC

Notes

Confidential

RAMBOLL

Low Flow Groundwater Sampling Field Log

Monitoring Well - **MW-104I**

Site **ESCO Steel Treaters**
Location **Troy, NY**

Sampling Information

Date (MM/DD/YY) - **August 12, 2025**
Personnel - **J. Cook**
Weather - **72 degrees, sunny**
Sampling Device - **Geotech Bladder Pump**

Pump Controller - **MP50**
Refill - **10.0** sec
Discharge - **5.0** sec
Pressure - **15** psi

Well Information

Well Vault PID - **0.0** ppm
Well Casing PID - **0.0** ppm
Well Diameter - **2.0** Inches

Measured Depth to Bottom - **28.23** ft BTOC
Depth to Pump Intake - **26.4** ft BTOC
Pre-Pump (Static) Depth to Water - **11.95** ft BTOC
Post-Pump Depth to Water - **11.95** ft BTOC

Well Evacuation Data

Stabilization Criteria			± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
9:00	-	150	7.13	0.70	64.0	15.49	-54	3.01	12.35	clear, tinged brown
9:05	0.8	150	7.25	0.70	57.8	15.22	-63	2.08	12.39	clear, tinged brown
9:10	1.5	150	7.28	0.70	47.1	15.11	-67	1.62	12.39	clear, tinged brown
9:15	2.3	150	7.30	0.702	38.7	15.11	-71	1.37	12.39	clear, tinged brown
9:20	3.0	150	7.32	0.702	33.3	15.10	-76	0.88	12.39	clear, tinged brown
9:25	3.8	150	7.32	0.700	28.5	15.10	-78	0.70	12.39	clear, tinged brown
9:30	4.5	150	7.33	0.700	26.8	15.00	-80	0.45	12.39	clear, tinged brown
9:35	5.3	150	7.33	0.70	26.0	15.02	-81	0.23	12.39	clear, tinged brown
9:40	6.0	150	7.34	0.70	22.1	15.05	-83	0.00	12.39	clear, tinged brown
9:45	6.8	*150*	7.34	0.695	22.5	15.03	-83	0.00	12.39	clear, tinged brown
9:50	7.5	150	7.34	0.694	18.8	15.09	-84	0.00	12.39	clear, tinged brown
9:55	8.3	150	7.35	0.693	20.4	15.13	-84	0.00	12.39	clear, tinged brown
10:00	9.0	150	7.35	0.691	18.4	15.05	-85	0.00	12.39	clear, tinged brown
10:00	***SAMPLE***	150	7.35	0.691	18.4	15.05	-85	0.00	12.39	clear, tinged brown

Sample ID - **MW-104I/250812**
Sample Time - **10:00**

Notes / Sample Information

Appearance at Start - **Clear**
Appearance After Purging - **Clear**

Additional Sample - **None**
Additional Sample ID - **NA**

Approx. Total Volume Purged - **9.0** liters
Purge Rate - **150** mL/min

DTW After Purging - **12.39** ft bTOC
DTW at Time of Sampling - **12.39** ft bTOC

Notes

Confidential

RAMBOLL

Low Flow Groundwater Sampling Field Log

Monitoring Well - **MW-104E**

Site **ESCO Steel Treaters**
Location **Troy, NY**

Sampling Information

Date (MM/DD/YY) - **August 12, 2025**
Personnel - **J. Cook**
Weather - **82 degrees, sunny**
Sampling Device - **Geotech Bladder Pump**

Pump Controller - **MP50**
Refill - **10.0** sec
Discharge - **5.0** sec
Pressure - **15** psi

Well Information

Well Vault PID - **0.0** ppm
Well Casing PID - **0.0** ppm
Well Diameter - **2.0** Inches

Measured Depth to Bottom - **24.74** ft BTOC
Depth to Pump Intake - **23.0** ft BTOC
Pre-Pump (Static) Depth to Water - **16.34** ft BTOC
Post-Pump Depth to Water - **16.34** ft BTOC

Well Evacuation Data

Stabilization Criteria			± 0.1 SU	± 3 %	± 10 %	± 3 %	± 10 mV	± 10 %	0.3 ft	
Time	**Vol.** L	**Rate** mL/min	**pH** Std	**Cond.** ms/cm	**Turb.** NTU	**Temp.** C	**ORP** mV	**DO** mg/L	**DTW** ft	**Appearance or Comments**
11:00	-	150	7.44	0.62	137.0	18.55	-69	0.00	16.44	clear
11:05	0.8	150	7.42	0.62	149.0	18.09	-91	0.00	16.48	clear
11:10	1.5	150	7.42	0.63	120.0	17.67	-98	0.00	16.48	clear
11:20	2.3	150	7.42	0.641	51.8	17.40	-111	0.00	16.48	clear
11:25	3.0	150	7.42	0.641	45.4	17.37	-113	0.00	16.48	clear
11:30	3.8	150	7.42	0.639	43.7	17.38	-115	0.00	16.48	clear
11:35	4.5	150	7.42	0.644	34.0	17.25	-115	0.00	16.48	clear
11:40	5.3	150	7.42	0.64	30.2	17.39	-117	0.00	16.48	clear
11:45	6.0	150	7.42	0.64	25.8	17.45	-117	0.00	16.48	clear
11:50	6.8	*150*	7.42	0.638	24.4	17.49	-117	0.00	16.48	clear
11:55	7.5	150	7.42	0.638	22.9	17.49	-118	0.00	16.48	clear
12:00	8.3	150	7.42	0.636	21.4	17.50	-119	0.00	16.48	clear
12:05	9.0	150	7.42	0.641	18.4	17.42	-119	0.00	16.48	clear
12:10	9.8	*150*	7.42	0.636	17.1	17.70	-120	0.00	16.48	clear
12:15	10.5	*150*	7.42	0.632	15.7	17.97	-120	0.00	16.48	clear
12:20	11.3	*150*	7.42	0.627	14.0	18.00	-120	0.00	16.48	clear
12:25	12.0	*150*	7.42	0.628	12.9	18.21	-121	0.00	16.48	clear
12:30	12.8	*150*	7.42	0.632	12.5	18.03	-121	0.00	16.48	clear
12:35	13.5	*150*	7.42	0.626	11.8	18.36	-121	0.00	16.48	clear
12:40	14.3	*150*	7.42	0.626	10.7	18.37	-122	0.00	16.48	clear
12:45	15.0	*150*	7.42	0.625	10.6	18.51	-122	0.00	16.48	clear
12:50	15.8	*150*	7.42	0.621	10.2	18.46	-122	0.00	16.48	clear
12:50	***SAMPLE***	150	7.42	0.621	10.2	18.46	-122	0.00	16.48	clear

Sample ID - **MW-104E/250812**
Sample Time - **12:50**

Notes / Sample Information

Appearance at Start - **Clear**
Appearance After Purging - **Clear**

Additional Sample - **None**
Additional Sample ID - **NA**

Approx. Total Volume Purged - **15.8** liters
Purge Rate - **150** mL/min

DTW After Purging - **16.48** ft bTOC
DTW at Time of Sampling - **16.48** ft bTOC

Notes

Confidential

APPENDIX E
WASTE MANIFEST – 13TH SAMPLING EVENT

Please print or type. (Form designed for use on elite (12-pitch)typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of: 1

3. Emergency Response Phone: 508-828-1005

4. Manifest Tracking Number:

GENERATOR

5. Generator's Name and Mailing Address
ESCO Corporation
520 Campbell Avenue
Troy NY 12018
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: GLOBAL REMEDIATION SERVICES
U.S. EPA ID Number: MAC300012803

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Globalcycle, Inc.
700 Richmond Street
East Taunton MA 02718
Facility's Phone: 508 828-1005
U.S. EPA ID Number: N/A

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol	
	1. NON-DOT / NON-RCRA REGULATED LIQUID (Non-Hazardous Waste Water)	001	TT		G	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1) Approval # E-260-001

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Naomi Hertz as an agent of ESCO Corporation
Signature
Month: 08 Day: 22 Year: 25

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Mike Campbell
Signature
Month: 8 Day: 22 Year: 25

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

ITEM# WM550 To Reorder Call - Pro's Choice Printing, Inc. 1-888-801-1515 www.proschoiceprinting.com

6-GENERATOR'S INITIAL COPY

APPENDIX F
LABORATORY ANALYTICAL REPORTS – 13TH SAMPLING EVENT

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Patrick Sommer
Ramboll Americas Engineering Solutions
100 Pearl Street
East Tower, Third Floor
Hartford CT 06103

Generated 8/20/2025 8:44 PM

JOB DESCRIPTION

ESCO Steel Treaters Project

JOB NUMBER

620-28495-1

Eurofins Rhode Island
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

my EOL

Eurofins Rhode Island

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

Generated
8/20/2025 8:44 PM

Authorized for release by
Michael T Chang, Project Manager II
Michael.Chang@et.eurofinsus.com
Designee for
Krishnan F Scott, Project Manager I
Krishnan.Scott@et.eurofinsus.com
401 267-4375

Table of Contents

Cover Title Page 1

Data Summaries 8

- Report Narrative 8
- Sample Summary 9
- Detection Summary 10
- Method Summary 11
- Client Sample Results 12
- Surrogate Summary 23
- Isotope Dilution Summary 24
- QC Sample Results 25
- Definitions 36
- QC Association 38
- Chronicle 41
- Certification Summary 43
- Reagent Traceability 45
  - COAs 58

Organic Sample Data 148

- GC/MS VOA 148
  - Method 8260C 148
    - Method 8260C QC Summary 149
    - Method 8260C Sample Data 159
    - Standards Data 236
      - Method 8260C ICAL Data 236
      - Method 8260C CCAL Data 419
    - Raw QC Data 448
      - Method 8260C Tune Data 448

Table of Contents

Method 8260C Blank Data 456

Method 8260C LCS/LCSD Data 469

Method 8260C Run Logs 492

Method 8260C Prep Data 494

GC/MS Semi VOA 498

8270D_SIM_MS_ID 498

8270D_SIM_MS_ID QC Summary 499

8270D_SIM_MS_ID Sample Data 507

Standards Data 524

8270D_SIM_MS_ID ICAL Data 524

8270D_SIM_MS_ID CCAL Data 546

Raw QC Data 554

8270D_SIM_MS_ID Tune Data 554

8270D_SIM_MS_ID Blank Data 572

8270D_SIM_MS_ID LCS/LCSD Data 576

8270D_SIM_MS_ID Run Logs 585

8270D_SIM_MS_ID Prep Data 587

HPLC/IC 590

9056A_ORGFM_28D 590

9056A_ORGFM_28D QC Summary 591

9056A_ORGFM_28D Sample Data 595

Standards Data 604

9056A_ORGFM_28D ICAL Data 604

9056A_ORGFM_28D CCAL Data 630

Raw QC Data 651

9056A_ORGFM_28D Blank Data 651

Table of Contents

9056A_ORGFM_28D LCS/LCSD Data 671

9056A_ORGFM_28D MS/MSD Data 677

9056A_ORGFM_28D Duplicate/Triplicate Data 680

9056A_ORGFM_28D Run Logs 683

9056A_ORGFM_28D Prep Data 686

9056A_ORGFM_48H 689

9056A_ORGFM_48H QC Summary 690

9056A_ORGFM_48H Sample Data 694

Standards Data 704

9056A_ORGFM_48H ICAL Data 704

9056A_ORGFM_48H CCAL Data 722

Raw QC Data 742

9056A_ORGFM_48H Blank Data 742

9056A_ORGFM_48H LCS/LCSD Data 762

9056A_ORGFM_48H MS/MSD Data 770

9056A_ORGFM_48H Duplicate/Triplicate Data 773

9056A_ORGFM_48H Run Logs 776

9056A_ORGFM_48H Prep Data 778

Inorganic Sample Data 781

Metals Data 781

Met Cover Page 782

Met Sample Data 783

Met QC Data 789

Met ICV/CCV 789

Met CRQL 791

Met Blanks 792

Table of Contents

Met ICSA/ICSAB 795
Met MS/MSD/PDS 797
Met Dup/Trip 798
Met LCS/LCSD 799
Met MDL 800
Met Linear Ranges 804
Met Preparation Log 805
Met Analysis Run Log 806
Met ICP/MS Int Stds 808
Met Raw Data 809
Met Prep Data 893
General Chemistry Data 895
Gen Chem Cover Page 896
Gen Chem Sample Data 897
Gen Chem QC Data 900
Gen Chem ICV/CCV 900
Gen Chem Blanks 903
Gen Chem MS/MSD/PDS 904
Gen Chem Duplicates 905
Gen Chem LCS/LCSD 906
Gen Chem MDL 909
Gen Chem Linear Ranges 915
Gen Chem Analysis Run Log 916
Gen Chem Raw Data 927
Gen Chem Prep Data 1051
Shipping and Receiving Documents 1056

Table of Contents

Client Chain of Custody 1056

Job Narrative
620-28495-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 8/12/2025 11:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

GC/MS VOA
Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 620-51995 recovered outside control limits for the following analyte: Styrene. This analyte was biased high in the LCSD and was not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The large number of analytes included in the continuing calibration verification ((CCVIS 620-51995/3)) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased low): Bromomethane. Affected analytes (biased high): Styrene.

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

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

HPLC/IC
Method 9056A_ORGFM_48H: The continuing calibration verification (CCV) associated with batch 410-684514 recovered above the upper control limit for nitrate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Method 9056A_ORGFM_48H: The laboratory control sample (LCS) for analytical batch 410-684514 recovered outside control limit for nitrate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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

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

General Chemistry
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: ESCO Steel Treaters Project

Job ID: 620-28495-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
620-28495-1	MW-11/250811	Water	08/11/25 13:15	08/12/25 11:07	New York
620-28495-2	MW-100B/250811	Water	08/11/25 13:00	08/12/25 11:07	New York
620-28495-3	MW-100E/250811	Water	08/11/25 15:05	08/12/25 11:07	New York
620-28495-4	FB/250811	Water	08/11/25 15:15	08/12/25 11:07	New York
620-28495-5	TB/250811	Water	08/11/25 00:00	08/12/25 11:07	New York

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28495-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: MW-11/250811 — Lab Sample ID: 620-28495-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.0	J B	10	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	0.39	J	1.0	0.36	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.5		1.0	0.30	ug/L	1		8260C	Total/NA
Trichloroethene	3.1		1.0	0.36	ug/L	1		8260C	Total/NA
Trichlorofluoromethane (Freon 11)	0.23	J	1.0	0.23	ug/L	1		8260C	Total/NA

Client Sample ID: MW-100B/250811 — Lab Sample ID: 620-28495-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.8	J B	10	0.90	ug/L	1		8260C	Total/NA
Benzene	0.39	J	1.0	0.25	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1.2		1.0	0.36	ug/L	1		8260C	Total/NA
1,4-Dioxane	1.6		0.20	0.19	ug/L	1		8270D SIM ID	Total/NA
Chloride	8.82		1.50	0.60	mg/L	1		9056A	Total/NA
Calcium	2.3		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	3.6		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	1.4		1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	48.0		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	127		8.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: MW-100E/250811 — Lab Sample ID: 620-28495-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.5	J B	10	0.90	ug/L	1		8260C	Total/NA
Benzene	0.27	J	1.0	0.25	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	5.9		1.0	0.30	ug/L	1		8260C	Total/NA
Trichloroethene	2.0		1.0	0.36	ug/L	1		8260C	Total/NA
1,4-Dioxane	2.0		0.21	0.20	ug/L	1		8270D SIM ID	Total/NA
Chloride	8.73		1.50	0.60	mg/L	1		9056A	Total/NA
Sulfate	0.65	J	1.50	0.50	mg/L	1		9056A	Total/NA
Calcium	2.1		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	0.52		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	1.7		1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	44.2		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	101		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Organic Carbon	9.6		1.0	0.50	mg/L	1		5310 C-2014	Total/NA
Total Inorganic Carbon	10.7		2.0	0.60	mg/L	1		5310 C-2014	Total/NA

Client Sample ID: FB/250811 — Lab Sample ID: 620-28495-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15	B	10	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: TB/250811 — Lab Sample ID: 620-28495-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.5	J B	10	0.90	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28495-1
Project/Site: ESCO Steel Treaters Project

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET RI
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET RI
9056A	Anions, Ion Chromatography	SW846	ELLE
6010D	Metals (ICP)	SW846	EET RI
2320B-2011	Alkalinity, Total	SM	ELLE
5310 C-2014	Total Organic Carbon/Persulfate - Ultrav	SM	ELLE
3005A	Preparation, Total Metals	SW846	EET RI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET RI
5030C	Purge and Trap	SW846	EET RI
Filtration	Sample Filtration	None	EET RI

Protocol References:

None = None

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

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

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Client Sample ID: MW-11/250811
Lab Sample ID: 620-28495-1

Date Collected: 08/11/25 13:15
Matrix: Water

Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/13/25 15:29	1
Acetone	**5.0**	**J B**	10	0.90	ug/L			08/13/25 15:29	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/13/25 15:29	1
Benzene	1.0	U	1.0	0.25	ug/L			08/13/25 15:29	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/13/25 15:29	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/13/25 15:29	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 15:29	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/13/25 15:29	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/13/25 15:29	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/13/25 15:29	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 15:29	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 15:29	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 15:29	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/13/25 15:29	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/13/25 15:29	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/13/25 15:29	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/13/25 15:29	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/13/25 15:29	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/13/25 15:29	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/13/25 15:29	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/13/25 15:29	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/13/25 15:29	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 15:29	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/13/25 15:29	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/13/25 15:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/13/25 15:29	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/13/25 15:29	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/13/25 15:29	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/13/25 15:29	1
1,1-Dichloroethane	**0.39**	**J**	1.0	0.36	ug/L			08/13/25 15:29	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/13/25 15:29	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/13/25 15:29	1
cis-1,2-Dichloroethene	**3.5**		1.0	0.30	ug/L			08/13/25 15:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/13/25 15:29	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/13/25 15:29	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/13/25 15:29	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/13/25 15:29	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/13/25 15:29	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/13/25 15:29	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/13/25 15:29	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 15:29	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/13/25 15:29	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/13/25 15:29	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/13/25 15:29	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/13/25 15:29	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 15:29	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/13/25 15:29	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/13/25 15:29	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/13/25 15:29	1

Client Sample ID: MW-11/250811
Lab Sample ID: 620-28495-1
Date Collected: 08/11/25 13:15
Matrix: Water
Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 15:29	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/13/25 15:29	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/13/25 15:29	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/13/25 15:29	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 15:29	1
Toluene	1.0	U	1.0	0.28	ug/L			08/13/25 15:29	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/13/25 15:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/13/25 15:29	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/13/25 15:29	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/13/25 15:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/13/25 15:29	1
Trichloroethene	**3.1**		1.0	0.36	ug/L			08/13/25 15:29	1
Trichlorofluoromethane (Freon 11)	**0.23**	**J**	1.0	0.23	ug/L			08/13/25 15:29	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/13/25 15:29	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/13/25 15:29	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 15:29	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/13/25 15:29	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/13/25 15:29	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/13/25 15:29	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/13/25 15:29	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/13/25 15:29	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 15:29	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/13/25 15:29	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 15:29	1
tert-Butanol	10	U	10	8.5	ug/L			08/13/25 15:29	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/13/25 15:29	1
Ethanol	200	U	200	9.1	ug/L			08/13/25 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*08/13/25 15:29*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/13/25 15:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*08/13/25 15:29*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*08/13/25 15:29*	*1*

Client Sample ID: MW-100B/250811
Lab Sample ID: 620-28495-2
Date Collected: 08/11/25 13:00
Matrix: Water
Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/13/25 15:53	1
Acetone	**5.8**	**J B**	10	0.90	ug/L			08/13/25 15:53	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/13/25 15:53	1
Benzene	**0.39**	**J**	1.0	0.25	ug/L			08/13/25 15:53	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/13/25 15:53	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/13/25 15:53	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 15:53	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/13/25 15:53	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/13/25 15:53	1

Client Sample ID: MW-100B/250811
Lab Sample ID: 620-28495-2

Date Collected: 08/11/25 13:00
Matrix: Water
Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/13/25 15:53	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 15:53	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 15:53	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 15:53	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/13/25 15:53	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/13/25 15:53	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/13/25 15:53	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/13/25 15:53	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/13/25 15:53	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/13/25 15:53	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/13/25 15:53	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/13/25 15:53	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/13/25 15:53	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 15:53	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/13/25 15:53	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/13/25 15:53	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/13/25 15:53	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/13/25 15:53	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/13/25 15:53	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/13/25 15:53	1
1,1-Dichloroethane	**1.2**		1.0	0.36	ug/L			08/13/25 15:53	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/13/25 15:53	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/13/25 15:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/13/25 15:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/13/25 15:53	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/13/25 15:53	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/13/25 15:53	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/13/25 15:53	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/13/25 15:53	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/13/25 15:53	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/13/25 15:53	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 15:53	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/13/25 15:53	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/13/25 15:53	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/13/25 15:53	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/13/25 15:53	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 15:53	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/13/25 15:53	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/13/25 15:53	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/13/25 15:53	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 15:53	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/13/25 15:53	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/13/25 15:53	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/13/25 15:53	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 15:53	1
Toluene	1.0	U	1.0	0.28	ug/L			08/13/25 15:53	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/13/25 15:53	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/13/25 15:53	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/13/25 15:53	1

Client Sample ID: MW-100B/250811
Lab Sample ID: 620-28495-2

Date Collected: 08/11/25 13:00
Matrix: Water

Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/13/25 15:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/13/25 15:53	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 15:53	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/13/25 15:53	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/13/25 15:53	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/13/25 15:53	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 15:53	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/13/25 15:53	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/13/25 15:53	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/13/25 15:53	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/13/25 15:53	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/13/25 15:53	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 15:53	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/13/25 15:53	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 15:53	1
tert-Butanol	10	U	10	8.5	ug/L			08/13/25 15:53	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/13/25 15:53	1
Ethanol	200	U	200	9.1	ug/L			08/13/25 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/13/25 15:53*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/13/25 15:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*08/13/25 15:53*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*08/13/25 15:53*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.6**		0.20	0.19	ug/L		08/18/25 18:42	08/20/25 11:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*11*		*10 - 150*	*08/18/25 18:42*	*08/20/25 11:56*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.82**		1.50	0.60	mg/L			08/13/25 09:16	1
Nitrate as N	0.11	U *	0.11	0.050	mg/L			08/13/25 09:16	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/13/25 09:16	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**2.3**		0.50	0.19	mg/L		08/12/25 10:08	08/13/25 14:41	1
Magnesium	**3.6**		0.040	0.038	mg/L		08/12/25 10:08	08/13/25 14:41	1
Potassium	**1.4**		1.0	0.34	mg/L		08/12/25 10:08	08/13/25 14:41	1
Sodium	**48.0**		1.5	0.28	mg/L		08/12/25 10:08	08/13/25 14:41	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/12/25 10:08	08/13/25 15:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	**127**		8.0	2.6	mg/L			08/13/25 20:27	1

Client Sample ID: MW-100E/250811
Lab Sample ID: 620-28495-3

Date Collected: 08/11/25 15:05
Matrix: Water
Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/13/25 16:17	1
Acetone	**7.5**	**J B**	10	0.90	ug/L			08/13/25 16:17	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/13/25 16:17	1
Benzene	**0.27**	**J**	1.0	0.25	ug/L			08/13/25 16:17	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/13/25 16:17	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/13/25 16:17	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 16:17	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/13/25 16:17	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/13/25 16:17	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/13/25 16:17	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 16:17	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 16:17	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 16:17	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/13/25 16:17	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/13/25 16:17	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/13/25 16:17	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/13/25 16:17	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/13/25 16:17	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/13/25 16:17	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/13/25 16:17	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/13/25 16:17	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/13/25 16:17	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 16:17	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/13/25 16:17	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/13/25 16:17	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/13/25 16:17	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/13/25 16:17	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/13/25 16:17	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/13/25 16:17	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/13/25 16:17	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/13/25 16:17	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/13/25 16:17	1
cis-1,2-Dichloroethene	**5.9**		1.0	0.30	ug/L			08/13/25 16:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/13/25 16:17	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/13/25 16:17	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/13/25 16:17	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/13/25 16:17	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/13/25 16:17	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/13/25 16:17	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/13/25 16:17	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 16:17	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/13/25 16:17	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/13/25 16:17	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/13/25 16:17	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/13/25 16:17	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 16:17	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/13/25 16:17	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/13/25 16:17	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/13/25 16:17	1

Client Sample ID: MW-100E/250811
Lab Sample ID: 620-28495-3

Date Collected: 08/11/25 15:05
Matrix: Water

Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 16:17	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/13/25 16:17	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/13/25 16:17	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/13/25 16:17	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 16:17	1
Toluene	1.0	U	1.0	0.28	ug/L			08/13/25 16:17	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/13/25 16:17	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/13/25 16:17	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/13/25 16:17	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/13/25 16:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/13/25 16:17	1
Trichloroethene	**2.0**		1.0	0.36	ug/L			08/13/25 16:17	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/13/25 16:17	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/13/25 16:17	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/13/25 16:17	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 16:17	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/13/25 16:17	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/13/25 16:17	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/13/25 16:17	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/13/25 16:17	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/13/25 16:17	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 16:17	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/13/25 16:17	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 16:17	1
tert-Butanol	10	U	10	8.5	ug/L			08/13/25 16:17	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/13/25 16:17	1
Ethanol	200	U	200	9.1	ug/L			08/13/25 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*08/13/25 16:17*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/13/25 16:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*08/13/25 16:17*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*08/13/25 16:17*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**2.0**		0.21	0.20	ug/L		08/18/25 18:42	08/20/25 12:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*14*		*10 - 150*	*08/18/25 18:42*	*08/20/25 12:13*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.73**		1.50	0.60	mg/L			08/13/25 09:26	1
Nitrate as N	0.11	U *	0.11	0.050	mg/L			08/13/25 09:26	1
Sulfate	**0.65**	**J**	1.50	0.50	mg/L			08/13/25 09:26	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**2.1**		0.50	0.19	mg/L		08/12/25 10:08	08/13/25 14:47	1
Magnesium	**0.52**		0.040	0.038	mg/L		08/12/25 10:08	08/13/25 14:47	1

Client Sample ID: MW-100E/250811
Lab Sample ID: 620-28495-3
Date Collected: 08/11/25 15:05
Matrix: Water
Date Received: 08/12/25 11:07

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**1.7**		1.0	0.34	mg/L		08/12/25 10:08	08/13/25 14:47	1
Sodium	**44.2**		1.5	0.28	mg/L		08/12/25 10:08	08/13/25 14:47	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/12/25 10:08	08/13/25 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	**101**		8.0	2.6	mg/L			08/13/25 20:20	1
Total Organic Carbon (SM 5310 C-2014)	**9.6**		1.0	0.50	mg/L			08/19/25 21:57	1
Total Inorganic Carbon (SM 5310 C-2014)	**10.7**		2.0	0.60	mg/L			08/19/25 21:57	1

Client Sample ID: FB/250811
Lab Sample ID: 620-28495-4
Date Collected: 08/11/25 15:15
Matrix: Water
Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/13/25 16:41	1
Acetone	**15**	**B**	10	0.90	ug/L			08/13/25 16:41	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/13/25 16:41	1
Benzene	1.0	U	1.0	0.25	ug/L			08/13/25 16:41	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/13/25 16:41	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/13/25 16:41	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 16:41	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/13/25 16:41	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/13/25 16:41	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/13/25 16:41	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 16:41	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 16:41	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 16:41	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/13/25 16:41	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/13/25 16:41	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/13/25 16:41	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/13/25 16:41	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/13/25 16:41	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/13/25 16:41	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/13/25 16:41	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/13/25 16:41	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/13/25 16:41	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 16:41	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/13/25 16:41	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/13/25 16:41	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/13/25 16:41	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/13/25 16:41	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/13/25 16:41	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/13/25 16:41	1

Client Sample ID: FB/250811
Lab Sample ID: 620-28495-4

Date Collected: 08/11/25 15:15
Matrix: Water

Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/13/25 16:41	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/13/25 16:41	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/13/25 16:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/13/25 16:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/13/25 16:41	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/13/25 16:41	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/13/25 16:41	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/13/25 16:41	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/13/25 16:41	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/13/25 16:41	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/13/25 16:41	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 16:41	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/13/25 16:41	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/13/25 16:41	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/13/25 16:41	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/13/25 16:41	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 16:41	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/13/25 16:41	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/13/25 16:41	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/13/25 16:41	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 16:41	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/13/25 16:41	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/13/25 16:41	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/13/25 16:41	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 16:41	1
Toluene	1.0	U	1.0	0.28	ug/L			08/13/25 16:41	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/13/25 16:41	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/13/25 16:41	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/13/25 16:41	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/13/25 16:41	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/13/25 16:41	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 16:41	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/13/25 16:41	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/13/25 16:41	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/13/25 16:41	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 16:41	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/13/25 16:41	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/13/25 16:41	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/13/25 16:41	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/13/25 16:41	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/13/25 16:41	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 16:41	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/13/25 16:41	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 16:41	1
tert-Butanol	10	U	10	8.5	ug/L			08/13/25 16:41	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/13/25 16:41	1
Ethanol	200	U	200	9.1	ug/L			08/13/25 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/13/25 16:41*	*1*

Client Sample ID: FB/250811
Lab Sample ID: 620-28495-4
Date Collected: 08/11/25 15:15
Matrix: Water
Date Received: 08/12/25 11:07

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/13/25 16:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*08/13/25 16:41*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*08/13/25 16:41*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.19	ug/L		08/18/25 18:42	08/20/25 12:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*10*		*10 - 150*	*08/18/25 18:42*	*08/20/25 12:31*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.50	U	1.50	0.60	mg/L			08/13/25 09:57	1
Nitrate as N	0.11	U *	0.11	0.050	mg/L			08/13/25 09:57	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/13/25 09:57	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.50	U	0.50	0.19	mg/L		08/12/25 10:08	08/13/25 14:53	1
Magnesium	0.040	U	0.040	0.038	mg/L		08/12/25 10:08	08/13/25 14:53	1
Potassium	1.0	U	1.0	0.34	mg/L		08/12/25 10:08	08/13/25 14:53	1
Sodium	1.5	U	1.5	0.28	mg/L		08/12/25 10:08	08/13/25 14:53	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/12/25 10:08	08/13/25 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	8.0	U	8.0	2.6	mg/L			08/13/25 20:06	1
Total Organic Carbon (SM 5310 C-2014)	1.0	U	1.0	0.50	mg/L			08/15/25 22:39	1
Total Inorganic Carbon (SM 5310 C-2014)	2.0	U	2.0	0.60	mg/L			08/19/25 14:47	1

Client Sample ID: TB/250811
Lab Sample ID: 620-28495-5
Date Collected: 08/11/25 00:00
Matrix: Water
Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/13/25 11:11	1
Acetone	**4.5**	**J B**	10	0.90	ug/L			08/13/25 11:11	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/13/25 11:11	1
Benzene	1.0	U	1.0	0.25	ug/L			08/13/25 11:11	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/13/25 11:11	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/13/25 11:11	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 11:11	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/13/25 11:11	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/13/25 11:11	1

Client Sample ID: TB/250811
Lab Sample ID: 620-28495-5

Date Collected: 08/11/25 00:00
Matrix: Water
Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/13/25 11:11	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 11:11	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 11:11	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 11:11	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/13/25 11:11	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/13/25 11:11	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/13/25 11:11	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/13/25 11:11	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/13/25 11:11	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/13/25 11:11	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/13/25 11:11	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/13/25 11:11	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/13/25 11:11	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 11:11	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/13/25 11:11	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/13/25 11:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/13/25 11:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/13/25 11:11	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/13/25 11:11	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/13/25 11:11	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/13/25 11:11	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/13/25 11:11	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/13/25 11:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/13/25 11:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/13/25 11:11	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/13/25 11:11	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/13/25 11:11	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/13/25 11:11	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/13/25 11:11	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/13/25 11:11	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/13/25 11:11	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 11:11	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/13/25 11:11	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/13/25 11:11	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/13/25 11:11	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/13/25 11:11	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 11:11	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/13/25 11:11	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/13/25 11:11	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/13/25 11:11	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 11:11	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/13/25 11:11	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/13/25 11:11	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/13/25 11:11	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 11:11	1
Toluene	1.0	U	1.0	0.28	ug/L			08/13/25 11:11	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/13/25 11:11	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/13/25 11:11	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/13/25 11:11	1

Client Sample ID: TB/250811
Lab Sample ID: 620-28495-5

Date Collected: 08/11/25 00:00
Matrix: Water

Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/13/25 11:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/13/25 11:11	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 11:11	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/13/25 11:11	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/13/25 11:11	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/13/25 11:11	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 11:11	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/13/25 11:11	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/13/25 11:11	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/13/25 11:11	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/13/25 11:11	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/13/25 11:11	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 11:11	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/13/25 11:11	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 11:11	1
tert-Butanol	10	U	10	8.5	ug/L			08/13/25 11:11	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/13/25 11:11	1
Ethanol	200	U	200	9.1	ug/L			08/13/25 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*08/13/25 11:11*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/13/25 11:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*08/13/25 11:11*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*08/13/25 11:11*	*1*

Surrogate Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28495-1
Project/Site: ESCO Steel Treaters Project

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-28495-1	MW-11/250811	101	100	103	101
620-28495-2	MW-100B/250811	99	98	103	101
620-28495-3	MW-100E/250811	101	99	105	102
620-28495-4	FB/250811	100	100	107	105
620-28495-5	TB/250811	101	99	102	102
LCS 620-51995/4	Lab Control Sample	100	100	96	101
LCSD 620-51995/5	Lab Control Sample Dup	100	100	94	99
MB 620-51995/7	Method Blank	97	98	97	100

Surrogate Legend

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

Isotope Dilution Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28495-1
Project/Site: ESCO Steel Treaters Project

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

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DXE (10-150)							
620-28495-2	MW-100B/250811	11							
620-28495-3	MW-100E/250811	14							
620-28495-4	FB/250811	10							
LCS 620-52299/2-A	Lab Control Sample	12							
LCSD 620-52299/3-A	Lab Control Sample Dup	12							
MB 620-52299/1-A	Method Blank	14							

Surrogate Legend

DXE = 1,4-Dioxane-d8

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

Lab Sample ID: MB 620-51995/7
Matrix: Water
Analysis Batch: 51995

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/13/25 10:03	1
Acetone	1.12	J	10	0.90	ug/L			08/13/25 10:03	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/13/25 10:03	1
Benzene	1.0	U	1.0	0.25	ug/L			08/13/25 10:03	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/13/25 10:03	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/13/25 10:03	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 10:03	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/13/25 10:03	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/13/25 10:03	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/13/25 10:03	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 10:03	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 10:03	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 10:03	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/13/25 10:03	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/13/25 10:03	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/13/25 10:03	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/13/25 10:03	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/13/25 10:03	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/13/25 10:03	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/13/25 10:03	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/13/25 10:03	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/13/25 10:03	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 10:03	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/13/25 10:03	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/13/25 10:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/13/25 10:03	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/13/25 10:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/13/25 10:03	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/13/25 10:03	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/13/25 10:03	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/13/25 10:03	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/13/25 10:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/13/25 10:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/13/25 10:03	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/13/25 10:03	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/13/25 10:03	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/13/25 10:03	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/13/25 10:03	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/13/25 10:03	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/13/25 10:03	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 10:03	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/13/25 10:03	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/13/25 10:03	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/13/25 10:03	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/13/25 10:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 10:03	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/13/25 10:03	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/13/25 10:03	1

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

Lab Sample ID: MB 620-51995/7
Matrix: Water
Analysis Batch: 51995

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	2.0	U	2.0	0.70	ug/L			08/13/25 10:03	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 10:03	1
Styrene	1.0	U	1.0	0.42	ug/L			08/13/25 10:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/13/25 10:03	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/13/25 10:03	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 10:03	1
Toluene	1.0	U	1.0	0.28	ug/L			08/13/25 10:03	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/13/25 10:03	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/13/25 10:03	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/13/25 10:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/13/25 10:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/13/25 10:03	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 10:03	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/13/25 10:03	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/13/25 10:03	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/13/25 10:03	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 10:03	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/13/25 10:03	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/13/25 10:03	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/13/25 10:03	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/13/25 10:03	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/13/25 10:03	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 10:03	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/13/25 10:03	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 10:03	1
tert-Butanol	10	U	10	8.5	ug/L			08/13/25 10:03	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/13/25 10:03	1
Ethanol	200	U	200	9.1	ug/L			08/13/25 10:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/13/25 10:03*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/13/25 10:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*08/13/25 10:03*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*08/13/25 10:03*	*1*

Lab Sample ID: LCS 620-51995/4
Matrix: Water
Analysis Batch: 51995

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-Trichlorotrifluoroethane (Freon 113)	20.0	18.0		ug/L		90	72 - 120
Acetone	20.0	14.5		ug/L		72	19 - 144
Acrylonitrile	20.0	20.2		ug/L		101	67 - 141
Benzene	20.0	18.5		ug/L		92	82 - 120
Bromobenzene	20.0	20.0		ug/L		100	80 - 115
Bromochloromethane	20.0	20.5		ug/L		102	84 - 119
Bromodichloromethane	20.0	20.6		ug/L		103	77 - 118
Bromoform	20.0	20.4		ug/L		102	68 - 130

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

Lab Sample ID: LCS 620-51995/4
Matrix: Water
Analysis Batch: 51995

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	8.33		ug/L		42	27 - 151
2-Butanone (MEK)	20.0	13.6		ug/L		68	32 - 126
n-Butylbenzene	20.0	23.4		ug/L		117	81 - 129
sec-Butylbenzene	20.0	21.0		ug/L		105	81 - 124
tert-Butylbenzene	20.0	21.7		ug/L		109	80 - 128
Carbon disulfide	20.0	21.2		ug/L		106	67 - 136
Carbon tetrachloride	20.0	19.2		ug/L		96	70 - 129
Chlorobenzene	20.0	20.3		ug/L		102	82 - 112
Chloroethane	20.0	17.2		ug/L		86	47 - 142
Chloroform	20.0	19.6		ug/L		98	77 - 126
Chloromethane	20.0	13.0		ug/L		65	26 - 159
2-Chlorotoluene	20.0	21.1		ug/L		106	82 - 122
4-Chlorotoluene	20.0	20.8		ug/L		104	79 - 123
1,2-Dibromo-3-Chloropropane	20.0	19.6		ug/L		98	64 - 117
Dibromochloromethane	20.0	18.6		ug/L		93	71 - 126
1,2-Dibromoethane (EDB)	20.0	20.6		ug/L		103	83 - 122
Dibromomethane	20.0	20.2		ug/L		101	83 - 117
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	87 - 118
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	83 - 122
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	81 - 115
Dichlorodifluoromethane (Freon 12)	20.0	11.4		ug/L		57	21 - 147
1,1-Dichloroethane	20.0	19.7		ug/L		99	84 - 122
1,2-Dichloroethane	20.0	18.2		ug/L		91	69 - 121
1,1-Dichloroethene	20.0	18.7		ug/L		93	83 - 123
cis-1,2-Dichloroethene	20.0	20.9		ug/L		104	85 - 122
trans-1,2-Dichloroethene	20.0	20.0		ug/L		100	84 - 123
1,2-Dichloropropane	20.0	20.3		ug/L		102	80 - 124
1,3-Dichloropropane	20.0	20.1		ug/L		100	80 - 118
2,2-Dichloropropane	20.0	21.4		ug/L		107	74 - 125
1,1-Dichloropropene	20.0	21.0		ug/L		105	76 - 120
cis-1,3-Dichloropropene	20.0	21.0		ug/L		105	76 - 125
trans-1,3-Dichloropropene	20.0	22.0		ug/L		110	77 - 132
Ethylbenzene	20.0	21.4		ug/L		107	85 - 116
Hexachlorobutadiene	20.0	19.3		ug/L		97	70 - 127
2-Hexanone (MBK)	20.0	16.0		ug/L		80	40 - 130
Isopropylbenzene	20.0	19.4		ug/L		97	78 - 122
4-Isopropyltoluene	20.0	21.9		ug/L		109	80 - 121
Methyl tert-butyl ether	20.0	20.6		ug/L		103	72 - 126
4-Methyl-2-pentanone (MIBK)	20.0	17.1		ug/L		86	59 - 130
Methylene Chloride	20.0	19.7		ug/L		99	77 - 124
Naphthalene	20.0	18.4		ug/L		92	57 - 133
N-Propylbenzene	20.0	19.7		ug/L		98	86 - 124
Styrene	20.0	23.7		ug/L		119	80 - 121
1,1,1,2-Tetrachloroethane	20.0	19.5		ug/L		98	81 - 113
1,1,2,2-Tetrachloroethane	20.0	19.0		ug/L		95	74 - 115
Tetrachloroethene	20.0	20.2		ug/L		101	78 - 124
Toluene	20.0	19.4		ug/L		97	83 - 114
1,2,3-Trichlorobenzene	20.0	20.8		ug/L		104	73 - 128

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

Lab Sample ID: LCS 620-51995/4
Matrix: Water
Analysis Batch: 51995

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	20.0	21.3		ug/L		107	74 - 128
1,3,5-Trichlorobenzene	20.0	21.2		ug/L		106	81 - 124
1,1,1-Trichloroethane	20.0	20.1		ug/L		101	76 - 124
1,1,2-Trichloroethane	20.0	20.5		ug/L		102	83 - 120
Trichloroethene	20.0	20.1		ug/L		100	79 - 113
Trichlorofluoromethane (Freon 11)	20.0	18.7		ug/L		93	68 - 130
1,2,3-Trichloropropane	20.0	19.4		ug/L		97	74 - 116
1,2,4-Trimethylbenzene	20.0	22.0		ug/L		110	83 - 121
1,3,5-Trimethylbenzene	20.0	21.4		ug/L		107	82 - 125
Vinyl chloride	20.0	15.7		ug/L		78	49 - 145
m,p-Xylene	40.0	45.9		ug/L		115	82 - 128
o-Xylene	20.0	21.2		ug/L		106	83 - 122
Tetrahydrofuran	20.0	20.5		ug/L		102	59 - 134
Ethyl ether	20.0	18.5		ug/L		93	74 - 119
Tert-amyl methyl ether	20.0	19.4		ug/L		97	70 - 122
Ethyl tert-butyl ether	20.0	20.3		ug/L		102	72 - 122
di-Isopropyl ether	20.0	19.8		ug/L		99	66 - 130
tert-Butanol	200	220		ug/L		110	60 - 146
trans-1,4-Dichloro-2-butene	20.0	19.7		ug/L		98	57 - 146
Ethanol	400	425		ug/L		106	53 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 620-51995/5
Matrix: Water
Analysis Batch: 51995

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
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.0		ug/L		90	72 - 120	0	20
Acetone	20.0	14.0		ug/L		70	19 - 144	3	20
Acrylonitrile	20.0	20.7		ug/L		103	67 - 141	3	20
Benzene	20.0	18.9		ug/L		95	82 - 120	2	20
Bromobenzene	20.0	20.3		ug/L		102	80 - 115	2	20
Bromochloromethane	20.0	21.0		ug/L		105	84 - 119	2	20
Bromodichloromethane	20.0	21.6		ug/L		108	77 - 118	4	20
Bromoform	20.0	21.0		ug/L		105	68 - 130	3	20
Bromomethane	20.0	9.25		ug/L		46	27 - 151	10	20
2-Butanone (MEK)	20.0	13.1		ug/L		66	32 - 126	4	20
n-Butylbenzene	20.0	24.2		ug/L		121	81 - 129	3	20
sec-Butylbenzene	20.0	21.7		ug/L		108	81 - 124	3	20
tert-Butylbenzene	20.0	22.0		ug/L		110	80 - 128	1	20
Carbon disulfide	20.0	21.4		ug/L		107	67 - 136	1	20
Carbon tetrachloride	20.0	19.3		ug/L		97	70 - 129	1	20

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

Lab Sample ID: LCSD 620-51995/5
Matrix: Water
Analysis Batch: 51995

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
Chlorobenzene	20.0	20.8		ug/L		104	82 - 112	3	20
Chloroethane	20.0	15.9		ug/L		80	47 - 142	8	20
Chloroform	20.0	20.0		ug/L		100	77 - 126	2	20
Chloromethane	20.0	12.8		ug/L		64	26 - 159	2	20
2-Chlorotoluene	20.0	21.4		ug/L		107	82 - 122	1	20
4-Chlorotoluene	20.0	21.1		ug/L		106	79 - 123	2	20
1,2-Dibromo-3-Chloropropane	20.0	19.5		ug/L		97	64 - 117	0	20
Dibromochloromethane	20.0	18.8		ug/L		94	71 - 126	1	20
1,2-Dibromoethane (EDB)	20.0	21.2		ug/L		106	83 - 122	3	20
Dibromomethane	20.0	20.4		ug/L		102	83 - 117	1	20
1,2-Dichlorobenzene	20.0	20.8		ug/L		104	87 - 118	2	20
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	83 - 122	4	20
1,4-Dichlorobenzene	20.0	19.7		ug/L		98	81 - 115	2	20
Dichlorodifluoromethane (Freon 12)	20.0	11.6		ug/L		58	21 - 147	2	20
1,1-Dichloroethane	20.0	19.8		ug/L		99	84 - 122	0	20
1,2-Dichloroethane	20.0	18.5		ug/L		92	69 - 121	2	20
1,1-Dichloroethene	20.0	19.3		ug/L		96	83 - 123	3	20
cis-1,2-Dichloroethene	20.0	21.2		ug/L		106	85 - 122	2	20
trans-1,2-Dichloroethene	20.0	20.8		ug/L		104	84 - 123	4	20
1,2-Dichloropropane	20.0	21.2		ug/L		106	80 - 124	4	20
1,3-Dichloropropane	20.0	20.5		ug/L		103	80 - 118	2	20
2,2-Dichloropropane	20.0	21.7		ug/L		108	74 - 125	1	20
1,1-Dichloropropene	20.0	21.8		ug/L		109	76 - 120	4	20
cis-1,3-Dichloropropene	20.0	21.3		ug/L		106	76 - 125	1	20
trans-1,3-Dichloropropene	20.0	22.4		ug/L		112	77 - 132	2	20
Ethylbenzene	20.0	22.1		ug/L		111	85 - 116	4	20
Hexachlorobutadiene	20.0	19.8		ug/L		99	70 - 127	2	20
2-Hexanone (MBK)	20.0	15.6		ug/L		78	40 - 130	3	20
Isopropylbenzene	20.0	19.9		ug/L		99	78 - 122	3	20
4-Isopropyltoluene	20.0	22.4		ug/L		112	80 - 121	2	20
Methyl tert-butyl ether	20.0	21.1		ug/L		105	72 - 126	2	20
4-Methyl-2-pentanone (MIBK)	20.0	18.0		ug/L		90	59 - 130	5	20
Methylene Chloride	20.0	20.1		ug/L		100	77 - 124	2	20
Naphthalene	20.0	19.4		ug/L		97	57 - 133	5	20
N-Propylbenzene	20.0	20.3		ug/L		101	86 - 124	3	20
Styrene	20.0	24.3	*	ug/L		122	80 - 121	2	20
1,1,1,2-Tetrachloroethane	20.0	20.1		ug/L		100	81 - 113	3	20
1,1,2,2-Tetrachloroethane	20.0	19.5		ug/L		97	74 - 115	2	20
Tetrachloroethene	20.0	20.7		ug/L		103	78 - 124	2	20
Toluene	20.0	19.9		ug/L		99	83 - 114	2	20
1,2,3-Trichlorobenzene	20.0	21.7		ug/L		109	73 - 128	5	20
1,2,4-Trichlorobenzene	20.0	21.8		ug/L		109	74 - 128	2	20
1,3,5-Trichlorobenzene	20.0	22.2		ug/L		111	81 - 124	4	20
1,1,1-Trichloroethane	20.0	20.7		ug/L		104	76 - 124	3	20
1,1,2-Trichloroethane	20.0	20.7		ug/L		103	83 - 120	1	20
Trichloroethene	20.0	19.9		ug/L		100	79 - 113	1	20
Trichlorofluoromethane (Freon 11)	20.0	19.0		ug/L		95	68 - 130	1	20

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

Lab Sample ID: LCSD 620-51995/5
Matrix: Water
Analysis Batch: 51995

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
1,2,3-Trichloropropane			20.0	19.9		ug/L		100	74 - 116	3	20
1,2,4-Trimethylbenzene			20.0	22.6		ug/L		113	83 - 121	3	20
1,3,5-Trimethylbenzene			20.0	22.1		ug/L		110	82 - 125	3	20
Vinyl chloride			20.0	15.8		ug/L		79	49 - 145	1	20
m,p-Xylene			40.0	47.4		ug/L		119	82 - 128	3	20
o-Xylene			20.0	21.9		ug/L		110	83 - 122	3	20
Tetrahydrofuran			20.0	20.3		ug/L		102	59 - 134	1	20
Ethyl ether			20.0	19.0		ug/L		95	74 - 119	3	20
Tert-amyl methyl ether			20.0	19.8		ug/L		99	70 - 122	2	20
Ethyl tert-butyl ether			20.0	20.8		ug/L		104	72 - 122	3	20
di-Isopropyl ether			20.0	20.2		ug/L		101	66 - 130	2	20
tert-Butanol			200	235		ug/L		118	60 - 146	7	20
trans-1,4-Dichloro-2-butene			20.0	19.6		ug/L		98	57 - 146	0	20
Ethanol			400	373		ug/L		93	53 - 150	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 620-52299/1-A
Matrix: Water
Analysis Batch: 52418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.19	ug/L		08/18/25 18:42	08/20/25 11:03	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*14*		*10 - 150*	*08/18/25 18:42*	*08/20/25 11:03*	*1*

Lab Sample ID: LCS 620-52299/2-A
Matrix: Water
Analysis Batch: 52418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52299

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			4.00	5.57		ug/L		139	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*12*		*10 - 150*

Lab Sample ID: LCSD 620-52299/3-A
Matrix: Water
Analysis Batch: 52418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 52299

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			4.00	4.98		ug/L		125	40 - 140	11	30

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

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Dioxane-d8	*12*		*10 - 150*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 410-684514/5
Matrix: Water
Analysis Batch: 684514

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/13/25 00:30	1

Lab Sample ID: LCS 410-684514/3
Matrix: Water
Analysis Batch: 684514

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.750	0.851	*	mg/L		113	90 - 110

Lab Sample ID: LCSD 410-684514/4
Matrix: Water
Analysis Batch: 684514

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
Nitrate as N	0.750	0.803		mg/L		107	90 - 110	NaN	20

Lab Sample ID: 620-28495-3 MS
Matrix: Water
Analysis Batch: 684514

Client Sample ID: MW-100E/250811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.11	U *	0.500	1.173	*	mg/L		235	90 - 110

Lab Sample ID: 620-28495-3 DU
Matrix: Water
Analysis Batch: 684514

Client Sample ID: MW-100E/250811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.11	U *	0.11	U *	mg/L		NC	15

Lab Sample ID: MB 410-684515/5
Matrix: Water
Analysis Batch: 684515

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.50	U	1.50	0.60	mg/L			08/13/25 00:30	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/13/25 00:30	1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 410-684515/3
Matrix: Water
Analysis Batch: 684515

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			3.00	3.047		mg/L		102	90 - 110		
Sulfate			7.50	7.369		mg/L		98	90 - 110		

Lab Sample ID: LCSD 410-684515/4
Matrix: Water
Analysis Batch: 684515

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
Chloride			3.00	3.041		mg/L		101	90 - 110	0	20
Sulfate			7.50	7.126		mg/L		95	90 - 110	3	20

Lab Sample ID: 620-28495-3 MS
Matrix: Water
Analysis Batch: 684515

Client Sample ID: MW-100E/250811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	8.73		2.00	11.03	*	mg/L		115	90 - 110		
Sulfate	0.65	J	5.00	7.670	*	mg/L		140	90 - 110		

Lab Sample ID: 620-28495-3 DU
Matrix: Water
Analysis Batch: 684515

Client Sample ID: MW-100E/250811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	8.73			8.776		mg/L				0.5	15
Sulfate	0.65	J		0.586	J	mg/L				10	15

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 620-51922/1-A
Matrix: Water
Analysis Batch: 52051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 51922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.50	U	0.50	0.19	mg/L		08/11/25 17:03	08/13/25 13:59	1
Magnesium	0.040	U	0.040	0.038	mg/L		08/11/25 17:03	08/13/25 13:59	1
Potassium	1.0	U	1.0	0.34	mg/L		08/11/25 17:03	08/13/25 13:59	1
Sodium	1.5	U	1.5	0.28	mg/L		08/11/25 17:03	08/13/25 13:59	1

Lab Sample ID: LCS 620-51922/2-A
Matrix: Water
Analysis Batch: 52051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51922

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			4.50	4.26		mg/L		95	80 - 120		
Iron			1.50	1.31		mg/L		87	80 - 120		
Magnesium			1.50	1.42		mg/L		95	80 - 120		
Potassium			15.0	13.91		mg/L		93	80 - 120		
Sodium			4.50	4.29		mg/L		95	80 - 120		

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

Lab Sample ID: 620-28471-A-1-C MS
Matrix: Water
Analysis Batch: 52051

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 51922

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.50	U	4.50	4.38		mg/L		97	75 - 125
Iron	0.10	U	1.50	1.37		mg/L		92	75 - 125
Magnesium	0.040	U	1.50	1.46		mg/L		97	75 - 125
Potassium	36.9		15.0	56.02	N	mg/L		127	75 - 125
Sodium	0.58	J	4.50	5.14		mg/L		101	75 - 125

Lab Sample ID: 620-28471-A-1-B DU
Matrix: Water
Analysis Batch: 52051

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 51922

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	0.50	U	0.50	U	mg/L		NC	20
Iron	0.10	U	0.10	U	mg/L		NC	20
Magnesium	0.040	U	0.040	U	mg/L		NC	20
Potassium	36.9		36.25		mg/L		2	20
Sodium	0.58	J	0.548	J	mg/L		6	20

Lab Sample ID: MB 620-51971/1-B
Matrix: Water
Analysis Batch: 52051

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 51922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.010	U	0.010	0.0056	mg/L		08/12/25 10:08	08/13/25 15:11	0.1

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-685556/5
Matrix: Water
Analysis Batch: 685556

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	8.0	U	8.0	2.6	mg/L			08/13/25 18:14	1

Lab Sample ID: LCS 410-685556/8
Matrix: Water
Analysis Batch: 685556

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	189	169.6		mg/L		90	80 - 110

Lab Sample ID: LCSD 410-685556/9
Matrix: Water
Analysis Batch: 685556

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
Total Alkalinity	189	171.9		mg/L		91	80 - 110	1	10

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: 410-235979-K-1 MS
Matrix: Water
Analysis Batch: 685556

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	217		189	396.6		mg/L		95	80 - 110

Lab Sample ID: 410-235979-F-1 DU
Matrix: Water
Analysis Batch: 685556

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	217		218.2		mg/L		0.4	10

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 410-686490/69
Matrix: Water
Analysis Batch: 686490

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.50	mg/L			08/15/25 19:21	1

Lab Sample ID: LCS 410-686490/68
Matrix: Water
Analysis Batch: 686490

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	50.0	51.02		mg/L		102	90 - 110

Lab Sample ID: MRL 410-686490/1
Matrix: Water
Analysis Batch: 686490

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	1.00	1.09		mg/L		109	50 - 150

Lab Sample ID: 410-234924-D-4 MS
Matrix: Water
Analysis Batch: 686490

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	3.6		10.0	12.82		mg/L		92	90 - 110

Lab Sample ID: 410-234924-D-4 DU
Matrix: Water
Analysis Batch: 686490

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	3.6		3.99		mg/L		10	15

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav (Continued)

Lab Sample ID: MB 410-688232/7
Matrix: Water
Analysis Batch: 688232

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.50	mg/L			08/19/25 21:37	1

Lab Sample ID: LCS 410-688232/6
Matrix: Water
Analysis Batch: 688232

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			50.0	47.15		mg/L		94	90 - 110		

Lab Sample ID: MRL 410-688232/1
Matrix: Water
Analysis Batch: 688232

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			1.00	0.939	J	mg/L		94	50 - 150		

Lab Sample ID: 620-28495-3 MS
Matrix: Water
Analysis Batch: 688232

Client Sample ID: MW-100E/250811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon	9.6		10.0	19.73		mg/L		101	90 - 110		

Lab Sample ID: 620-28495-3 DU
Matrix: Water
Analysis Batch: 688232

Client Sample ID: MW-100E/250811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon	9.6			9.77		mg/L				2	15

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	MS or MSD is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Sample result is greater than the MDL but below the CRDL
N	Spiked sample recovery is not within control limits.
U	Indicates analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J	Sample result is greater than the MDL but below the CRDL
U	Indicates analyzed for but not detected.

Glossary

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

Glossary (Continued)

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

GC/MS VOA

Analysis Batch: 51995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-1	MW-11/250811	Total/NA	Water	8260C	
620-28495-2	MW-100B/250811	Total/NA	Water	8260C	
620-28495-3	MW-100E/250811	Total/NA	Water	8260C	
620-28495-4	FB/250811	Total/NA	Water	8260C	
620-28495-5	TB/250811	Total/NA	Water	8260C	
MB 620-51995/7	Method Blank	Total/NA	Water	8260C	
LCS 620-51995/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-51995/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 52299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-2	MW-100B/250811	Total/NA	Water	3510C	
620-28495-3	MW-100E/250811	Total/NA	Water	3510C	
620-28495-4	FB/250811	Total/NA	Water	3510C	
MB 620-52299/1-A	Method Blank	Total/NA	Water	3510C	
LCS 620-52299/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 620-52299/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 52418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-2	MW-100B/250811	Total/NA	Water	8270D SIM ID	52299
620-28495-3	MW-100E/250811	Total/NA	Water	8270D SIM ID	52299
620-28495-4	FB/250811	Total/NA	Water	8270D SIM ID	52299
MB 620-52299/1-A	Method Blank	Total/NA	Water	8270D SIM ID	52299
LCS 620-52299/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	52299
LCSD 620-52299/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM ID	52299

HPLC/IC

Analysis Batch: 684514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-2	MW-100B/250811	Total/NA	Water	9056A	
620-28495-3	MW-100E/250811	Total/NA	Water	9056A	
620-28495-4	FB/250811	Total/NA	Water	9056A	
MB 410-684514/5	Method Blank	Total/NA	Water	9056A	
LCS 410-684514/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 410-684514/4	Lab Control Sample Dup	Total/NA	Water	9056A	
620-28495-3 MS	MW-100E/250811	Total/NA	Water	9056A	
620-28495-3 DU	MW-100E/250811	Total/NA	Water	9056A	

Analysis Batch: 684515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-2	MW-100B/250811	Total/NA	Water	9056A	
620-28495-3	MW-100E/250811	Total/NA	Water	9056A	
620-28495-4	FB/250811	Total/NA	Water	9056A	
MB 410-684515/5	Method Blank	Total/NA	Water	9056A	
LCS 410-684515/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 410-684515/4	Lab Control Sample Dup	Total/NA	Water	9056A	
620-28495-3 MS	MW-100E/250811	Total/NA	Water	9056A	
620-28495-3 DU	MW-100E/250811	Total/NA	Water	9056A	

Metals

Prep Batch: 51922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-2	MW-100B/250811	Dissolved	Water	3005A	51971
620-28495-2	MW-100B/250811	Total/NA	Water	3005A	
620-28495-3	MW-100E/250811	Dissolved	Water	3005A	51971
620-28495-3	MW-100E/250811	Total/NA	Water	3005A	
620-28495-4	FB/250811	Dissolved	Water	3005A	51971
620-28495-4	FB/250811	Total/NA	Water	3005A	
MB 620-51922/1-A	Method Blank	Total/NA	Water	3005A	
MB 620-51971/1-B	Method Blank	Dissolved	Water	3005A	51971
LCS 620-51922/2-A	Lab Control Sample	Total/NA	Water	3005A	
620-28471-A-1-C MS	Matrix Spike	Total/NA	Water	3005A	
620-28471-A-1-B DU	Duplicate	Total/NA	Water	3005A	

Filtration Batch: 51971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-2	MW-100B/250811	Dissolved	Water	Filtration	
620-28495-3	MW-100E/250811	Dissolved	Water	Filtration	
620-28495-4	FB/250811	Dissolved	Water	Filtration	
MB 620-51971/1-B	Method Blank	Dissolved	Water	Filtration	

Analysis Batch: 52051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-2	MW-100B/250811	Dissolved	Water	6010D	51922
620-28495-2	MW-100B/250811	Total/NA	Water	6010D	51922
620-28495-3	MW-100E/250811	Dissolved	Water	6010D	51922
620-28495-3	MW-100E/250811	Total/NA	Water	6010D	51922
620-28495-4	FB/250811	Dissolved	Water	6010D	51922
620-28495-4	FB/250811	Total/NA	Water	6010D	51922
MB 620-51922/1-A	Method Blank	Total/NA	Water	6010D	51922
MB 620-51971/1-B	Method Blank	Dissolved	Water	6010D	51922
LCS 620-51922/2-A	Lab Control Sample	Total/NA	Water	6010D	51922
620-28471-A-1-C MS	Matrix Spike	Total/NA	Water	6010D	51922
620-28471-A-1-B DU	Duplicate	Total/NA	Water	6010D	51922

General Chemistry

Analysis Batch: 685556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-2	MW-100B/250811	Total/NA	Water	2320B-2011	
620-28495-3	MW-100E/250811	Total/NA	Water	2320B-2011	
620-28495-4	FB/250811	Total/NA	Water	2320B-2011	
MB 410-685556/5	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-685556/8	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 410-685556/9	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
410-235979-K-1 MS	Matrix Spike	Total/NA	Water	2320B-2011	
410-235979-F-1 DU	Duplicate	Total/NA	Water	2320B-2011	

Analysis Batch: 686490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-4	FB/250811	Total/NA	Water	5310 C-2014	
MB 410-686490/69	Method Blank	Total/NA	Water	5310 C-2014	
LCS 410-686490/68	Lab Control Sample	Total/NA	Water	5310 C-2014	

General Chemistry (Continued)

Analysis Batch: 686490 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 410-686490/1	Lab Control Sample	Total/NA	Water	5310 C-2014	
410-234924-D-4 MS	Matrix Spike	Total/NA	Water	5310 C-2014	
410-234924-D-4 DU	Duplicate	Total/NA	Water	5310 C-2014	

Analysis Batch: 688232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-3	MW-100E/250811	Total/NA	Water	5310 C-2014	
MB 410-688232/7	Method Blank	Total/NA	Water	5310 C-2014	
LCS 410-688232/6	Lab Control Sample	Total/NA	Water	5310 C-2014	
MRL 410-688232/1	Lab Control Sample	Total/NA	Water	5310 C-2014	
620-28495-3 MS	MW-100E/250811	Total/NA	Water	5310 C-2014	
620-28495-3 DU	MW-100E/250811	Total/NA	Water	5310 C-2014	

Analysis Batch: 688387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-3	MW-100E/250811	Total/NA	Water	5310 C-2014	
620-28495-4	FB/250811	Total/NA	Water	5310 C-2014	

Client Sample ID: MW-11/250811
Lab Sample ID: 620-28495-1
Date Collected: 08/11/25 13:15
Matrix: Water
Date Received: 08/12/25 11:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	51995	CLR	EET RI	08/13/25 15:29

Client Sample ID: MW-100B/250811
Lab Sample ID: 620-28495-2
Date Collected: 08/11/25 13:00
Matrix: Water
Date Received: 08/12/25 11:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	51995	CLR	EET RI	08/13/25 15:53
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 11:56
Total/NA	Analysis	9056A		1	684514	L4QM	ELLE	08/13/25 09:16
Total/NA	Analysis	9056A		1	684515	L4QM	ELLE	08/13/25 09:16
Dissolved	Prep	3005A			51922	SRC	EET RI	08/12/25 10:08
Dissolved	Filtration	Filtration			51971	DJW	EET RI	08/12/25 12:45
Dissolved	Analysis	6010D		1	52051	JPC	EET RI	08/13/25 15:17
Total/NA	Prep	3005A			51922	SRC	EET RI	08/12/25 10:08
Total/NA	Analysis	6010D		1	52051	JPC	EET RI	08/13/25 14:41
Total/NA	Analysis	2320B-2011		1	685556	DI9Q	ELLE	08/13/25 20:27

Client Sample ID: MW-100E/250811
Lab Sample ID: 620-28495-3
Date Collected: 08/11/25 15:05
Matrix: Water
Date Received: 08/12/25 11:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	51995	CLR	EET RI	08/13/25 16:17
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 12:13
Total/NA	Analysis	9056A		1	684514	L4QM	ELLE	08/13/25 09:26
Total/NA	Analysis	9056A		1	684515	L4QM	ELLE	08/13/25 09:26
Dissolved	Prep	3005A			51922	SRC	EET RI	08/12/25 10:08
Dissolved	Filtration	Filtration			51971	DJW	EET RI	08/12/25 12:45
Dissolved	Analysis	6010D		1	52051	JPC	EET RI	08/13/25 15:23
Total/NA	Prep	3005A			51922	SRC	EET RI	08/12/25 10:08
Total/NA	Analysis	6010D		1	52051	JPC	EET RI	08/13/25 14:47
Total/NA	Analysis	2320B-2011		1	685556	DI9Q	ELLE	08/13/25 20:20
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/19/25 21:57
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/19/25 21:57

Client Sample ID: FB/250811
Lab Sample ID: 620-28495-4
Date Collected: 08/11/25 15:15
Matrix: Water
Date Received: 08/12/25 11:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	51995	CLR	EET RI	08/13/25 16:41

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28495-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: FB/250811
Lab Sample ID: 620-28495-4
Date Collected: 08/11/25 15:15
Matrix: Water
Date Received: 08/12/25 11:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 12:31
Total/NA	Analysis	9056A		1	684514	L4QM	ELLE	08/13/25 09:57
Total/NA	Analysis	9056A		1	684515	L4QM	ELLE	08/13/25 09:57
Dissolved	Prep	3005A			51922	SRC	EET RI	08/12/25 10:08
Dissolved	Filtration	Filtration			51971	DJW	EET RI	08/12/25 12:45
Dissolved	Analysis	6010D		1	52051	JPC	EET RI	08/13/25 15:29
Total/NA	Prep	3005A			51922	SRC	EET RI	08/12/25 10:08
Total/NA	Analysis	6010D		1	52051	JPC	EET RI	08/13/25 14:53
Total/NA	Analysis	2320B-2011		1	685556	DI9Q	ELLE	08/13/25 20:06
Total/NA	Analysis	5310 C-2014		1	686490	P684	ELLE	08/15/25 22:39
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/19/25 14:47

Client Sample ID: TB/250811
Lab Sample ID: 620-28495-5
Date Collected: 08/11/25 00:00
Matrix: Water
Date Received: 08/12/25 11:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	51995	CLR	EET RI	08/13/25 11:11

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28495-1
Project/Site: ESCO Steel Treaters Project

Laboratory: Eurofins Rhode Island

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11393	03-31-26

The following analytes are included in this report, but the laboratory is not certified by New York NELAP 11393. This list may include analytes for which the agency does not offer certification:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C		Water	1,2,3-Trichlorobenzene
8260C		Water	1,3,5-Trichlorobenzene
8260C		Water	4-Isopropyltoluene
8260C		Water	Chloromethane
8260C		Water	di-Isopropyl ether
8260C		Water	Ethyl tert-butyl ether
8260C		Water	Isopropylbenzene
8270D SIM ID	3510C	Water	1,4-Dioxane

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-26
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-26
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-26
Connecticut	State	PH-0746	06-30-27
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	07-01-26
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-26
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-26

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-26
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-26
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-31-26
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
1,4D-LVI-Sur_00001	08/25/25	02/25/25	MeCl2, Lot 225682	1000 uL	MSS-1,4-D-Sur_00011	100 uL	1,4-Dioxane-d8	100 ug/mL
.MSS-1,4-D-Sur_00011	12/05/25	Absolute Standards, Inc, Lot 031424			(Purchased Reagent)		1,4-Dioxane-d8	1000 ug/mL
MSS-1,4-CAL1_00020	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	10 uL	1,4-Dioxane	0.050225 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL2_00019	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	20 uL	1,4-Dioxane	0.10045 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL3_00020	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	50 uL	1,4-Dioxane	0.251125 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL4_00019	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	100 uL	1,4-Dioxane	0.50225 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL5_00021	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	200 uL	1,4-Dioxane	1.0045 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL6_00020	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	500 uL	1,4-Dioxane	2.51125 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL7_00017	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	1 mL	1,4-Dioxane	5.0225 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-ICV_00024	11/28/25	05/28/25	MeCl2, Lot na	10 mL	MSS-1,4-D-SS_00005	10 uL	1,4-Dioxane	1 ug/mL
.MSS-1,4-D-SS_00005	03/11/26	Absolute Standards, Inc, Lot 011024			(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
MSS-1,4D-IS_00001							4,4'-DDD	
							4,4'-DDE	
							4,4'-DDT	
							Benzidine_T	
							DFTPP	
							Pentachlorophenol_T	
					SV-ISTD8270_00025	125 uL	1,4-Dichlorobenzene-d4	12.5219 ug/mL
.SV-ISTD8270_00025	02/20/26	Restek, Lot A0218138			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2003.5 ug/mL
MT_ICP_Cal2RL_00040	07/01/27	12/11/24	DI Water, Lot n/a	500 mL	MT_PST_AQCRLA_00006	0.5 mL	Calcium	0.2 mg/L
							Iron	0.1 mg/L
							Magnesium	0.02 mg/L
							Potassium	1 mg/L
							Sodium	1.5 mg/L
.MT_PST_AQCRLA_00006	07/01/29	inorganic Ventures, Lot v2-meb745428			(Purchased Reagent)		Calcium	200 ug/mL
							Iron	100 ug/mL
							Magnesium	20 ug/mL
							Potassium	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Sodium	1500 ug/mL
MT_ICP_CCV_00046	01/10/26	10/29/24	DI Water, Lot n/a	250 mL	MT_PST_CCVA_00007	6.25 mL	Calcium	10 mg/L
							Iron	10 mg/L
							Magnesium	10 mg/L
							Potassium	10 mg/L
							Sodium	10 mg/L
.MT_PST_CCVA_00007	01/10/26	High Purity, Lot 2400332-250			(Purchased Reagent)		Calcium	400 mg/L
							Iron	400 mg/L
							Magnesium	400 mg/L
							Potassium	400 mg/L
							Sodium	400 mg/L
MT_ICP_ICSA_00042	02/28/26	02/25/25	DI Water, Lot n/a	250 mL	MT_PST_CLPINF_00008	10 mL	Al	200 mg/L
							Calcium	200 mg/L
							Iron	80 mg/L
							Magnesium	200 mg/L
.MT_PST_CLPINF_00008	02/28/26	environmental Express, Lot 2404549-500			(Purchased Reagent)		Al	5000 mg/L
							Calcium	5000 mg/L
							Iron	2000 mg/L
							Magnesium	5000 mg/L
MT_ICP_ICSAB_00046	02/28/26	03/05/25	DI Water, Lot n/a	250 mL	MT_PST_CLPINF_00009	10 mL	Al	200 mg/L
							Calcium	200 mg/L
							Iron	80 mg/L
							Magnesium	200 mg/L
					MT_PST_IFBSOL_00009	1.25 mL	Ag	0.5 mg/L
							As	0.5 mg/L
							Ba	0.25 mg/L
							Be	0.25 mg/L
							Cd	0.5 mg/L
							Co	0.25 mg/L
							Cr	0.25 mg/L
							Cu	0.25 mg/L
							Mn	0.25 mg/L
							Ni	0.5 mg/L
							Pb	0.5 mg/L
							Sb	0.3 mg/L
							Se	0.5 mg/L
							Tl	0.5 mg/L
							V	0.25 mg/L
							Zn	0.5 mg/L
.MT_PST_CLPINF_00009	07/15/26	CPI, Lot 1466098			(Purchased Reagent)		Al	5000 mg/L
							Calcium	5000 mg/L
							Iron	2000 mg/L
							Magnesium	5000 mg/L
.MT_PST_IFBSOL_00009	06/05/26	Inorganic Ventures, Lot v2-meb744057			(Purchased Reagent)		Ag	100 mg/L
							As	100 mg/L
							Ba	50 mg/L

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Be	50 mg/L
							Cd	100 mg/L
							Co	50 mg/L
							Cr	50 mg/L
							Cu	50 mg/L
							Mn	50 mg/L
							Ni	100 mg/L
							Pb	100 mg/L
							Sb	60 mg/L
							Se	100 mg/L
							Tl	100 mg/L
							V	50 mg/L
							Zn	100 mg/L
MT_ICP_ICV_00055	09/13/25	04/15/25	DI Water, Lot n/a	250 mL	MT_SST_QC1_00020	12.5 mL	Calcium	5 mg/L
							Iron	5 mg/L
							Magnesium	5 mg/L
					MT_SST_QC2_00020	12.5 mL	Potassium	50 mg/L
							Sodium	5 mg/L
.MT_SST_QC1_00020	06/13/26	AccuStandard, Lot 224055035			(Purchased Reagent)		Calcium	100 mg/L
							Iron	100 mg/L
							Magnesium	100 mg/L
.MT_SST_QC2_00020	09/16/25	Accustandard, Lot 222045096-02			(Purchased Reagent)		Potassium	1000 mg/L
							Sodium	100 mg/L
MT_ICP_SPIKE_00130	09/16/25	06/02/25	DI Water, Lot n/a	100 mL	MT_PST_Ag_00006	1.25 mL	Ag	25 mg/L
					MT_SST_Ca_00006	0.5 mL	Calcium	75 mg/L
							Calcium hardness as calcium carbonate	187.5 mg/L
							Hardness as calcium carbonate	125 mg/L
					MT_SST_Na_00006	0.5 mL	Sodium	75 mg/L
					MT_SST_QC1_00020	25 mL	As	25 mg/L
							Be	25 mg/L
							Calcium	75 mg/L
							Calcium hardness as calcium carbonate	187.5 mg/L
							Cd	25 mg/L
							Co	25 mg/L
							Cr	25 mg/L
							Cu	25 mg/L
							Iron	25 mg/L
							Li	25 mg/L
							Magnesium	25 mg/L
							Mn	25 mg/L
							Mo	25 mg/L
							Ni	25 mg/L
							P	25 mg/L
							Pb	25 mg/L
							Sb	25 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Se	25 mg/L
							Sn	25 mg/L
							Sr	25 mg/L
							Ti	25 mg/L
							Tl	25 mg/L
							V	25 mg/L
							Zn	25 mg/L
					MT_SST_QC2_00020	25 mL	Ag	25 mg/L
							Al	25 mg/L
							B	25 mg/L
							Ba	25 mg/L
							Potassium	250 mg/L
							Si	125 mg/L
							SiO2	267.5 mg/L
							Sodium	75 mg/L
					MT_SST_S_00008	1 mL	Sulfur	100 mg/L
.MT_PST_Ag_00006	04/30/26	HPS, Lot 2415524-100			(Purchased Reagent)		Ag	1000 ug/mL
.MT_SST_Ca_00006	04/06/28	AccuStandard, Lot 223045009			(Purchased Reagent)		Calcium	10000 ug/mL
							Calcium hardness as calcium carbonate	25000 ug/mL
							Hardness as calcium carbonate	25000 ug/mL
.MT_SST_Na_00006	09/13/28	AccuStandard, Lot 221085140-01			(Purchased Reagent)		Sodium	10000 mg/L
.MT_SST_QC1_00020	06/13/26	AccuStandard, Lot 224055035			(Purchased Reagent)		As	100 mg/L
							Be	100 mg/L
							Calcium	100 mg/L
							Calcium hardness as calcium carbonate	250 mg/L
							Cd	100 mg/L
							Co	100 mg/L
							Cr	100 mg/L
							Cu	100 mg/L
							Iron	100 mg/L
							Li	100 mg/L
							Magnesium	100 mg/L
							Mn	100 mg/L
							Mo	100 mg/L
							Ni	100 mg/L
							P	100 mg/L
							Pb	100 mg/L
							Sb	100 mg/L
							Se	100 mg/L
							Sn	100 mg/L
							Sr	100 mg/L
							Ti	100 mg/L
							Tl	100 mg/L
							V	100 mg/L
							Zn	100 mg/L
.MT_SST_QC2_00020	09/16/25	Accustandard, Lot 222045096-02			(Purchased Reagent)		Ag	50 mg/L

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Al	100 mg/L
							B	100 mg/L
							Ba	100 mg/L
							Potassium	1000 mg/L
							Si	500 mg/L
							SiO2	1070 mg/L
							Sodium	100 mg/L
.MT_SST_S_00008	11/09/27	Accustandard, Lot 222115054			(Purchased Reagent)		Sulfur	10000 ug/mL
OP-LCS-1,4-D_00080	01/22/26	07/22/25	Methanol, Lot 245552	10 mL	MSS-1,4-D-SS_00005	10 uL	1,4-Dioxane	1 ug/mL
.MSS-1,4-D-SS_00005	03/11/26	Absolute Standards, Inc, Lot 011024			(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
OP-SUR-1.4-D_00100	12/05/25	06/24/25	Methanol, Lot 245402	50 mL	MSS-1,4-D-Sur_00011	50 uL	1,4-Dioxane-d8	1 ug/mL
.MSS-1,4-D-Sur_00011	12/05/25	Absolute Standards, Inc, Lot 031424			(Purchased Reagent)		1,4-Dioxane-d8	1000 ug/mL
VO8260BFB_00010							1,2-Dichloroethane-d4 (Surr)	
							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							1,4-Dichlorobenzene-d4	
							4-Bromofluorobenzene (Surr)	
							BFB	50 ug/mL
							Chlorobenzene-d5	
							Dibromofluoromethane (Surr)	
							Fluorobenzene	
							Tentatively Identified Compound	
							Toluene-d8 (Surr)	
							Trihalomethanes, Total	
							Xylenes, Total	
VO8260IS/SS_00026	11/12/25	05/12/25	methanol, Lot 0000288059	50 mL	VO8260ISSur_00018	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							1,4-Dichlorobenzene-d4	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Fluorobenzene	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VO8260ISSur_00018	05/12/26	Agilent, Lot 0006813471			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							1,4-Dichlorobenzene-d4	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Fluorobenzene	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VO8260Primary_00143	07/29/26	Agilent, Lot 0006837291			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichlorotrifluoroethane (Freon 113)	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	500 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Butanone (MEK)	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Hexanone (MBK)	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							4-Methyl-2-pentanone (MIBK)	50 ug/mL
							Acetone	50 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Bromomethane	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloroform	50 ug/mL
							Chloromethane	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							di-Isopropyl ether	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane (Freon 12)	50 ug/mL
							Ethanol	1000 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Iodomethane	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m,p-Xylene	50 ug/mL
							Methyl acetate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							tert-Butanol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trichlorofluoromethane (Freon 11)	50 ug/mL
							Vinyl chloride	50 ug/mL
VO8260Second_00123	07/16/26		Absolute, Lot 011625		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane (Freon 113)	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Butanone (MEK)	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Hexanone (MBK)	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							4-Methyl-2-pentanone (MIBK)	50 ug/mL
							Acetone	50 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Bromomethane	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloroform	50 ug/mL
							Chloromethane	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							di-Isopropyl ether	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorodifluoromethane (Freon 12)	50 ug/mL
							Ethanol	1000 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m,p-Xylene	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							tert-Butanol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trichlorofluoromethane (Freon 11)	50 ug/mL
							Vinyl chloride	50 ug/mL
VO8260Second_00124	07/29/26		Absolute, Lot 011625		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane (Freon 113)	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Butanone (MEK)	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Hexanone (MBK)	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							4-Methyl-2-pentanone (MIBK)	50 ug/mL

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	50 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Bromomethane	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloroform	50 ug/mL
							Chloromethane	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							di-Isopropyl ether	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorodifluoromethane (Freon 12)	50 ug/mL
							Ethanol	1000 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m,p-Xylene	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							tert-Butanol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trichlorofluoromethane (Freon 11)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
WC_Alk_LCS_00025	10/24/25	07/24/25	DI Water, Lot -	2 L	WC_Alk_Std_00025	40 mL	Total Alkalinity	188.869 mg/L
.WC_Alk_Std_00025	10/24/25	Fisher (Na2CO3), Lot 250579			(Purchased Reagent)		Total Alkalinity	9443.43 mg/L
WC_Alk_LCS_00027	10/24/25	07/24/25	DI Water, Lot -	4 L	WC_Alk_Std_00025	39.82 mL	Total Alkalinity	94.0094 mg/L
.WC_Alk_Std_00025	10/24/25	Fisher (Na2CO3), Lot 250579			(Purchased Reagent)		Total Alkalinity	9443.43 mg/L
							Total Alkalinity	9443.43 mg/L
WC_IC_C_Det_00227	08/08/25	08/06/25	DI Water, Lot DI	50 mL	WC_IC_C_Br_00009	2.5 mL	Bromide	50 ug/mL
					WC_IC_C_Cl_00012	2 mL	Chloride	40 ug/mL
					WC_IC_C_F_00010	0.5 mL	Fluoride	10 ug/mL
					WC_IC_C_NO2_00007	0.5 mL	Nitrite as N	10 ug/mL
					WC_IC_C_NO3_00009	0.5 mL	Nitrate as N	10 ug/mL
					WC_IC_Q_SO4_00018	5 mL	Sulfate	100 ug/mL
.WC_IC_C_Br_00009	03/18/27	Absolute Standards, Lot 031824			(Purchased Reagent)		Bromide	1000 ug/mL
.WC_IC_C_Cl_00012	06/10/26	INORGANIC VENTURES, Lot U2-CL731103			(Purchased Reagent)		Chloride	1000 ug/mL
.WC_IC_C_F_00010	12/05/25	Inorganic Ventures, Lot V2-F740739			(Purchased Reagent)		Fluoride	1000 ug/mL
.WC_IC_C_NO2_00007	08/10/26	Absolute Standards, Inc., Lot 081023			(Purchased Reagent)		Nitrite as N	1000 ug/mL
.WC_IC_C_NO3_00009	07/24/27	Absolute Standards, Lot 072424			(Purchased Reagent)		Nitrate as N	1000 ug/mL
.WC_IC_Q_SO4_00018	06/10/27	Absolute Standards, Lot 061024			(Purchased Reagent)		Sulfate	1000 ug/mL
WC_IC_QC2_01432	08/07/25	08/06/25	DI Water, Lot IC	50 mL	WC_IC_Q_Cl_00016	1 mL	Chloride	20 ug/mL
					WC_IC_Q_SO4_00019	2.5 mL	Sulfate	50 ug/mL
.WC_IC_Q_Cl_00016	03/11/28	ABSOLUTE STANDARDS, Lot 031125			(Purchased Reagent)		Chloride	1000 ug/mL
.WC_IC_Q_SO4_00019	05/05/28	ABSOLUTE STANDARDS, Lot 050525			(Purchased Reagent)		Sulfate	1000 ug/mL
WC_IC_QC2_01436	08/13/25	08/12/25	DI Water, Lot IC	50 mL	WC_IC_Q_Cl_00016	1 mL	Chloride	20 ug/mL
					WC_IC_Q_NO3_00007	0.25 mL	Nitrate as N	5 ug/mL
					WC_IC_Q_SO4_00019	2.5 mL	Sulfate	50 ug/mL
.WC_IC_Q_Cl_00016	03/11/28	ABSOLUTE STANDARDS, Lot 031125			(Purchased Reagent)		Chloride	1000 ug/mL
.WC_IC_Q_NO3_00007	10/29/27	Absoslute Standards, Lot 102924			(Purchased Reagent)		Nitrate as N	1000 ug/mL
.WC_IC_Q_SO4_00019	05/05/28	ABSOLUTE STANDARDS, Lot 050525			(Purchased Reagent)		Sulfate	1000 ug/mL
WC_TIC_QC_00067	09/17/25	08/18/25	DI Water, Lot Flow	100 mL	WC_TC_Q_BCarb_00008	0.1754 g	Total Carbon	500.326 mg/L
							Total Carbon Res 1	500.326 mg/L
							Total Carbon Res 2	500.326 mg/L
							Total Carbon Res 3	500.326 mg/L
					WC_TC_Q_Carb_00011	0.2208 g	Total Carbon	500.326 mg/L
							Total Carbon Res 1	500.326 mg/L
							Total Carbon Res 2	500.326 mg/L
							Total Carbon Res 3	500.326 mg/L
.WC_TC_Q_BCarb_00008	11/30/26	Sigma-Aldrich, Lot AD-22192			(Purchased Reagent)		Total Carbon	0.143 g/g
							Total Carbon Res 1	0.143 g/g
							Total Carbon Res 2	0.143 g/g
							Total Carbon Res 3	0.143 g/g
.WC_TC_Q_Carb_00011	05/15/30	LabChem, Lot 45040435			(Purchased Reagent)		Total Carbon	0.113 g/g
							Total Carbon Res 1	0.113 g/g
							Total Carbon Res 2	0.113 g/g
							Total Carbon Res 3	0.113 g/g
WC_TOC_QC_STD_00074	08/17/25	07/17/25	DI Water, Lot Flow	1 L	WC_FL_KHP_3_00007	1.0636 g	TOC Result 1	500.424 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							TOC Result 2	500.424 mg/L
							TOC Result 3	500.424 mg/L
							Total Organic Carbon	500.424 mg/L
.WC_FL_KHP_3_00007	12/24/25	Acros Organics, Lot A0414437			(Purchased Reagent)		TOC Result 1	0.4705 g/g
							TOC Result 2	0.4705 g/g
							TOC Result 3	0.4705 g/g
							Total Organic Carbon	0.4705 g/g
WC_TOC_QC_STD_00075	09/17/25	08/18/25	DI Water, Lot Flow	1 L	WC_FL_KHP_3_00007	1.0633 g	TOC Result 1	500.283 mg/L
							TOC Result 2	500.283 mg/L
							TOC Result 3	500.283 mg/L
							Total Organic Carbon	500.283 mg/L
.WC_FL_KHP_3_00007	12/24/25	Acros Organics, Lot A0414437			(Purchased Reagent)		TOC Result 1	0.4705 g/g
							TOC Result 2	0.4705 g/g
							TOC Result 3	0.4705 g/g
							Total Organic Carbon	0.4705 g/g

Reagent

MSS-1,4-D-SS_00005

ABSOLUTE STANDARDS, INC.

ISO - 17034

Certificate of Analysis

Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within +/- 0.5% of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: U_{CRM} is the expanded uncertainty which utilizes a K = 2 (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

Reagent

MSS-1,4-D-Sur_00011

CERTIFIED WEIGHT REPORT

Part Number: **71882**
Lot Number: 031424
Description: 1,4-Dioxane-d8

Expiration Date: 031429
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

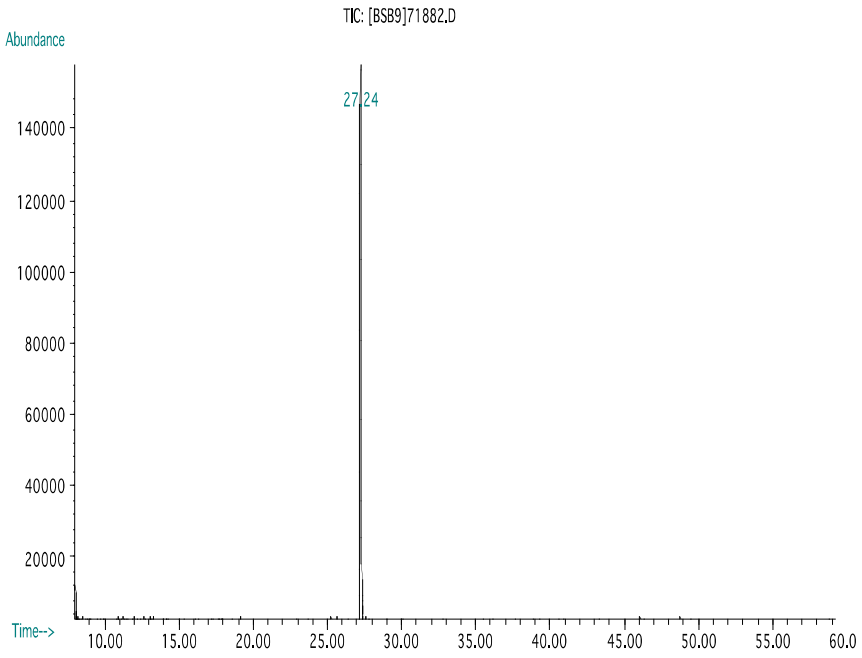
Solvent(s): **Lot#**
Methanol EH299-US

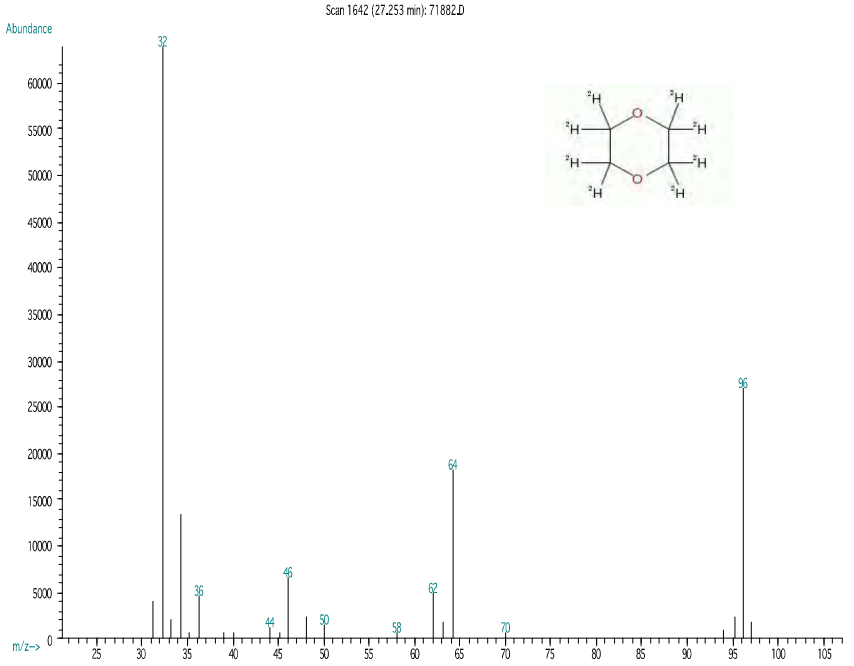
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 200.0 0.006 Flask Uncertainty

Formulated By:	Lawrence Barry	031424 DATE
Reviewed By:	Pedro L. Rentas	031424 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	1,4-Dioxane-d8	1882	I-19239A	1000	99	0.2	0.20200	0.20226	1001.3	4.1	17647-74-4	N/A	orl-rbt 2000mg/kg

Method: GC6MSD-1. **Detector:** MSD (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm filmthickness). **Oven Profile**: Temp. 1=35°C (Time 1=10min.), Temp. 2=200°C (Time 2=18.75 min.), Rate=4°C/min., Injector Temp.=200°C, Detector Temp.=220°C. Solvent delay = 7 min. **Analyst:** Candice Warren.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Reagent

MSV-1,4-D-STD_00005

Agilent
Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: 1,4-Dioxane Standard
Product Number: NV-152-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006767288
Lot Issue Date: 18-Oct-2023
Expiration Date: 30-Nov-2025

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
1,4-dioxane	2008	±	10 µg/mL	000123-91-1	RM20283

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and 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 above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, 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 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20ºC to 25ºC immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard 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.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

Reagent

MT_PST_Ag_00006

7221 Investment Drive • North Charleston, SC 29418
843.767.7900 • info@highpuritystandards.com • www.highpuritystandards.com

Certificate of Analysis

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER
ISO 17034:2016 (RMP) Accreditation Certificate Number AR-1436

Product Description: Silver

Product Number: **100051-1-100**
Lot Number: **2415524-100**
Matrix: 2% HNO3
Density: 1.018 g/mL ± 0.002 g/mL @ 20.9°C ± 0.3°C

Certified Value:

Element	µg/mL	SRM ID
Ag	1000 ± 3	3151

The Certified value is based on gravimetric and volumetric preparation, and verified against NIST SRM 3100 series when available via inductively coupled plasma optical emission spectrometry (ICP-OES) and/or inductively coupled plasma mass spectrometry (ICP-MS) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor k is about 2.
* Refer to Traceability Information, Section 4

Uncertified Values:

Trace Metal Impurity Scan: The data reported are based upon a scan of this specific lot via ICP-OES/ICP-MS analysis. The values are reported in µg/L.

Ag	M	Cu	60	Li	<0.02	Rb	<0.02	Th	<0.02
Al	<0.05	Dy	<0.02	Lu	<0.02	Re	<0.02	Ti	<0.02
As	<0.05	Er	<0.02	Mg	<0.6	Rh	<0.02	Tl	<0.02
Au	<1.8	Eu	<0.02	Mn	<0.05	Ru	<0.02	Tm	<0.02
B	<1	Fe	<1	Mo	<0.02	Sb	<0.02	U	<0.05
Ba	<0.02	Ga	<0.02	Na	<3	Sc	<0.02	V	<0.05
Be	<0.02	Gd	<0.02	Nb	<0.02	Se	<0.1	W	<0.02
Bi	<0.02	Ge	<0.02	Nd	<0.02	Si	<5	Y	<0.02
Ca	<1	Hf	<0.02	Ni	<0.02	Sm	<0.02	Yb	<0.02
Cd	<0.02	Ho	<0.02	Os	<0.02	Sn	<0.5	Zn	<0.02
Ce	<0.02	In	<0.02	Pb	<0.05	Sr	<0.02	Zr	<0.02
Co	<0.05	Ir	<0.02	Pd	<0.5	Ta	<0.02		
Cr	<0.05	K	<1	Pr	<0.02	Tb	<0.02		
Cs	<0.02	La	<0.02	Pt	<0.02	Te	<0.02		

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored normal laboratory conditions.

Expiration Information:

The expiry date is guaranteed to be valid for eighteen months from the shipping date provided and is guaranteed through the month of expiration. For this reason, standards from the same lot may have different expiration dates.

Shipped Date: October 2024
Expiration Date: April 30, 2026
Certificate Issue Date: June 18, 2024

Julio Soto, Quality Manager

Reagent

MT_PST_AQCRLA_00006

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-75246
Lot Number:	V2-MEB745428
Matrix:	2% (v/v) HNO3

Value / Analyte(s):	1 500 µg/mL ea: Sodium,	
	1 000 µg/mL ea: Potassium,	
	200 µg/mL ea: Calcium,	
	100 µg/mL ea: Boron,	Iron,
	50 µg/mL ea: Aluminum, Phosphorus,	Lithium,
	30 µg/mL ea: Selenium,	
	20 µg/mL ea: Magnesium,	
	15 µg/mL ea: Lead,	
	10 µg/mL ea: Nickel, Cobalt, Copper, Thallium, Zinc,	Barium, Chromium, Strontium, Vanadium,
	8 µg/mL ea: Arsenic,	
	5 µg/mL ea: Cadmium,	
	4 µg/mL ea: Beryllium,	Manganese

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**49.94 ± 0.19 µg/mL**	**Arsenic, As**	**8.00 ± 0.05 µg/mL**
Barium, Ba	**10.00 ± 0.05 µg/mL**	**Beryllium, Be**	**3.998 ± 0.020 µg/mL**
Boron, B	**100.0 ± 0.5 µg/mL**	**Cadmium, Cd**	**4.999 ± 0.030 µg/mL**
Calcium, Ca	**200.0 ± 0.6 µg/mL**	**Chromium, Cr**	**10.00 ± 0.05 µg/mL**
Cobalt, Co	**10.02 ± 0.05 µg/mL**	**Copper, Cu**	**10.00 ± 0.06 µg/mL**
Iron, Fe	**100.0 ± 0.4 µg/mL**	**Lead, Pb**	**15.00 ± 0.07 µg/mL**
Lithium, Li	**50.09 ± 0.22 µg/mL**	**Magnesium, Mg**	**20.00 ± 0.10 µg/mL**
Manganese, Mn	**4.000 ± 0.020 µg/mL**	**Nickel, Ni**	**10.00 ± 0.06 µg/mL**
Phosphorus, P	**50.03 ± 0.24 µg/mL**	**Potassium, K**	**1 000 ± 4 µg/mL**
Selenium, Se	**30.03 ± 0.19 µg/mL**	**Sodium, Na**	**1 500 ± 7 µg/mL**
Strontium, Sr	**10.00 ± 0.04 µg/mL**	**Thallium, Tl**	**10.00 ± 0.04 µg/mL**
Vanadium, V	**10.01 ± 0.04 µg/mL**	**Zinc, Zn**	**10.00 ± 0.04 µg/mL**

Density: 1.018 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	120618
Cu	EDTA	928	928
Cu	Calculated		See Sec. 4.2
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mg	Calculated		See Sec. 4.2
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	200413
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Sr	EDTA	928	928
Sr	ICP Assay	Traceable to 3153a	K2-SR650985
Sr	Calculated		See Sec. 4.2

Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928
Zn	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 15, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **July 15, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

MT_PST_CCVA_00007

7221 Investment Drive • North Charleston, SC 29418
843.767.7900 • info@highpuritystandards.com • www.highpuritystandards.com

Certificate of Analysis

Certified Reference Material

Product Description: Special Mix

Product Number: **SM-150-077-A-250**
Lot Number: **2400332-250**
Matrix: 4% HNO3
Purity: 99.0%-99.9998%

ISO 17034:2016 (RMP) Accreditation Certificate Number AR-1436

Certified Values:

Element	(µg/mL)	SRM ID	Element	(µg/mL)	SRM ID
Al	400 ± 4	3101a	Li	200 ± 2	3129a
As	200 ± 2	3103a	Mg	400 ± 4	3131a
B	200 ± 2	3107	Mn	200 ± 3	3132
Ba	200 ± 2	3104a	Na	400 ± 4	3152a
Be	200 ± 2	3105a	Ni	200 ± 2	3136
Ca	400 ± 4	3109a	P	200 ± 3	3139a
Cd	200 ± 2	3108	Pb	200 ± 2	3128
Co	200 ± 2	3113	S	200 ± 3	3154
Cr	200 ± 2	3112a	Se	200 ± 2	3149
Cu	200 ± 2	3114	Sr	200 ± 2	3153a
Fe	400 ± 4	3126a	Tl	200 ± 2	3158
K	400 ± 4	3141a	Zn	200 ± 2	3168a

Certified values are based on gravimetric and volumetric preparation, and verified against NIST SRM 3100 series when available via inductively coupled plasma optical emission spectrometry (ICP-OES) and/or inductively coupled plasma mass spectrometry (ICP-MS) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.
* Refer to Traceability Information, Section 4

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Expiration Information:

The expiry date is guaranteed to be valid for one year from the shipping date provided and is guaranteed through the month of expiration. For this reason, standards from the same lot may have different expiration dates.

Shipped Date: January 2024
Expiration Date: January 31, 2025
Certificate Issue Date: January 5, 2024

Julio Soto, Quality Manager

Preparation Information:

This Certified Reference Material (CRM) is generally prepared from single element standard solutions that are ISO 17034 certified reference materials and manufactured under appropriate laboratory conditions using the methods developed at NIST for SRM Spectrometric Standard Solutions. Sub-boiling distilled high-purity acid has been used to place the materials in solution and stabilize the standard. The matrix is as noted above in 18 megaohm deionized water. Stability of this product is based upon rigorous short-term and long-term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product. If, during the period of validity, a recall is instituted due to substantial changes in the stability of this product, the purchaser will be notified.

Homogeneity:

This product is determined to be homogeneous following in-house procedures developed in accordance with the requirements of ISO 17034 and ISO Guide 35.

Intended Use:

This product is intended for use as a calibration standard, quality control standard, and/or for the validation of analytical methods. The standard is confirmed homogeneous; therefore, the minimum sample size should be consistent with the end user's measurement capabilities.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

1. **Standard Weight and Analytical Balance**
   The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in 'NIST Weights and Measures Measurement Assurance Program' with a certificate of measurement traceability to NIST primary standards. The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.
2. **Volumetric Device**
   The calibrations of volumetric vessels are verified using the ASTM method E542.
3. **Thermometer**
   The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.
4. **Calibration Standards**
   The Calibration Standard is traceable to SRM 3100 Series Spectrometric Standard Solutions. If an SRM is not available, a second source standard or independent lot is used.

Refer to Safety Datasheet (SDS) for hazardous information.

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High-Purity Standards.

Reagent

MT_PST_CLPINF_00008

environmental express®

Certificate of Analysis

Certified Reference Material

Product Description:	Custom Inorganic Standard
Product Number:	**ICL500-6**
Lot Number:	**2404549-500**
Matrix:	5% HNO3
Purity:	99.995%-99.9995%
Density:	1.093 g/mL ± 0.002 g/mL @ 21.7°C ± 0.3°C

Certified Values:

Element	(µg/mL)	SRM ID
Al	5000 ± 30	3101a
Ca	5000 ± 30	3109a
Fe	2000 ± 12	3126a
Mg	5000 ± 30	3131a

Certified values are based on gravimetric and volumetric preparation, and verified against NIST SRM 3100 series when available via inductively coupled plasma optical emission spectrometry (ICP-OES) and/or inductively coupled plasma mass spectrometry (ICP-MS) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

* Refer to Traceability Information, Section 4

Uncertified Values:

Trace Metal Impurity Scan: The data reported are based upon a scan of this specific lot via ICP-OES/ICP-MS analysis. The values are reported in µg/L.

Ag	<1.1	Ca	M	K	<93	Ni	7.8	Sr	32.3
Al	M	Cd	<0.5	Li	<0.1	Pb	33.5	Ti	<0.3
As	<0.3	Co	13.8	Mg	M	S	<200	Tl	<0.1
B	<5	Cr	10.6	Mn	17.1	Sb	<0.4	V	1.9
Ba	8.3	Cu	133	Mo	3.5	Se	<0.5	Zn	6.9
Be	2.9	Fe	M	Na	<79	Sn	<3		

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Expiration Information:

The expiry date is guaranteed to be valid for one year from the shipping date provided and is guaranteed through the month of expiration. For this reason, standards from the same lot may have different expiration dates.

Shipped Date:	February 2024
Expiration Date:	February 28, 2025
Certificate Issue Date:	February 16, 2024

Carson R Geib

Carson Geib, Quality and Compliance Manager

Reagent

MT_PST_CLPINF_00009

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-ICP-ICSA

ICP ICSA Mix

Lot #: 1466098

Matrix: 5% HNO_3

*Expiration Date: 15 July 2026

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
Al	5000 ± 25 mg/L	Fe	2000 ± 10 mg/L
Ca	5000 ± 25 mg/L	Mg	5007 ± 25 mg/L

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #
Al	1369281	Fe	1440932
Ca	1344004	Mg	1454072

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to, **ISO 17034**, **ISO/IEC 17025** and **ISO 9001**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see reverse side)**. The solution was stabilized using high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see reverse side)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Fe	MAJOR	Sb	<0.5
Al	MAJOR	Hg	5	Se	<2
As	<0.5	K	106	Sn	0.685
Ba	16	Li	3	Sr	120
Be	<0.5	Mg	MAJOR	Th	<0.5
Ca	MAJOR	Mn	22	Ti	5
Cd	<0.5	Mo	4	Tl	<0.5
Co	2	Na	<50	U	<0.5
Cr	12	Ni	5	V	<2
Cu	1.969	Pb	2	Zn	10

USA
5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901
www.cpiinternational.com

Europe
Nieuwe Hemweg 7P P: +31 20 638 05 97
1013BG Amsterdam F: +31 20 420 28 36
The Netherlands

Reagent

MT_PST_IFBSOL_00009

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-74673
Lot Number:	V2-MEB744057
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	100 µg/mL ea: Silver, Arsenic, Cadmium, Nickel, Lead, Selenium, Thallium, Zinc, 60 µg/mL ea: Antimony, 50 µg/mL ea: Vanadium, Cobalt, Chromium, Copper, Manganese, Barium, Beryllium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**60.01 ± 0.41 µg/mL**	**Arsenic, As**	**100.0 ± 0.6 µg/mL**
Barium, Ba	**50.00 ± 0.29 µg/mL**	**Beryllium, Be**	**50.00 ± 0.30 µg/mL**
Cadmium, Cd	**100.0 ± 0.4 µg/mL**	**Chromium, Cr**	**50.01 ± 0.28 µg/mL**
Cobalt, Co	**50.00 ± 0.24 µg/mL**	**Copper, Cu**	**49.99 ± 0.22 µg/mL**
Lead, Pb	**100.0 ± 0.5 µg/mL**	**Manganese, Mn**	**50.01 ± 0.22 µg/mL**
Nickel, Ni	**100.0 ± 0.4 µg/mL**	**Selenium, Se**	**100.0 ± 0.6 µg/mL**
Silver, Ag	**100.0 ± 0.4 µg/mL**	**Thallium, Tl**	**100.0 ± 0.5 µg/mL**
Vanadium, V	**50.00 ± 0.22 µg/mL**	**Zinc, Zn**	**100.0 ± 0.4 µg/mL**

Density: 1.013 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	120618
Cu	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information (https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver)

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 24, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 24, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

MT_SST_Ca_00006

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuTrace™ Reference Standard

Catalog No: ICP-09N-10X-1
Description: Calcium ICP Standard
Element: Calcium (Ca)
SRM: 3109a
Lot: 223045009
Matrix: 2-5% Nitric acid
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

359349
ID: MT_SST_Ca_00006
Exp: 04/06/28 Prpd.
High Purity Ca stock stan

Date Certified: Apr 6, 2023
Expiration: Apr 6, 2028
Density: 1.043 g/mL
Sample Size: 100 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ilac-MRA

Certified Concentration: 10000 µg/mL

Trace Elements in µg/mL

Ag	nd<0.02	Ce	nd<0.2	Gd	nd<0.02	Lu	nd<0.02	Pb	nd<0.2	Sc	nd<0.02	Tl	nd<0.02
Al	N/A	Co	nd<0.02	Ge	N/A	Mg	1.84	Pd	nd<0.2	Se	N/A	Ti	nd<0.2
As	nd<0.2	Cr	nd<0.02	Hf	nd<0.02	Mn	nd<0.02	Pr	nd<0.2	Si	N/A	Tm	nd<0.02
Au	nd<0.02	Cs	N/A	Hg	nd<0.2	Mo	nd<0.02	Pt	nd<0.2	Sm	nd<0.2	U	nd<0.2
B	nd<0.2	Cu	nd<0.02	Ho	nd<0.02	Na	0.08	Rb	N/A	Sn	nd<0.02	V	nd<0.02
Ba	nd<0.02	Dy	nd<0.02	In	nd<0.2	Nb	nd<0.2	Re	nd<0.2	Sr	0.04	W	nd<0.2
Be	nd<0.02	Er	nd<0.02	Ir	nd<0.2	Nd	nd<0.02	Rh	nd<0.2	Ta	nd<0.2	Y	nd<0.02
Bi	nd<0.2	Eu	nd<0.02	K	nd<0.2	Ni	nd<0.02	Ru	nd<0.02	Tb	nd<0.02	Yb	nd<0.02
Ca	*	Fe	nd<0.02	La	N/A	Os	N/A	S	N/A	Te	nd<0.2	Zn	0.04
Cd	nd<0.02	Ga	nd<0.02	Li	nd<0.02	P	N/A	Sb	nd<0.2	Th	nd<0.02	Zr	nd<0.02

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

This solution was assayed titrimetrically, using EDTA which was standardized against NIST SRM #915a (calcium carbonate).

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

The gravimetric uncertainty for this product is ±0.24%. The CRM uncertainty is ±2.4%.

In order to verify the concentration(s), the final solution was checked by plasma emission spectroscopy (ICP) against material traceable to the above listed NIST SRM(s).

We use the highest purity raw materials available to minimize impurity levels in the final solution. Typically 99.999%+ pure starting materials are used as well as high purity acids and ASTM Type I 18 megohm deionized water.

All trace level elemental impurities were determined via plasma emission spectroscopy on the concentrate.

All weights are traceable through NIST, Test No. 684/291344-18 & 684/292605-19

All glassware used in preparation is Class A.

All bottles are acid leached and triple rinsed with deionized water prior to use.

Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware. Keep bottle tightly capped.

Certified By: Meigan O'Leary
Meigan O'Leary, Inorganic QC Manager

Page 1 of 1

For use in routine laboratory analysis.

Reagent

MT_SST_Na_00006

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuTrace™ Reference Standard

Catalog No: ICP-54N-10X-1
Description: Sodium ICP Standard
Element: Sodium (Na)
SRM: 3152a
Lot: 221085140-01
Matrix: 2-5% Nitric acid
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

359350
ID: MT_SST_Na_00006
Exp: 09/13/28 Prpd.
ICP Sodium 2nd source

Date Certified: Sep 13, 2023
Expiration: Sep 13, 2028
Density: 1.036 g/mL
Sample Size: 100 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ilac-MRA

Certified Concentration: 10000 µg/mL

Trace Elements in µg/mL

Ag	nd<0.02	Ce	nd<0.2	Gd	nd<0.02	Lu	nd<0.02	Pb	nd<0.2	Sc	nd<0.02	Tl	nd<0.02
Al	nd<0.02	Co	nd<0.02	Ge	nd<0.2	Mg	nd<0.02	Pd	nd<0.2	Se	nd<0.2	Ti	nd<0.2
As	nd<0.2	Cr	nd<0.02	Hf	nd<0.02	Mn	nd<0.02	Pr	nd<0.2	Si	N/A	Tm	nd<0.02
Au	nd<0.02	Cs	N/A	Hg	nd<0.2	Mo	nd<0.02	Pt	nd<0.2	Sm	nd<0.2	U	nd<0.2
B	nd<0.2	Cu	nd<0.02	Ho	nd<0.02	Na	*	Rb	N/A	Sn	nd<0.02	V	nd<0.02
Ba	nd<0.02	Dy	nd<0.02	In	nd<0.2	Nb	nd<0.2	Re	nd<0.2	Sr	nd<0.02	W	N/A
Be	nd<0.02	Er	nd<0.02	Ir	nd<0.2	Nd	nd<0.02	Rh	nd<0.2	Ta	nd<0.2	Y	nd<0.02
Bi	nd<0.2	Eu	nd<0.02	K	0.2	Ni	nd<0.02	Ru	nd<0.02	Tb	nd<0.02	Yb	nd<0.02
Ca	0.04	Fe	nd<0.02	La	nd<0.02	Os	N/A	S	N/A	Te	nd<0.2	Zn	0.02
Cd	nd<0.02	Ga	nd<0.02	Li	nd<0.02	P	N/A	Sb	nd<0.2	Th	nd<0.02	Zr	nd<0.02

This Certified Reference Meterial was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

This solution was assayed gravimetrically, using a balance calibrated against weight sets, ID #88270, traceable to NIST

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has hed its expiration date extended and is identical to the same lot number without the suffix.

The gravimetric uncertainty for this product is ±0.24%. The CRM uncertainty is ±2.4%.

In order to verify the concentration(s), the final solution was checked by plasma emission spectroscopy (ICP) against material traceable to the above listed NIST SRM(s).

We use the highest purity raw materials available to minimize impurity levels in the final solution. Typically 99.999%+ pure starting materials are used as well as high purity acids and ASTM Type I 18 megohm deionized water.

All trace level elemental impurities were determined via plasma emission spectroscopy on the concentrate.

All weights are traceable through NIST, Test No. 684/289871-17

All glassware used in preparation is Class A.

All bottles are acid leached and triple rinsed with deionized water prior to use.

Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware. Keep bottle tightly capped.

Certified By: Meigan O'Leary
Meigan O'Leary, Inorganic QC Manager

For use in routine laboratory analysis.

Reagent

MT_SST_QC1_00020

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuTrace™ Reference Standard

Catalog No: QCS-01-5
Description: ICP Quality Control Standard #1
Lot: 224055035
Matrix: 5% Nitric acid, tr HF
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: May 13, 2024
Expiration: Jun 13, 2026
Sample Size: 500 mL
Components: 23
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ILAC-MRA

Component		SRM #	Prepared Concentration (µg/mL)
Sb	Antimony	3102a	100
As	Arsenic	3103a	100
Be	Beryllium	3105a	100
Cd	Cadmium	3108	100
Ca	Calcium	3109a	100
Cr	Chromium	3112a	100
Co	Cobalt	3113	100
Cu	Copper	3114	100
Fe	Iron	3126a	100
Pb	Lead	3128	100
Li	Lithium	3129a	100
Mg	Magnesium	3131a	100
Mn	Manganese	3132	100
Mo	Molybdenum	3134	100
Ni	Nickel	3136	100
P	Phosphorus	3139a	100
Se	Selenium	3149	100
Sr	Strontium	3153a	100
Tl	Thallium	3158	100
Sn	Tin	3161a	100
Ti	Titanium	3162a	100
V	Vanadium	3165	100
Zn	Zinc	3168a	100

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

The gravimetric uncertainty for this product is ±0.24%. The CRM uncertainty is ±2.4% and was determined in accordance with ISO 17034.

In order to verify the concentration(s), the final solution was checked by plasma emission spectroscopy (ICP) against material traceable to the above listed NIST SRM(s).

We use the highest purity raw materials available to minimize impurity levels in the final solution. Typically 99.999%+ pure sterling materials are used as well as high purity acids and ASTM Type I 18 megohm deionized water.

All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

All glassware used in preparation is Class A.

All bottles are acid leached and triple rinsed with deionized water prior to use.

Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware. Keep bottle tightly capped.

Certified By: Meigan O'Leary
Meigan O'Leary, Inorganic QC Manager

For use in routine laboratory analysis.

Reagent

MT_SST_QC2_00020

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuTrace™ Reference Standard

Catalog No: QCS-02-5
Description: ICP Quality Control Standard #2
Lot: 222045096-02
Matrix: 2-5% Nitric acid, tr HF
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: May 8, 2024
Expiration: Jun 8, 2026
Sample Size: 500 mL
Components: 7
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ilac-MRA

Component		SRM #	Prepared Concentration (µg/mL)
Al	Aluminum	3101a	100
Ba	Barium	3104a	100
B	Boron	3107	100
K	Potassium	3141a	1000
Si	Silicon	3150	500
Ag	Silver	3151	50
Na	Sodium	3152a	100

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

The gravimetric uncertainty for this product is ±0.24%. The CRM uncertainty is ±2.4% and was determined in accordance with ISO 17034.

In order to verify the concentration(s), the final solution was checked by plasma emission spectroscopy (ICP) against material traceable to the above listed NIST SRM(s).

We use the highest purity raw materials available to minimize impurity levels in the final solution. Typically 99.999%+ pure starting materials are used as well as high purity acids and ASTM Type I 18 megohm deionized water.

All weights are traceable through NIST, Test No. 684/289871-17

All glassware used in preparation is Class A.

All bottles are acid leached and triple rinsed with deionized water prior to use.

Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware. Keep bottle tightly capped.

Certified By: Meigan O'Leary
Meigan O'Leary, Inorganic QC Manager

For use in routine laboratory analysis.

Reagent

MT_SST_S_00008

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuTrace™ Reference Standard

Catalog No: ICP-56W-10X-1
Description: Sulfur ICP Standard
Element: Sulfur (S)
SRM: 3154
Lot: 222115054
Matrix: Water
Hazards: *Refer to SDS for complete safety information*

Signal Word: Warning

Date Certified: Nov 9, 2022
Expiration: Nov 9, 2027
Density: 1.024 g/mL
Sample Size: 100 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Certified Concentration: 10000 µg/mL

Trace Elements in µg/mL

Ag	nd<0.02	**Ce**	nd<0.2	**Gd**	nd<0.02	**Lu**	nd<0.02	**Pb**	nd<0.2	**Sc**	nd<0.02	**Ti**	nd<0.02
Al	nd<0.02	**Co**	nd<0.02	**Ge**	nd<0.2	**Mg**	nd<0.02	**Pd**	nd<0.2	**Se**	nd<0.2	**Tl**	nd<0.2
As	nd<0.2	**Cr**	nd<0.02	**Hf**	nd<0.02	**Mn**	nd<0.02	**Pr**	nd<0.2	**Si**	nd<0.2	**Tm**	nd<0.02
Au	nd<0.02	**Cs**	N/A	**Hg**	nd<0.2	**Mo**	nd<0.02	**Pt**	nd<0.2	**Sm**	nd<0.2	**U**	nd<0.2
B	nd<0.2	**Cu**	nd<0.02	**Ho**	nd<0.02	**Na**	**0.03**	**Rb**	N/A	**Sn**	nd<0.02	**V**	nd<0.02
Ba	nd<0.02	**Dy**	nd<0.02	**In**	nd<0.2	**Nb**	nd<0.2	**Re**	nd<0.2	**Sr**	nd<0.02	**W**	nd<0.2
Be	nd<0.02	**Er**	nd<0.02	**Ir**	nd<0.2	**Nd**	nd<0.02	**Rh**	nd<0.2	**Ta**	nd<0.2	**Y**	nd<0.02
Bi	nd<0.2	**Eu**	nd<0.02	**K**	nd<0.2	**Ni**	nd<0.02	**Ru**	nd<0.02	**Tb**	nd<0.02	**Yb**	nd<0.02
Ca	**0.07**	**Fe**	nd<0.02	**La**	nd<0.02	**Os**	N/A	**S**	*	**Te**	nd<0.2	**Zn**	nd<0.02
Cd	nd<0.02	**Ga**	nd<0.02	**Li**	nd<0.02	**P**	N/A	**Sb**	nd<0.2	**Th**	nd<0.02	**Zr**	nd<0.02

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

This solution was assayed gravimetrically, using a balance calibrated against weight sets, ID #88270, traceable to NIST

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

The gravimetric uncertainty for this product is ±0.24%. The CRM uncertainty is ±2.4%.

In order to verify the concentration(s), the final solution was checked by plasma emission spectroscopy (ICP) against material traceable to the above listed NIST SRM(s).

We use the highest purity raw materials available to minimize impurity levels in the final solution. Typically 99.999%+ pure starting materials are used as well as high purity acids and ASTM Type I 18 megohm deionized water.

All trace level elemental impurities were determined via plasma emission spectroscopy on the concentrate.

All glassware used in preparation is Class A.

All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

All bottles are acid leached and triple rinsed with deionized water prior to use.

Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware. Keep bottle tightly capped.

Certified By: Meigan O'Leary

Meigan O'Leary, Inorganic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

1. **Quality Standards:**

   ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

   ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

Reagent

SV-ISTD8270_00025

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567684 **Lot No.:** A0218138

Description : 8270 Internal Standard

8270 Internal Standard 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : October 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,002.4 µg/mL	+/- 90.1893
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,013.2 µg/mL	+/- 90.6757
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,017.2 µg/mL	+/- 90.8559
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,014.6 µg/mL	+/- 90.7388
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,009.6 µg/mL	+/- 90.5136
6	Perylene-d12	1520-96-3	PR-33205	99%	2,002.2 µg/mL	+/- 90.1803

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

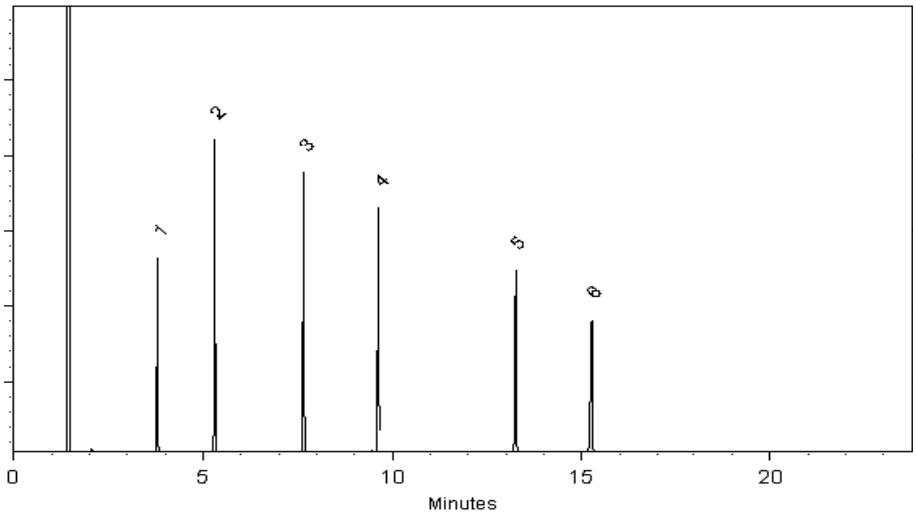
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 21-Oct-2024 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 23-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VO8260ISSur_00018

Agilent
Trusted Answers

ISO 17034

Certified Reference Material

Product Name: Internal and Surrogate Standard
Product Number: STM-540-1
Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006813471
Lot Issue Date: 25-Sep-2024
Expiration Date: 31-Oct-2027

Component Name	CERTIFIED VALUES Concentration		Expanded Uncertainty	CAS#	Analyte Lot
chlorobenzene-d5	2512	±	55 µg/mL	003114-55-4	RM19678
1,4-dichlorobenzene-d4	2508	±	30 µg/mL	003855-82-1	rm19347
fluorobenzene	2512	±	113 µg/mL	000462-06-6	RM13378
4-bromofluorobenzene	2509	±	17 µg/mL	000460-00-4	RM12164
dibromofluoromethane	2510	±	142 µg/mL	001868-53-7	RM01021
1,2-dichloroethane-d4	2505	±	69 µg/mL	017060-07-0	RM21040
toluene-d8	2507	±	36 µg/mL	002037-26-5	RM20758

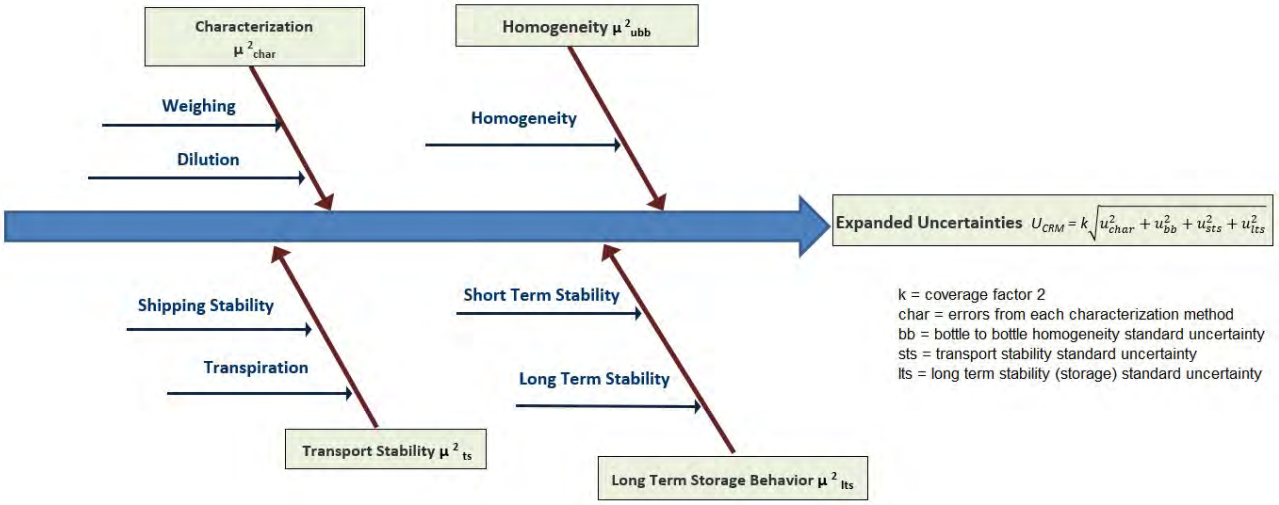
Matrix: methanol (methyl alcohol)

Description:
This document was prepared in accordance with ISO 17034 and Guide 31. This Certified Reference Material is intended for use as a calibration standard for the quantitative determination of the analyte listed. The CRM was manufactured and verified in accordance with the ISO 9001 registered Quality Management System. The certified concentration value reported for the analyte is based upon the gravimetric and volumetric measurements made during the preparation of the standard. The analyte concentrations were verified by the accredited ISO 17025 laboratory using an appropriate analytical technique.

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.

Agilent
Trusted Answers

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using the coverage factor of k=2.



Homogeneity:
This analytical standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20ºC to 25ºC immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this standard.

Intended Use:
This analytical standard 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.

Expiration of Certification:
The certification of this standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

Agilent
Trusted Answers

Reagent

VO8260Primary_00143

Agilent
Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Custom Standard
Product Number: CUS-28148
Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006837291
Lot Issue Date: 10-Mar-2025
Expiration Date: 30-Apr-2027

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
benzene	50.2	±	0.3 µg/mL	000071-43-2	RM12931
bromobenzene	50.2	±	0.3 µg/mL	000108-86-1	RM18187
bromochloromethane	50.1	±	0.3 µg/mL	000074-97-5	RM00009
bromodichloromethane	50.1	±	0.3 µg/mL	000075-27-4	RM20004
bromoform	50.1	±	0.3 µg/mL	000075-25-2	RM13987
bromomethane	50.2	±	0.3 µg/mL	000074-83-9	RM00064
n-butylbenzene	50.2	±	0.3 µg/mL	000104-51-8	RM03651
sec-butylbenzene	50.2	±	0.3 µg/mL	000135-98-8	RM17905
tert-butylbenzene	50.2	±	0.3 µg/mL	000098-06-6	RM14040
carbon tetrachloride	50.2	±	0.3 µg/mL	000056-23-5	RM07576
chlorobenzene	50.2	±	0.3 µg/mL	000108-90-7	RM16055
chloroethane	50.2	±	0.3 µg/mL	000075-00-3	RM00065
chloroform	50.2	±	0.3 µg/mL	000067-66-3	RM15321
chloromethane	50.2	±	0.3 µg/mL	000074-87-3	RM12571
2-chlorotoluene	50.2	±	0.3 µg/mL	000095-49-8	RM22006
4-chlorotoluene	50.2	±	0.3 µg/mL	000106-43-4	RM18212
dibromochloromethane	50.1	±	0.3 µg/mL	000124-48-1	RM19222
1,2-dibromo-3-chloropropane	50.2	±	0.3 µg/mL	000096-12-8	RM12895
1,2-dibromoethane	50.1	±	0.3 µg/mL	000106-93-4	RM00018
dibromomethane	50.1	±	0.3 µg/mL	000074-95-3	RM10223
1,2-dichlorobenzene	50.2	±	0.3 µg/mL	000095-50-1	RM16249
1,3-dichlorobenzene	50.2	±	0.3 µg/mL	000541-73-1	RM16466
1,4-dichlorobenzene	50.1	±	0.3 µg/mL	000106-46-7	RM12826
dichlorodifluoromethane	50.2	±	0.3 µg/mL	000075-71-8	RM05289
1,1-dichloroethane	50.2	±	0.3 µg/mL	000075-34-3	RM19798
1,2-dichloroethane	50.2	±	0.3 µg/mL	000107-06-2	RM04655
1,1-dichloroethene	50.2	±	0.3 µg/mL	000075-35-4	RM19401
cis-1,2-dichloroethene	50.2	±	0.3 µg/mL	000156-59-2	RM19542
trans-1,2-dichloroethene	50.2	±	0.3 µg/mL	000156-60-5	RM07565
1,2-dichloropropane	50.1	±	0.3 µg/mL	000078-87-5	RM12821
MTBE	50.2	±	0.3 µg/mL	001634-04-4	RM17686
acetone	50.2	±	0.3 µg/mL	000067-64-1	RM20566
acrylonitrile	50.2	±	0.3 µg/mL	000107-13-1	RM20367
2-butanone	50.2	±	0.3 µg/mL	000078-93-3	RM06696
2-hexanone	50.2	±	0.3 µg/mL	000591-78-6	RM10228

Agilent
Trusted Answers

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
4-methyl-2-pentanone	50.2	±	0.3 µg/mL	000108-10-1	RM22517
1,3-dichloropropane	50.2	±	0.3 µg/mL	000142-28-9	RM09825
2,2-dichloropropane	50.1	±	0.3 µg/mL	000594-20-7	RM21741
1,1-dichloropropene	50.2	±	0.3 µg/mL	000563-58-6	RM16247
cis-1,3-dichloropropene	50.2	±	0.3 µg/mL	010061-01-5	RM17895
trans-1,3-dichloropropene	50.2	±	0.3 µg/mL	010061-02-6	RM12254
ethylbenzene	50.2	±	0.3 µg/mL	000100-41-4	RM16356
hexachlorobutadiene	50.2	±	0.3 µg/mL	000087-68-3	RM18420
isopropylbenzene	50.2	±	0.3 µg/mL	000098-82-8	RM21284
4-isopropyltoluene	50.1	±	0.3 µg/mL	000099-87-6	RM09747
methylene chloride	50.2	±	0.3 µg/mL	000075-09-2	RM09575
naphthalene	50.2	±	0.3 µg/mL	000091-20-3	RM10445
n-propylbenzene	50.1	±	0.3 µg/mL	000103-65-1	RM21209
styrene	50.2	±	0.3 µg/mL	000100-42-5	RM20330
1,1,1,2-tetrachloroethane	50.2	±	0.3 µg/mL	000630-20-6	RM20417
1,1,2,2-tetrachloroethane	50.2	±	0.3 µg/mL	000079-34-5	RM02540
tetrachloroethene	50.2	±	0.3 µg/mL	000127-18-4	RM06491
toluene	50.2	±	0.3 µg/mL	000108-88-3	RM14228
1,2,3-trichlorobenzene	50.2	±	0.3 µg/mL	000087-61-6	RM20804
1,2,4-trichlorobenzene	50.1	±	0.3 µg/mL	000120-82-1	RM09454
1,1,1-trichloroethane	50.2	±	0.3 µg/mL	000071-55-6	RM18157
1,1,2-trichloroethane	50.1	±	0.3 µg/mL	000079-00-5	RM01175
trichloroethene	50.2	±	0.3 µg/mL	000079-01-6	RM14232
trichlorofluoromethane	50.2	±	0.3 µg/mL	000075-69-4	RM00017
1,2,3-trichloropropane	50.2	±	0.3 µg/mL	000096-18-4	RM17174
1,2,4-trimethylbenzene	50.2	±	0.3 µg/mL	000095-63-6	RM06731
1,3,5-trimethylbenzene	50.2	±	0.3 µg/mL	000108-67-8	RM13787
vinyl chloride	50.2	±	0.3 µg/mL	000075-01-4	RM05458
m-xylene	25.1	±	0.1 µg/mL	000108-38-3	RM15919
p-xylene	25.1	±	0.1 µg/mL	000106-42-3	RM09445
tetrahydrofuran	50.2	±	0.3 µg/mL	000109-99-9	RM20353
carbon disulfide	50.2	±	0.3 µg/mL	000075-15-0	RM04997
t-butanol (2-methyl-2-propanol)	501.5	±	2.5 µg/mL	000075-65-0	RM01883
diisopropyl ether	50.2	±	0.3 µg/mL	000108-20-3	RM20331
tert-butyl ethyl ether	50.2	±	0.3 µg/mL	000637-92-3	RM13253
tert-amyl methyl ether	50.2	±	0.3 µg/mL	000994-05-8	RM14173
o-xylene	50.2	±	0.3 µg/mL	000095-47-6	RM19766
1,3,5-trichlorobenzene	50.1	±	0.3 µg/mL	000108-70-3	RM02554
diethyl ether	50.2	±	0.3 µg/mL	000060-29-7	RM20341
1,4-dioxane	501.5	±	2.5 µg/mL	000123-91-1	RM20283
1,1,2-trichlorotrifluoroethane	50.2	±	0.3 µg/mL	000076-13-1	RM14500
ethanol	1001	±	5 µg/mL	000064-17-5	RM21467
trans-1,4-dichloro-2-butene	50.2	±	0.3 µg/mL	000110-57-6	RM13971

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
cyclohexane	50.2	±	0.3 µg/mL	000110-82-7	RM14638
methyl acetate	50.2	±	0.3 µg/mL	000079-20-9	NT02091
methylcyclohexane	50.2	±	0.3 µg/mL	000108-87-2	RM18053
iodomethane	50.2	±	0.3 µg/mL	000074-88-4	RM14171

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and 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 above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, 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 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20ºC to 25ºC immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard 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.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Agilent
Trusted Answers

Monica Bourgeois
QMS Representative

ANAB
ANSI National Accreditation Board
ACCREDITED
ISO 17034
REFERENCE MATERIAL PRODUCER

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

www.agilent.com/quality/

CSD-QA-015.2

ISO 17034
Cert No. AR-1936

ISO 17025
Cert No. AT-1937

Reagent

VO8260Second_00123

CERTIFIED WEIGHT REPORT

Part Number: 94577
Lot Number: 011625
Description: EPA Method 524.2 Volatile Standard
80 components
Expiration Date: 011628
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Methanol	EJ143-USQ7

5E-05 Balance Uncertainty
0.002 Flask Uncertainty

Volume(s) shown below were combined and diluted to (mL): 200.0

Formulated By: Eli Ariaga 011625 DATE

Reviewed By: Pedro L. Rentas 011625 DATE

	Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc.(µg/mL)	Final Conc.(µg/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Bromodichloromethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	75-27-4	N/A	orl-rat 916mg/kg
2.	Dibromochloromethane	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	124-48-1	N/A	orl-rat 848mg/kg
3.	cis-1,2-Dichloroethene	32001	010925	0.025	5.00	0.017	2000.3	50.0	0.6	156-59-2	N/A	N/A
4.	trans-1,2-Dichloroethene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	156-60-5	N/A	orl-rat 1235mg/kg
5.	Methylene chloride	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	75-09-2	500 ppm	orl-rat 820mg/kg
6.	1,1-Dichloroethene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
7.	Bromochloromethane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	74-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg
8.	Bromoform	32001	010925	0.025	5.00	0.017	2001.1	50.0	0.6	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
9.	Carbon tetrachloride	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
10.	Chloroform	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
11.	Dibromomethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	74-95-3	N/A	orl-rat 108mg/kg
12.	1,1-Dichloroethane	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	75-34-3	100 ppm	orl-rat 725mg/kg
13.	2,2-Dichloropropane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	594-20-7	N/A	N/A
14.	Tetrachloroethene	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	127-18-4	25 ppm (170mg/m3/8H)(5mi)	orl-rat 2629mg/kg
15.	1,1,1-Trichloroethane	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
16.	1,2-Dibromo-3-chloropropane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	96-12-8	0.001 ppm	orl-rat 170mg/kg
17.	1,2-Dibromoethane	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
18.	1,2-Dichloroethane	32001	010925	0.025	5.00	0.017	2000.9	50.0	0.6	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
19.	1,2-Dichloropropane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
20.	1,3-Dichloropropane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	142-28-9	N/A	unr-mus 3600mg/kg
21.	1,1-Dichloropropene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.7	563-58-6	N/A	N/A
22.	cis-1,3-Dichloropropene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	10061-01-5	N/A	N/A
23.	trans-1,3-Dichloropropene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	10061-02-6	N/A	N/A
24.	Hexachloro-1,3-butadiene	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
25.	1,1,1,2-Tetrachloroethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	630-20-6	N/A	orl-rat 670mg/kg
26.	1,1,2,2-Tetrachloroethane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
27.	1,1,2-Trichloroethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
28.	Trichloroethene	32001	010925	0.025	5.00	0.017	2000.9	50.0	0.6	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
29.	1,2,3-Trichloropropane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
30.	Benzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	71-43-2	1 ppm	orl-rat 4894mg/kg
31.	Bromobenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	108-86-1	N/A	orl-rat 2699mg/kg
32.	n-Butyl benzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	104-51-8	N/A	N/A
33.	Ethyl benzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
34.	p-Isopropyl toluene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	99-87-6	N/A	orl-rat 4750mg/kg
35.	Naphthalene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
36.	Styrene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	100-42-5	100 ppm	orl-rat 5000mg/kg
37.	Toluene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	108-88-3	200 ppm	orl-rat 5000mg/kg
38.	1,2,3-Trichlorobenzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	87-61-6	N/A	ipr-mus 1390mg/kg
39.	1,2,4-Trichlorobenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
40.	1,2,4-Trimethylbenzene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	95-63-6	N/A	orl-rat 5g/kg
41.	1,3,5-Trimethylbenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	108-67-8	N/A	orl-rat 5000mg/kg
42.	m-Xylene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
43.	tert-Butyl benzene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	98-06-6	N/A	N/A
44.	sec-Butyl benzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	135-98-8	N/A	orl-rat 2240mg/kg
45.	Chlorobenzene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
46.	2-Chlorotoluene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	95-49-8	50 ppm (260mg/m3/8H)	orl-rat 3600mg/kg
47.	4-Chlorotoluene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	106-43-4	N/A	orl-rat 2100mg/kg
48.	1,2-Dichlorobenzene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
49.	1,3-Dichlorobenzene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	541-73-1	N/A	ipr-mus 1052mg/kg
50.	1,4-Dichlorobenzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
51.	Isopropylbenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
52.	n-Propylbenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	103-65-1	N/A	orl-rat 6040mg/kg
53.	o-Xylene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
54.	p-Xylene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
55.	Bromomethane	30058	101524	0.025	5.00	0.017	2007.5	50.2	0.4	74-83-9	5 ppm (20mg/m3/8H) (skin)	orl-rat 214mg/kg
56.	Chloroethane	30058	101524	0.025	5.00	0.017	2005.3	50.1	0.4	75-00-3	1000 ppm (2600mg/m3/8H)	N/A
57.	Chloromethane	30058	101524	0.025	5.00	0.017	2017.6	50.4	0.4	74-87-3	100 ppm	orl-rat 1800mg/kg
58.	Dichlorodifluoromethane	30058	101524	0.025	5.00	0.017	2010.3	50.3	0.4	75-71-8	1000 ppm (4950mg/m3/8H)	N/A
59.	Trichlorofluoromethane	30058	101524	0.025	5.00	0.017	2009.7	50.2	0.4	75-69-4	1000 ppm (5600mg/m3/8H)	ipr-mus 1743mg/kg
60.	Vinyl chloride	30058	101524	0.025	5.00	0.017	2006.8	50.2	0.4	75-01-4	N/A	N/A
61.	Acetone	92898	042420	0.025	5.00	0.017	2003.3	50.1	0.4	67-64-1	750 ppm	orl-rat 5800mg/kg
62.	Acrylonitrile	92898	042420	0.025	5.00	0.017	2003.7	50.1	0.4	107-13-1	N/A	orl-rat 78 mg/kg
63.	2-Butanone (Methyl ethyl ketone)	92898	042420	0.025	5.00	0.017	2002.0	50.1	0.4	78-93-3	200 ppm (590mg/m3/8H)	orl-rat 2737mg/kg
64.	Carbon disulphide	92898	042420	0.025	5.00	0.017	2003.0	50.1	0.4	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
65.	2-Hexanone	92898	042420	0.025	5.00	0.017	2002.0	50.1	0.4	591-78-6	100 ppm (410mg/m3/8H)	orl-rat 2580mg/kg
66.	4-Methyl-2-pentanone (MIBK)	92898	042420	0.025	5.00	0.017	2003.3	50.1	0.4	108-10-1	100 ppm (410mg/m3/8H)	orl-rat 2080mg/kg
67.	Tetrahydrofuran	92898	042420	0.025	5.00	0.017	2002.4	50.1	0.4	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
68.	Methyl tert-butyl ether (MTBE)	70209	072123	0.05	10.00	0.042	1003.5	50.2	0.5	1634-04-4	N/A	orl-rat 4g/kg
69.	tert-Amyl methyl ether	93394	092716	0.10	20.00	0.003	501.0	50.1	0.2	994-05-8	N/A	N/A
70.	tert-Butyl alcohol (t-Butanol)	93394	092716	0.10	20.00	0.003	5003.6	500.4	2.0	75-65-0	100 ppm (300mg/m3/8H)	orl-rat 3500mg/kg
71.	Diethyl ether (Ethyl ether)	93394	092716	0.10	20.00	0.003	501.4	50.1	0.2	60-29-7	400ppm (1200mg/m3/8H)	orl-rat 1215mg/kg
72.	1,4-Dioxane	93394	092716	0.10	20.00	0.003	5003.4	500.4	2.0	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
73.	Ethyl tert-butyl ether (ETBE)	93394	092716	0.10	20.00	0.003	501.4	50.1	0.2	637-92-3	N/A	N/A
74.	Isopropyl ether	93394	092716	0.10	20.00	0.003	500.4	50.0	0.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
75.	1,3,5-Trichlorobenzene	93394	092716	0.10	20.00	0.003	500.5	50.1	0.2	108-70-3	N/A	orl-rat 800mg/kg
76.	Allyl chloride (3-Chloropropene)	70325	042224	0.05	10.00	0.042	1002.6	50.1	0.5	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
77.	trans-1,4-Dichloro-2-butene	70466	011625	0.05	10.00	0.042	1003.9	50.2	0.5	110-57-6	N/A	N/A
78.	2-Isopropyl toluene	72537	060822	0.05	10.00	0.042	1000.7	50.0	0.5	527-84-4	N/A	orl-rat 2130mg/kg
79.	1,1,2-Trichlorotrifluoroethane	70474	092922	0.05	10.00	0.042	1001.4	50.1	0.5	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
80.	Ethanol	90572	063024	0.05	10.00	0.042	20005.0	1000.4	9.3	64-17-5	1000 ppm (1900mg/m3/8H)	orl-rat 7060mg/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5 % of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyatt, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

VO8260Second_00124

CERTIFIED WEIGHT REPORT

Part Number: 94577
Lot Number: 011625
Description: EPA Method 524.2 Volatile Standard
80 components
Expiration Date: 011628 Solvent(s): Methanol Lot# EJ143-USQ7
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Volume(s) shown below were combined and diluted to (mL): 200.0 0.002 Flask Uncertainty

Formulated By: Eli Ariaga 011625 DATE
Reviewed By: Pedro L. Rentas 011625 DATE

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Bromodichloromethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	75-27-4	N/A	orl-rat 916mg/kg
2. Dibromochloromethane	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	124-48-1	N/A	orl-rat 848mg/kg
3. cis-1,2-Dichloroethene	32001	010925	0.025	5.00	0.017	2000.3	50.0	0.6	156-59-2	N/A	N/A
4. trans-1,2-Dichloroethene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	156-60-5	N/A	orl-rat 1235mg/kg
5. Methylene chloride	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	75-09-2	500 ppm	orl-rat 820mg/kg
6. 1,1-Dichloroethene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
7. Bromochloromethane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	74-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg
8. Bromoform	32001	010925	0.025	5.00	0.017	2001.1	50.0	0.6	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
9. Carbon tetrachloride	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
10. Chloroform	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
11. Dibromomethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	74-95-3	N/A	orl-rat 108mg/kg
12. 1,1-Dichloroethane	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	75-34-3	100 ppm	orl-rat 725mg/kg
13. 2,2-Dichloropropane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	594-20-7	N/A	N/A
14. Tetrachloroethene	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	127-18-4	25 ppm (170mg/m3/8H)(5mi)	orl-rat 2629mg/kg
15. 1,1,1-Trichloroethane	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
16. 1,2-Dibromo-3-chloropropane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	96-12-8	0.001 ppm	orl-rat 170mg/kg
17. 1,2-Dibromoethane	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
18. 1,2-Dichloroethane	32001	010925	0.025	5.00	0.017	2000.9	50.0	0.6	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
19. 1,2-Dichloropropane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
20. 1,3-Dichloropropane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	142-28-9	N/A	unr-mus 3600mg/kg
21. 1,1-Dichloropropene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.7	563-58-6	N/A	N/A
22. cis-1,3-Dichloropropene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	10061-01-5	N/A	N/A
23. trans-1,3-Dichloropropene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	10061-02-6	N/A	N/A
24. Hexachloro-1,3-butadiene	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
25. 1,1,1,2-Tetrachloroethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	630-20-6	N/A	orl-rat 670mg/kg
26. 1,1,2,2-Tetrachloroethane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
27. 1,1,2-Trichloroethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
28. Trichloroethene	32001	010925	0.025	5.00	0.017	2000.9	50.0	0.6	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
29. 1,2,3-Trichloropropane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
30. Benzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	71-43-2	1 ppm	orl-rat 4894mg/kg
31. Bromobenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	108-86-1	N/A	orl-rat 2699mg/kg
32. n-Butyl benzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	104-51-8	N/A	N/A
33. Ethyl benzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
34. p-Isopropyl toluene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	99-87-6	N/A	orl-rat 4750mg/kg
35. Naphthalene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
36. Styrene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	100-42-5	100 ppm	orl-rat 5000mg/kg
37. Toluene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	108-88-3	200 ppm	orl-rat 5000mg/kg
38. 1,2,3-Trichlorobenzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	87-61-6	N/A	ipr-mus 1390mg/kg
39. 1,2,4-Trichlorobenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
40. 1,2,4-Trimethylbenzene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	95-63-6	N/A	orl-rat 5g/kg
41. 1,3,5-Trimethylbenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	108-67-8	N/A	orl-rat 5000mg/kg
42. m-Xylene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
43. tert-Butyl benzene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	98-06-6	N/A	N/A
44. sec-Butyl benzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	135-98-8	N/A	orl-rat 2240mg/kg
45. Chlorobenzene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
46. 2-Chlorotoluene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	95-49-8	50 ppm (260mg/m3/8H)	orl-rat 3600mg/kg
47. 4-Chlorotoluene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	106-43-4	N/A	orl-rat 2100mg/kg
48. 1,2-Dichlorobenzene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
49. 1,3-Dichlorobenzene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	541-73-1	N/A	ipr-mus 1052mg/kg
50. 1,4-Dichlorobenzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
51. Isopropylbenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
52. n-Propylbenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	103-65-1	N/A	orl-rat 6040mg/kg
53. o-Xylene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
54. p-Xylene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
55. Bromomethane	30058	101524	0.025	5.00	0.017	2007.5	50.2	0.4	74-83-9	5 ppm (20mg/m3/8H) (skin)	orl-rat 214mg/kg
56. Chloroethane	30058	101524	0.025	5.00	0.017	2005.3	50.1	0.4	75-00-3	1000 ppm (2600mg/m3/8H)	N/A
57. Chloromethane	30058	101524	0.025	5.00	0.017	2017.6	50.4	0.4	74-87-3	100 ppm	orl-rat 1800mg/kg
58. Dichlorodifluoromethane	30058	101524	0.025	5.00	0.017	2010.3	50.3	0.4	75-71-8	1000 ppm (4950mg/m3/8H)	N/A
59. Trichlorofluoromethane	30058	101524	0.025	5.00	0.017	2009.7	50.2	0.4	75-69-4	1000 ppm (5600mg/m3/8H)	ipr-mus 1743mg/kg
60. Vinyl chloride	30058	101524	0.025	5.00	0.017	2006.8	50.2	0.4	75-01-4	N/A	N/A
61. Acetone	92898	042420	0.025	5.00	0.017	2003.3	50.1	0.4	67-64-1	750 ppm	orl-rat 5800mg/kg
62. Acrylonitrile	92898	042420	0.025	5.00	0.017	2003.7	50.1	0.4	107-13-1	N/A	orl-rat 78 mg/kg
63. 2-Butanone (Methyl ethyl ketone)	92898	042420	0.025	5.00	0.017	2002.0	50.1	0.4	78-93-3	200 ppm (590mg/m3/8H)	orl-rat 2737mg/kg
64. Carbon disulphide	92898	042420	0.025	5.00	0.017	2003.0	50.1	0.4	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
65. 2-Hexanone	92898	042420	0.025	5.00	0.017	2002.0	50.1	0.4	591-78-6	100 ppm (410mg/m3/8H)	orl-rat 2590mg/kg
66. 4-Methyl-2-pentanone (MIBK)	92898	042420	0.025	5.00	0.017	2003.3	50.1	0.4	108-10-1	100 ppm (410mg/m3/8H)	orl-rat 2080mg/kg
67. Tetrahydrofuran	92898	042420	0.025	5.00	0.017	2002.4	50.1	0.4	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
68. Methyl tert-butyl ether (MTBE)	70209	072123	0.05	10.00	0.042	1003.5	50.2	0.5	1634-04-4	N/A	orl-rat 4g/kg
69. tert-Amyl methyl ether	93394	092716	0.10	20.00	0.003	501.0	50.1	0.2	994-05-8	N/A	N/A
70. tert-Butyl alcohol (t-Butanol)	93394	092716	0.10	20.00	0.003	5003.6	500.4	2.0	75-65-0	100 ppm (300mg/m3/8H)	orl-rat 3500mg/kg
71. Diethyl ether (Ethyl ether)	93394	092716	0.10	20.00	0.003	501.4	50.1	0.2	60-29-7	400ppm (1200mg/m3/8H)	orl-rat 1215mg/kg
72. 1,4-Dioxane	93394	092716	0.10	20.00	0.003	5003.4	500.4	2.0	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
73. Ethyl tert-butyl ether (ETBE)	93394	092716	0.10	20.00	0.003	501.4	50.1	0.2	637-92-3	N/A	N/A
74. Isopropyl ether	93394	092716	0.10	20.00	0.003	500.4	50.0	0.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
75. 1,3,5-Trichlorobenzene	93394	092716	0.10	20.00	0.003	500.5	50.1	0.2	108-70-3	N/A	orl-rat 800mg/kg
76. Allyl chloride (3-Chloropropene)	70325	042224	0.05	10.00	0.042	1002.6	50.1	0.5	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
77. trans-1,4-Dichloro-2-butene	70466	011625	0.05	10.00	0.042	1003.9	50.2	0.5	110-57-6	N/A	N/A
78. 2-Isopropyl toluene	72537	060822	0.05	10.00	0.042	1000.7	50.0	0.5	527-84-4	N/A	orl-rat 2130mg/kg
79. 1,1,2-Trichlorotrifluoroethane	70474	092922	0.05	10.00	0.042	1001.4	50.1	0.5	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
80. Ethanol	90572	063024	0.05	10.00	0.042	20005.0	1000.4	9.3	64-17-5	1000 ppm (1900mg/m3/8H)	orl-rat 7060mg/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5 % of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyatt, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

WC_FL_KHP_3_00007

ThermoFisher SCIENTIFIC

Version	01
Molecular weight	204.22
Quality Test / Release Date	05/29/2022
Molecular Formula	C8 H5 K O4
CAS No	877-24-7
Linear Formula	2-(HO2C)C6H4CO2K
Flash Point (°C)	

Certificate of Analysis

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Catalog Number	42406	**Quality Test / Release Date**	05/29/2022
Lot Number	A0414437	**Suggested retest date**	05/29/2027
Description	Potassium hydrogen phthalate,ACS reagent,acidimetric standar d		
Country of Origin	INDIA		
Declaration of Origin	synthetic		

BSE/TSE	
Chemical	

Result name	Specifications	Test Value
Appearance (Color)	White	White
Appearance (Form)	Crystalline powder or crystals	Crystalline powder
Infrared spectrum	Conforms	Conforms
Titration with NaOH	99.95 to 100.05 % (On dried basis)	100.02 % (On dried basis)
pH	4.00 to 4.02 (0.05M at 25.0 +/- 0.2°C)	4.00 (0.05M at 25.0 +/- 0.2°C)
Insoluble matter	=<0.005 %	0.004 %
Chlorine compounds (as Cl)	=<0.003 %	=<0.003 %
Sulfur compounds (as S)	=<0.002 %	=<0.002 %
Heavy metals (as Pb)	=<5 ppm	=<5 ppm
Iron (Fe)	=<5 ppm	=<5 ppm
Sodium (Na)	=<0.005 %	=<0.005 %

C. Wygaerts, QA Manager Issued: 05-30-2022

Acros Organics BV
ENA23, zone1, nr 1350, Janssen Pharmaceuticalaan 3a, B-2440 Geel, Belgium
Tel +32 14/57.52.11 - Fax+32 14/59.34.34 Internet: https://www.thermofisher.com
1 Reagent Lane, Fair Lawn, NJ 07410, USA Fax 201-796-1329

Reagent

WC_IC_C_Br_00009

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

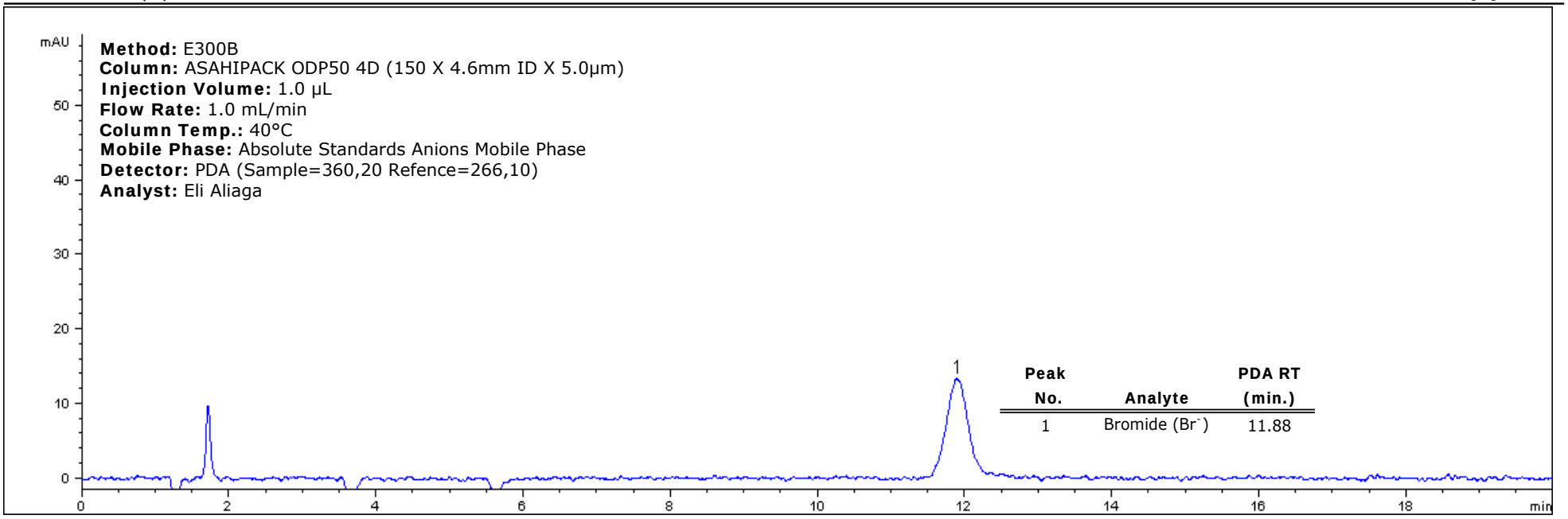
Part Number: **54107**
Lot Number: **031824**
Description: **Bromide (Br^-)**

Expiration Date: 031827
Recommended Storage: Refrigerate (4 ºC)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

Lot #
Solvent: 031824 ASTM Type 1 Water

Formulated By:	Benson Chan	031824
Reviewed By:	Pedro L. Rentas	031824

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium bromide (Br)	IN093	MKBS8981V	1000	99.0	0.10	77.7	5.2031	5.2032	**1000.0**	**2.0**	7647-15-6	NA	orl-rat 3500mg/kg	3184



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_C_Cl_00012

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Ion Chromatography Solution
Catalog Number:	ICCL1
Lot Number:	U2-CL731103
Matrix:	H2O
Value / Analyte(s):	1 000 µg/mL ea: Chloride
Starting Material:	Potassium Chloride
Starting Material Lot#:	2389
Starting Material Purity:	99.8400%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1003 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 — **1003 ± 5 µg/mL**
Fajans NIST SRM 999c Lot Number: 999c

Assay Method #2 — **1002 ± 4 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

Assay Method #3 — **1003 ± 2 µg/mL**
IC Assay NIST SRM 3182 Lot Number: 190830

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

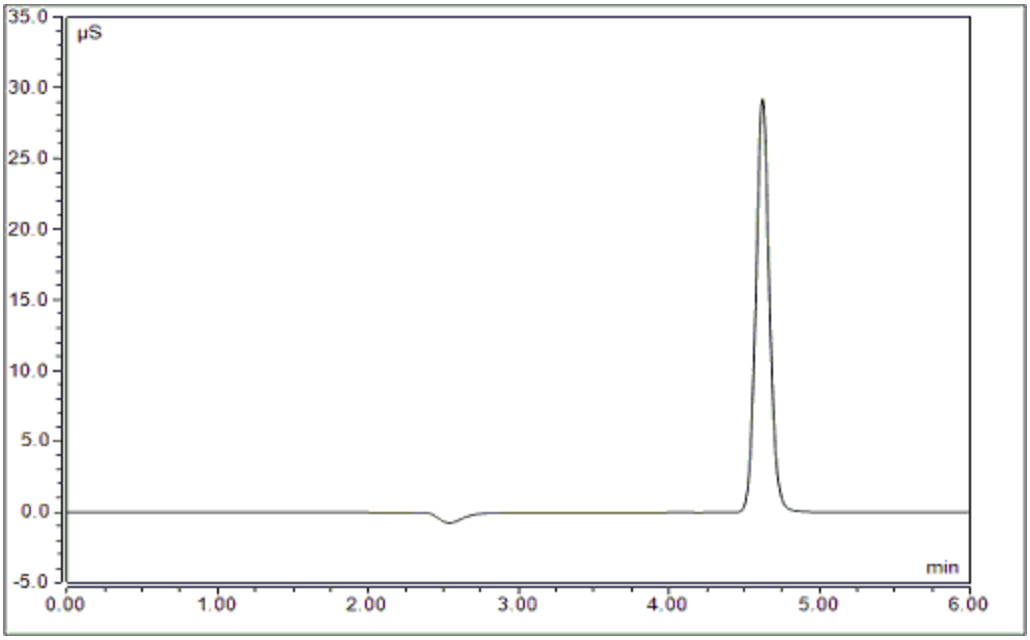
4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 CHROMATOGRAM



Thermo Dionex Aquion IC

Analytical Column:	IonPac AS22 4 x 250 mm	**Eluent:**	4.5 mM Na2CO3 / 1.4mM NaHCO3
Guard Column:	IonPac AG22 4 x 50 mm	**Eluent Flow Rate:**	1.2mL/min
Anion Self Regen Suppressor/ Chemical Suppression:	AERS 500 4 mm	**Column Temp:**	20°C
		Cell Temp:	35°C
Cation Self Regen Suppressor/ Chemical Suppression:	N/A	**Scale X-Axis:**	minutes
		Scale Y-Axis:	35µS/cm
		Concentration:	20µg/g
Suppressor Current/ Chemical Suppressant:	41mA		

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 29, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 29, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

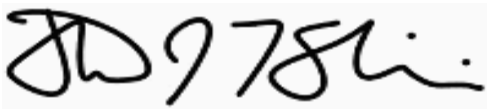
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

WC_IC_C_F_00010

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Ion Chromatography Solution
Catalog Number:	ICF1
Lot Number:	V2-F740739
Matrix:	H2O
Value / Analyte(s):	1 000 µg/mL ea: Fluoride
Starting Material:	Sodium fluoride
Starting Material Lot#:	2399
Starting Material Purity:	99.3600%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1000 ± 3 µg/mL

Density: 1.001 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **1000 ± 2 µg/mL**
IC Assay NIST SRM 3183 Lot Number: 140203

Assay Method #2 **1001 ± 4 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

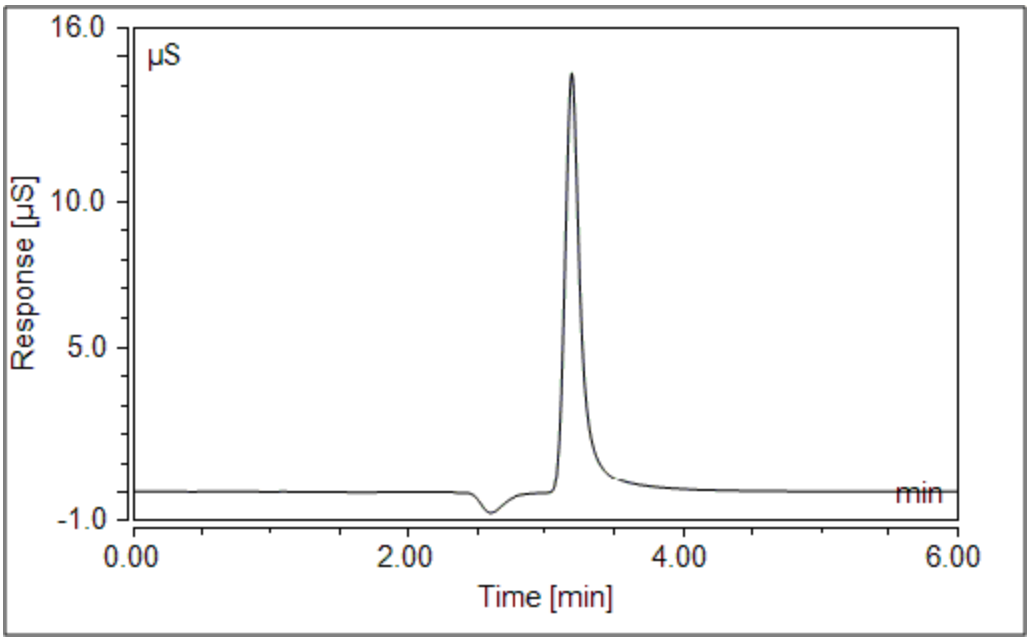
4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 CHROMATOGRAM



Thermo Dionex Aquion IC

Analytical Column:	IonPac AS22 4 x 250 mm	**Eluent:**	4.5 mM Na2CO3 / 1.4mM NaHCO3
Guard Column:	IonPac AG22 4 x 50 mm	**Eluent Flow Rate:**	1.2mL/min
Anion Self Regen Suppressor/ Chemical Suppression:	AERS 500 4 mm	**Column Temp:**	20°C
		Cell Temp:	35°C
		Scale X-Axis:	minutes
Cation Self Regen Suppressor/ Chemical Suppression:	N/A	**Scale Y-Axis:**	16µS/cm
		Concentration:	10µg/g
Suppressor Current/ Chemical Suppressant:	41mA		

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 22, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 22, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

WC_IC_C_NO2_00007

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

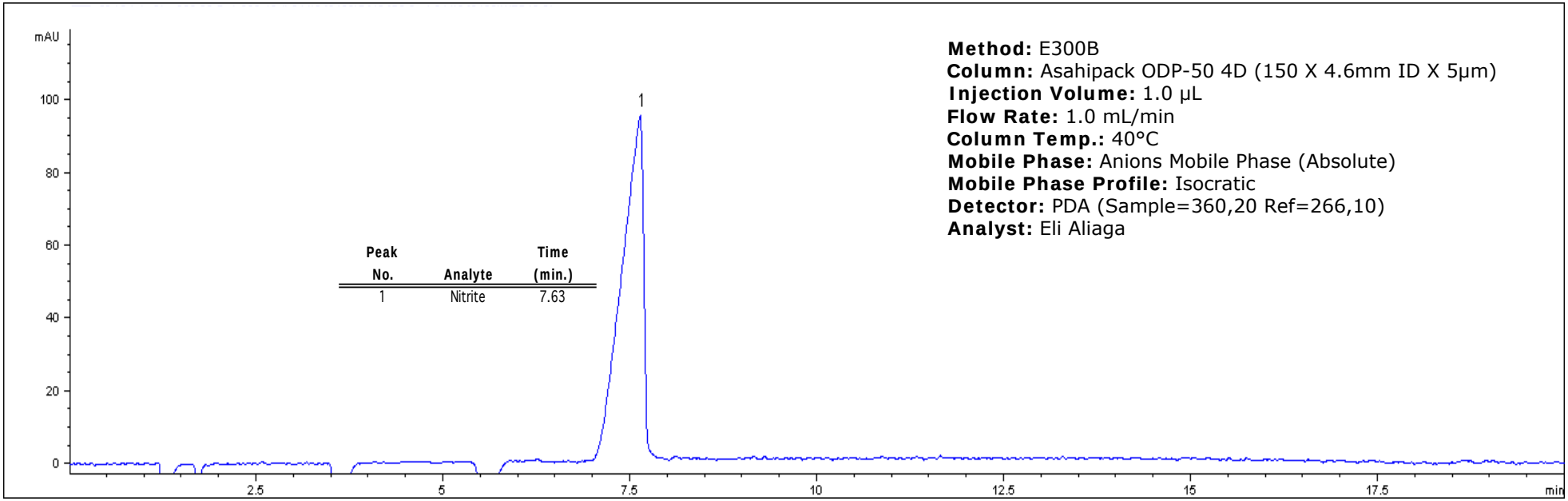
Part Number: 54104
Lot Number: 081023
Description: Nitrite (NO_2^-) as N

Lot #
Solvent: 081023 ASTM Type 1 Water

Expiration Date: 081026
Recommended Storage: Refrigerate (4 ºC)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.0 0.058 Flask Uncertainty

Formulated By:	Benson Chan	081023
Reviewed By:	Pedro L. Rentas	081023

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrite (N)	IN089	MKCS0948	1000	99.7	0.10	20.3	19.7736	19.7751	**1000.1**	**2.0**	7632-00-0	NA	orl-rat 186mg/kg	NA



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_C_NO3_00009

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

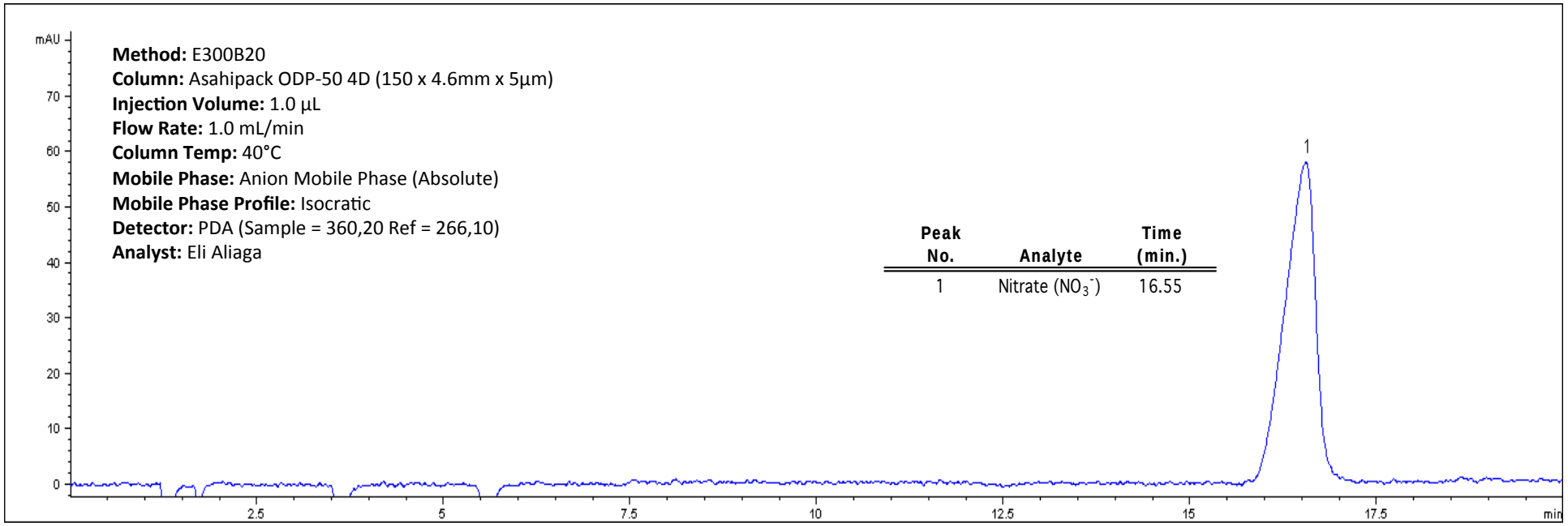
Part Number: 54103
Lot Number: 072424
Description: Nitrate (NO_3^-) as N

Expiration Date: 072427
Recommended Storage: Refrigerate (4 ºC)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

Solvent: Lot # 072424 ASTM Type 1 Water

Formulated By:	Benson Chan	072424
Reviewed By:	Pedro L. Rentas	072424

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (N)	IN138	MKCQ7907	1000	99.1	0.10	16.5	24.4928	24.4940	**1000.0**	**2.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3185



Method: E300B20
Column: Asahipack ODP-50 4D (150 x 4.6mm x 5µm)
Injection Volume: 1.0 µL
Flow Rate: 1.0 mL/min
Column Temp: 40°C
Mobile Phase: Anion Mobile Phase (Absolute)
Mobile Phase Profile: Isocratic
Detector: PDA (Sample = 360,20 Ref = 266,10)
Analyst: Eli Aliaga

Peak No.	Analyte	Time (min.)
1	Nitrate (NO_3^-)	16.55

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_Q_CI_00016

CERTIFIED WEIGHT REPORT:

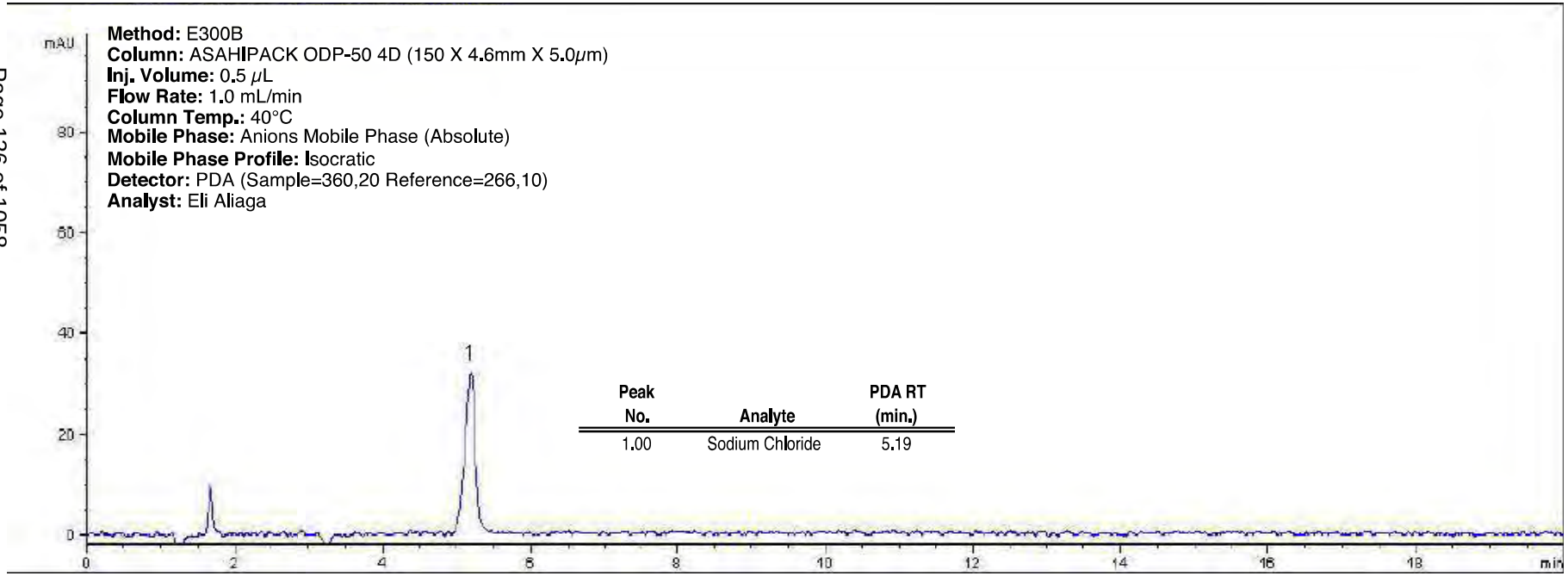
Part Number: 54101
Lot Number: 031125
Description: Chloride (Cl^-)

Expiration Date: 031128
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

Lot #
Solvent: 031125 ASTM Type 1 Water

Formulated By:	Benson Chan	031125
Reviewed By:	Pedro L. Rentas	031125

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium chloride (Cl)	IN090	317765	1000	99.6	0.10	60.7	6.6164	6.6176	**1000.2**	**2.0**	7647-14-5	NA	NA	3182



Method: E300B
Column: ASAHIPACK ODP-50 4D (150 X 4.6mm X 5.0µm)
Inj. Volume: 0.5 µL
Flow Rate: 1.0 mL/min
Column Temp.: 40°C
Mobile Phase: Anions Mobile Phase (Absolute)
Mobile Phase Profile: Isocratic
Detector: PDA (Sample=360,20 Reference=266,10)
Analyst: Eli Aliaga

Peak No.	Analyte	PDA RT (min.)
1.00	Sodium Chloride	5.19

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_Q_NO3_00007

CERTIFIED WEIGHT REPORT:

Part Number: 54103
Lot Number: 102924
Description: Nitrate (NO_3^-) as N

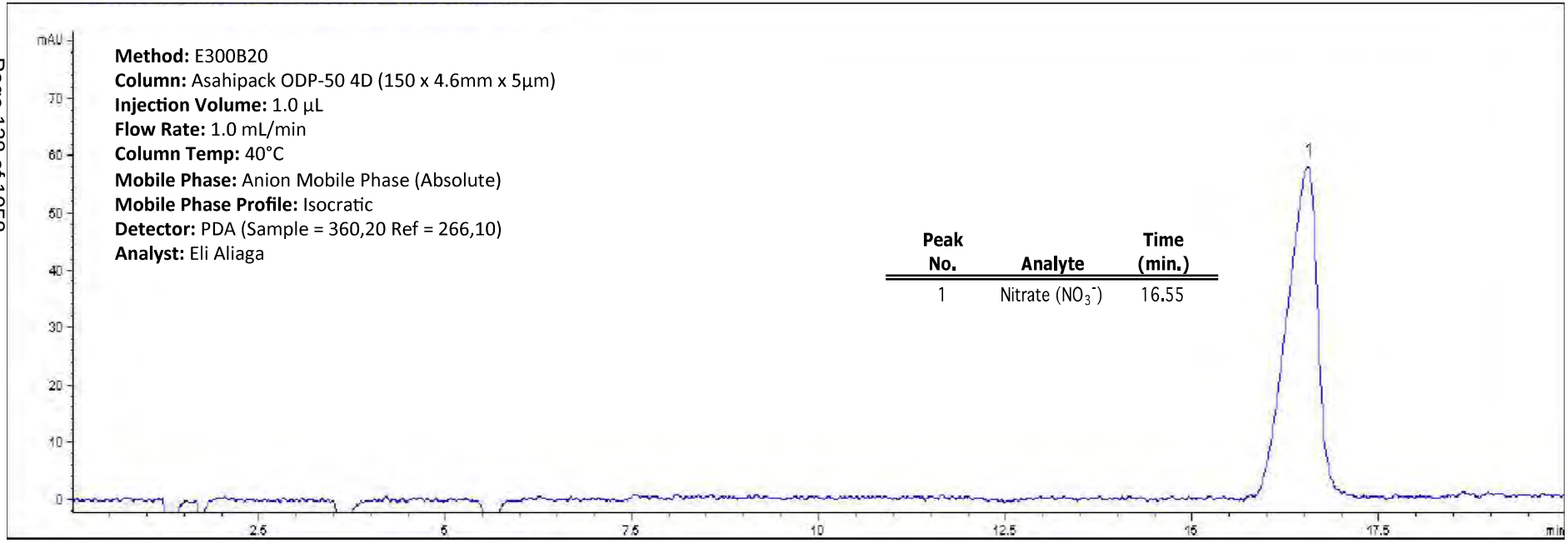
Expiration Date: 102927
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 4000.1 | 0.15 Flask Uncertainty

Lot #
Solvent: 102924 ASTM Type 1 Water | 5E-05 Balance Uncertainty

Formulated By:	Aleah O'Brady	102924
Reviewed By:	Pedro L. Rentas	102924

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (N)	IN138	MKCQ7907	1000	99.1	0.10	16.5	24.4928	24.4935	**1000.0**	**2.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3185



Method: E300B20
Column: Asahipack ODP-50 4D (150 x 4.6mm x 5µm)
Injection Volume: 1.0 µL
Flow Rate: 1.0 mL/min
Column Temp: 40°C
Mobile Phase: Anion Mobile Phase (Absolute)
Mobile Phase Profile: Isocratic
Detector: PDA (Sample = 360,20 Ref = 266,10)
Analyst: Eli Aliaga

Peak No.	Analyte	Time (min.)
1	Nitrate (NO_3^-)	16.55

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_Q_SO4_00018

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

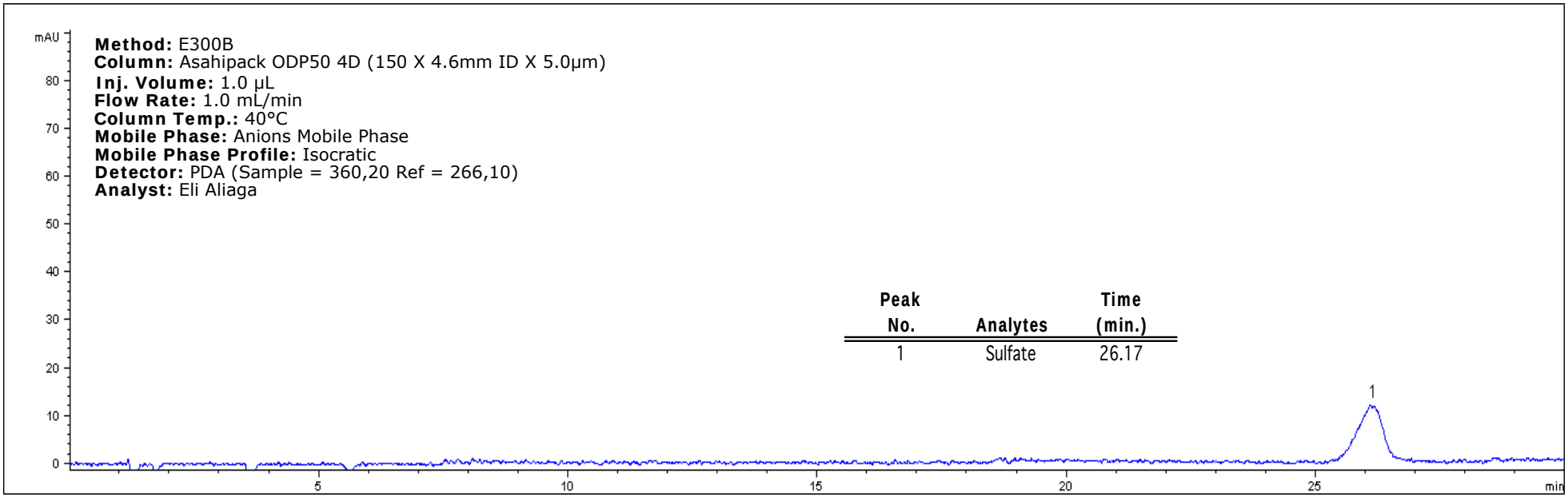
Part Number: **54506**
Lot Number: **061024**
Description: **Sulfate (SO_4^{2-})**

Expiration Date: 061027
Recommended Storage: Refrigerate (4 ºC)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

Lot #
Solvent: 061024 ASTM Type 1 Water

Formulated By:	Aleah O'Brady	061024
Reviewed By:	Pedro L. Rentas	061024

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium sulfate (SO4)	IN091	MKCS1079	1000	99.9	0.10	55.1	7.2669	7.2673	**1000.0**	**2.0**	7778-80-5	NA	orl-rat >2000 mg/kg	3181



Method: E300B
Column: Asahipack ODP50 4D (150 X 4.6mm ID X 5.0µm)
Inj. Volume: 1.0 µL
Flow Rate: 1.0 mL/min
Column Temp.: 40°C
Mobile Phase: Anions Mobile Phase
Mobile Phase Profile: Isocratic
Detector: PDA (Sample = 360,20 Ref = 266,10)
Analyst: Eli Aliaga

Peak No.	Analytes	Time (min.)
1	Sulfate	26.17

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_Q_SO4_00019

CERTIFIED WEIGHT REPORT:

Part Number: 54506
Lot Number: 050525
Description: Sulfate (SO_4^{2-})

Expiration Date: 050528
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

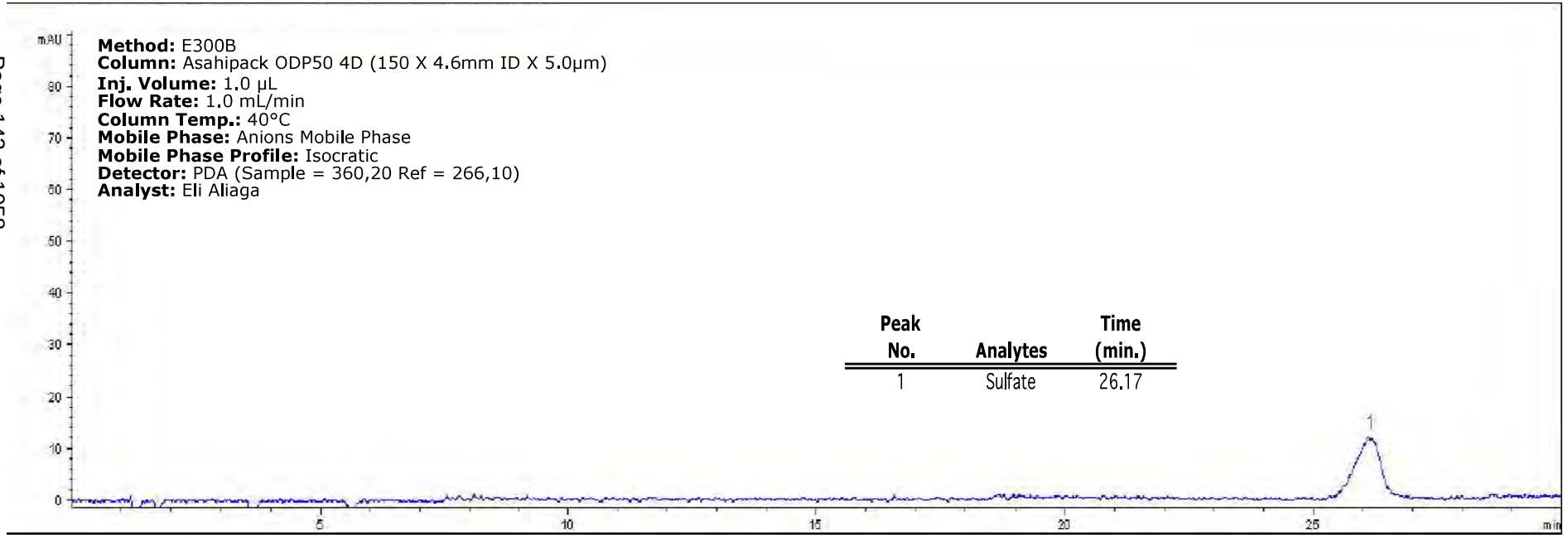
Weight shown below was diluted to (mL): 4000.1 ± 0.15 Flask Uncertainty

Solvent: Lot # 050525 ASTM Type 1 Water

Formulated By:	Aleah O'Brady	050525
Reviewed By:	Pedro L. Rentas	050525

5E-05 Balance Uncertainty

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium sulfate (SO4)	IN091	MKCT0953	1000	99.9	0.10	55.1	7.2669	7.2671	**1000.0**	**2.0**	7778-80-5	NA	orl-rat >2000 mg/kg	3181



Method: E300B
Column: Asahipack ODP50 4D (150 X 4.6mm ID X 5.0µm)
Inj. Volume: 1.0 µL
Flow Rate: 1.0 mL/min
Column Temp.: 40°C
Mobile Phase: Anions Mobile Phase
Mobile Phase Profile: Isocratic
Detector: PDA (Sample = 360,20 Ref = 266,10)
Analyst: Eli Aliaga

Peak No.	Analytes	Time (min.)
1	Sulfate	26.17

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware, and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated by an ISO17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994). Rev 1.0, 2/25/2025

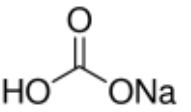
Reagent

WC_TC_Q_BCarb_00008

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Sodium bicarbonate - ACS reagent, ≥99.7%



Product Number:	**S6014**
Batch Number:	**SLCL6650**
Brand:	SIGALD
CAS Number:	144-55-8
MDL Number:	MFCD00003528
Formula:	NaHCO3
Formula Weight:	84.01 g/mol
Quality Release Date:	02 NOV 2021
Recommended Retest Date:	NOV 2026

Test	Specification	Result
Ammonium (NH4) < /= 5 ppm	Conforms	Conforms
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Assay	99.7 - 100.3 %	100.1 %
Calcium (Ca) < /= 0.02%	Conforms	Conforms
Chloride (Cl) < /= 0.003%	Conforms	Conforms
Heavy Metals by ICP-OES	< = 5 ppm	< 5 ppm
Infrared Spectrum	Conforms to Structure	Conforms
Insoluble Matter < /= 0.015%	Conforms	Conforms
Iron (Fe) < /= 0.001%	Conforms	Conforms
Magnesium (Mg) < /= 0.005%	Conforms	Conforms
Note ACS tests	----------	----------
Phosphate (PO4) < /= 0.001%	Conforms	Conforms
Potassium (K) < /= 0.005%	Conforms	Conforms

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Number: **S6014**
Batch Number: **SLCL6650**

Test	Specification	Result
Sulfur Compounds (SO4) < /= 0.003%	Conforms	Conforms

Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Reagent

WC_TC_Q_Carb_00011

LabChem
Part of TCP Analytical Group
Jackson's Pointe Commerce Park- Building 1000
1010 Jackson's Pointe Court, Zelienople, PA 16063

Certificate of Analysis

Sodium Carbonate Anhydrous ACS

Product Code: **LC22965**

Manufacture Date: April 25, 2025

Lot Number: **45040435**

Test	Specification	Result
Appearance (color)	white	white
Assay - % w/w	>= 99.5 % w/w	99.8% w/w
Calcium (Ca)	<= 0.03 %	<0.01%
Iron (Fe)	<= 5 ppm	<5ppm
Magnesium (Mg)	<= 0.005 %	<0.001%
Potassium (K)	<= 0.005 %	<0.001%
Loss on Heating @ 285°C	<= 1.0 %	<0.4%
Chloride	<= 0.02 %	<0.01%
Heavy Metals (Pb)	<= 5 ppm	<5ppm
Insoluble Matter and NH4OH ppt	<= 0.01 %	<0.01%
Phosphate (PO4)	<= 0.001 %	<0.001%
Silica (SiO2)	<= 0.005 %	<0.005%
Sulfur compounds (as SO4)	<= 0.003 %	<0.003%

Intended Use *- Product is intended for use in manufacturing procedures and laboratory procedures and protocols.*

Storage Information *- Unless noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.*

Instructions for Handling and Use - *Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.*

Preparation - *All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST*

The suffix of the product code may differ from what is on your product label. The suffix will designate the size and be associated with a numeric digit(s). Visit LabChem.com for more information

Suffix	1	2	3/3S/36/36S	4/4C	5	6	7	8	9	20	44	200	246	486
Size	500mL or g	1L or 1kg	2.5L/2.5L Coated/6x2.5L/6x2.5L Coated	4L	20L	10L	125mL	25g	100g	20x20mL	4x4L	200L	24x6mL	48x6mL

Michael Monteleone

Michael Monteleone
Chemistry Supervisor - Quality Control

ISO9001:2015 Registration #0306-01

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-VRX ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-11/250811	620-28495-1	101	103	100	101
MW-100B/250811	620-28495-2	101	103	98	99
MW-100E/250811	620-28495-3	102	105	99	101
FB/250811	620-28495-4	105	107	100	100
TB/250811	620-28495-5	102	102	99	101
	MB 620-51995/7	100	97	98	97
	LCS 620-51995/4	101	96	100	100
	LCSD 620-51995/5	99	94	100	100

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081325-04.D

Lab ID: LCS 620-51995/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.0	90	72-120	
Acetone	20.0	14.5	72	19-144	
Acrylonitrile	20.0	20.2	101	67-141	
Benzene	20.0	18.5	92	82-120	
Bromobenzene	20.0	20.0	100	80-115	
Bromochloromethane	20.0	20.5	102	84-119	
Bromodichloromethane	20.0	20.6	103	77-118	
Bromoform	20.0	20.4	102	68-130	
Bromomethane	20.0	8.33	42	27-151	
2-Butanone (MEK)	20.0	13.6	68	32-126	
n-Butylbenzene	20.0	23.4	117	81-129	
sec-Butylbenzene	20.0	21.0	105	81-124	
tert-Butylbenzene	20.0	21.7	109	80-128	
Carbon disulfide	20.0	21.2	106	67-136	
Carbon tetrachloride	20.0	19.2	96	70-129	
Chlorobenzene	20.0	20.3	102	82-112	
Chloroethane	20.0	17.2	86	47-142	
Chloroform	20.0	19.6	98	77-126	
Chloromethane	20.0	13.0	65	26-159	
2-Chlorotoluene	20.0	21.1	106	82-122	
4-Chlorotoluene	20.0	20.8	104	79-123	
1,2-Dibromo-3-Chloropropane	20.0	19.6	98	64-117	
Dibromochloromethane	20.0	18.6	93	71-126	
1,2-Dibromoethane (EDB)	20.0	20.6	103	83-122	
Dibromomethane	20.0	20.2	101	83-117	
1,2-Dichlorobenzene	20.0	20.4	102	87-118	
1,3-Dichlorobenzene	20.0	19.8	99	83-122	
1,4-Dichlorobenzene	20.0	19.2	96	81-115	
Dichlorodifluoromethane (Freon 12)	20.0	11.4	57	21-147	
1,1-Dichloroethane	20.0	19.7	99	84-122	
1,2-Dichloroethane	20.0	18.2	91	69-121	
1,1-Dichloroethene	20.0	18.7	93	83-123	
cis-1,2-Dichloroethene	20.0	20.9	104	85-122	
trans-1,2-Dichloroethene	20.0	20.0	100	84-123	
1,2-Dichloropropane	20.0	20.3	102	80-124	
1,3-Dichloropropane	20.0	20.1	100	80-118	
2,2-Dichloropropane	20.0	21.4	107	74-125	
1,1-Dichloropropene	20.0	21.0	105	76-120	
cis-1,3-Dichloropropene	20.0	21.0	105	76-125	
trans-1,3-Dichloropropene	20.0	22.0	110	77-132	

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 Rhode Island Job No.: 620-28495-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081325-04.D

Lab ID: LCS 620-51995/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethylbenzene	20.0	21.4	107	85-116	
Hexachlorobutadiene	20.0	19.3	97	70-127	
2-Hexanone (MBK)	20.0	16.0	80	40-130	
Isopropylbenzene	20.0	19.4	97	78-122	
4-Isopropyltoluene	20.0	21.9	109	80-121	
Methyl tert-butyl ether	20.0	20.6	103	72-126	
4-Methyl-2-pentanone (MIBK)	20.0	17.1	86	59-130	
Methylene Chloride	20.0	19.7	99	77-124	
Naphthalene	20.0	18.4	92	57-133	
N-Propylbenzene	20.0	19.7	98	86-124	
Styrene	20.0	23.7	119	80-121	
1,1,1,2-Tetrachloroethane	20.0	19.5	98	81-113	
1,1,2,2-Tetrachloroethane	20.0	19.0	95	74-115	
Tetrachloroethene	20.0	20.2	101	78-124	
Toluene	20.0	19.4	97	83-114	
1,2,3-Trichlorobenzene	20.0	20.8	104	73-128	
1,2,4-Trichlorobenzene	20.0	21.3	107	74-128	
1,3,5-Trichlorobenzene	20.0	21.2	106	81-124	
1,1,1-Trichloroethane	20.0	20.1	101	76-124	
1,1,2-Trichloroethane	20.0	20.5	102	83-120	
Trichloroethene	20.0	20.1	100	79-113	
Trichlorofluoromethane (Freon 11)	20.0	18.7	93	68-130	
1,2,3-Trichloropropane	20.0	19.4	97	74-116	
1,2,4-Trimethylbenzene	20.0	22.0	110	83-121	
1,3,5-Trimethylbenzene	20.0	21.4	107	82-125	
Vinyl chloride	20.0	15.7	78	49-145	
m,p-Xylene	40.0	45.9	115	82-128	
o-Xylene	20.0	21.2	106	83-122	
Tetrahydrofuran	20.0	20.5	102	59-134	
Ethyl ether	20.0	18.5	93	74-119	
Tert-amyl methyl ether	20.0	19.4	97	70-122	
Ethyl tert-butyl ether	20.0	20.3	102	72-122	
di-Isopropyl ether	20.0	19.8	99	66-130	
tert-Butanol	200	220	110	60-146	
trans-1,4-Dichloro-2-butene	20.0	19.7	98	57-146	
Ethanol	400	425	106	53-150	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081325-05.D

Lab ID: LCSD 620-51995/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.0	90	0	20	72-120	
Acetone	20.0	14.0	70	3	20	19-144	
Acrylonitrile	20.0	20.7	103	3	20	67-141	
Benzene	20.0	18.9	95	2	20	82-120	
Bromobenzene	20.0	20.3	102	2	20	80-115	
Bromochloromethane	20.0	21.0	105	2	20	84-119	
Bromodichloromethane	20.0	21.6	108	4	20	77-118	
Bromoform	20.0	21.0	105	3	20	68-130	
Bromomethane	20.0	9.25	46	10	20	27-151	
2-Butanone (MEK)	20.0	13.1	66	4	20	32-126	
n-Butylbenzene	20.0	24.2	121	3	20	81-129	
sec-Butylbenzene	20.0	21.7	108	3	20	81-124	
tert-Butylbenzene	20.0	22.0	110	1	20	80-128	
Carbon disulfide	20.0	21.4	107	1	20	67-136	
Carbon tetrachloride	20.0	19.3	97	1	20	70-129	
Chlorobenzene	20.0	20.8	104	3	20	82-112	
Chloroethane	20.0	15.9	80	8	20	47-142	
Chloroform	20.0	20.0	100	2	20	77-126	
Chloromethane	20.0	12.8	64	2	20	26-159	
2-Chlorotoluene	20.0	21.4	107	1	20	82-122	
4-Chlorotoluene	20.0	21.1	106	2	20	79-123	
1,2-Dibromo-3-Chloropropane	20.0	19.5	97	0	20	64-117	
Dibromochloromethane	20.0	18.8	94	1	20	71-126	
1,2-Dibromoethane (EDB)	20.0	21.2	106	3	20	83-122	
Dibromomethane	20.0	20.4	102	1	20	83-117	
1,2-Dichlorobenzene	20.0	20.8	104	2	20	87-118	
1,3-Dichlorobenzene	20.0	20.6	103	4	20	83-122	
1,4-Dichlorobenzene	20.0	19.7	98	2	20	81-115	
Dichlorodifluoromethane (Freon 12)	20.0	11.6	58	2	20	21-147	
1,1-Dichloroethane	20.0	19.8	99	0	20	84-122	
1,2-Dichloroethane	20.0	18.5	92	2	20	69-121	
1,1-Dichloroethene	20.0	19.3	96	3	20	83-123	
cis-1,2-Dichloroethene	20.0	21.2	106	2	20	85-122	
trans-1,2-Dichloroethene	20.0	20.8	104	4	20	84-123	
1,2-Dichloropropane	20.0	21.2	106	4	20	80-124	
1,3-Dichloropropane	20.0	20.5	103	2	20	80-118	
2,2-Dichloropropane	20.0	21.7	108	1	20	74-125	
1,1-Dichloropropene	20.0	21.8	109	4	20	76-120	
cis-1,3-Dichloropropene	20.0	21.3	106	1	20	76-125	
trans-1,3-Dichloropropene	20.0	22.4	112	2	20	77-132	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081325-05.D

Lab ID: LCSD 620-51995/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Ethylbenzene	20.0	22.1	111	4	20	85-116	
Hexachlorobutadiene	20.0	19.8	99	2	20	70-127	
2-Hexanone (MBK)	20.0	15.6	78	3	20	40-130	
Isopropylbenzene	20.0	19.9	99	3	20	78-122	
4-Isopropyltoluene	20.0	22.4	112	2	20	80-121	
Methyl tert-butyl ether	20.0	21.1	105	2	20	72-126	
4-Methyl-2-pentanone (MIBK)	20.0	18.0	90	5	20	59-130	
Methylene Chloride	20.0	20.1	100	2	20	77-124	
Naphthalene	20.0	19.4	97	5	20	57-133	
N-Propylbenzene	20.0	20.3	101	3	20	86-124	
Styrene	20.0	24.3	122	2	20	80-121	*
1,1,1,2-Tetrachloroethane	20.0	20.1	100	3	20	81-113	
1,1,2,2-Tetrachloroethane	20.0	19.5	97	2	20	74-115	
Tetrachloroethene	20.0	20.7	103	2	20	78-124	
Toluene	20.0	19.9	99	2	20	83-114	
1,2,3-Trichlorobenzene	20.0	21.7	109	5	20	73-128	
1,2,4-Trichlorobenzene	20.0	21.8	109	2	20	74-128	
1,3,5-Trichlorobenzene	20.0	22.2	111	4	20	81-124	
1,1,1-Trichloroethane	20.0	20.7	104	3	20	76-124	
1,1,2-Trichloroethane	20.0	20.7	103	1	20	83-120	
Trichloroethene	20.0	19.9	100	1	20	79-113	
Trichlorofluoromethane (Freon 11)	20.0	19.0	95	1	20	68-130	
1,2,3-Trichloropropane	20.0	19.9	100	3	20	74-116	
1,2,4-Trimethylbenzene	20.0	22.6	113	3	20	83-121	
1,3,5-Trimethylbenzene	20.0	22.1	110	3	20	82-125	
Vinyl chloride	20.0	15.8	79	1	20	49-145	
m,p-Xylene	40.0	47.4	119	3	20	82-128	
o-Xylene	20.0	21.9	110	3	20	83-122	
Tetrahydrofuran	20.0	20.3	102	1	20	59-134	
Ethyl ether	20.0	19.0	95	3	20	74-119	
Tert-amyl methyl ether	20.0	19.8	99	2	20	70-122	
Ethyl tert-butyl ether	20.0	20.8	104	3	20	72-122	
di-Isopropyl ether	20.0	20.2	101	2	20	66-130	
tert-Butanol	200	235	118	7	20	60-146	
trans-1,4-Dichloro-2-butene	20.0	19.6	98	0	20	57-146	
Ethanol	400	373	93	13	20	53-150	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Lab File ID: V4-081325-07.D Lab Sample ID: MB 620-51995/7

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

Instrument ID: HPV4 Date Analyzed: 08/13/2025 10:03

GC Column: DB-VRX ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 620-51995/4	V4-081325-04.D	08/13/2025 08:55
	LCSD 620-51995/5	V4-081325-05.D	08/13/2025 09:18
TB/250811	620-28495-5	V4-081325-08.D	08/13/2025 11:11
MW-11/250811	620-28495-1	V4-081325-19.D	08/13/2025 15:29
MW-100B/250811	620-28495-2	V4-081325-20.D	08/13/2025 15:53
MW-100E/250811	620-28495-3	V4-081325-21.D	08/13/2025 16:17
FB/250811	620-28495-4	V4-081325-22.D	08/13/2025 16:41

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

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Lab File ID: V4-080725-02.D BFB Injection Date: 08/07/2025

Instrument ID: HPV4 BFB Injection Time: 08:22

Analysis Batch No.: 51723

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.6	
75	30.0 - 60.0 % of mass 95	53.8	
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	(0.6) 1
174	Greater than 50% of mass 95	79.7	
175	5.0 - 9.0 % of mass 174	6.0	(7.5) 1
176	95.0 - 101.0 % of mass 174	80.1	(100.6) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.6) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 620-51723/3	V4-080725-03.	08/07/2025	8:50
	IC 620-51723/4	V4-080725-04.	08/07/2025	9:12
	IC 620-51723/5	V4-080725-05.	08/07/2025	9:35
	IC 620-51723/6	V4-080725-06.	08/07/2025	9:58
	IC 620-51723/7	V4-080725-07.	08/07/2025	10:21
	ICIS 620-51723/8	V4-080725-08.	08/07/2025	10:44
	IC 620-51723/9	V4-080725-09.	08/07/2025	11:07
	IC 620-51723/10	V4-080725-10.	08/07/2025	11:30
	IC 620-51723/11	V4-080725-11.	08/07/2025	11:53
	ICV 620-51723/16	V4-080725-16.	08/07/2025	15:14

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

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Lab File ID: V4-081325-02.D BFB Injection Date: 08/13/2025

Instrument ID: HPV4 BFB Injection Time: 08:09

Analysis Batch No.: 51995

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.0	
75	30.0 - 60.0 % of mass 95	52.3	
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	0.5	(0.7) 1
174	Greater than 50% of mass 95	81.1	
175	5.0 - 9.0 % of mass 174	5.9	(7.3) 1
176	95.0 - 101.0 % of mass 174	80.5	(99.2) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.6) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 620-51995/3	V4-081325-03.	08/13/2025	8:32
	LCS 620-51995/4	V4-081325-04.	08/13/2025	8:55
	LCSD 620-51995/5	V4-081325-05.	08/13/2025	9:18
	MB 620-51995/7	V4-081325-07.	08/13/2025	10:03
TB/250811	620-28495-5	V4-081325-08.	08/13/2025	11:11
MW-11/250811	620-28495-1	V4-081325-19.	08/13/2025	15:29
MW-100B/250811	620-28495-2	V4-081325-20.	08/13/2025	15:53
MW-100E/250811	620-28495-3	V4-081325-21.	08/13/2025	16:17
FB/250811	620-28495-4	V4-081325-22.	08/13/2025	16:41

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

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Sample No.: ICIS 620-51723/8 Date Analyzed: 08/07/2025 10:44

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm)

Lab File ID (Standard): V4-080725-08.D Heated Purge: (Y/N) N

Calibration ID: 10515

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		346631	4.64	249731	9.04	147217	11.55
UPPER LIMIT		693262	5.14	499462	9.54	294434	12.05
LOWER LIMIT		173316	4.14	124866	8.54	73609	11.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 620-51723/16		365585	4.64	267914	9.04	152256	11.55

FB = Fluorobenzene
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 Rhode Island Job No.: 620-28495-1

SDG No.:

Sample No.: CCVIS 620-51995/3 Date Analyzed: 08/13/2025 08:32

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm)

Lab File ID (Standard): V4-081325-03.D Heated Purge: (Y/N) N

Calibration ID: 10515

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		371734	4.65	270287	9.04	157540	11.55
UPPER LIMIT		743468	5.15	540574	9.54	315080	12.05
LOWER LIMIT		185867	4.15	135144	8.54	78770	11.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 620-51995/4		380813	4.65	276891	9.04	159383	11.55
LCSD 620-51995/5		380484	4.65	274463	9.04	158197	11.55
MB 620-51995/7		383443	4.66	267542	9.04	152330	11.55
620-28495-5	TB/250811	350330	4.64	245629	9.04	139841	11.55
620-28495-1	MW-11/250811	324587	4.65	228177	9.04	130153	11.55
620-28495-2	MW-100B/250811	321226	4.65	226580	9.04	127657	11.55
620-28495-3	MW-100E/250811	314108	4.65	218626	9.04	124785	11.55
620-28495-4	FB/250811	302216	4.65	216256	9.04	121575	11.55

FB = Fluorobenzene
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 Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-11/250811 | Lab Sample ID: 620-28495-1

Matrix: Water | Lab File ID: V4-081325-19.D

Analysis Method: 8260C | Date Collected: 08/11/2025 13:15

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 15:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	5.0	J B	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	0.39	J	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-11/250811 | Lab Sample ID: 620-28495-1

Matrix: Water | Lab File ID: V4-081325-19.D

Analysis Method: 8260C | Date Collected: 08/11/2025 13:15

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 15:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	3.5		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U *	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	3.1		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	0.23	J	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-11/250811 | Lab Sample ID: 620-28495-1

Matrix: Water | Lab File ID: V4-081325-19.D

Analysis Method: 8260C | Date Collected: 08/11/2025 13:15

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 15:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-100B/250811 | Lab Sample ID: 620-28495-2

Matrix: Water | Lab File ID: V4-081325-20.D

Analysis Method: 8260C | Date Collected: 08/11/2025 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 15:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	5.8	J B	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	0.39	J	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.2		1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-100B/250811 | Lab Sample ID: 620-28495-2

Matrix: Water | Lab File ID: V4-081325-20.D

Analysis Method: 8260C | Date Collected: 08/11/2025 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 15:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U *	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	1.0	U	1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-100B/250811 | Lab Sample ID: 620-28495-2

Matrix: Water | Lab File ID: V4-081325-20.D

Analysis Method: 8260C | Date Collected: 08/11/2025 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 15:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-100E/250811 | Lab Sample ID: 620-28495-3

Matrix: Water | Lab File ID: V4-081325-21.D

Analysis Method: 8260C | Date Collected: 08/11/2025 15:05

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 16:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	7.5	J B	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	0.27	J	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-100E/250811 | Lab Sample ID: 620-28495-3

Matrix: Water | Lab File ID: V4-081325-21.D

Analysis Method: 8260C | Date Collected: 08/11/2025 15:05

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 16:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	5.9		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U *	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	2.0		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-100E/250811 | Lab Sample ID: 620-28495-3

Matrix: Water | Lab File ID: V4-081325-21.D

Analysis Method: 8260C | Date Collected: 08/11/2025 15:05

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 16:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
1868-53-7	Dibromofluoromethane (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: FB/250811 | Lab Sample ID: 620-28495-4

Matrix: Water | Lab File ID: V4-081325-22.D

Analysis Method: 8260C | Date Collected: 08/11/2025 15:15

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 16:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	15	B	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: FB/250811 | Lab Sample ID: 620-28495-4

Matrix: Water | Lab File ID: V4-081325-22.D

Analysis Method: 8260C | Date Collected: 08/11/2025 15:15

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 16:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U *	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	1.0	U	1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: FB/250811 | Lab Sample ID: 620-28495-4

Matrix: Water | Lab File ID: V4-081325-22.D

Analysis Method: 8260C | Date Collected: 08/11/2025 15:15

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 16:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: TB/250811 | Lab Sample ID: 620-28495-5

Matrix: Water | Lab File ID: V4-081325-08.D

Analysis Method: 8260C | Date Collected: 08/11/2025 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 11:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	4.5	J B	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: TB/250811 | Lab Sample ID: 620-28495-5

Matrix: Water | Lab File ID: V4-081325-08.D

Analysis Method: 8260C | Date Collected: 08/11/2025 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 11:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U *	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	1.0	U	1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: TB/250811 | Lab Sample ID: 620-28495-5

Matrix: Water | Lab File ID: V4-081325-08.D

Analysis Method: 8260C | Date Collected: 08/11/2025 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 11:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
1868-53-7	Dibromofluoromethane (Surr)	102		70-130

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-51723/3	V4-080725-03.D
Level 2	IC 620-51723/4	V4-080725-04.D
Level 3	IC 620-51723/5	V4-080725-05.D
Level 4	IC 620-51723/6	V4-080725-06.D
Level 5	IC 620-51723/7	V4-080725-07.D
Level 6	ICIS 620-51723/8	V4-080725-08.D
Level 7	IC 620-51723/9	V4-080725-09.D
Level 8	IC 620-51723/10	V4-080725-10.D
Level 9	IC 620-51723/11	V4-080725-11.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 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane (Freon 12)	0.4681 0.3997	0.4351 0.4076	0.4078 0.4015	0.3899 0.3748	0.3978	Ave		0.4092			0.0100	6.7		20.0			
Chloromethane	+++++ 0.3186	0.4254 0.3154	0.3557 0.3116	0.3408 0.2851	0.3160	Ave		0.3336			0.0500	12.8		20.0			
Vinyl chloride	0.2971 0.2513	0.2590 0.2580	0.2475 0.2478	0.2665 0.2243	0.2546	Ave		0.2562			0.0500	7.5		20.0			
Bromomethane	0.4426 0.1735	0.3008 0.1715	0.2461 0.1715	0.2081 0.1626	0.1830	Lin1	0.1468	0.1651			0.0100				0.9990		0.9900
Chloroethane	0.1492 0.1762	0.1503 0.1701	0.1738 0.1685	0.2057 0.1521	0.1670	Ave		0.1681			0.0833	10.4		20.0			
Ethanol	+++++ 0.0028	+++++ 0.0026	+++++ 0.0025	0.0025 0.0027	0.0026	Ave		0.0026			0.0023	4.4		20.0			
Trichlorofluoromethane (Freon 11)	+++++ 0.5656	0.5956 0.5785	0.5676 0.5793	0.6038 0.5478	0.5680	Ave		0.5758			0.0500	3.1		20.0			
Acetone	+++++ 0.1746	+++++ 0.1979	+++++ 0.1586	0.2235 0.1388	0.2020	Ave		0.1826			0.0870	17.0		20.0			
Ethyl ether	0.2232 0.2323	0.2213 0.2410	0.2437 0.2406	0.2376 0.2297	0.2122	Ave		0.2313			0.0500	4.6		20.0			
1,1-Dichloroethene	0.2406 0.2666	0.2586 0.2803	0.2524 0.2734	0.2712 0.2649	0.2490	Ave		0.2619			0.0500	4.9		20.0			
Iodomethane	0.1995 0.1271	0.1697 0.1479	0.1393 0.1577	0.1257 0.1661	0.1239	Qua1	0.0290	0.1280	0.0004003		0.0500				0.9980		0.9900
tert-Butanol	+++++ 0.0231	0.0220 0.0234	0.0285 0.0231	0.0231 0.0236	0.0193	Ave		0.0233			0.0080	10.9		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 Rhode Island Job No.: 620-28495-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

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 9	LVL 5		B	M1	M2								
Acrylonitrile	0.0821 0.1186	0.0971 0.1227	0.1330 0.1213	0.1195 0.1135	0.1100	Ave		0.1131			0.0430	13.5		20.0			
Methylene Chloride	+++++ 0.3421	0.5397 0.3468	0.4674 0.3382	0.3669 0.3198	0.3429	Lin1	0.2371	0.3265			0.0500				0.9990		0.9900
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.3626 0.3274	0.3398 0.3376	0.3170 0.3327	0.3084 0.3114	0.2915	Ave		0.3254			0.0500	6.4		20.0			
Methyl acetate	+++++ 0.2226	0.3078 0.2195	0.2937 0.2176	0.2332 0.2152	0.1997	Ave		0.2387			0.0500	16.6		20.0			
Carbon disulfide	1.0697 0.9353	1.0053 0.9611	0.9428 0.9430	0.9609 0.8911	0.9206	Ave		0.9589			0.0500	5.4		20.0			
trans-1,2-Dichloroethene	0.2716 0.2745	0.2760 0.2893	0.2662 0.2856	0.2888 0.2703	0.2670	Ave		0.2766			0.0500	3.3		20.0			
Methyl tert-butyl ether	0.6385 0.7271	0.6440 0.7728	0.7237 0.7696	0.7091 0.7479	0.6690	Ave		0.7113			0.0500	7.1		20.0			
1,1-Dichloroethane	0.5401 0.5461	0.5352 0.5715	0.5692 0.5578	0.5698 0.5232	0.5370	Ave		0.5500			0.0500	3.2		20.0			
2-Butanone (MEK)	+++++ 0.1016	0.0265 0.1464	0.0516 +++++	0.0888 +++++	0.1079	Qua1	-0.057	0.0854	0.0015143	*	0.0950				0.9960		0.9900
di-Isopropyl ether	0.6190 0.7797	0.6480 0.8247	0.7361 0.8078	0.7350 0.7557	0.7194	Ave		0.7361			0.0500	9.2		20.0			
cis-1,2-Dichloroethene	0.2735 0.3156	0.3021 0.3206	0.3234 0.3211	0.3250 0.3044	0.3099	Ave		0.3106			0.0500	5.2		20.0			
Bromochloromethane	0.1302 0.1537	0.1470 0.1562	0.1606 0.1528	0.1586 0.1459	0.1489	Ave		0.1504			0.0500	6.0		20.0			
Chloroform	1.8727 0.6974	1.2550 0.6982	1.0344 0.6834	0.8323 0.6445	0.7103	Lin1	0.6430	0.6575			0.0500				0.9990		0.9900
2,2-Dichloropropane	0.3246 0.3178	0.3211 0.3234	0.3159 0.3224	0.3219 0.3003	0.3125	Ave		0.3178			0.0500	2.4		20.0			
Ethyl tert-butyl ether	0.6233 0.7607	0.6205 0.8022	0.7335 0.7963	0.7267 0.7813	0.6988	Ave		0.7270			0.0500	9.4		20.0			
Tetrahydrofuran	+++++ 0.0729	0.0570 0.0765	0.0621 0.0761	0.0651 0.0782	0.0607	Ave		0.0686			0.0290	12.1		20.0			
1,2-Dichloroethane	0.5654 0.5030	0.5571 0.5044	0.5576 0.4914	0.5489 0.4691	0.4913	Ave		0.5209			0.0500	6.9		20.0			
1,1,1-Trichloroethane	0.3933 0.3896	0.4085 0.4095	0.3961 0.4061	0.3985 0.4023	0.3726	Ave		0.3974			0.0500	2.9		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 Rhode Island Job No.: 620-28495-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

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 9	LVL 5		B	M1	M2								
1,1-Dichloropropene	0.3164 0.3798	0.3295 0.4055	0.3361 0.4071	0.3658 0.3926	0.3563	Ave		0.3655			0.0500	9.1		20.0			
Cyclohexane	0.3526 0.4629	0.3446 0.4933	0.3531 0.4905	0.4249 0.4713	0.4429	Ave		0.4262			0.0500	14.3		20.0			
Carbon tetrachloride	0.1109 0.1238	0.1030 0.1291	0.1058 0.1365	0.1165 0.1362	0.1118	Ave		0.1193			0.0500	10.6		20.0			
Benzene	1.3758 1.1696	1.2346 1.1985	1.2553 1.1794	1.1892 1.1132	1.1315	Ave		1.2052			0.0500	6.5		20.0			
Tert-amyl methyl ether	2.1299 0.6639	1.3605 0.6961	1.0790 0.6781	0.7953 0.6760	0.6689	Lin1	0.7124	0.6629			0.0500				0.9990		0.9900
Dibromomethane	0.2050 0.2132	0.2099 0.2173	0.2433 0.2146	0.2260 0.2078	0.2069	Ave		0.2160			0.1100	5.6		20.0			
1,2-Dichloropropane	0.2555 0.2748	0.2464 0.2859	0.2804 0.2842	0.2750 0.2749	0.2609	Ave		0.2709			0.0500	5.0		20.0			
Trichloroethene	0.3001 0.3274	0.3175 0.3397	0.3168 0.3339	0.3300 0.3250	0.3023	Ave		0.3214			0.0500	4.2		20.0			
Bromodichloromethane	0.6788 0.4344	0.5220 0.4336	0.5501 0.4333	0.4796 0.4186	0.4285	Lin1	0.1439	0.4241			0.0500				0.9990		0.9900
1,4-Dioxane	+++++ 0.0028	+++++ 0.0029	0.0007 0.0028	0.0018 0.0033	0.0020	Lin1	-0.0666	0.0032			0.0010				0.9920		0.9900
Methylcyclohexane	0.3480 0.5014	0.3656 0.5417	0.3752 0.5407	0.4359 0.5248	0.4692	Ave		0.4558			0.0500	17.0		20.0			
cis-1,3-Dichloropropene	0.3096 0.4699	0.3412 0.5097	0.4369 0.5130	0.4403 0.5075	0.4249	Ave		0.4392			0.0500	16.6		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.2023	0.1217 0.2579	0.1884 0.2331	0.1866 0.2380	0.1753	Lin1	-0.1588	0.2380			0.0990				0.9940		0.9900
trans-1,3-Dichloropropene	0.3811 0.4397	0.3424 0.4840	0.3843 0.4838	0.4104 0.4834	0.3926	Ave		0.4224			0.0500	12.5		20.0			
1,1,2-Trichloroethane	0.2205 0.2440	0.2348 0.2507	0.2818 0.2451	0.2639 0.2400	0.2300	Ave		0.2456			0.0500	7.5		20.0			
Toluene	0.7429 0.7132	0.7079 0.7334	0.7539 0.7178	0.7326 0.6939	0.6884	Ave		0.7205			0.0500	3.1		20.0			
1,3-Dichloropropane	0.4268 0.4871	0.4758 0.5031	0.5586 0.4899	0.5194 0.4647	0.4626	Ave		0.4875			0.0500	7.7		20.0			
Dibromochloromethane	0.4556 0.3470	0.3802 0.3546	0.4297 0.3534	0.3799 0.3519	0.3260	Ave		0.3754			0.0500	11.2		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 Rhode Island Job No.: 620-28495-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

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 9	LVL 5		B	M1	M2								
2-Hexanone (MBK)	+++++ 0.1754	0.0866 0.2574	0.1455 +++++	0.1278 +++++	0.1802	Qua1	-0.021	0.1269	0.0032182		0.0860				0.9960		0.9900
1,2-Dibromoethane (EDB)	0.2408 0.2985	0.2564 0.3075	0.3201 0.3066	0.3005 0.3043	0.2791	Ave		0.2904			0.0500	9.1		20.0			
Tetrachloroethene	0.3384 0.3354	0.3210 0.3523	0.3374 0.3502	0.3413 0.3402	0.3249	Ave		0.3379			0.0500	3.0		20.0			
1,1,1,2-Tetrachloroethane	0.4079 0.4284	0.4388 0.4375	0.5137 0.4258	0.4615 0.3874	0.4061	Ave		0.4341			0.0500	8.5		20.0			
Chlorobenzene	1.1669 1.0580	1.1622 1.0503	1.2579 1.0179	1.1820 0.9170	1.0337	Ave		1.0940			0.0500	9.6		20.0			
Ethylbenzene	1.5325 1.8851	1.4826 1.9524	1.7403 1.8864	1.8321 1.7132	1.7454	Ave		1.7522			0.0500	9.1		20.0			
Bromoform	0.3445 0.3537	0.3428 0.3598	0.4162 0.3544	0.3779 0.3306	0.3221	Ave		0.3558			0.0500	7.8		20.0			
m,p-Xylene	0.9831 1.4545	0.9769 1.5025	1.2547 1.4460	1.3156 1.3198	1.2903	Ave		1.2826			0.0500	14.9		20.0			
Styrene	0.7078 1.0139	0.6628 1.0769	0.8481 1.0512	0.9356 0.9701	0.9174	Ave		0.9093			0.0500	16.0		20.0			
1,1,2,2-Tetrachloroethane	0.5244 0.5841	0.5852 0.5555	0.7705 0.5310	0.6669 0.4766	0.5563	Qua1	0.0254	0.6057	-0.001315		0.0500				0.9980		0.9900
o-Xylene	1.0965 1.5985	1.1958 1.5935	1.5481 1.5244	1.6619 1.3770	1.5336	Ave		1.4588			0.0500	13.4		20.0			
1,2,3-Trichloropropane	0.4184 0.4720	0.4784 0.4655	0.5815 0.4496	0.5332 0.4053	0.4404	Ave		0.4716			0.0500	11.8		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.0929	+++++ 0.1001	0.0893 0.0993	0.0880 0.0996	0.0826	Ave		0.0931			0.0910	7.3		20.0			
Isopropylbenzene	2.0174 1.8954	1.9178 1.9154	2.0868 1.8497	2.0125 1.6903	1.8501	Ave		1.9151			0.0500	6.1		20.0			
Bromobenzene	0.4833 0.4980	0.5025 0.5070	0.5842 0.4898	0.5532 0.4400	0.4841	Ave		0.5047			0.0500	8.3		20.0			
N-Propylbenzene	+++++ 2.4183	1.4697 2.4670	1.8846 2.4062	2.2584 2.4019	2.1825	Lin1	-1.026	2.4303			0.0500				1.0000		0.9900
2-Chlorotoluene	0.3398 0.4327	0.3659 0.4380	0.4755 0.4249	0.4744 0.3782	0.4244	Ave		0.4171			0.0500	11.2		20.0			
4-Chlorotoluene	1.2299 1.5114	1.1769 1.5009	1.6662 1.4538	1.6117 1.2881	1.4516	Ave		1.4323			0.0500	11.7		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 Rhode Island Job No.: 620-28495-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

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 9	LVL 5		B	M1	M2								
1,3,5-Trimethylbenzene	1.0801 1.5936	1.1349 1.6430	1.4077 1.5940	1.5534 1.4587	1.4910	Ave		1.4396			0.0500	14.1		20.0			
tert-Butylbenzene	0.6467 0.9532	0.6884 0.9982	0.8325 0.9944	0.9301 0.9789	0.8891	Ave		0.8790			0.0500	15.0		20.0			
1,2,4-Trimethylbenzene	1.0343 1.6004	1.1273 1.6309	1.4653 1.6033	1.6086 1.4480	1.5150	Ave		1.4481			0.0500	15.2		20.0			
1,3-Dichlorobenzene	0.8650 0.9299	0.8863 0.9348	1.1459 0.9044	1.0602 0.8178	0.9218	Ave		0.9407			0.0500	10.8		20.0			
sec-Butylbenzene	1.4864 2.0168	1.6288 2.0312	1.9593 1.9932	2.1559 1.8092	1.9915	Ave		1.8969			0.0500	11.3		20.0			
1,4-Dichlorobenzene	1.7203 1.5966	1.7267 1.6395	2.0187 1.6221	1.7956 1.5696	1.5617	Ave		1.6945			0.0500	8.6		20.0			
4-Isopropyltoluene	2.0107 2.8522	2.0449 3.0277	2.4472 3.0376	2.7585 2.9706	2.6469	Ave		2.6440			0.0500	15.0		20.0			
1,2-Dichlorobenzene	1.2873 1.4358	1.3427 1.4966	1.6951 1.4792	1.5765 1.4548	1.3687	Ave		1.4596			0.0500	8.5		20.0			
n-Butylbenzene	1.7509 2.6300	1.8515 2.7752	2.1773 2.7791	2.4462 2.6899	2.4309	Ave		2.3923			0.0500	16.2		20.0			
1,2-Dibromo-3-Chloropropane	0.1849 0.2130	0.1944 0.2152	0.2543 0.2087	0.2252 0.2115	0.1917	Ave		0.2110			0.0630	9.8		20.0			
1,3,5-Trichlorobenzene	0.8862 1.0291	0.9275 1.1200	1.1182 1.0936	1.0866 1.0937	0.9685	Ave		1.0359			0.0500	8.5		20.0			
1,2,4-Trichlorobenzene	0.3832 0.5030	0.3848 0.5258	0.5136 0.5135	0.5086 0.4712	0.4471	Ave		0.4723			0.0500	11.8		20.0			
Naphthalene	+++++ 1.9239	1.1657 2.1473	1.5733 2.1046	1.6517 2.1277	1.5739	Lin1	-1.383	2.1129			0.0500				0.9970		0.9900
Hexachlorobutadiene	0.6550 0.4779	0.5209 0.4996	0.5464 0.4895	0.5200 0.4715	0.4743	Ave		0.5172			0.0500	11.1		20.0			
1,2,3-Trichlorobenzene	0.5951 0.7473	0.5718 0.7987	0.7860 0.7851	0.7646 0.7571	0.6773	Ave		0.7203			0.0500	11.8		20.0			
Dibromofluoromethane (Surr)	0.3158 0.3175	0.3164 0.3146	0.3174 0.3136	0.3168 0.3103	0.3165	Ave		0.3154			0.0500	0.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.4197 0.4098	0.4211 0.4046	0.4233 0.3956	0.4268 0.3905	0.4250	Ave		0.4129			0.0500	3.3		20.0			
Toluene-d8 (Surr)	0.9422 0.9639	0.9430 0.9549	0.9475 0.9639	0.9511 0.9621	0.9580	Ave		0.9541			0.0500	0.9		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 Rhode Island Job No.: 620-28495-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

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 9	LVL 5		B	M1	M2								
4-Bromofluorobenzene (Surr)	0.5524 0.5524	0.5512 0.5446	0.5576 0.5301	0.5656 0.4919	0.5518	Ave		0.5442			0.0500	4.0		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 Rhode Island | Job No.: 620-28495-1 | Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 | GC Column: DB-VRX | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 | Calibration End Date: 08/07/2025 11:53 | Calibration ID: 10515

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-51723/3	V4-080725-03.D
Level 2	IC 620-51723/4	V4-080725-04.D
Level 3	IC 620-51723/5	V4-080725-05.D
Level 4	IC 620-51723/6	V4-080725-06.D
Level 5	IC 620-51723/7	V4-080725-07.D
Level 6	ICIS 620-51723/8	V4-080725-08.D
Level 7	IC 620-51723/9	V4-080725-09.D
Level 8	IC 620-51723/10	V4-080725-10.D
Level 9	IC 620-51723/11	V4-080725-11.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 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane (Freon 12)	FB	Ave	1722 55421	3167 115008	5804 146462	14038 287138	27638	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Chloromethane	FB	Ave	+++++ 44170	3096 88973	5062 113668	12270 218410	21956	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Vinyl chloride	FB	Ave	1093 34839	1885 72792	3522 90372	9594 171816	17692	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Bromomethane	FB	Lin1	1628 24058	2189 48395	3502 62568	7492 124609	12716	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Chloroethane	FB	Ave	549 24428	1094 47977	2474 61477	7407 116505	11607	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Ethanol	FB	Ave	+++++ 7781	+++++ 14686	+++++ 18029	1833 40673	3576	+++++ 400	+++++ 800	+++++ 1000	100 2000	200
Trichlorofluoromethane (Freon 11)	FB	Ave	+++++ 78416	4335 163218	8078 211318	21740 419709	39464	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Acetone	FB	Ave	+++++ 24212	+++++ 55828	+++++ 57847	8048 106353	14033	+++++ 20.0	+++++ 40.0	+++++ 50.0	5.00 100	10.0
Ethyl ether	FB	Ave	821 32209	1611 68004	3468 87768	8556 175971	14742	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1-Dichloroethene	FB	Ave	885 36964	1882 79072	3592 99712	9765 202923	17301	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Iodomethane	FB	Qua1	734 17622	1235 41713	1982 57532	4525 127263	8612	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
tert-Butanol	FB	Ave	+++++ 32059	1604 65963	4053 84422	8321 180824	13402	+++++ 200	10.0 400	20.0 500	50.0 1000	100
Acrylonitrile	FB	Ave	302 16438	707 34619	1893 44242	4304 86988	7646	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Methylene Chloride	FB	Lin1	+++++ 47430	3928 97831	6652 123378	13209 245020	23828	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	IS REF	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
1,1,2-Trichlorotrifluoroethane (Freon 113)	FB	Ave	1334 45398	2473 95257	4512 121342	11105 238600	20257	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Methyl acetate	FB	Ave	+++++ 30866	2240 61919	4180 79364	8397 164901	13876	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Carbon disulfide	FB	Ave	3935 129684	7317 271145	13417 343980	34598 682672	63969	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
trans-1,2-Dichloroethene	FB	Ave	999 38054	2009 81612	3789 104178	10398 207064	18551	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Methyl tert-butyl ether	FB	Ave	2349 100811	4687 218019	10299 280719	25533 572990	46486	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1-Dichloroethane	FB	Ave	1987 75715	3895 161240	8100 203468	20517 400809	37313	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
2-Butanone (MEK)	FB	Qua1	+++++ 14090	193 41307	734 +++++	3196 +++++	7497	+++++ 20.0	1.00 40.0	2.00 +++++	5.00 +++++	10.0
di-Isopropyl ether	FB	Ave	2277 108113	4716 232679	10475 294673	26463 578974	49983	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
cis-1,2-Dichloroethene	FB	Ave	1006 43758	2199 90450	4602 117118	11703 233214	21535	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Bromochloromethane	FB	Ave	479 21310	1070 44065	2285 55748	5709 111751	10349	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Chloroform	FB	Lin1	6889 96694	9134 196980	14721 249276	29969 493806	49355	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
2,2-Dichloropropane	FB	Ave	1194 44064	2337 91237	4496 117589	11589 230068	21713	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Ethyl tert-butyl ether	FB	Ave	2293 105467	4516 226329	10439 290479	26167 598620	48554	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Tetrahydrofuran	FB	Ave	+++++ 10112	415 21586	884 27741	2344 59879	4219	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2-Dichloroethane	FB	Ave	2080 69746	4055 142294	7936 179259	19765 359431	34136	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1,1-Trichloroethane	FB	Ave	1447 54020	2973 115536	5637 148117	14347 308211	25892	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1-Dichloropropene	FB	Ave	1164 52660	2398 114415	4783 148498	13171 300771	24760	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Cyclohexane	FB	Ave	1297 64178	2508 139162	5025 178923	15298 361118	30775	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Carbon tetrachloride	FB	Ave	408 17169	750 36420	1506 49788	4195 104355	7768	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Benzene	FB	Ave	5061 162166	8986 338127	17865 430215	42818 852847	78623	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	IS REF	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
Tert-amyl methyl ether	FB	Lin1	7835 92050	9902 196394	15356 247359	28635 517910	46478	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Dibromomethane	FB	Ave	754 29559	1528 61298	3463 78280	8139 159180	14373	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2-Dichloropropane	FB	Ave	940 38095	1793 80672	3990 103662	9903 210613	18130	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Trichloroethene	FB	Ave	1104 45388	2311 95826	4509 121792	11882 249016	21004	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Bromodichloromethane	FB	Lin1	2497 60232	3799 122322	7829 158045	17269 320690	29774	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,4-Dioxane	FB	Lin1	+++++ 3824	+++++ 8136	97 10060	632 25442	1360	+++++ 200	+++++ 400	20.0 500	50.0 1000	100
Methylcyclohexane	FB	Ave	1280 69524	2661 152844	5340 197240	15695 402075	32604	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
cis-1,3-Dichloropropene	FB	Ave	1139 65146	2483 143815	6217 187127	15855 388826	29521	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
4-Methyl-2-pentanone (MIBK)	FB	Lin1	+++++ 28050	886 72770	2681 85029	6719 182328	12180	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
trans-1,3-Dichloropropene	FB	Ave	1402 60970	2492 136554	5469 176473	14776 370363	27282	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1,2-Trichloroethane	FB	Ave	811 33833	1709 70731	4010 89422	9502 183905	15981	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Toluene	FB	Ave	2733 98890	5152 206927	10729 261829	26379 531639	47831	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,3-Dichloropropane	FB	Ave	1570 67544	3463 141946	7949 178690	18700 356001	32142	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Dibromochloromethane	FB	Ave	1676 48111	2767 100050	6115 128893	13679 269634	22651	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
2-Hexanone (MBK)	FB	Qua1	+++++ 24319	630 72627	2071 +++++	4600 +++++	12524	+++++ 20.0	1.00 40.0	2.00 +++++	5.00 +++++	10.0
1,2-Dibromoethane (EDB)	FB	Ave	886 41389	1866 86767	4555 111821	10821 233173	19392	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Tetrachloroethene	FB	Ave	1245 46503	2336 99387	4801 127744	12288 260607	22578	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	1043 42796	2203 91953	5135 117765	11695 242330	20217	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Chlorobenzene	CBNZd5	Ave	2984 105683	5835 220779	12574 281544	29952 573634	51456	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Ethylbenzene	CBNZd5	Ave	3919	7444	17395	46425	86882	0.500	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 Rhode Island | Job No.: 620-28495-1 | Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 | GC Column: DB-VRX | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 | Calibration End Date: 08/07/2025 11:53 | Calibration ID: 10515

ANALYTE	IS REF	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
			188310	410395	521769	1071711		20.0	40.0	50.0	100	
Bromoform	CBNZd5	Ave	881 35335	1721 75631	4160 98015	9575 206803	16036	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
m,p-Xylene	CBNZd5	Ave	2514 145297	4905 315813	12542 399941	33338 825633	64229	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Styrene	CBNZd5	Ave	1810 101280	3328 226353	8477 290765	23708 606856	45667	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1,2,2-Tetrachloroethane	CBNZd5	Qua1	1341 58344	2938 116765	7702 146869	16898 298157	27691	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
o-Xylene	CBNZd5	Ave	2804 159677	6004 334951	15474 421652	42113 861399	76339	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2,3-Trichloropropane	CBNZd5	Ave	1070 47152	2402 97836	5812 124364	13510 253571	21924	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
trans-1,4-Dichloro-2-butene	FB	Ave	+++++ 12877	+++++ 28235	1271 36204	3169 76278	5739	+++++ 20.0	+++++ 40.0	2.00 50.0	5.00 100	10.0
Isopropylbenzene	CBNZd5	Ave	5159 189338	9629 402616	20859 511604	50997 1057415	92096	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Bromobenzene	CBNZd5	Ave	1236 49748	2523 106574	5839 135480	14017 275279	24097	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
N-Propylbenzene	CBNZd5	Lin1	+++++ 241574	7379 518551	18838 665539	57227 1502581	108643	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
2-Chlorotoluene	CBNZd5	Ave	869 43226	1837 92062	4753 117520	12021 236612	21125	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
4-Chlorotoluene	CBNZd5	Ave	3145 150975	5909 315491	16655 402116	40839 805828	72259	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,3,5-Trimethylbenzene	CBNZd5	Ave	2762 159189	5698 345351	14071 440898	39363 912504	74219	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
tert-Butylbenzene	FB	Ave	2379 132159	5010 281627	11847 362726	33488 749984	61780	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2,4-Trimethylbenzene	CBNZd5	Ave	2645	5660	14647	40761	75416	0.500	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 Rhode Island Job No.: 620-28495-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	IS REF	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
			159867	342801	443474	905845		20.0	40.0	50.0	100	
1,3-Dichlorobenzene	CBNZd5	Ave	2212 92892	4450 196500	11454 250142	26865 511570	45886	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
sec-Butylbenzene	CBNZd5	Ave	3801 201464	8178 426944	19584 551301	54631 1131764	99132	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,4-Dichlorobenzene	DCBd4	Ave	2642 94021	5257 194972	12130 247889	27697 502548	46455	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
4-Isopropyltoluene	DCBd4	Ave	3088 167958	6226 360069	14705 464200	42549 951130	78734	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2-Dichlorobenzene	DCBd4	Ave	1977 84550	4088 177978	10186 226043	24317 465807	40714	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
n-Butylbenzene	DCBd4	Ave	2689 154874	5637 330041	13083 424690	37732 861244	72309	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	284 12540	592 25594	1528 31893	3474 67704	5703	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,3,5-Trichlorobenzene	DCBd4	Ave	1361 60600	2824 133195	6719 167125	16761 350189	28810	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2,4-Trichlorobenzene	CBNZd5	Ave	980 50247	1932 110526	5134 142022	12889 294792	22256	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Naphthalene	DCBd4	Lin1	+++++ 113290	3549 255364	9454 321617	25477 681241	46818	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Hexachlorobutadiene	DCBd4	Ave	1006 28140	1586 59411	3283 74797	8021 150971	14107	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2,3-Trichlorobenzene	DCBd4	Ave	914 44007	1741 94981	4723 119972	11794 242398	20148	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Dibromofluoromethane (Surr)	FB	Ave	116190 110065	115145 110947	112912 114402	114054 118877	109958	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	154397 142055	153261 142678	150604 144315	153663 149581	147660	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
Toluene-d8 (Surr)	FB	Ave	346591 334108	343174 336756	337106 351588	342456 368558	332821	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
4-Bromofluorobenzene (Surr)	CBNZd5	Ave	141259 137962	138374 143089	139351 146624	143316 153852	137343	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua1 = Quadratic 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-51723/3	V4-080725-03.D
Level 2	IC 620-51723/4	V4-080725-04.D
Level 3	IC 620-51723/5	V4-080725-05.D
Level 4	IC 620-51723/6	V4-080725-06.D
Level 5	IC 620-51723/7	V4-080725-07.D
Level 6	ICIS 620-51723/8	V4-080725-08.D
Level 7	IC 620-51723/9	V4-080725-09.D
Level 8	IC 620-51723/10	V4-080725-10.D
Level 9	IC 620-51723/11	V4-080725-11.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane (Freon 12)	14.4						30					
Chloromethane	+++++	27.5						30				
Vinyl chloride	16.0						30					
Bromomethane	-9.8						30					
Chloroethane	-11.2						30					
Ethanol	+++++	+++++	+++++	-2.4						30		
Trichlorofluoromethane (Freon 11)	+++++	3.4						30				
Acetone	+++++	+++++	+++++	22.4						30		
Ethyl ether	-3.5						30					
1,1-Dichloroethene	-8.1						30					
Iodomethane	10.4						30					
tert-Butanol	+++++	-5.3						30				
Acrylonitrile	-27.4						30					
Methylene Chloride	+++++	-7.3						30				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
1,1,2-Trichlorotrifluoroethane (Freon 113)	11.4						30					
Methyl acetate	+++++	29.0						30				
Carbon disulfide	11.6						30					
trans-1,2-Dichloroethene	-1.8						30					
Methyl tert-butyl ether	-10.2						30					
1,1-Dichloroethane	-1.8						30					
2-Butanone (MEK)	+++++	-3.4 +++++	+++++					30				
di-Isopropyl ether	-15.9						30					
cis-1,2-Dichloroethene	-12.0						30					
Bromochloromethane	-13.4						30					
Chloroform	-10.8						30					
2,2-Dichloropropane	2.1						30					
Ethyl tert-butyl ether	-14.3						30					
Tetrahydrofuran	+++++	-16.9						30				
1,2-Dichloroethane	8.5						30					
1,1,1-Trichloroethane	-1.0						30					
1,1-Dichloropropene	-13.4						30					
Cyclohexane	-17.3						30					
Carbon tetrachloride	-7.0						30					
Benzene	14.1						30					
Tert-amyl methyl ether	6.4						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Dibromomethane	-5.1						30					
1,2-Dichloropropane	-5.7						30					
Trichloroethene	-6.6						30					
Bromodichloromethane	-7.8						30					
1,4-Dioxane	+++++	+++++	26.2						30			
Methylcyclohexane	-23.7						30					
cis-1,3-Dichloropropene	-29.5						30					
4-Methyl-2-pentanone (MIBK)	+++++	17.5						30				
trans-1,3-Dichloropropene	-9.8						30					
1,1,2-Trichloroethane	-10.3						30					
Toluene	3.1						30					
1,3-Dichloropropane	-12.5						30					
Dibromochloromethane	21.4						30					
2-Hexanone (MBK)	+++++	-17.0 +++++	+++++					30				
1,2-Dibromoethane (EDB)	-17.1						30					
Tetrachloroethene	0.2						30					
1,1,1,2-Tetrachloroethane	-6.0						30					
Chlorobenzene	6.7						30					
Ethylbenzene	-12.5						30					
Bromoform	-3.2						30					
m,p-Xylene	-23.4						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Styrene	-22.2						30					
1,1,2,2-Tetrachloroethane	-21.8						30					
o-Xylene	-24.8						30					
1,2,3-Trichloropropane	-11.3						30					
trans-1,4-Dichloro-2-butene	+++++	+++++	-4.1						30			
Isopropylbenzene	5.3						30					
Bromobenzene	-4.2						30					
N-Propylbenzene	+++++	2.7						30				
2-Chlorotoluene	-18.5						30					
4-Chlorotoluene	-14.1						30					
1,3,5-Trimethylbenzene	-25.0						30					
tert-Butylbenzene	-26.4						30					
1,2,4-Trimethylbenzene	-28.6						30					
1,3-Dichlorobenzene	-8.0						30					
sec-Butylbenzene	-21.6						30					
1,4-Dichlorobenzene	1.5						30					
4-Isopropyltoluene	-24.0						30					
1,2-Dichlorobenzene	-11.8						30					
n-Butylbenzene	-26.8						30					
1,2-Dibromo-3-Chloropropane	-12.4						30					
1,3,5-Trichlorobenzene	-14.5						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
1,2,4-Trichlorobenzene	-18.9						30					
Naphthalene	+++++	20.6						30				
Hexachlorobutadiene	26.6						30					
1,2,3-Trichlorobenzene	-17.4						30					
Dibromofluoromethane (Surr)	0.1						30					
1,2-Dichloroethane-d4 (Surr)	1.6						30					
Toluene-d8 (Surr)	-1.2						30					
4-Bromofluorobenzene (Surr)	1.5						30					

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

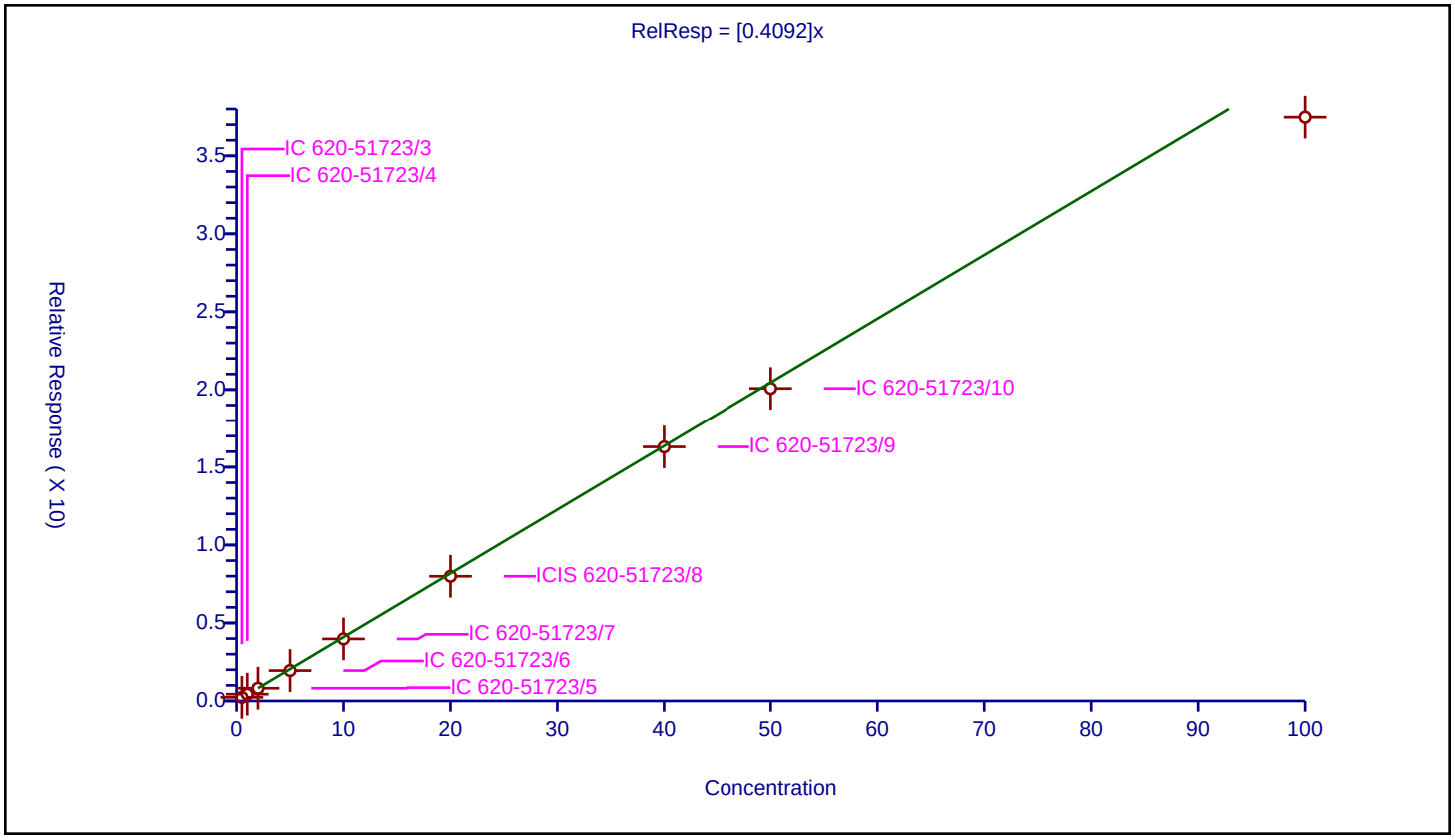
Curve Coefficients

Intercept:	0
Slope:	0.4092

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.234053	50.0	367866.0	0.468105	Y
2	IC 620-51723/4	1.0	0.435131	50.0	363913.0	0.435131	Y
3	IC 620-51723/5	2.0	0.815668	50.0	355782.0	0.407834	Y
4	IC 620-51723/6	5.0	1.94937	50.0	360065.0	0.389874	Y
5	IC 620-51723/7	10.0	3.977675	50.0	347414.0	0.397768	Y
6	ICIS 620-51723/8	20.0	7.994236	50.0	346631.0	0.399712	Y
7	IC 620-51723/9	40.0	16.305652	50.0	352663.0	0.407641	Y
8	IC 620-51723/10	50.0	20.076103	50.0	364767.0	0.401522	Y
9	IC 620-51723/11	100.0	37.478627	50.0	383069.0	0.374786	Y



8/20/2025
8:44:38 PM

Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

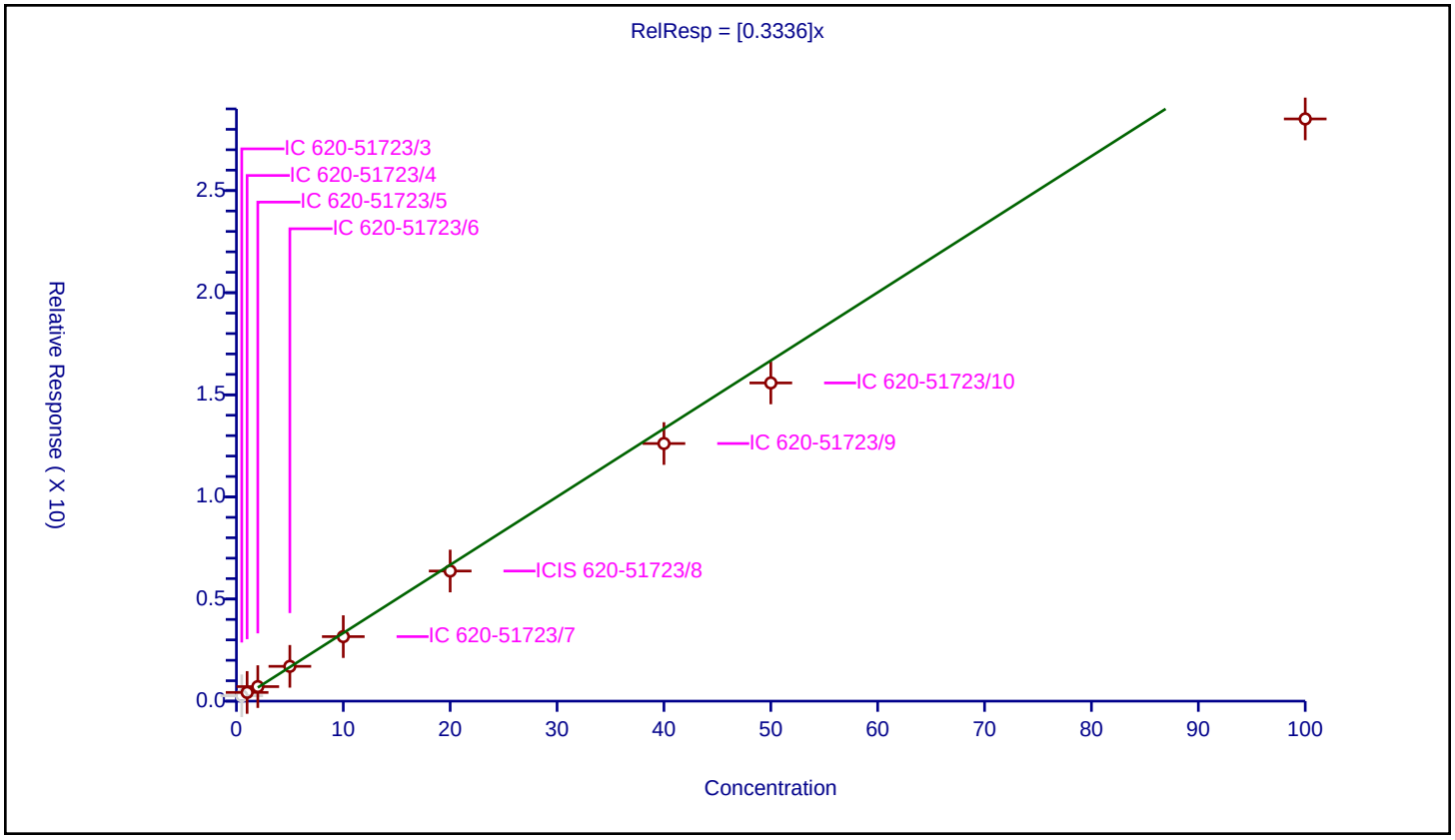
Curve Coefficients

Intercept:	0
Slope:	0.3336

Error Coefficients

Relative Standard Deviation:	12.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.263411	50.0	367866.0	0.526822	N
2	IC 620-51723/4	1.0	0.425376	50.0	363913.0	0.425376	Y
3	IC 620-51723/5	2.0	0.711391	50.0	355782.0	0.355695	Y
4	IC 620-51723/6	5.0	1.703859	50.0	360065.0	0.340772	Y
5	IC 620-51723/7	10.0	3.159919	50.0	347414.0	0.315992	Y
6	ICIS 620-51723/8	20.0	6.371329	50.0	346631.0	0.318566	Y
7	IC 620-51723/9	40.0	12.614451	50.0	352663.0	0.315361	Y
8	IC 620-51723/10	50.0	15.580905	50.0	364767.0	0.311618	Y
9	IC 620-51723/11	100.0	28.507919	50.0	383069.0	0.285079	Y



8/20/2025
8:44:38 PM

Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

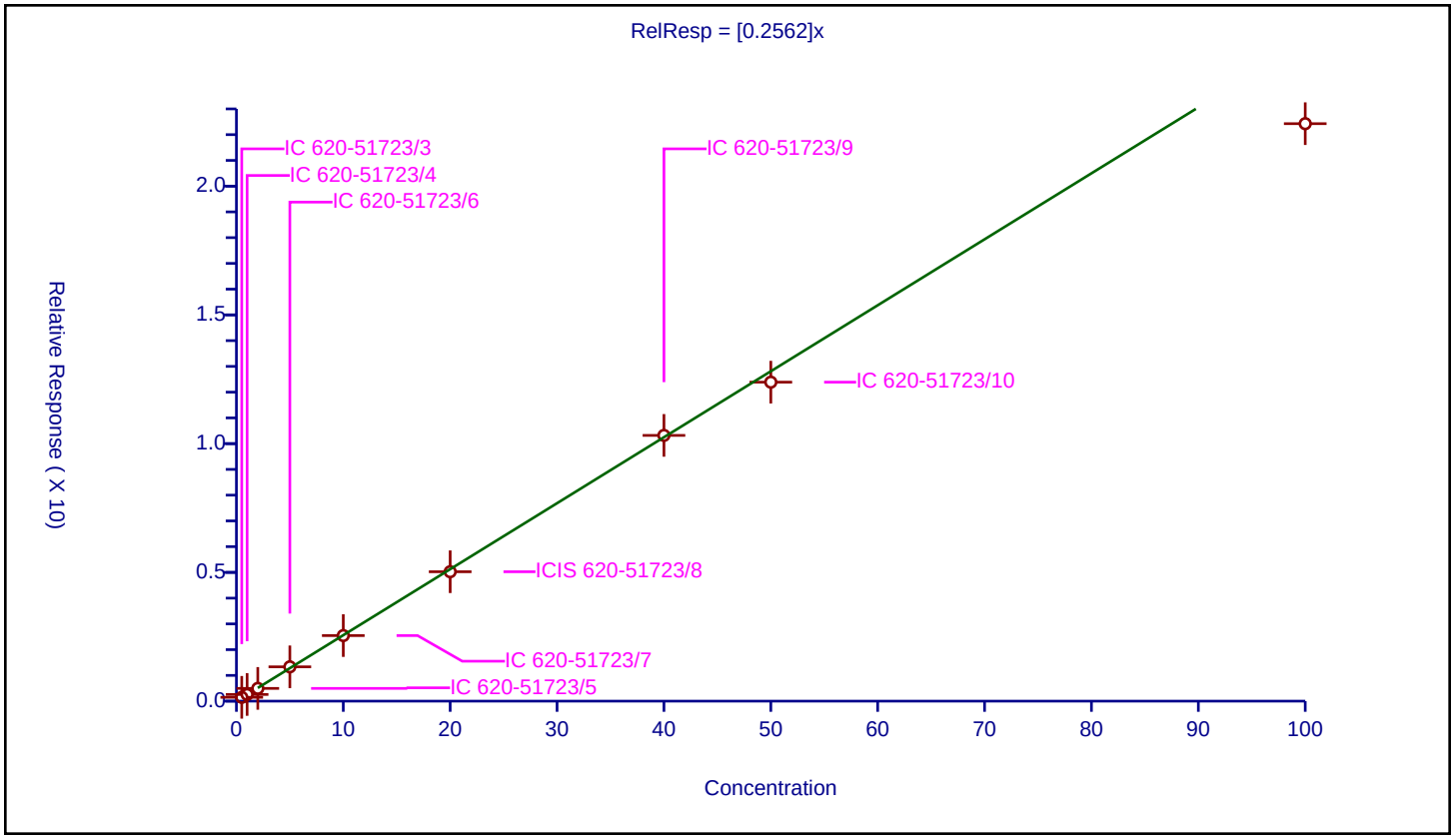
Curve Coefficients

Intercept:	0
Slope:	0.2562

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.14856	50.0	367866.0	0.297119	Y
2	IC 620-51723/4	1.0	0.25899	50.0	363913.0	0.25899	Y
3	IC 620-51723/5	2.0	0.494966	50.0	355782.0	0.247483	Y
4	IC 620-51723/6	5.0	1.332259	50.0	360065.0	0.266452	Y
5	IC 620-51723/7	10.0	2.546242	50.0	347414.0	0.254624	Y
6	ICIS 620-51723/8	20.0	5.025373	50.0	346631.0	0.251269	Y
7	IC 620-51723/9	40.0	10.320334	50.0	352663.0	0.258008	Y
8	IC 620-51723/10	50.0	12.387634	50.0	364767.0	0.247753	Y
9	IC 620-51723/11	100.0	22.426247	50.0	383069.0	0.224262	Y



8/20/2025
8:44:38 PM

Calibration / Bromomethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

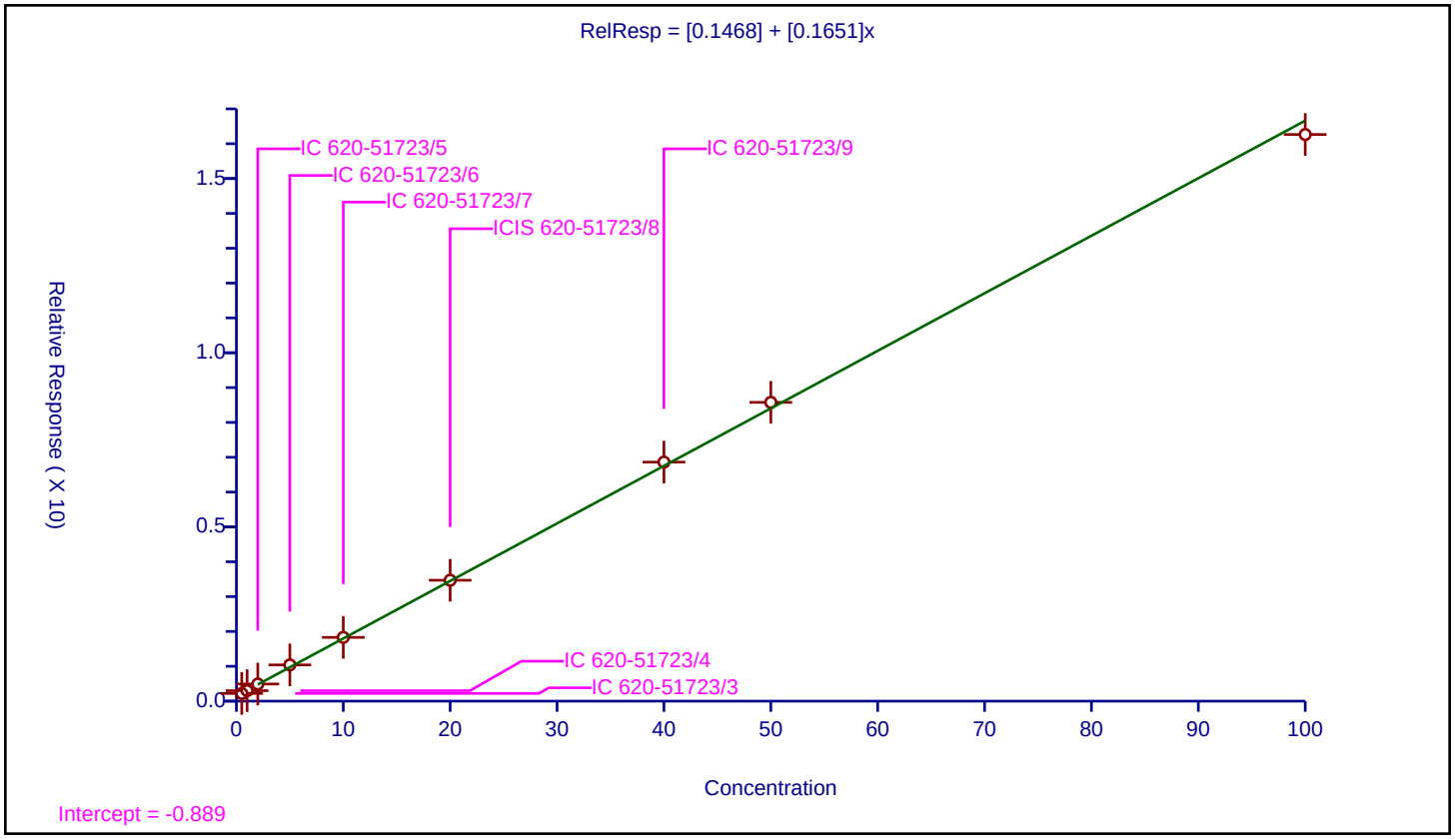
Curve Coefficients

Intercept:	0.1468
Slope:	0.1651

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.221276	50.0	367866.0	0.442552	Y
2	IC 620-51723/4	1.0	0.300759	50.0	363913.0	0.300759	Y
3	IC 620-51723/5	2.0	0.492155	50.0	355782.0	0.246078	Y
4	IC 620-51723/6	5.0	1.040368	50.0	360065.0	0.208074	Y
5	IC 620-51723/7	10.0	1.830093	50.0	347414.0	0.183009	Y
6	ICIS 620-51723/8	20.0	3.470261	50.0	346631.0	0.173513	Y
7	IC 620-51723/9	40.0	6.861366	50.0	352663.0	0.171534	Y
8	IC 620-51723/10	50.0	8.576434	50.0	364767.0	0.171529	Y
9	IC 620-51723/11	100.0	16.264563	50.0	383069.0	0.162646	Y



8/20/2025
8:44:38 PM

Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

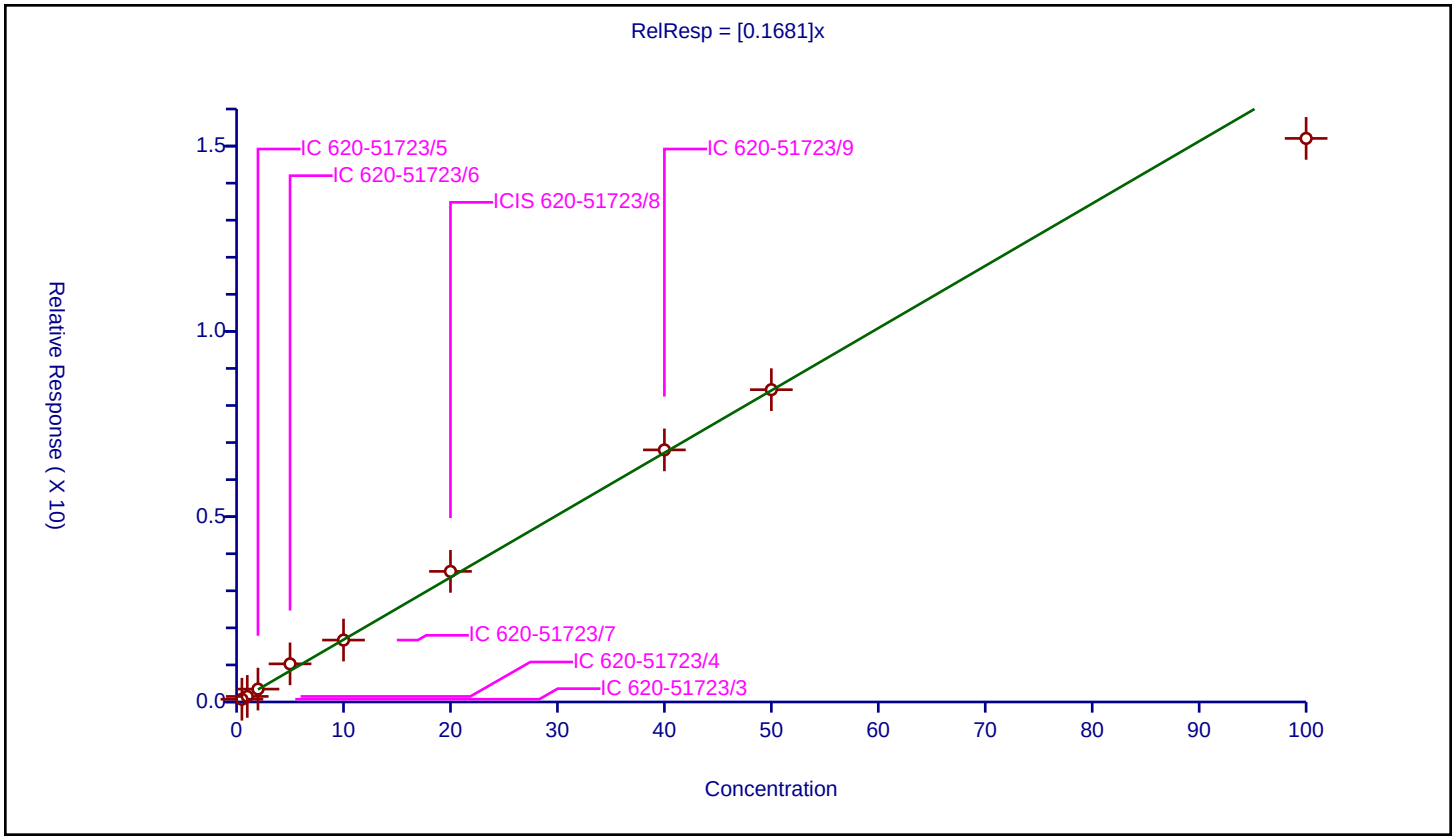
Curve Coefficients

Intercept:	0
Slope:	0.1681

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.07462	50.0	367866.0	0.149239	Y
2	IC 620-51723/4	1.0	0.150311	50.0	363913.0	0.150311	Y
3	IC 620-51723/5	2.0	0.347685	50.0	355782.0	0.173842	Y
4	IC 620-51723/6	5.0	1.028564	50.0	360065.0	0.205713	Y
5	IC 620-51723/7	10.0	1.670485	50.0	347414.0	0.167049	Y
6	ICIS 620-51723/8	20.0	3.523632	50.0	346631.0	0.176182	Y
7	IC 620-51723/9	40.0	6.802103	50.0	352663.0	0.170053	Y
8	IC 620-51723/10	50.0	8.426886	50.0	364767.0	0.168538	Y
9	IC 620-51723/11	100.0	15.20679	50.0	383069.0	0.152068	Y



Calibration / Ethanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

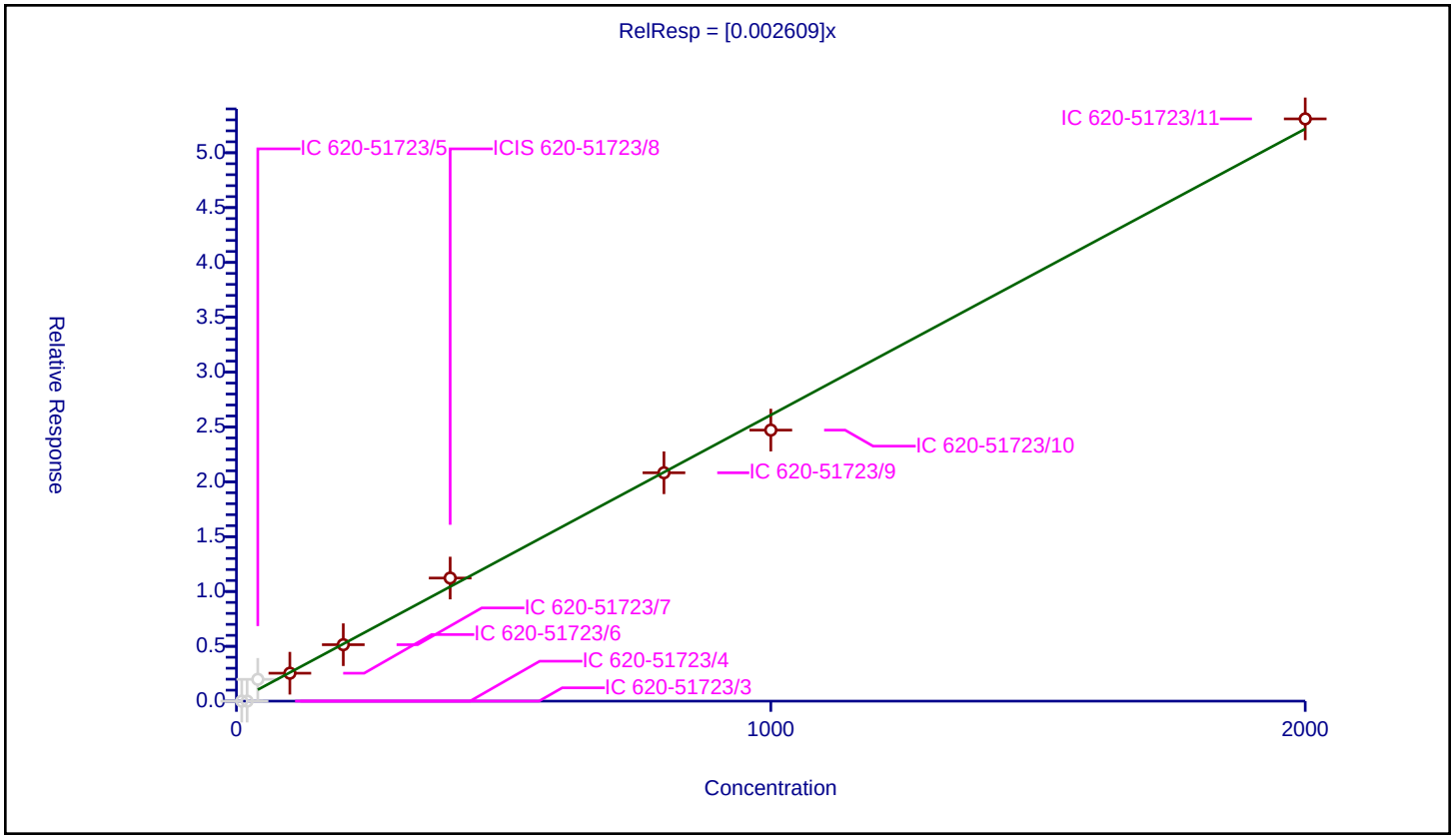
Curve Coefficients

Intercept:	0
Slope:	0.002609

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	10.0	0.0	50.0	367866.0	0.0	N
2	IC 620-51723/4	20.0	0.0	50.0	363913.0	0.0	N
3	IC 620-51723/5	40.0	0.198717	50.0	355782.0	0.004968	N
4	IC 620-51723/6	100.0	0.254537	50.0	360065.0	0.002545	Y
5	IC 620-51723/7	200.0	0.51466	50.0	347414.0	0.002573	Y
6	ICIS 620-51723/8	400.0	1.122375	50.0	346631.0	0.002806	Y
7	IC 620-51723/9	800.0	2.082158	50.0	352663.0	0.002603	Y
8	IC 620-51723/10	1000.0	2.471304	50.0	364767.0	0.002471	Y
9	IC 620-51723/11	2000.0	5.308835	50.0	383069.0	0.002654	Y



8/20/2025
8:44:38 PM

Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

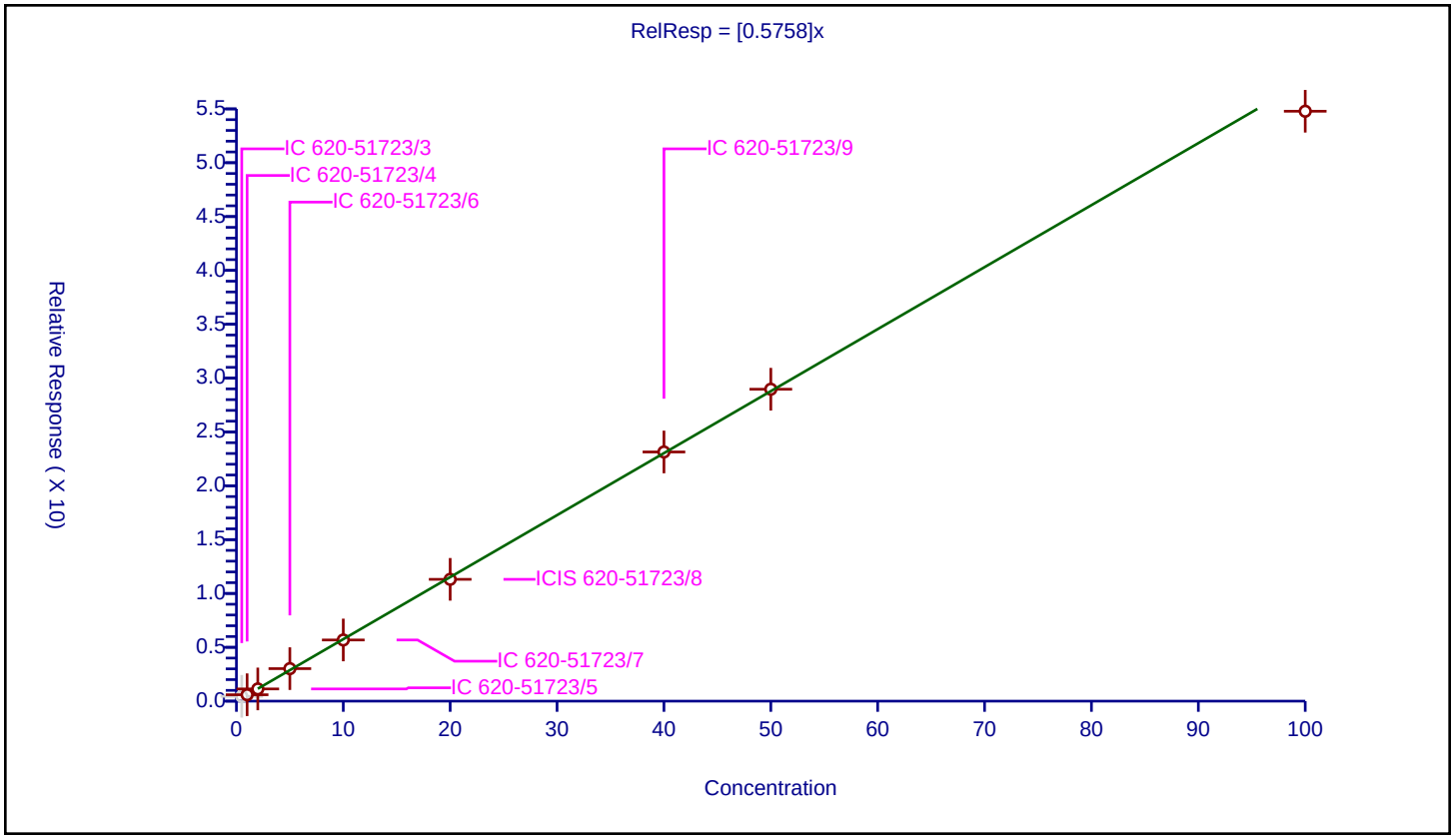
Curve Coefficients

Intercept:	0
Slope:	0.5758

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.448805	50.0	367866.0	0.897609	N
2	IC 620-51723/4	1.0	0.595609	50.0	363913.0	0.595609	Y
3	IC 620-51723/5	2.0	1.135246	50.0	355782.0	0.567623	Y
4	IC 620-51723/6	5.0	3.018899	50.0	360065.0	0.60378	Y
5	IC 620-51723/7	10.0	5.679679	50.0	347414.0	0.567968	Y
6	ICIS 620-51723/8	20.0	11.311164	50.0	346631.0	0.565558	Y
7	IC 620-51723/9	40.0	23.140789	50.0	352663.0	0.57852	Y
8	IC 620-51723/10	50.0	28.966162	50.0	364767.0	0.579323	Y
9	IC 620-51723/11	100.0	54.782428	50.0	383069.0	0.547824	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

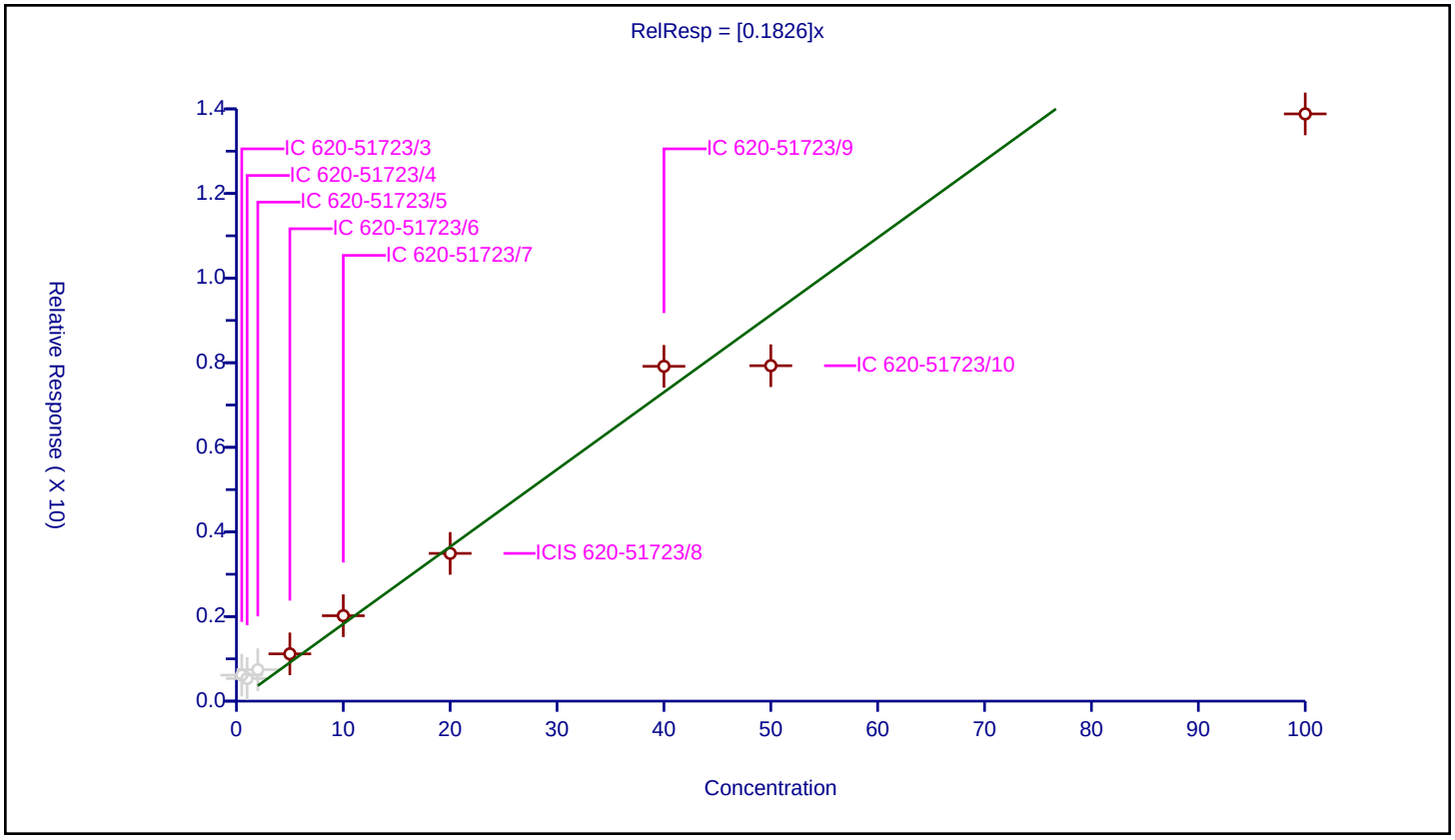
Curve Coefficients

Intercept:	0
Slope:	0.1826

Error Coefficients

Relative Standard Deviation:	17.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.615034	50.0	367866.0	1.230067	N
2	IC 620-51723/4	1.0	0.535018	50.0	363913.0	0.535018	N
3	IC 620-51723/5	2.0	0.744698	50.0	355782.0	0.372349	N
4	IC 620-51723/6	5.0	1.117576	50.0	360065.0	0.223515	Y
5	IC 620-51723/7	10.0	2.019637	50.0	347414.0	0.201964	Y
6	ICIS 620-51723/8	20.0	3.492475	50.0	346631.0	0.174624	Y
7	IC 620-51723/9	40.0	7.915205	50.0	352663.0	0.19788	Y
8	IC 620-51723/10	50.0	7.929308	50.0	364767.0	0.158586	Y
9	IC 620-51723/11	100.0	13.881703	50.0	383069.0	0.138817	Y



8/20/2025
8:44:38 PM

Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

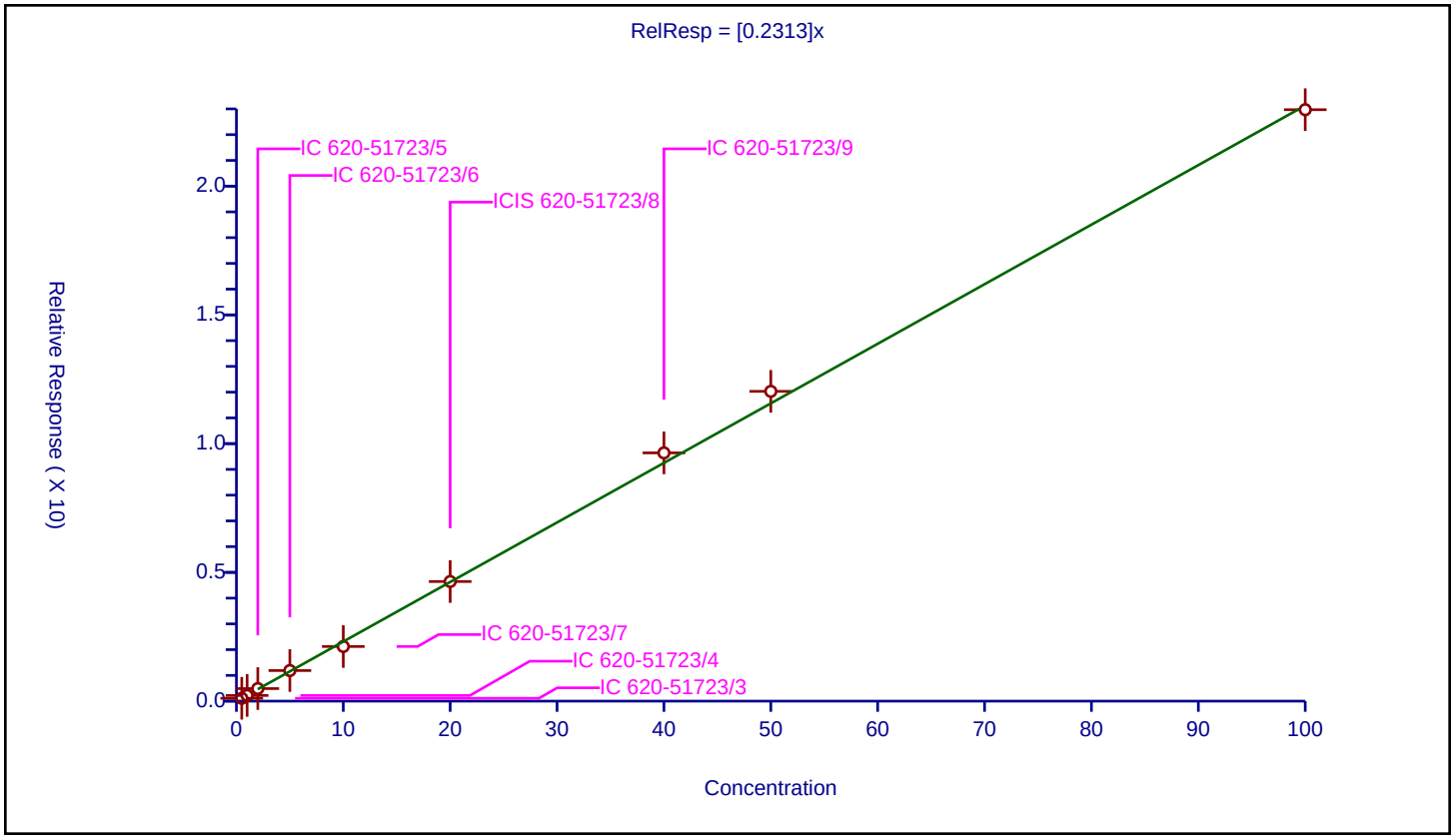
Curve Coefficients

Intercept:	0
Slope:	0.2313

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.11159	50.0	367866.0	0.223179	Y
2	IC 620-51723/4	1.0	0.221344	50.0	363913.0	0.221344	Y
3	IC 620-51723/5	2.0	0.487377	50.0	355782.0	0.243689	Y
4	IC 620-51723/6	5.0	1.188119	50.0	360065.0	0.237624	Y
5	IC 620-51723/7	10.0	2.121676	50.0	347414.0	0.212168	Y
6	ICIS 620-51723/8	20.0	4.646007	50.0	346631.0	0.2323	Y
7	IC 620-51723/9	40.0	9.641499	50.0	352663.0	0.241037	Y
8	IC 620-51723/10	50.0	12.030694	50.0	364767.0	0.240614	Y
9	IC 620-51723/11	100.0	22.968577	50.0	383069.0	0.229686	Y



8/20/2025
8:44:38 PM

Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

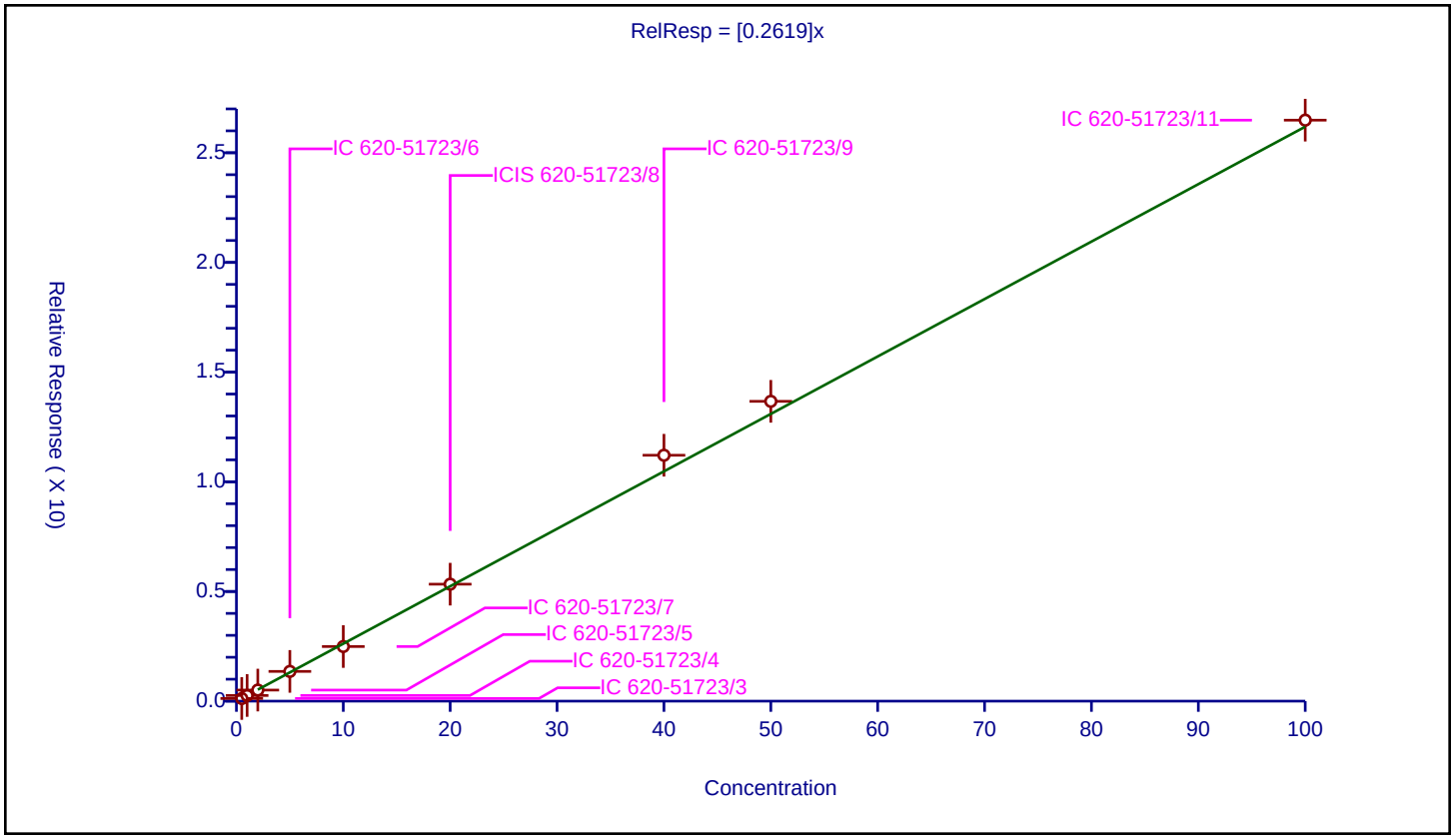
Curve Coefficients

Intercept:	0
Slope:	0.2619

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.120288	50.0	367866.0	0.240577	Y
2	IC 620-51723/4	1.0	0.258578	50.0	363913.0	0.258578	Y
3	IC 620-51723/5	2.0	0.504804	50.0	355782.0	0.252402	Y
4	IC 620-51723/6	5.0	1.356005	50.0	360065.0	0.271201	Y
5	IC 620-51723/7	10.0	2.489969	50.0	347414.0	0.248997	Y
6	ICIS 620-51723/8	20.0	5.331895	50.0	346631.0	0.266595	Y
7	IC 620-51723/9	40.0	11.210703	50.0	352663.0	0.280268	Y
8	IC 620-51723/10	50.0	13.667903	50.0	364767.0	0.273358	Y
9	IC 620-51723/11	100.0	26.486482	50.0	383069.0	0.264865	Y



8/20/2025
8:44:38 PM

Calibration / Iodomethane

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

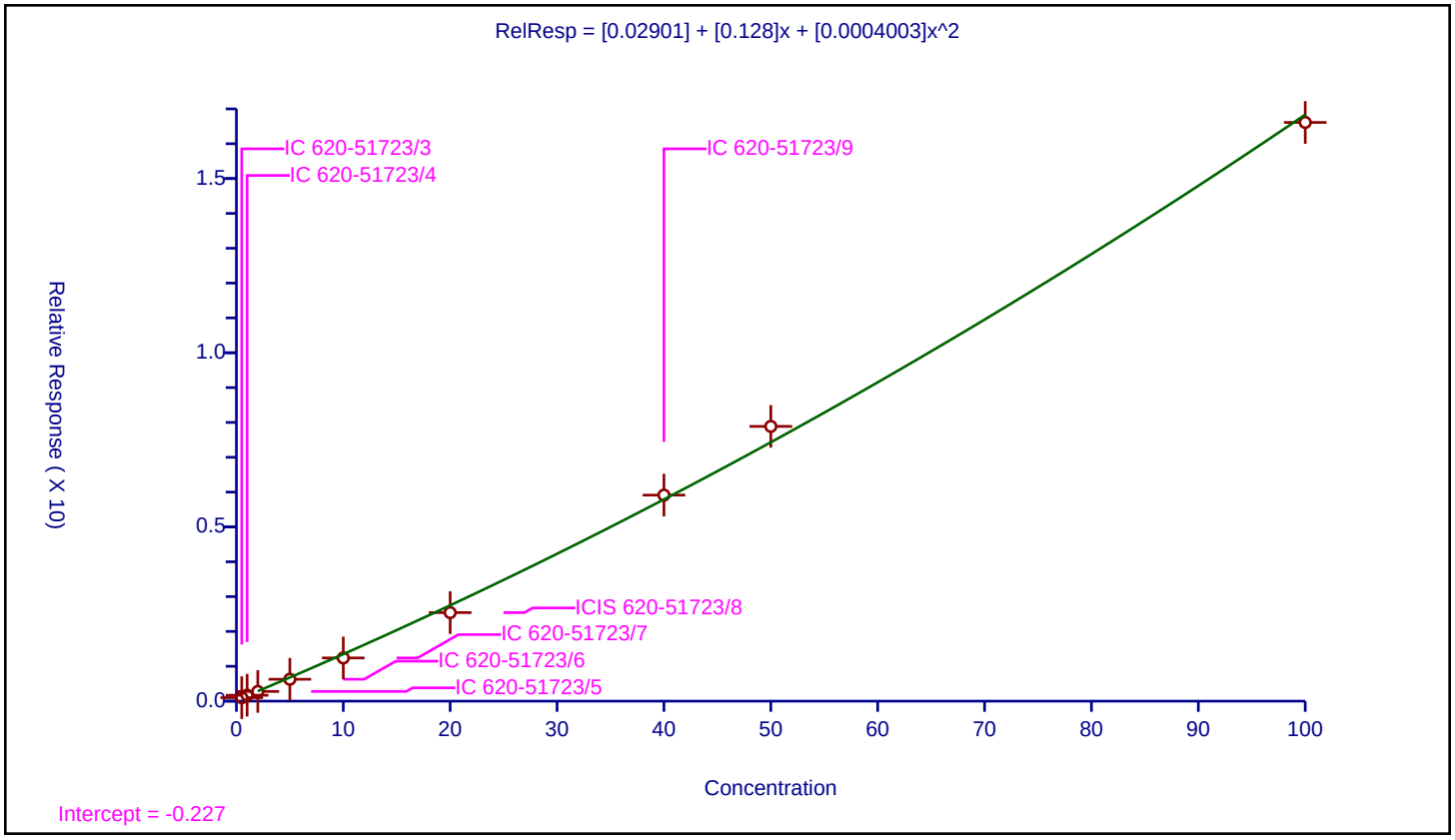
Curve Coefficients

Intercept:	0.02901
Slope:	0.128
Second Order:	0.0004003

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.099765	50.0	367866.0	0.199529	Y
2	IC 620-51723/4	1.0	0.169683	50.0	363913.0	0.169683	Y
3	IC 620-51723/5	2.0	0.278541	50.0	355782.0	0.139271	Y
4	IC 620-51723/6	5.0	0.628359	50.0	360065.0	0.125672	Y
5	IC 620-51723/7	10.0	1.239443	50.0	347414.0	0.123944	Y
6	ICIS 620-51723/8	20.0	2.541896	50.0	346631.0	0.127095	Y
7	IC 620-51723/9	40.0	5.914003	50.0	352663.0	0.14785	Y
8	IC 620-51723/10	50.0	7.88613	50.0	364767.0	0.157723	Y
9	IC 620-51723/11	100.0	16.610976	50.0	383069.0	0.16611	Y



8/20/2025
8:44:38 PM

Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

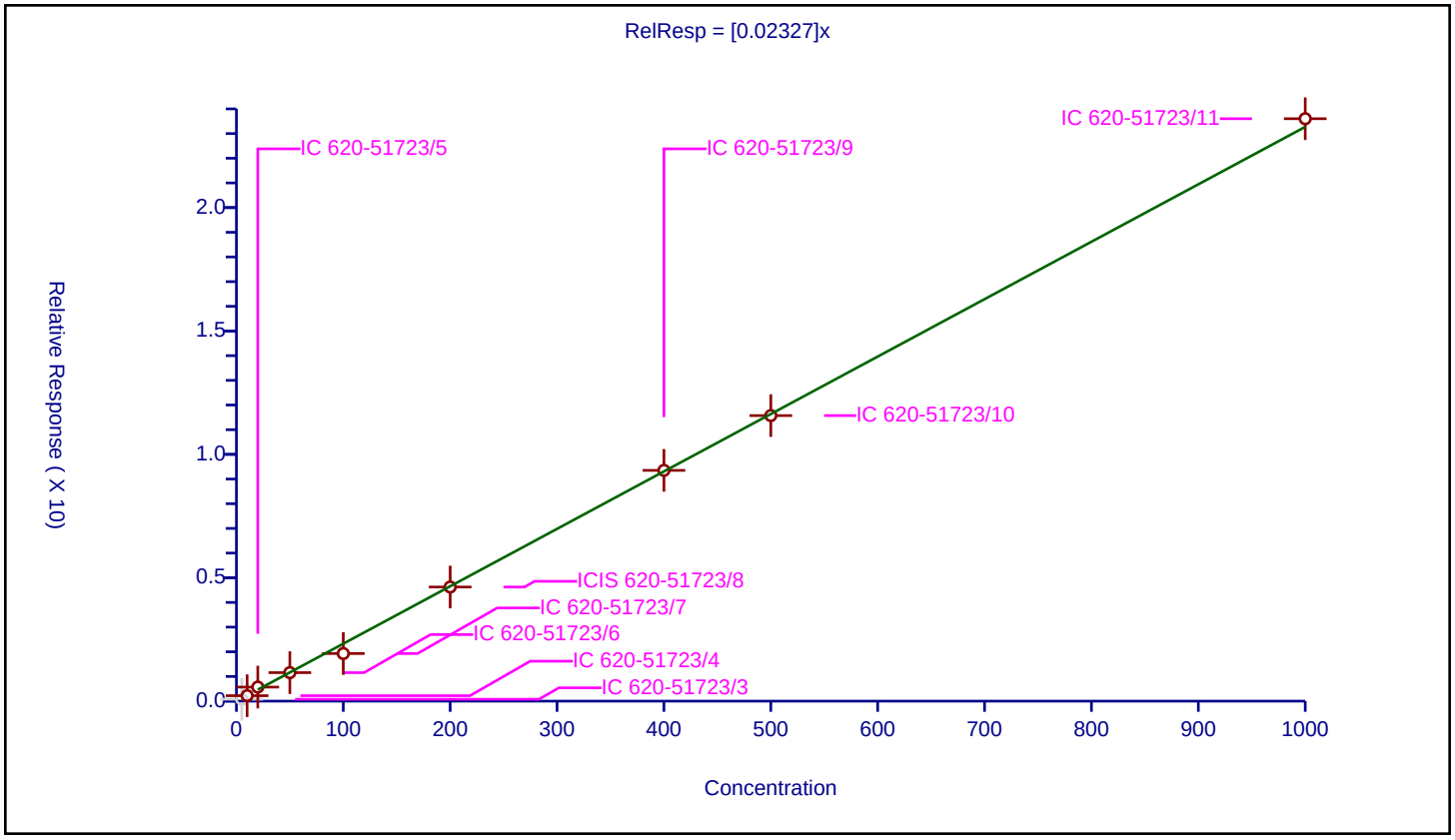
Curve Coefficients

Intercept:	0
Slope:	0.02327

Error Coefficients

Relative Standard Deviation:	10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	5.0	0.077202	50.0	367866.0	0.01544	N
2	IC 620-51723/4	10.0	0.220382	50.0	363913.0	0.022038	Y
3	IC 620-51723/5	20.0	0.56959	50.0	355782.0	0.02848	Y
4	IC 620-51723/6	50.0	1.155486	50.0	360065.0	0.02311	Y
5	IC 620-51723/7	100.0	1.928823	50.0	347414.0	0.019288	Y
6	ICIS 620-51723/8	200.0	4.62437	50.0	346631.0	0.023122	Y
7	IC 620-51723/9	400.0	9.352129	50.0	352663.0	0.02338	Y
8	IC 620-51723/10	500.0	11.572045	50.0	364767.0	0.023144	Y
9	IC 620-51723/11	1000.0	23.602014	50.0	383069.0	0.023602	Y



8/20/2025
8:44:38 PM

Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

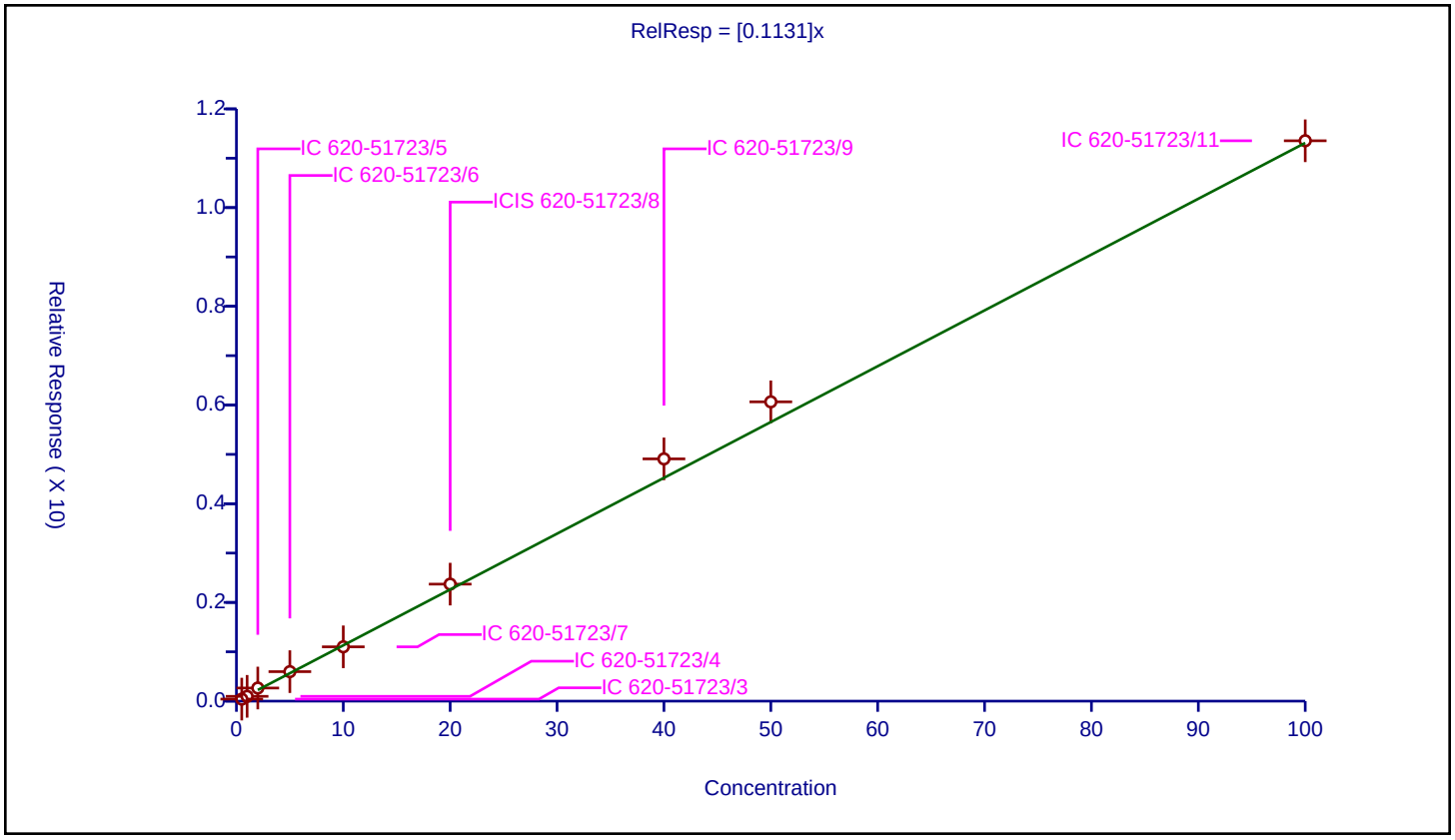
Curve Coefficients

Intercept:	0
Slope:	0.1131

Error Coefficients

Relative Standard Deviation:	13.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.041048	50.0	367866.0	0.082095	Y
2	IC 620-51723/4	1.0	0.097139	50.0	363913.0	0.097139	Y
3	IC 620-51723/5	2.0	0.266034	50.0	355782.0	0.133017	Y
4	IC 620-51723/6	5.0	0.59767	50.0	360065.0	0.119534	Y
5	IC 620-51723/7	10.0	1.100416	50.0	347414.0	0.110042	Y
6	ICIS 620-51723/8	20.0	2.371109	50.0	346631.0	0.118555	Y
7	IC 620-51723/9	40.0	4.908227	50.0	352663.0	0.122706	Y
8	IC 620-51723/10	50.0	6.064419	50.0	364767.0	0.121288	Y
9	IC 620-51723/11	100.0	11.35409	50.0	383069.0	0.113541	Y



8/20/2025
8:44:38 PM

Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

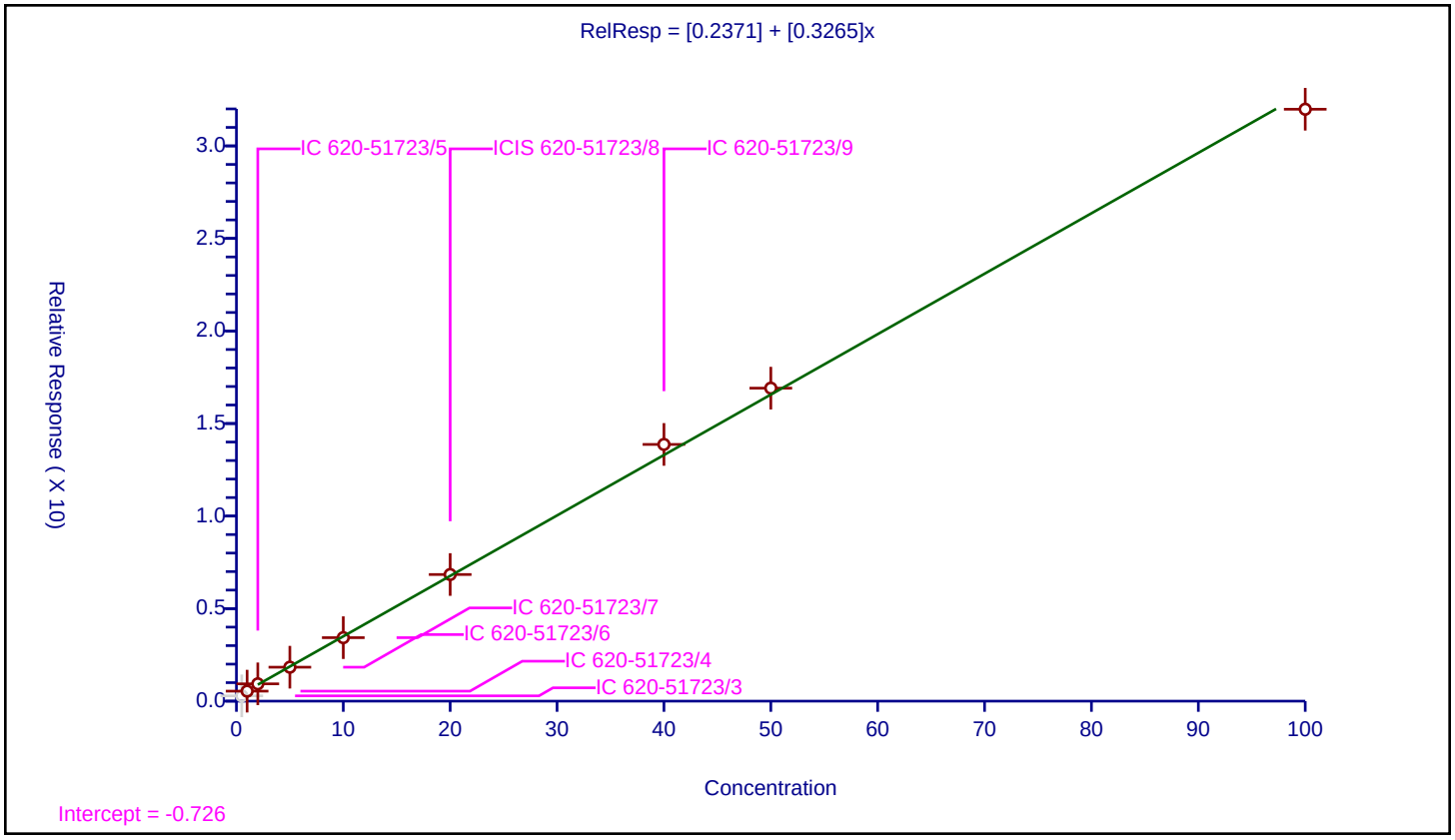
Curve Coefficients

Intercept:	0.2371
Slope:	0.3265

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.285974	50.0	367866.0	0.571947	N
2	IC 620-51723/4	1.0	0.539689	50.0	363913.0	0.539689	Y
3	IC 620-51723/5	2.0	0.934842	50.0	355782.0	0.467421	Y
4	IC 620-51723/6	5.0	1.834252	50.0	360065.0	0.36685	Y
5	IC 620-51723/7	10.0	3.429338	50.0	347414.0	0.342934	Y
6	ICIS 620-51723/8	20.0	6.841569	50.0	346631.0	0.342078	Y
7	IC 620-51723/9	40.0	13.870324	50.0	352663.0	0.346758	Y
8	IC 620-51723/10	50.0	16.911892	50.0	364767.0	0.338238	Y
9	IC 620-51723/11	100.0	31.981184	50.0	383069.0	0.319812	Y



8/20/2025
8:44:38 PM

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

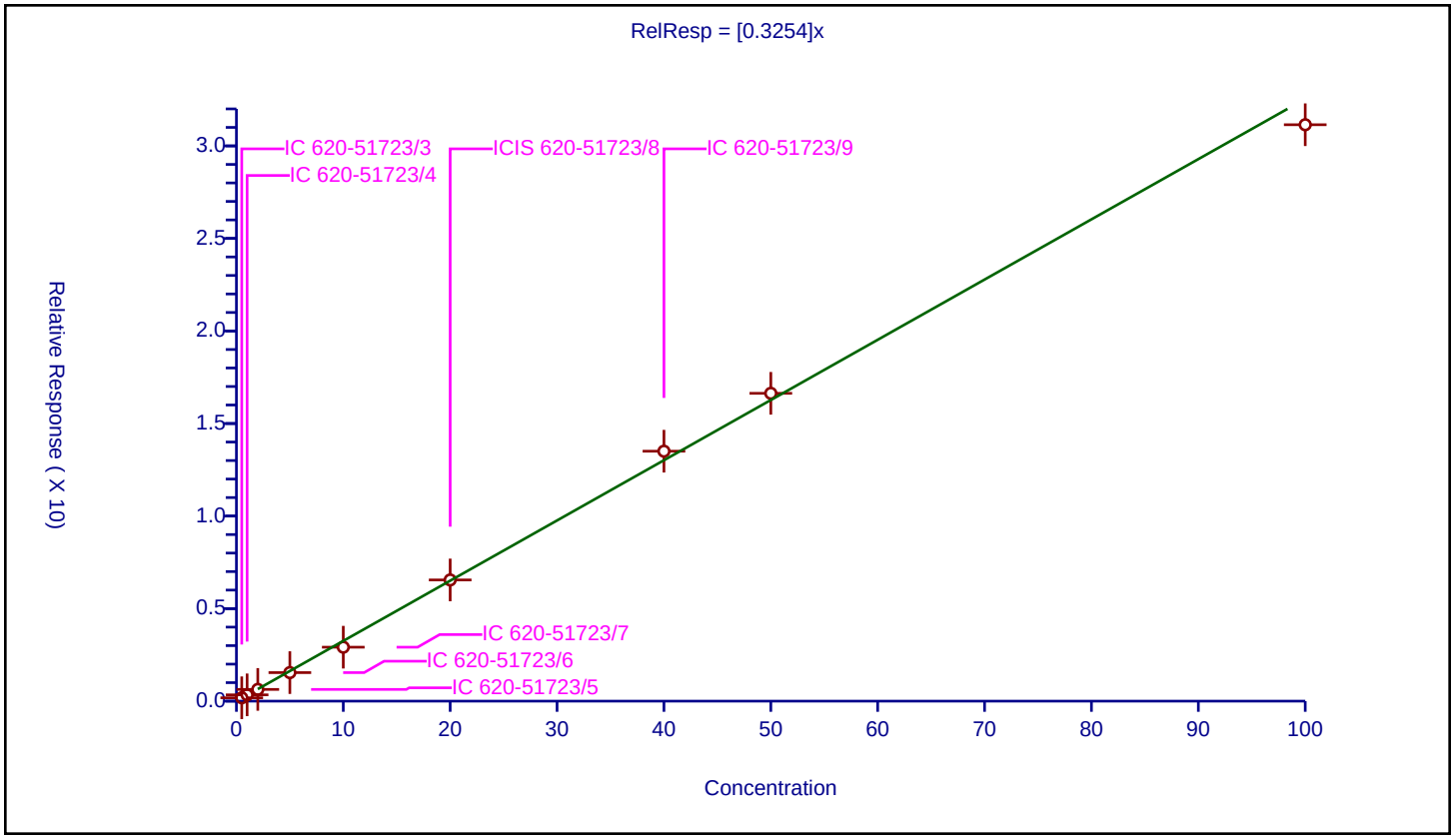
Curve Coefficients

Intercept:	0
Slope:	0.3254

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.181316	50.0	367866.0	0.362632	Y
2	IC 620-51723/4	1.0	0.339779	50.0	363913.0	0.339779	Y
3	IC 620-51723/5	2.0	0.634096	50.0	355782.0	0.317048	Y
4	IC 620-51723/6	5.0	1.542083	50.0	360065.0	0.308417	Y
5	IC 620-51723/7	10.0	2.915398	50.0	347414.0	0.29154	Y
6	ICIS 620-51723/8	20.0	6.548462	50.0	346631.0	0.327423	Y
7	IC 620-51723/9	40.0	13.505386	50.0	352663.0	0.337635	Y
8	IC 620-51723/10	50.0	16.632809	50.0	364767.0	0.332656	Y
9	IC 620-51723/11	100.0	31.143214	50.0	383069.0	0.311432	Y



8/20/2025
8:44:38 PM

Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

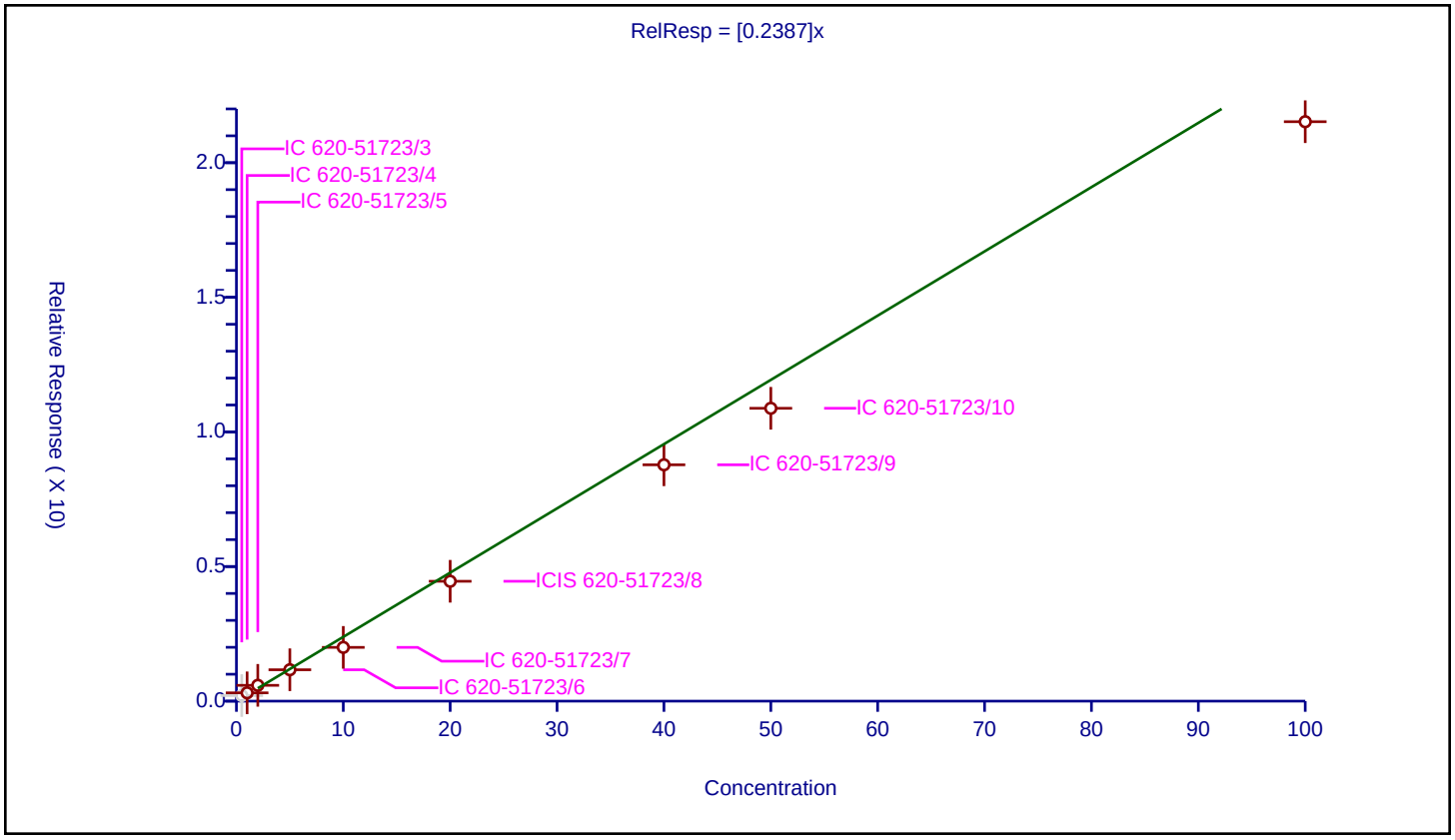
Curve Coefficients

Intercept:	0
Slope:	0.2387

Error Coefficients

Relative Standard Deviation:	16.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.207277	50.0	367866.0	0.414553	N
2	IC 620-51723/4	1.0	0.307766	50.0	363913.0	0.307766	Y
3	IC 620-51723/5	2.0	0.587438	50.0	355782.0	0.293719	Y
4	IC 620-51723/6	5.0	1.166039	50.0	360065.0	0.233208	Y
5	IC 620-51723/7	10.0	1.997041	50.0	347414.0	0.199704	Y
6	ICIS 620-51723/8	20.0	4.452285	50.0	346631.0	0.222614	Y
7	IC 620-51723/9	40.0	8.778777	50.0	352663.0	0.219469	Y
8	IC 620-51723/10	50.0	10.878725	50.0	364767.0	0.217575	Y
9	IC 620-51723/11	100.0	21.523668	50.0	383069.0	0.215237	Y



8/20/2025
8:44:38 PM

Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

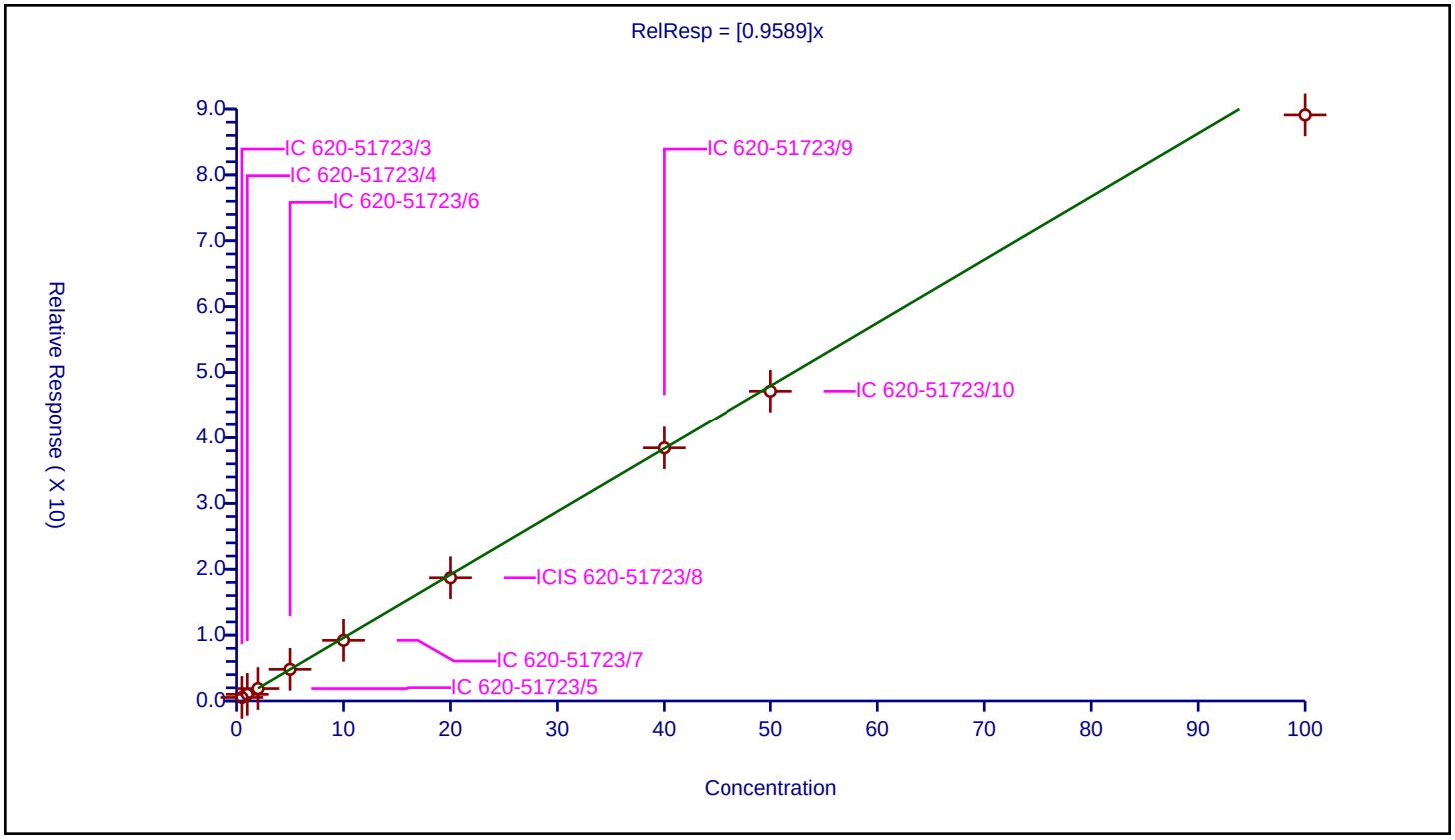
Curve Coefficients

Intercept:	0
Slope:	0.9589

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.534841	50.0	367866.0	1.069683	Y
2	IC 620-51723/4	1.0	1.005323	50.0	363913.0	1.005323	Y
3	IC 620-51723/5	2.0	1.885565	50.0	355782.0	0.942782	Y
4	IC 620-51723/6	5.0	4.80441	50.0	360065.0	0.960882	Y
5	IC 620-51723/7	10.0	9.206451	50.0	347414.0	0.920645	Y
6	ICIS 620-51723/8	20.0	18.706348	50.0	346631.0	0.935317	Y
7	IC 620-51723/9	40.0	38.442507	50.0	352663.0	0.961063	Y
8	IC 620-51723/10	50.0	47.150647	50.0	364767.0	0.943013	Y
9	IC 620-51723/11	100.0	89.105618	50.0	383069.0	0.891056	Y



8/20/2025
8:44:38 PM

Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

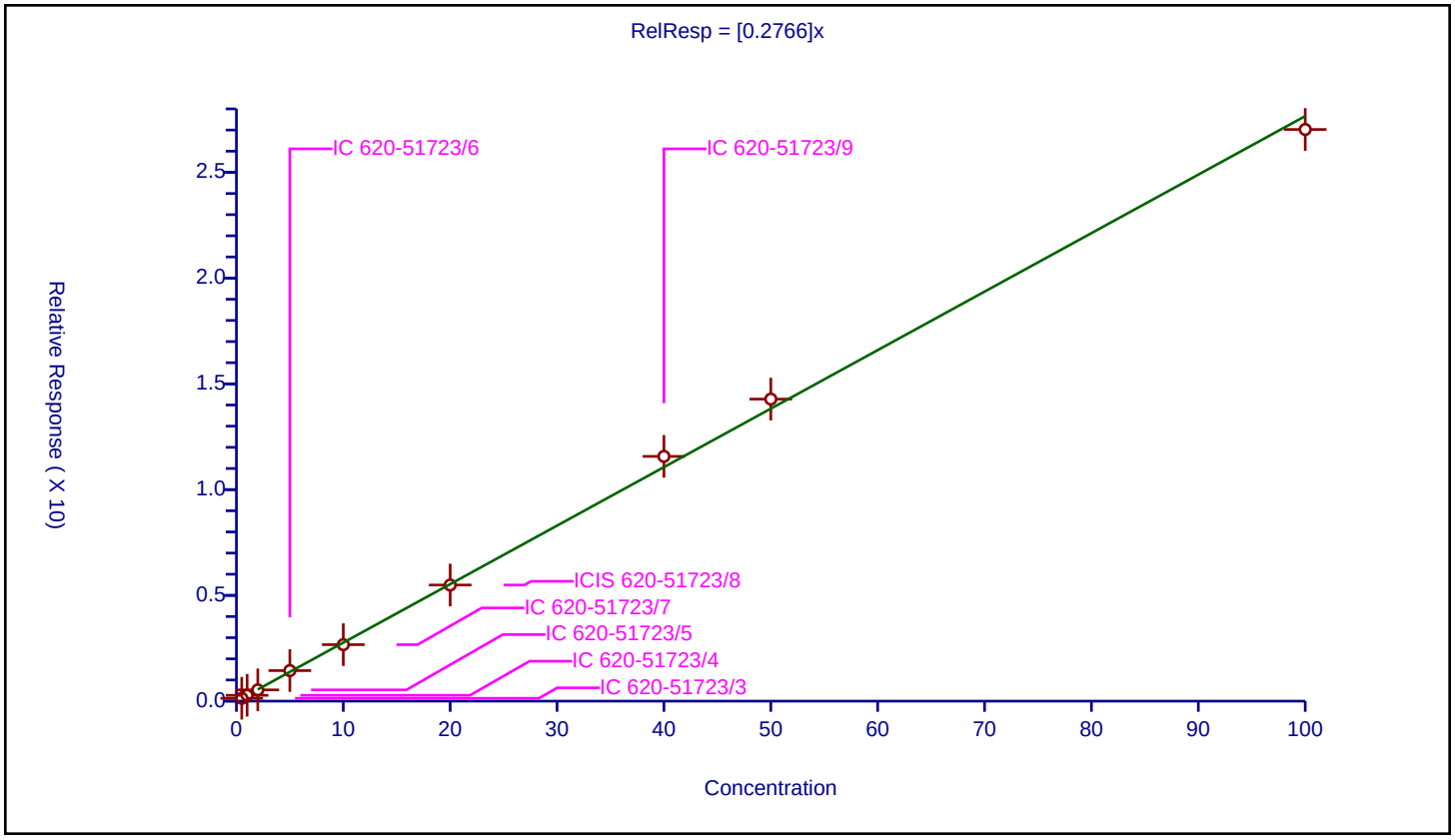
Curve Coefficients

Intercept:	0
Slope:	0.2766

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.135783	50.0	367866.0	0.271566	Y
2	IC 620-51723/4	1.0	0.276028	50.0	363913.0	0.276028	Y
3	IC 620-51723/5	2.0	0.532489	50.0	355782.0	0.266244	Y
4	IC 620-51723/6	5.0	1.443906	50.0	360065.0	0.288781	Y
5	IC 620-51723/7	10.0	2.669869	50.0	347414.0	0.266987	Y
6	ICIS 620-51723/8	20.0	5.489122	50.0	346631.0	0.274456	Y
7	IC 620-51723/9	40.0	11.57082	50.0	352663.0	0.28927	Y
8	IC 620-51723/10	50.0	14.280075	50.0	364767.0	0.285601	Y
9	IC 620-51723/11	100.0	27.026985	50.0	383069.0	0.27027	Y



8/20/2025
8:44:38 PM

Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

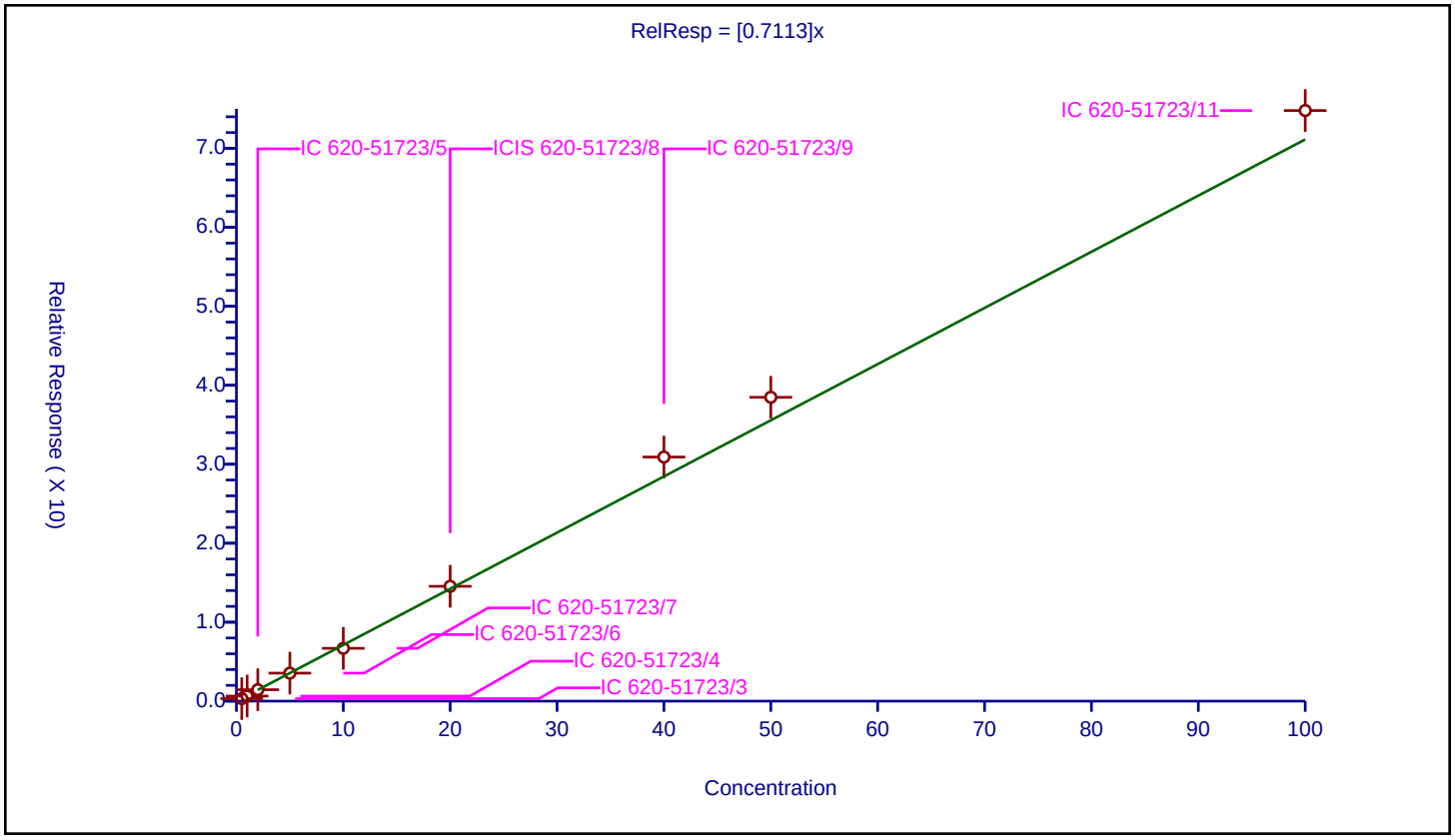
Curve Coefficients

Intercept:	0
Slope:	0.7113

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.319274	50.0	367866.0	0.638548	Y
2	IC 620-51723/4	1.0	0.643973	50.0	363913.0	0.643973	Y
3	IC 620-51723/5	2.0	1.447375	50.0	355782.0	0.723688	Y
4	IC 620-51723/6	5.0	3.54561	50.0	360065.0	0.709122	Y
5	IC 620-51723/7	10.0	6.690289	50.0	347414.0	0.669029	Y
6	ICIS 620-51723/8	20.0	14.541544	50.0	346631.0	0.727077	Y
7	IC 620-51723/9	40.0	30.910388	50.0	352663.0	0.77276	Y
8	IC 620-51723/10	50.0	38.479221	50.0	364767.0	0.769584	Y
9	IC 620-51723/11	100.0	74.789398	50.0	383069.0	0.747894	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

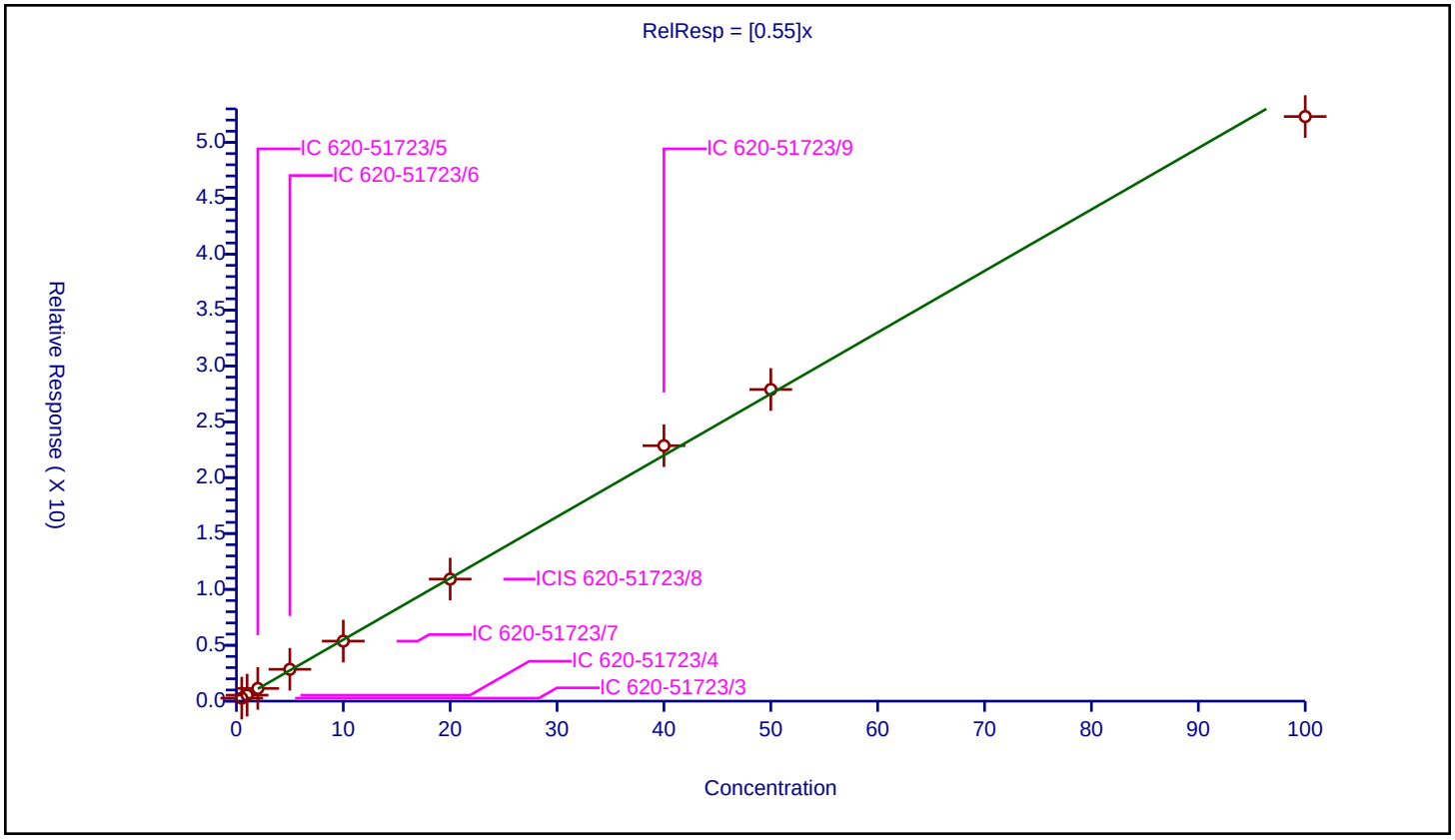
Curve Coefficients

Intercept:	0
Slope:	0.55

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.270071	50.0	367866.0	0.540142	Y
2	IC 620-51723/4	1.0	0.535155	50.0	363913.0	0.535155	Y
3	IC 620-51723/5	2.0	1.138338	50.0	355782.0	0.569169	Y
4	IC 620-51723/6	5.0	2.849069	50.0	360065.0	0.569814	Y
5	IC 620-51723/7	10.0	5.370106	50.0	347414.0	0.537011	Y
6	ICIS 620-51723/8	20.0	10.921556	50.0	346631.0	0.546078	Y
7	IC 620-51723/9	40.0	22.860351	50.0	352663.0	0.571509	Y
8	IC 620-51723/10	50.0	27.890133	50.0	364767.0	0.557803	Y
9	IC 620-51723/11	100.0	52.31551	50.0	383069.0	0.523155	Y



8/20/2025
8:44:38 PM

Calibration / 2-Butanone (MEK)

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

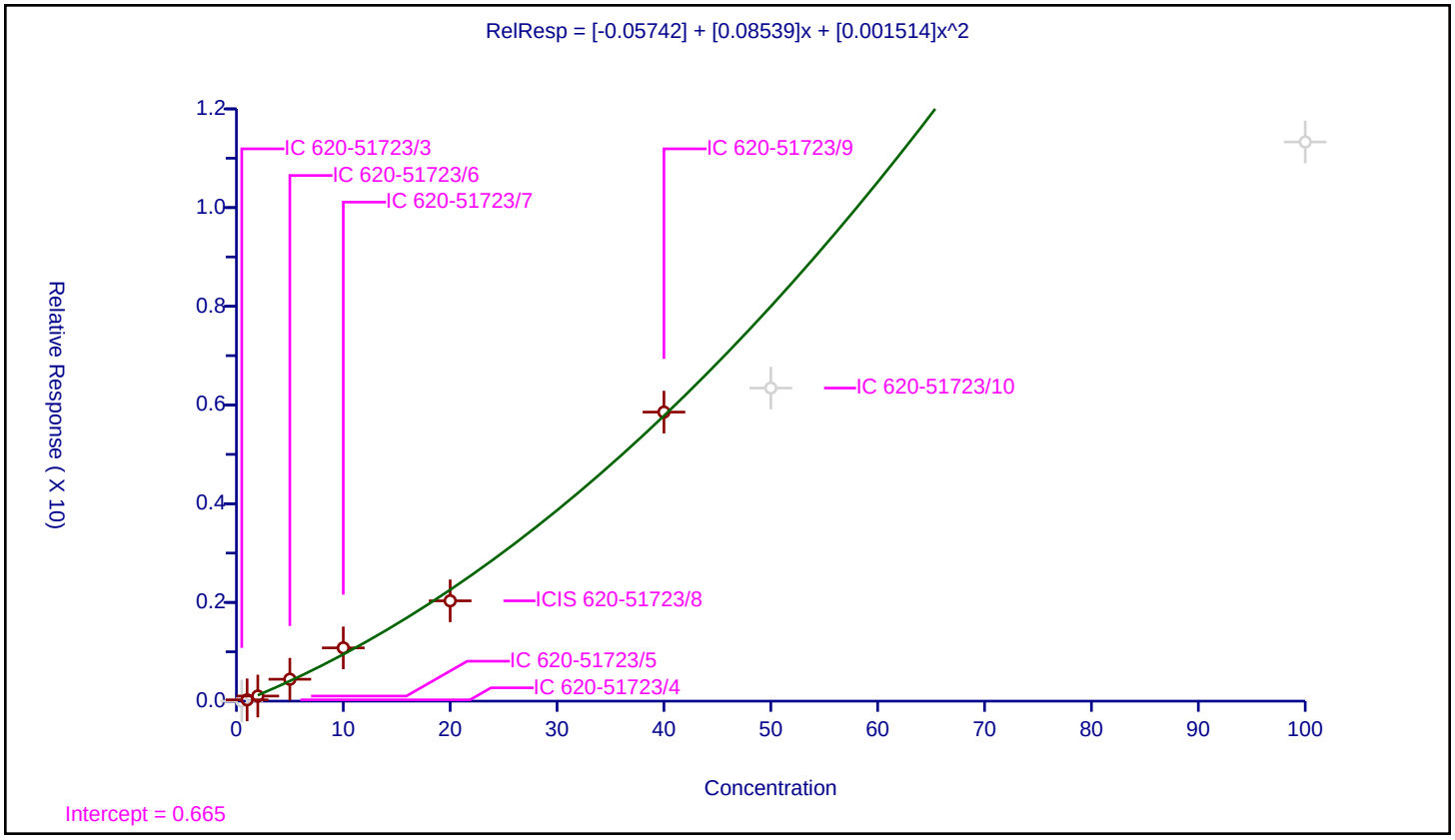
Curve Coefficients

Intercept:	-0.05742
Slope:	0.08539
Second Order:	0.001514

Error Coefficients

Relative Standard Deviation:	10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.0	50.0	367866.0	0.0	N
2	IC 620-51723/4	1.0	0.026517	50.0	363913.0	0.026517	Y
3	IC 620-51723/5	2.0	0.103153	50.0	355782.0	0.051577	Y
4	IC 620-51723/6	5.0	0.443809	50.0	360065.0	0.088762	Y
5	IC 620-51723/7	10.0	1.078972	50.0	347414.0	0.107897	Y
6	ICIS 620-51723/8	20.0	2.032421	50.0	346631.0	0.101621	Y
7	IC 620-51723/9	40.0	5.856441	50.0	352663.0	0.146411	Y
8	IC 620-51723/10	50.0	6.343501	50.0	364767.0	0.12687	N
9	IC 620-51723/11	100.0	11.329943	50.0	383069.0	0.113299	N



8/20/2025
8:44:38 PM

Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

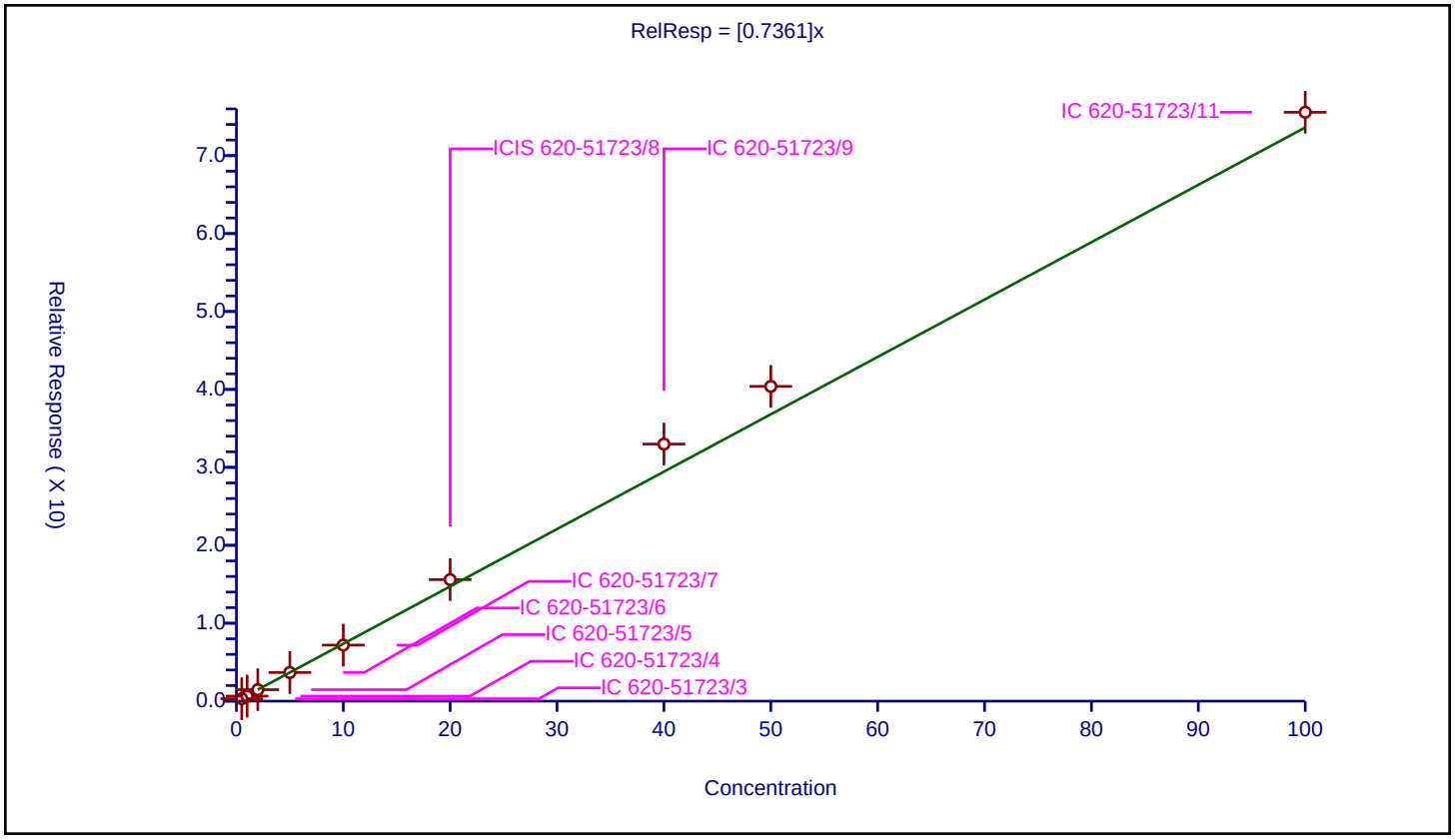
Curve Coefficients

Intercept:	0
Slope:	0.7361

Error Coefficients

Relative Standard Deviation:	9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.309488	50.0	367866.0	0.618975	Y
2	IC 620-51723/4	1.0	0.647957	50.0	363913.0	0.647957	Y
3	IC 620-51723/5	2.0	1.472109	50.0	355782.0	0.736055	Y
4	IC 620-51723/6	5.0	3.674753	50.0	360065.0	0.734951	Y
5	IC 620-51723/7	10.0	7.193579	50.0	347414.0	0.719358	Y
6	ICIS 620-51723/8	20.0	15.594826	50.0	346631.0	0.779741	Y
7	IC 620-51723/9	40.0	32.988859	50.0	352663.0	0.824721	Y
8	IC 620-51723/10	50.0	40.391949	50.0	364767.0	0.807839	Y
9	IC 620-51723/11	100.0	75.570459	50.0	383069.0	0.755705	Y



8/20/2025
8:44:38 PM

Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

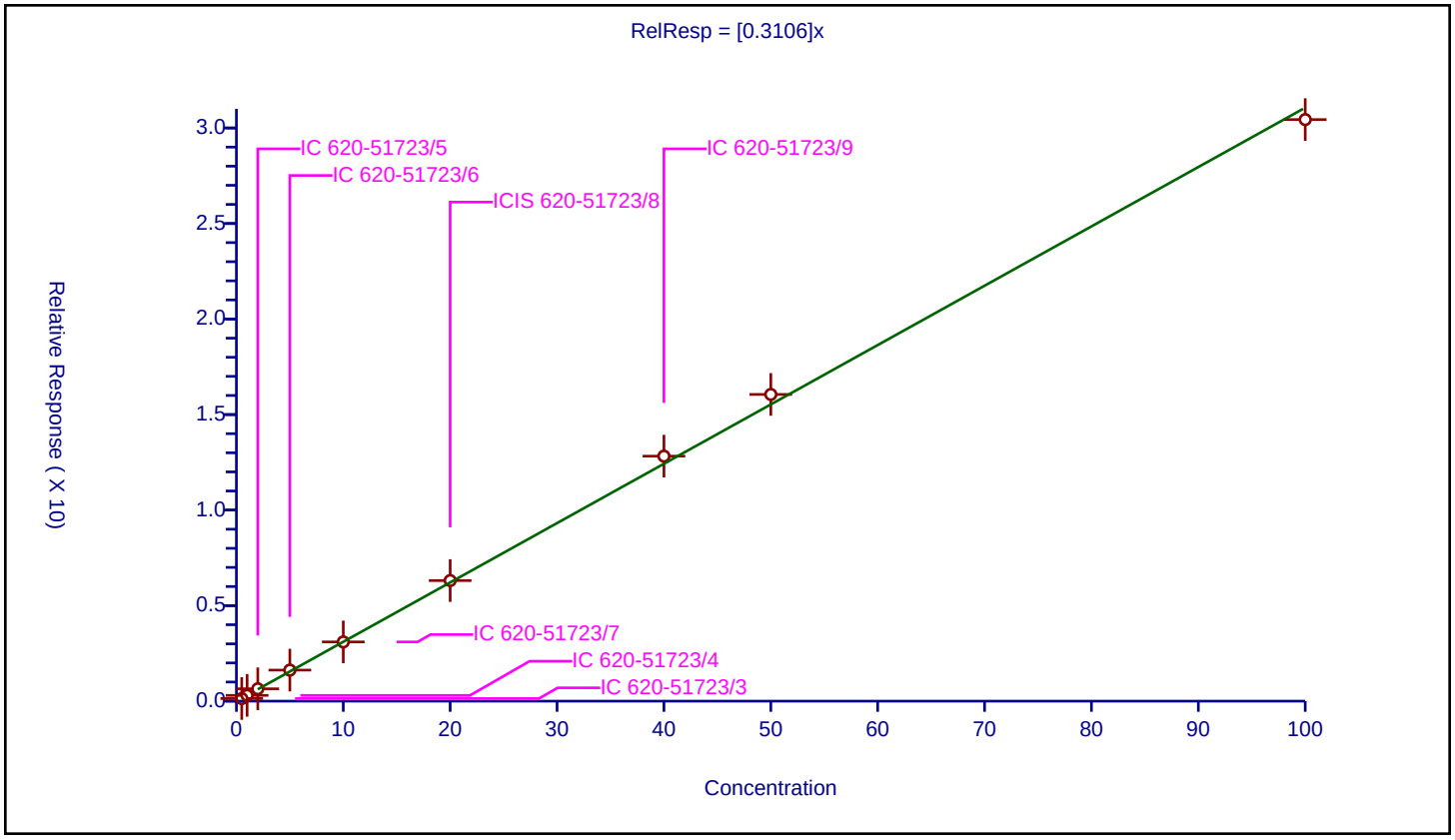
Curve Coefficients

Intercept:	0
Slope:	0.3106

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.136735	50.0	367866.0	0.273469	Y
2	IC 620-51723/4	1.0	0.302133	50.0	363913.0	0.302133	Y
3	IC 620-51723/5	2.0	0.646744	50.0	355782.0	0.323372	Y
4	IC 620-51723/6	5.0	1.625123	50.0	360065.0	0.325025	Y
5	IC 620-51723/7	10.0	3.099328	50.0	347414.0	0.309933	Y
6	ICIS 620-51723/8	20.0	6.311899	50.0	346631.0	0.315595	Y
7	IC 620-51723/9	40.0	12.823857	50.0	352663.0	0.320596	Y
8	IC 620-51723/10	50.0	16.05381	50.0	364767.0	0.321076	Y
9	IC 620-51723/11	100.0	30.440208	50.0	383069.0	0.304402	Y



8/20/2025
8:44:38 PM

Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

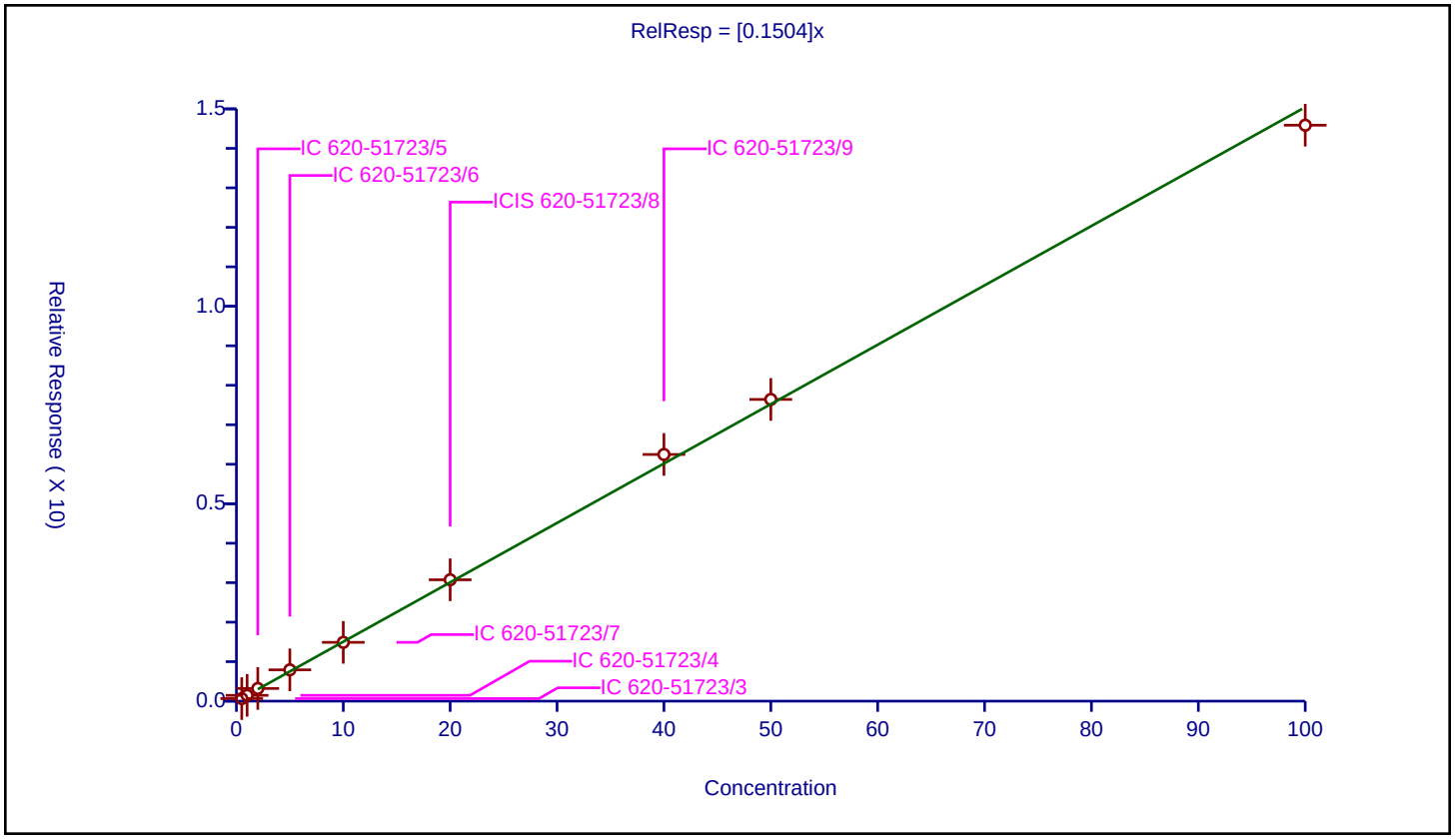
Curve Coefficients

Intercept:	0
Slope:	0.1504

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.065105	50.0	367866.0	0.13021	Y
2	IC 620-51723/4	1.0	0.147013	50.0	363913.0	0.147013	Y
3	IC 620-51723/5	2.0	0.321124	50.0	355782.0	0.160562	Y
4	IC 620-51723/6	5.0	0.792774	50.0	360065.0	0.158555	Y
5	IC 620-51723/7	10.0	1.489433	50.0	347414.0	0.148943	Y
6	ICIS 620-51723/8	20.0	3.073874	50.0	346631.0	0.153694	Y
7	IC 620-51723/9	40.0	6.247466	50.0	352663.0	0.156187	Y
8	IC 620-51723/10	50.0	7.64159	50.0	364767.0	0.152832	Y
9	IC 620-51723/11	100.0	14.586276	50.0	383069.0	0.145863	Y



8/20/2025
8:44:38 PM

Calibration / Chloroform

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

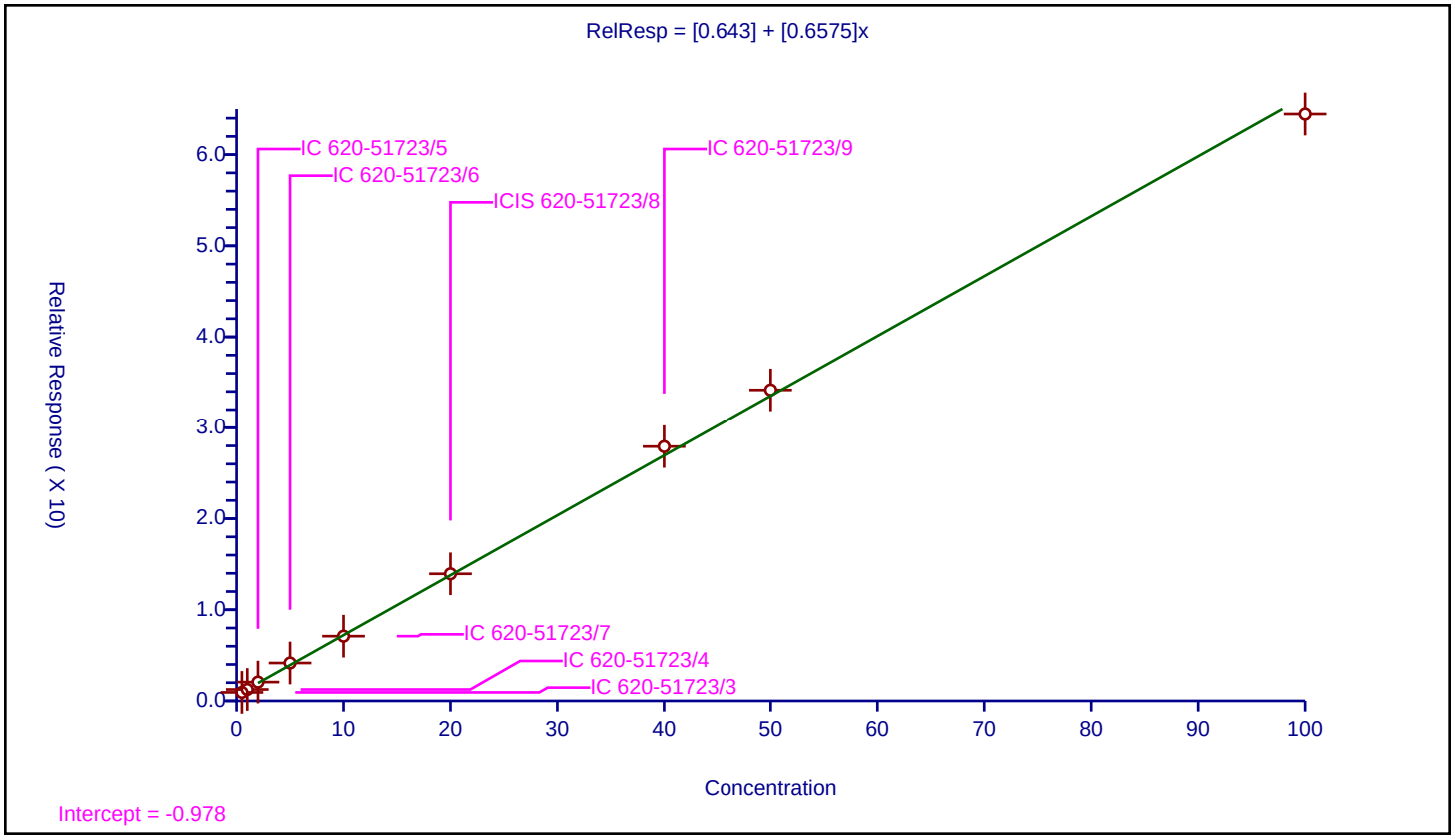
Curve Coefficients

Intercept:	0.643
Slope:	0.6575

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.936346	50.0	367866.0	1.872693	Y
2	IC 620-51723/4	1.0	1.25497	50.0	363913.0	1.25497	Y
3	IC 620-51723/5	2.0	2.068823	50.0	355782.0	1.034412	Y
4	IC 620-51723/6	5.0	4.16161	50.0	360065.0	0.832322	Y
5	IC 620-51723/7	10.0	7.103197	50.0	347414.0	0.71032	Y
6	ICIS 620-51723/8	20.0	13.947685	50.0	346631.0	0.697384	Y
7	IC 620-51723/9	40.0	27.927512	50.0	352663.0	0.698188	Y
8	IC 620-51723/10	50.0	34.169209	50.0	364767.0	0.683384	Y
9	IC 620-51723/11	100.0	64.453923	50.0	383069.0	0.644539	Y



8/20/2025
8:44:38 PM

Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

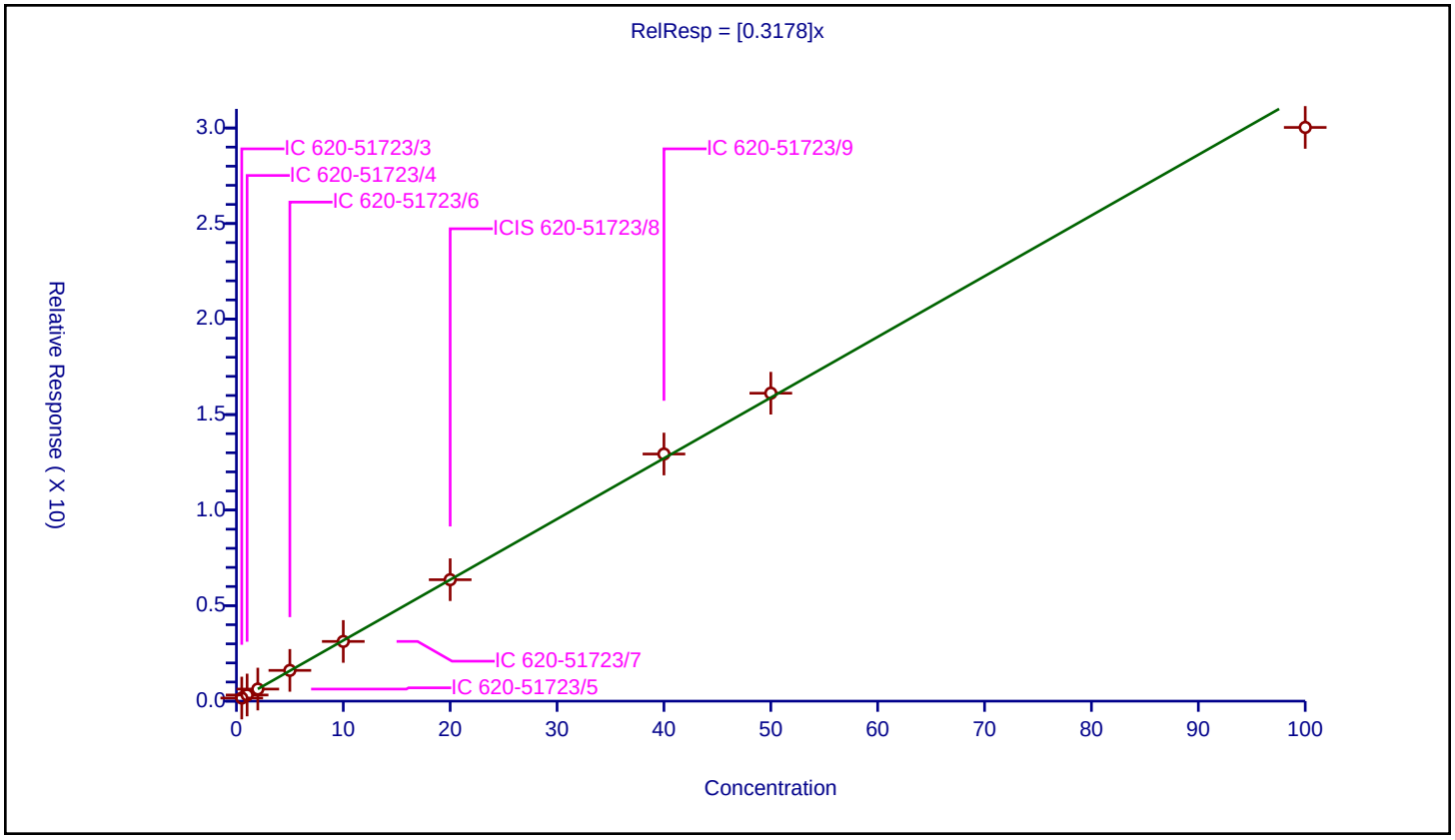
Curve Coefficients

Intercept:	0
Slope:	0.3178

Error Coefficients

Relative Standard Deviation:	2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.162287	50.0	367866.0	0.324575	Y
2	IC 620-51723/4	1.0	0.321093	50.0	363913.0	0.321093	Y
3	IC 620-51723/5	2.0	0.631848	50.0	355782.0	0.315924	Y
4	IC 620-51723/6	5.0	1.609293	50.0	360065.0	0.321859	Y
5	IC 620-51723/7	10.0	3.124946	50.0	347414.0	0.312495	Y
6	ICIS 620-51723/8	20.0	6.356039	50.0	346631.0	0.317802	Y
7	IC 620-51723/9	40.0	12.935437	50.0	352663.0	0.323386	Y
8	IC 620-51723/10	50.0	16.118371	50.0	364767.0	0.322367	Y
9	IC 620-51723/11	100.0	30.029577	50.0	383069.0	0.300296	Y



8/20/2025
8:44:38 PM

Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

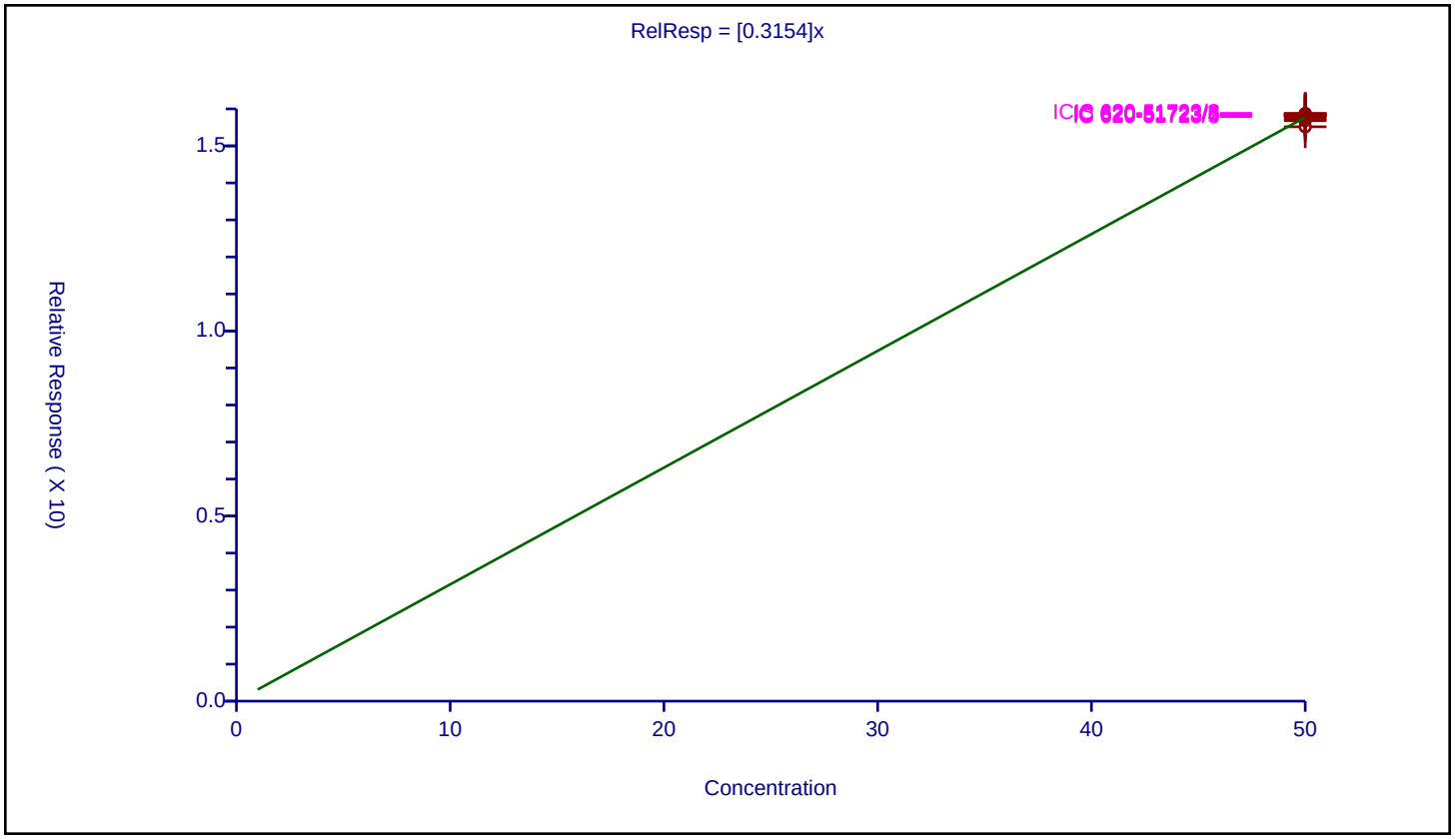
Curve Coefficients

Intercept:	0
Slope:	0.3154

Error Coefficients

Relative Standard Deviation:	0.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	50.0	15.792435	50.0	367866.0	0.315849	Y
2	IC 620-51723/4	50.0	15.820402	50.0	363913.0	0.316408	Y
3	IC 620-51723/5	50.0	15.868144	50.0	355782.0	0.317363	Y
4	IC 620-51723/6	50.0	15.837974	50.0	360065.0	0.316759	Y
5	IC 620-51723/7	50.0	15.825211	50.0	347414.0	0.316504	Y
6	ICIS 620-51723/8	50.0	15.876393	50.0	346631.0	0.317528	Y
7	IC 620-51723/9	50.0	15.729889	50.0	352663.0	0.314598	Y
8	IC 620-51723/10	50.0	15.681517	50.0	364767.0	0.31363	Y
9	IC 620-51723/11	50.0	15.516395	50.0	383069.0	0.310328	Y



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

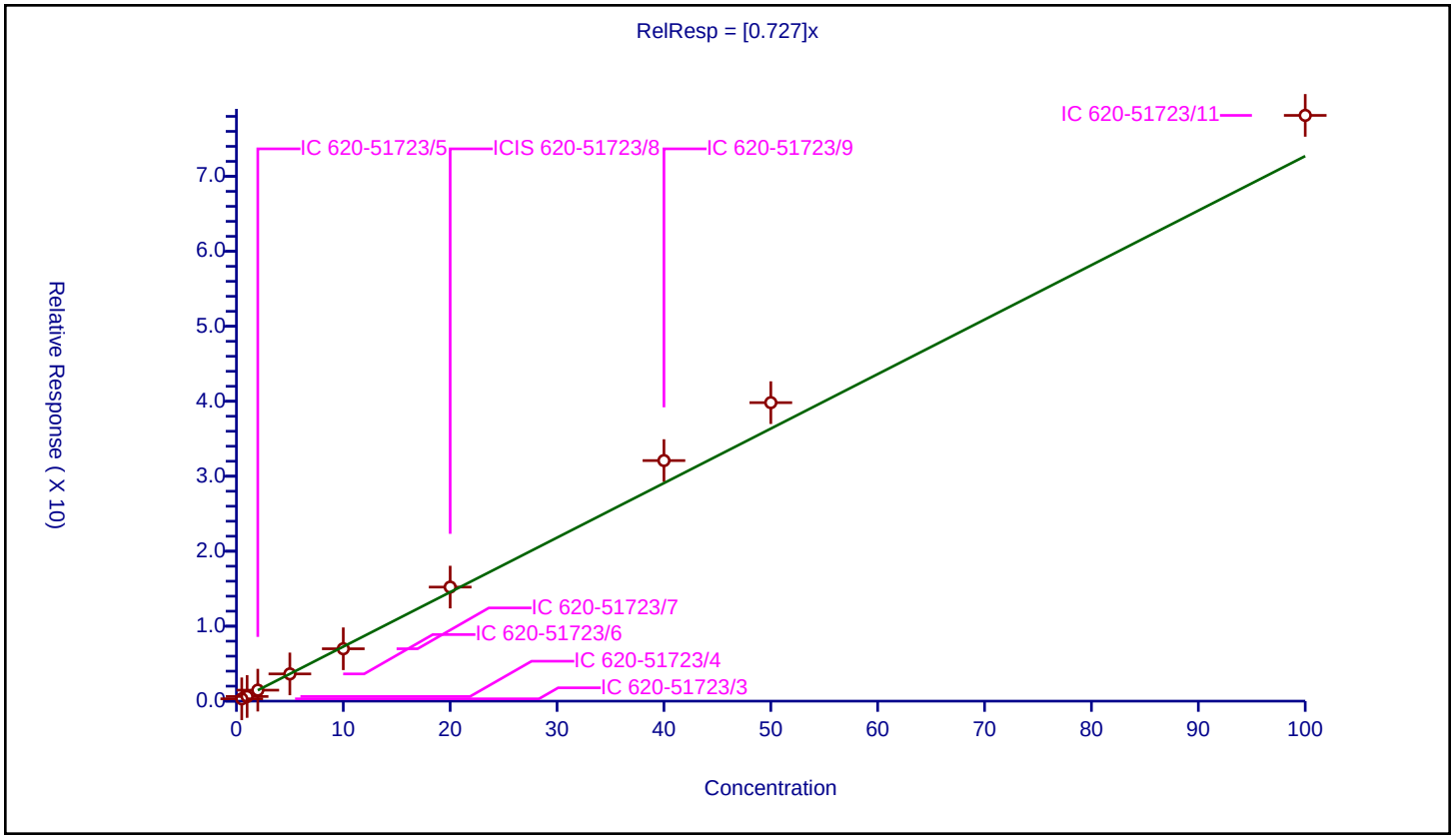
Curve Coefficients

Intercept:	0
Slope:	0.727

Error Coefficients

Relative Standard Deviation:	9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.311662	50.0	367866.0	0.623325	Y
2	IC 620-51723/4	1.0	0.620478	50.0	363913.0	0.620478	Y
3	IC 620-51723/5	2.0	1.46705	50.0	355782.0	0.733525	Y
4	IC 620-51723/6	5.0	3.633649	50.0	360065.0	0.72673	Y
5	IC 620-51723/7	10.0	6.987916	50.0	347414.0	0.698792	Y
6	ICIS 620-51723/8	20.0	15.213152	50.0	346631.0	0.760658	Y
7	IC 620-51723/9	40.0	32.088566	50.0	352663.0	0.802214	Y
8	IC 620-51723/10	50.0	39.817061	50.0	364767.0	0.796341	Y
9	IC 620-51723/11	100.0	78.134749	50.0	383069.0	0.781347	Y



8/20/2025
8:44:38 PM

Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

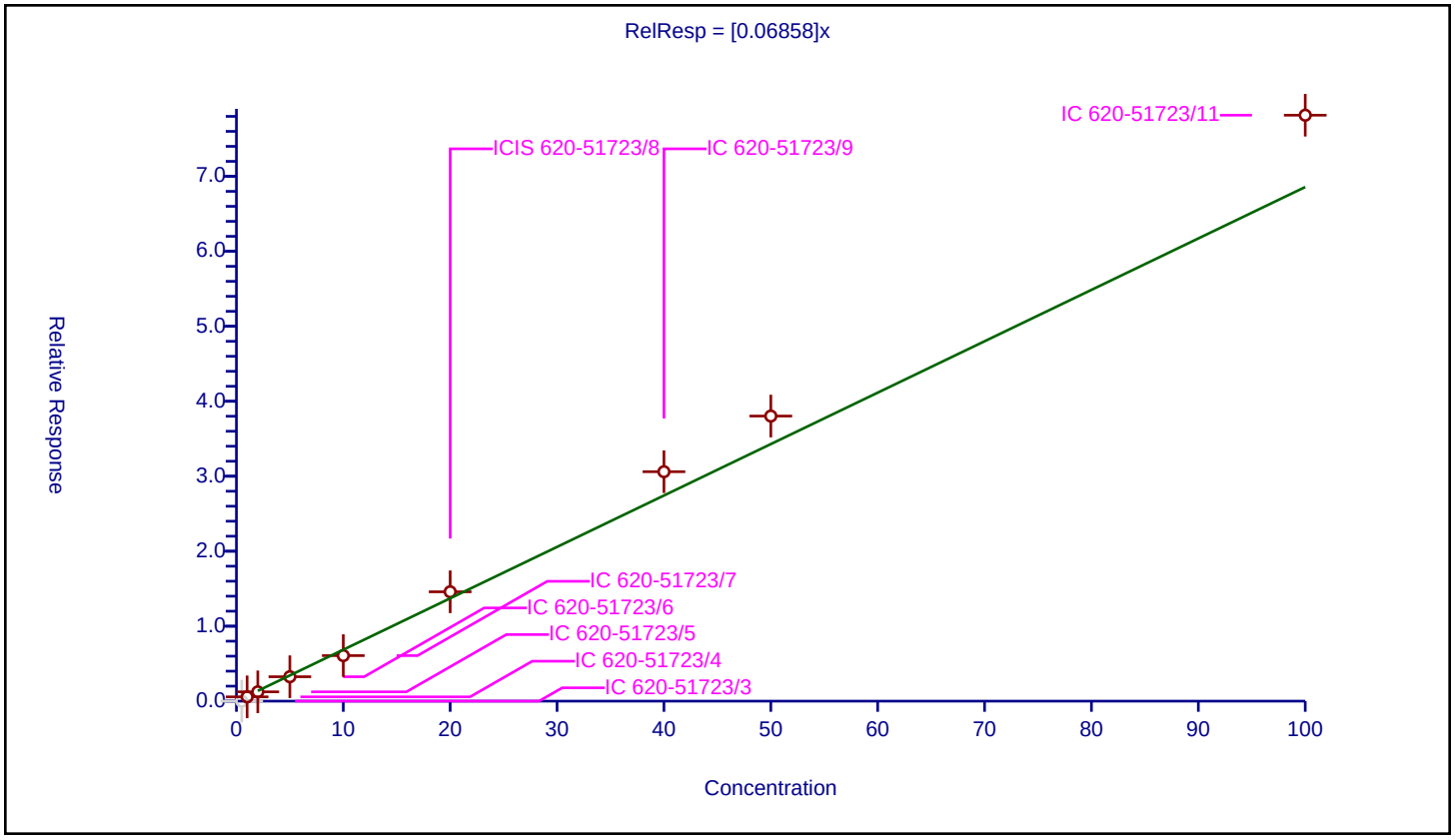
Curve Coefficients

Intercept:	0
Slope:	0.06858

Error Coefficients

Relative Standard Deviation:	12.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.0	50.0	367866.0	0.0	N
2	IC 620-51723/4	1.0	0.057019	50.0	363913.0	0.057019	Y
3	IC 620-51723/5	2.0	0.124233	50.0	355782.0	0.062117	Y
4	IC 620-51723/6	5.0	0.325497	50.0	360065.0	0.065099	Y
5	IC 620-51723/7	10.0	0.607201	50.0	347414.0	0.06072	Y
6	ICIS 620-51723/8	20.0	1.458612	50.0	346631.0	0.072931	Y
7	IC 620-51723/9	40.0	3.060429	50.0	352663.0	0.076511	Y
8	IC 620-51723/10	50.0	3.802564	50.0	364767.0	0.076051	Y
9	IC 620-51723/11	100.0	7.815694	50.0	383069.0	0.078157	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

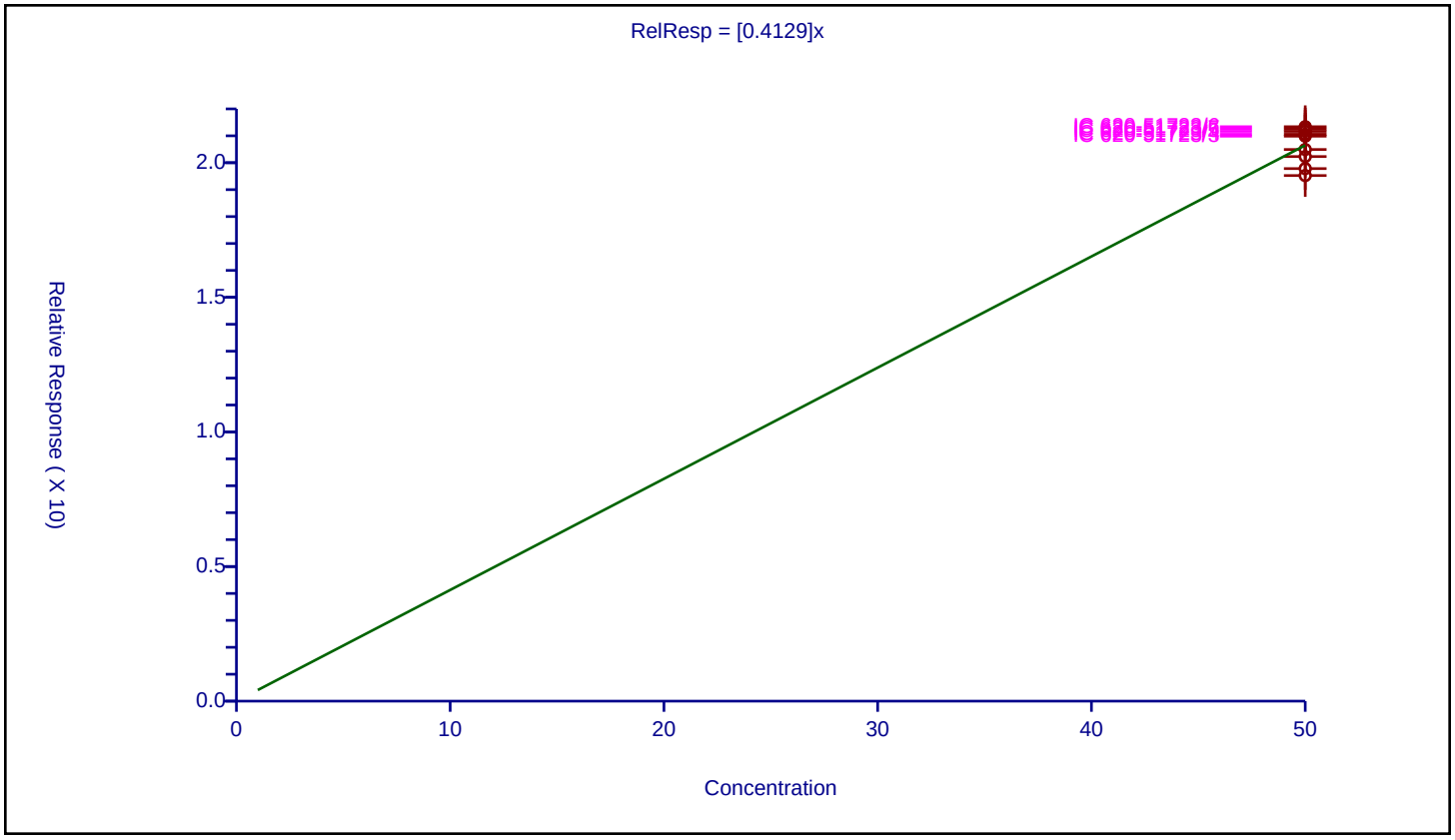
Curve Coefficients

Intercept:	0
Slope:	0.4129

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	50.0	20.985495	50.0	367866.0	0.41971	Y
2	IC 620-51723/4	50.0	21.057368	50.0	363913.0	0.421147	Y
3	IC 620-51723/5	50.0	21.165208	50.0	355782.0	0.423304	Y
4	IC 620-51723/6	50.0	21.338231	50.0	360065.0	0.426765	Y
5	IC 620-51723/7	50.0	21.251302	50.0	347414.0	0.425026	Y
6	ICIS 620-51723/8	50.0	20.49081	50.0	346631.0	0.409816	Y
7	IC 620-51723/9	50.0	20.22866	50.0	352663.0	0.404573	Y
8	IC 620-51723/10	50.0	19.781806	50.0	364767.0	0.395636	Y
9	IC 620-51723/11	50.0	19.524028	50.0	383069.0	0.390481	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

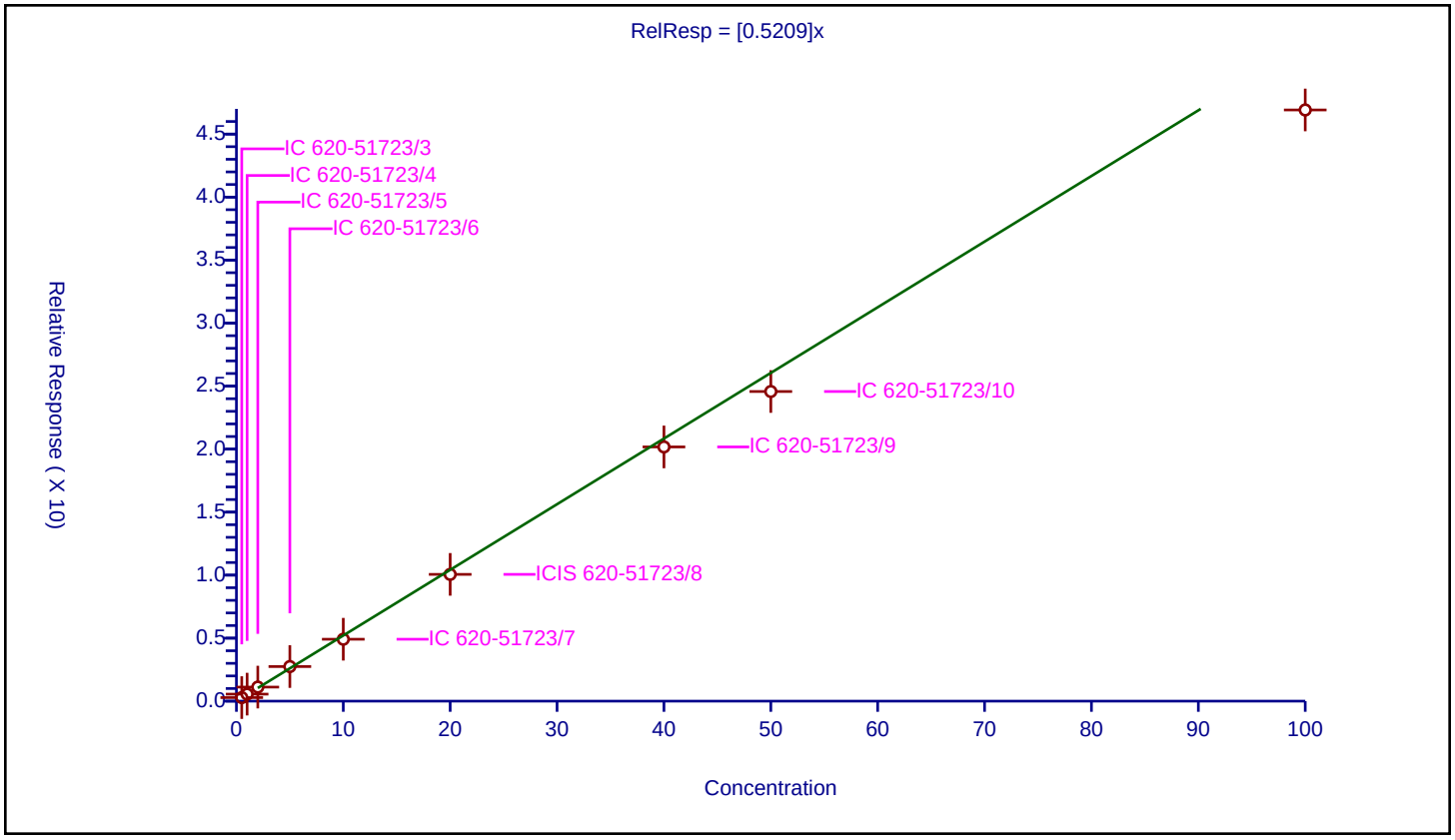
Curve Coefficients

Intercept:	0
Slope:	0.5209

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.282712	50.0	367866.0	0.565423	Y
2	IC 620-51723/4	1.0	0.557139	50.0	363913.0	0.557139	Y
3	IC 620-51723/5	2.0	1.11529	50.0	355782.0	0.557645	Y
4	IC 620-51723/6	5.0	2.744643	50.0	360065.0	0.548929	Y
5	IC 620-51723/7	10.0	4.912871	50.0	347414.0	0.491287	Y
6	ICIS 620-51723/8	20.0	10.060554	50.0	346631.0	0.503028	Y
7	IC 620-51723/9	40.0	20.174217	50.0	352663.0	0.504355	Y
8	IC 620-51723/10	50.0	24.571713	50.0	364767.0	0.491434	Y
9	IC 620-51723/11	100.0	46.914655	50.0	383069.0	0.469147	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

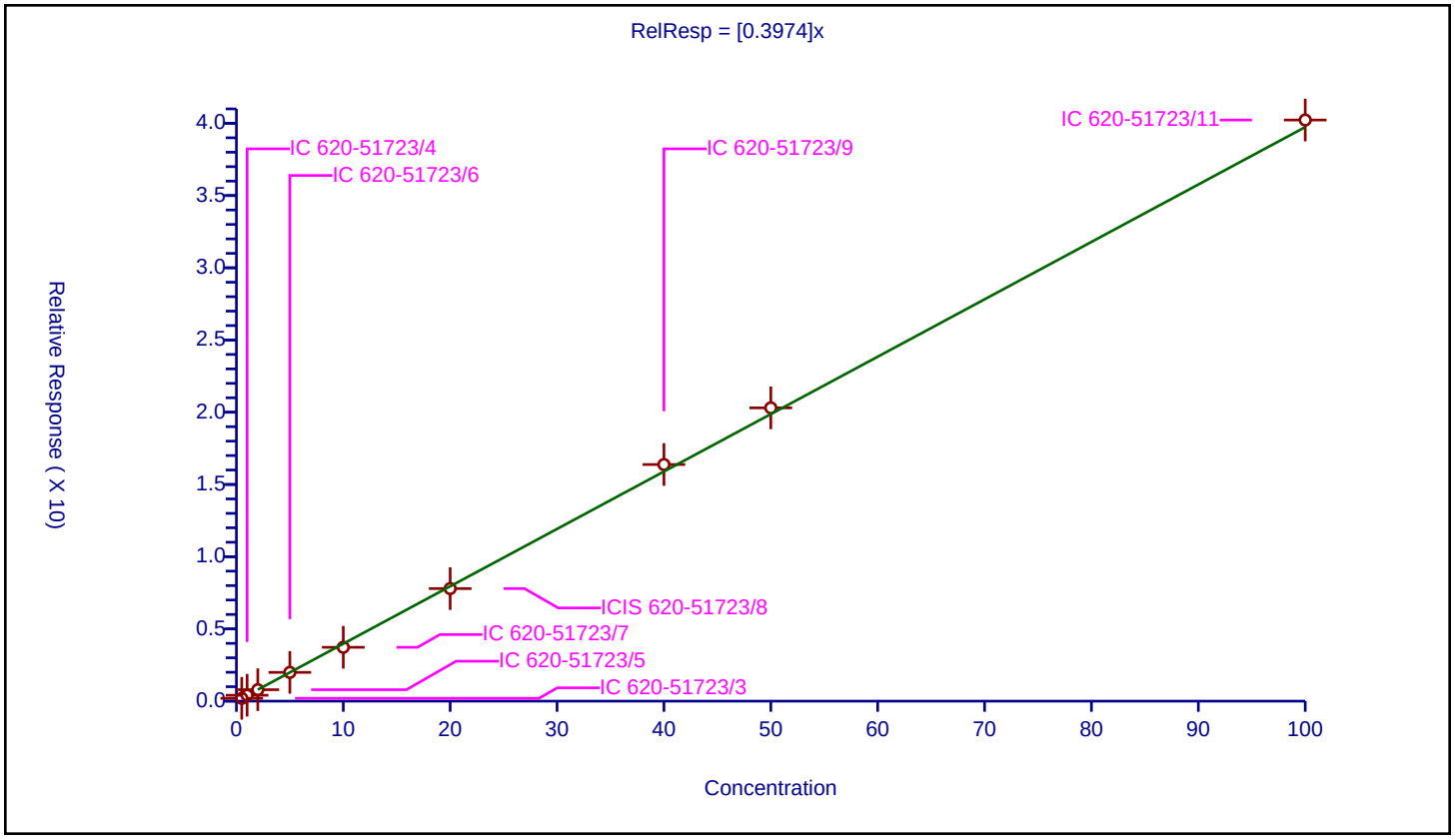
Curve Coefficients

Intercept:	0
Slope:	0.3974

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.196675	50.0	367866.0	0.39335	Y
2	IC 620-51723/4	1.0	0.408477	50.0	363913.0	0.408477	Y
3	IC 620-51723/5	2.0	0.792199	50.0	355782.0	0.396099	Y
4	IC 620-51723/6	5.0	1.992279	50.0	360065.0	0.398456	Y
5	IC 620-51723/7	10.0	3.72639	50.0	347414.0	0.372639	Y
6	ICIS 620-51723/8	20.0	7.792148	50.0	346631.0	0.389607	Y
7	IC 620-51723/9	40.0	16.380511	50.0	352663.0	0.409513	Y
8	IC 620-51723/10	50.0	20.302961	50.0	364767.0	0.406059	Y
9	IC 620-51723/11	100.0	40.229175	50.0	383069.0	0.402292	Y



8/20/2025
8:44:38 PM

Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

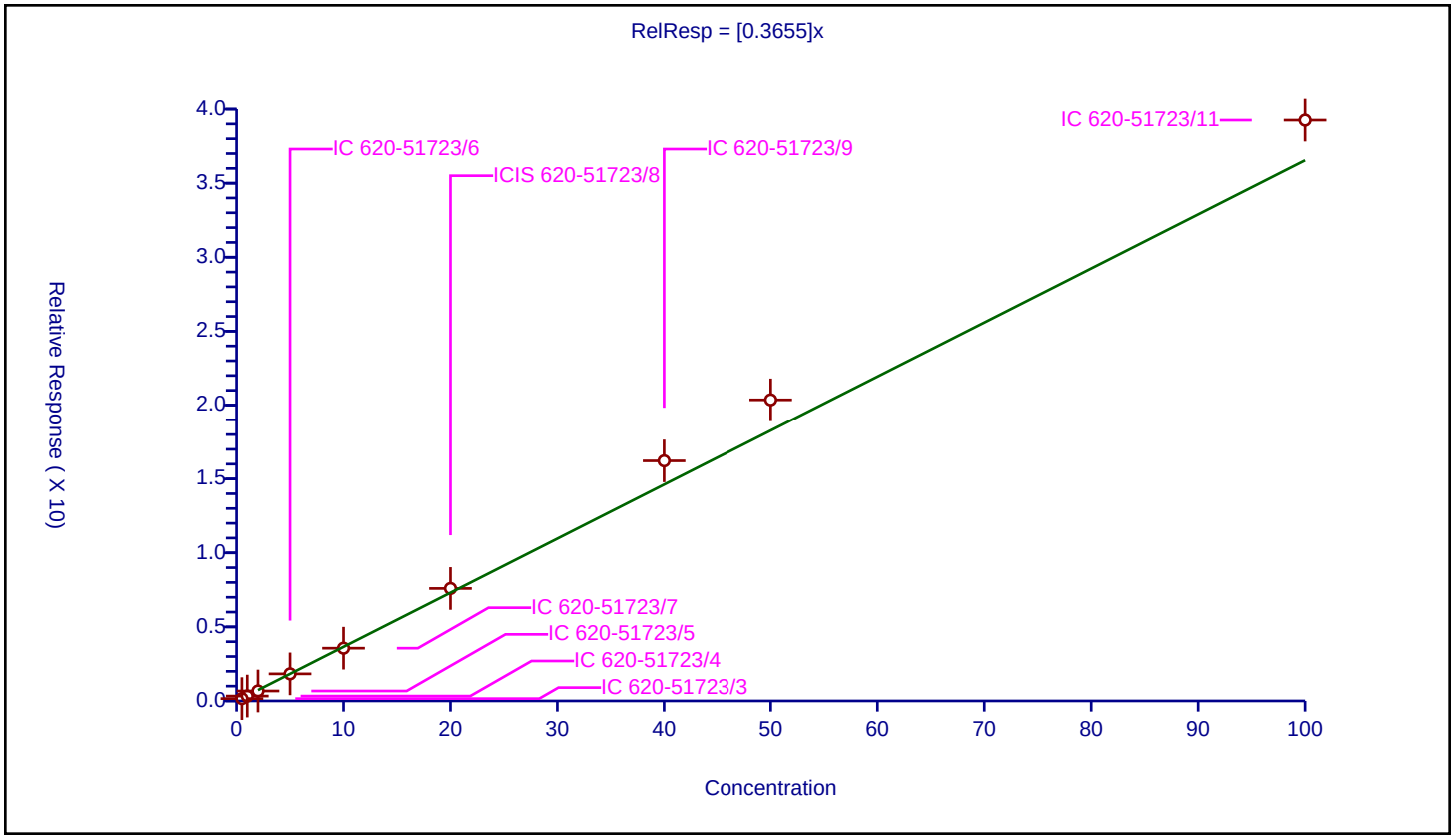
Curve Coefficients

Intercept:	0
Slope:	0.3655

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.15821	50.0	367866.0	0.31642	Y
2	IC 620-51723/4	1.0	0.329474	50.0	363913.0	0.329474	Y
3	IC 620-51723/5	2.0	0.672181	50.0	355782.0	0.336091	Y
4	IC 620-51723/6	5.0	1.828975	50.0	360065.0	0.365795	Y
5	IC 620-51723/7	10.0	3.563472	50.0	347414.0	0.356347	Y
6	ICIS 620-51723/8	20.0	7.595974	50.0	346631.0	0.379799	Y
7	IC 620-51723/9	40.0	16.221577	50.0	352663.0	0.405539	Y
8	IC 620-51723/10	50.0	20.355186	50.0	364767.0	0.407104	Y
9	IC 620-51723/11	100.0	39.258071	50.0	383069.0	0.392581	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

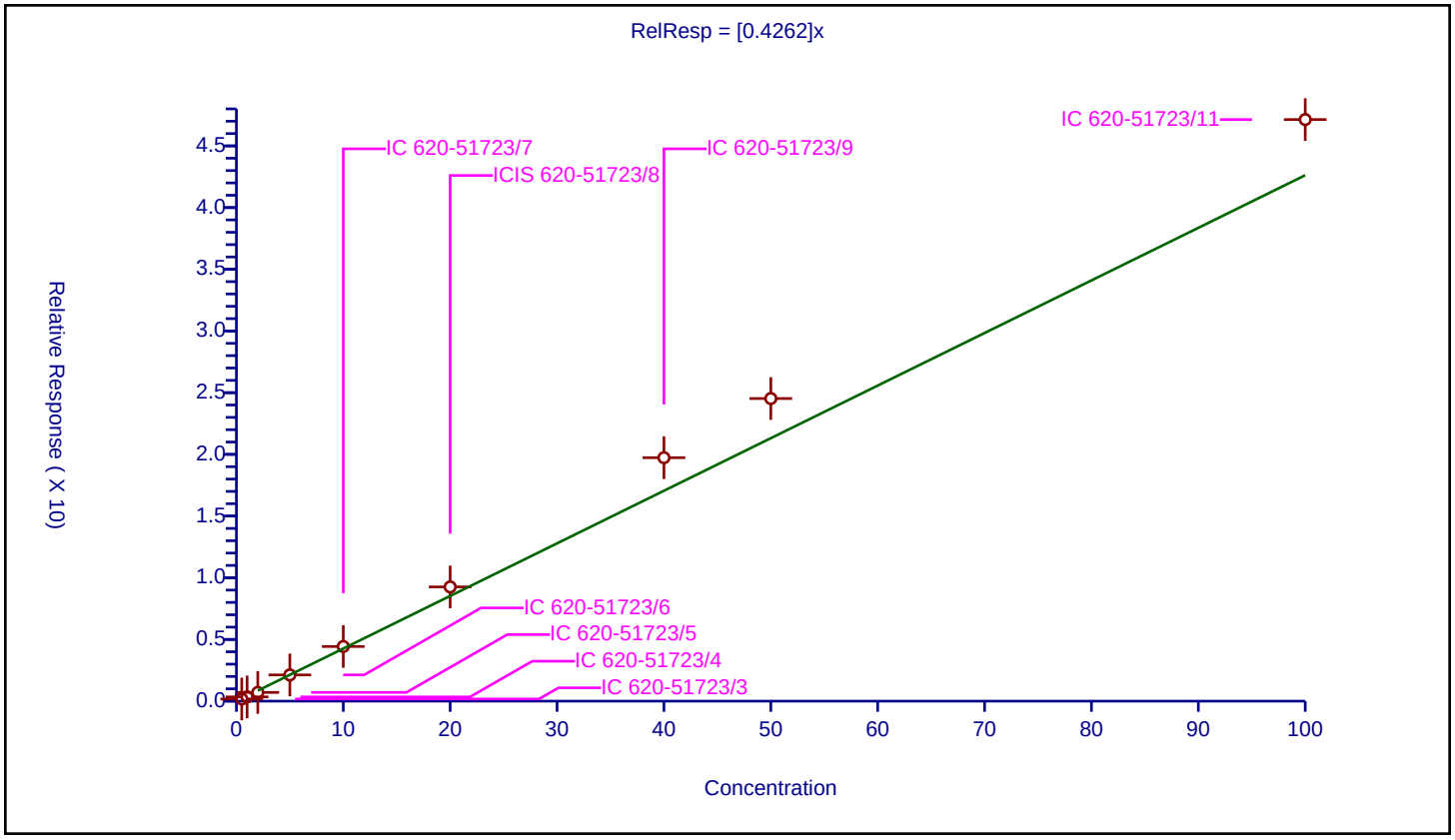
Curve Coefficients

Intercept:	0
Slope:	0.4262

Error Coefficients

Relative Standard Deviation:	14.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.176287	50.0	367866.0	0.352574	Y
2	IC 620-51723/4	1.0	0.344588	50.0	363913.0	0.344588	Y
3	IC 620-51723/5	2.0	0.706191	50.0	355782.0	0.353095	Y
4	IC 620-51723/6	5.0	2.124339	50.0	360065.0	0.424868	Y
5	IC 620-51723/7	10.0	4.429154	50.0	347414.0	0.442915	Y
6	ICIS 620-51723/8	20.0	9.257395	50.0	346631.0	0.46287	Y
7	IC 620-51723/9	40.0	19.730167	50.0	352663.0	0.493254	Y
8	IC 620-51723/10	50.0	24.525656	50.0	364767.0	0.490513	Y
9	IC 620-51723/11	100.0	47.13485	50.0	383069.0	0.471349	Y



8/20/2025
8:44:38 PM

Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

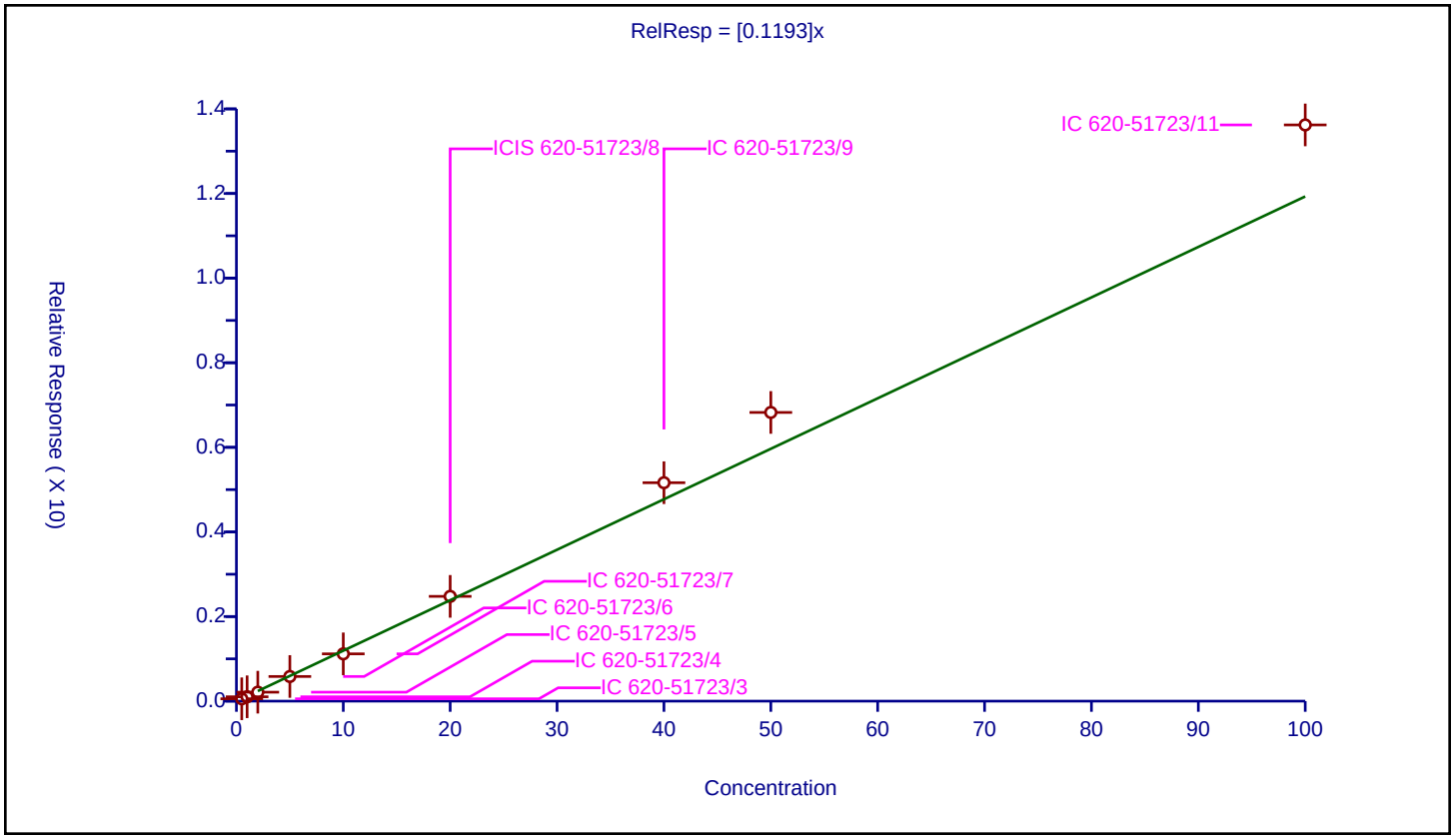
Curve Coefficients

Intercept:	0
Slope:	0.1193

Error Coefficients

Relative Standard Deviation:	10.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.055455	50.0	367866.0	0.11091	Y
2	IC 620-51723/4	1.0	0.103047	50.0	363913.0	0.103047	Y
3	IC 620-51723/5	2.0	0.211646	50.0	355782.0	0.105823	Y
4	IC 620-51723/6	5.0	0.582534	50.0	360065.0	0.116507	Y
5	IC 620-51723/7	10.0	1.117975	50.0	347414.0	0.111797	Y
6	ICIS 620-51723/8	20.0	2.476553	50.0	346631.0	0.123828	Y
7	IC 620-51723/9	40.0	5.16357	50.0	352663.0	0.129089	Y
8	IC 620-51723/10	50.0	6.824631	50.0	364767.0	0.136493	Y
9	IC 620-51723/11	100.0	13.620914	50.0	383069.0	0.136209	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

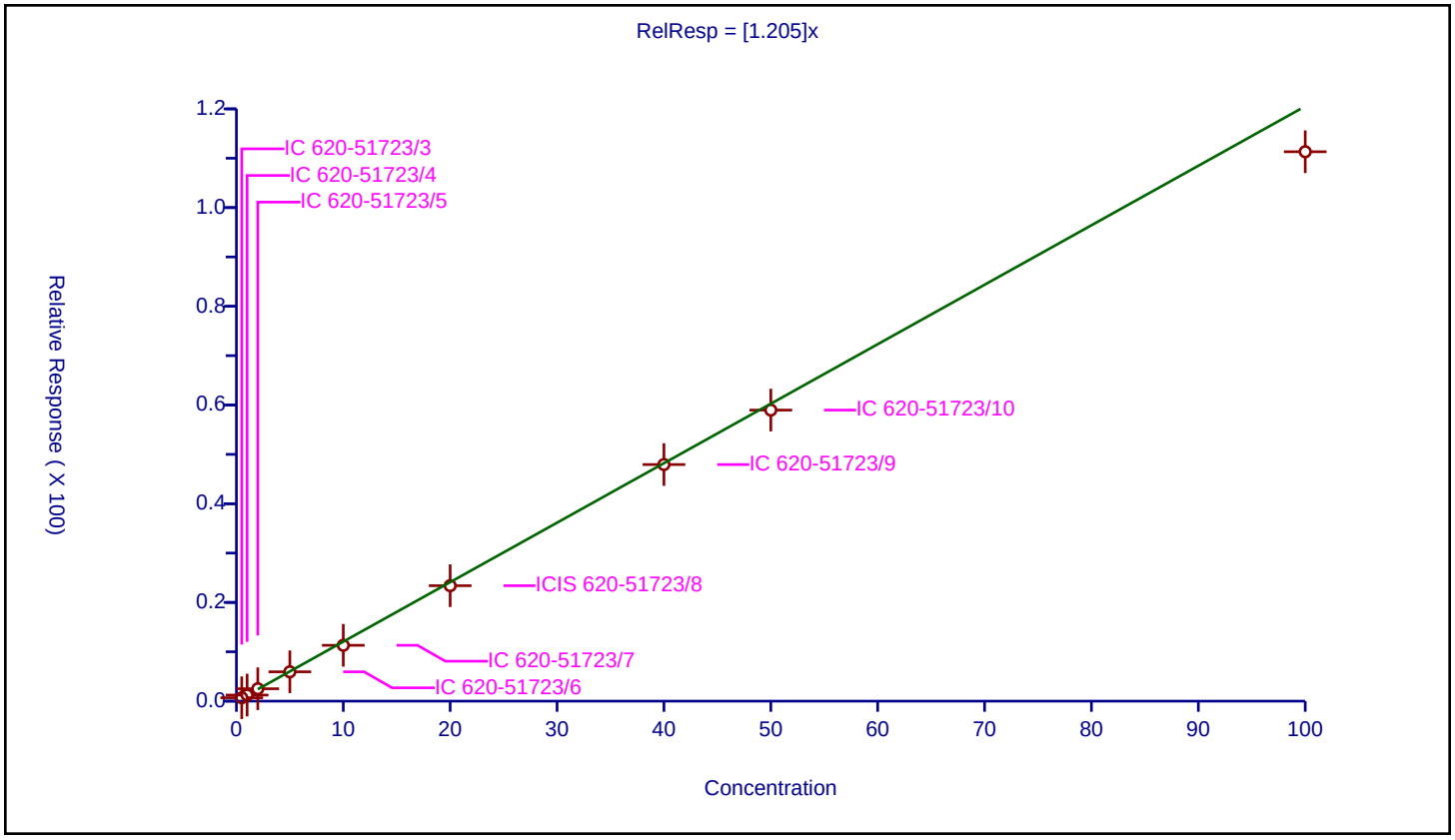
Curve Coefficients

Intercept:	0
Slope:	1.205

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.687886	50.0	367866.0	1.375773	Y
2	IC 620-51723/4	1.0	1.234636	50.0	363913.0	1.234636	Y
3	IC 620-51723/5	2.0	2.510667	50.0	355782.0	1.255333	Y
4	IC 620-51723/6	5.0	5.945871	50.0	360065.0	1.189174	Y
5	IC 620-51723/7	10.0	11.315462	50.0	347414.0	1.131546	Y
6	ICIS 620-51723/8	20.0	23.391734	50.0	346631.0	1.169587	Y
7	IC 620-51723/9	40.0	47.939109	50.0	352663.0	1.198478	Y
8	IC 620-51723/10	50.0	58.971206	50.0	364767.0	1.179424	Y
9	IC 620-51723/11	100.0	111.317674	50.0	383069.0	1.113177	Y



8/20/2025
8:44:38 PM

Calibration / Tert-amyl methyl ether

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

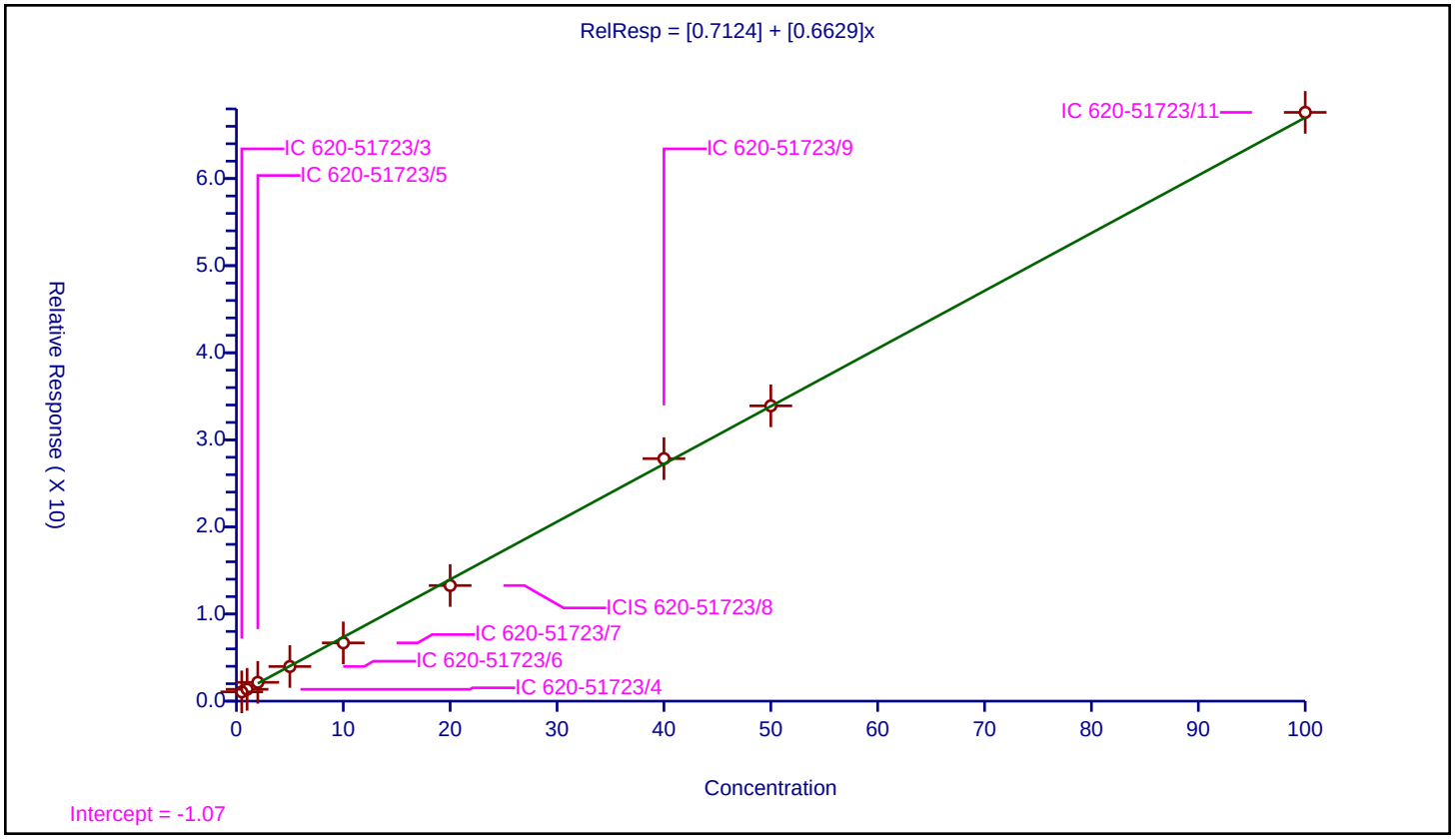
Curve Coefficients

Intercept:	0.7124
Slope:	0.6629

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	1.064926	50.0	367866.0	2.129852	Y
2	IC 620-51723/4	1.0	1.36049	50.0	363913.0	1.36049	Y
3	IC 620-51723/5	2.0	2.158063	50.0	355782.0	1.079032	Y
4	IC 620-51723/6	5.0	3.976365	50.0	360065.0	0.795273	Y
5	IC 620-51723/7	10.0	6.689137	50.0	347414.0	0.668914	Y
6	ICIS 620-51723/8	20.0	13.277808	50.0	346631.0	0.66389	Y
7	IC 620-51723/9	40.0	27.844429	50.0	352663.0	0.696111	Y
8	IC 620-51723/10	50.0	33.906439	50.0	364767.0	0.678129	Y
9	IC 620-51723/11	100.0	67.600093	50.0	383069.0	0.676001	Y



8/20/2025
8:44:38 PM

Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

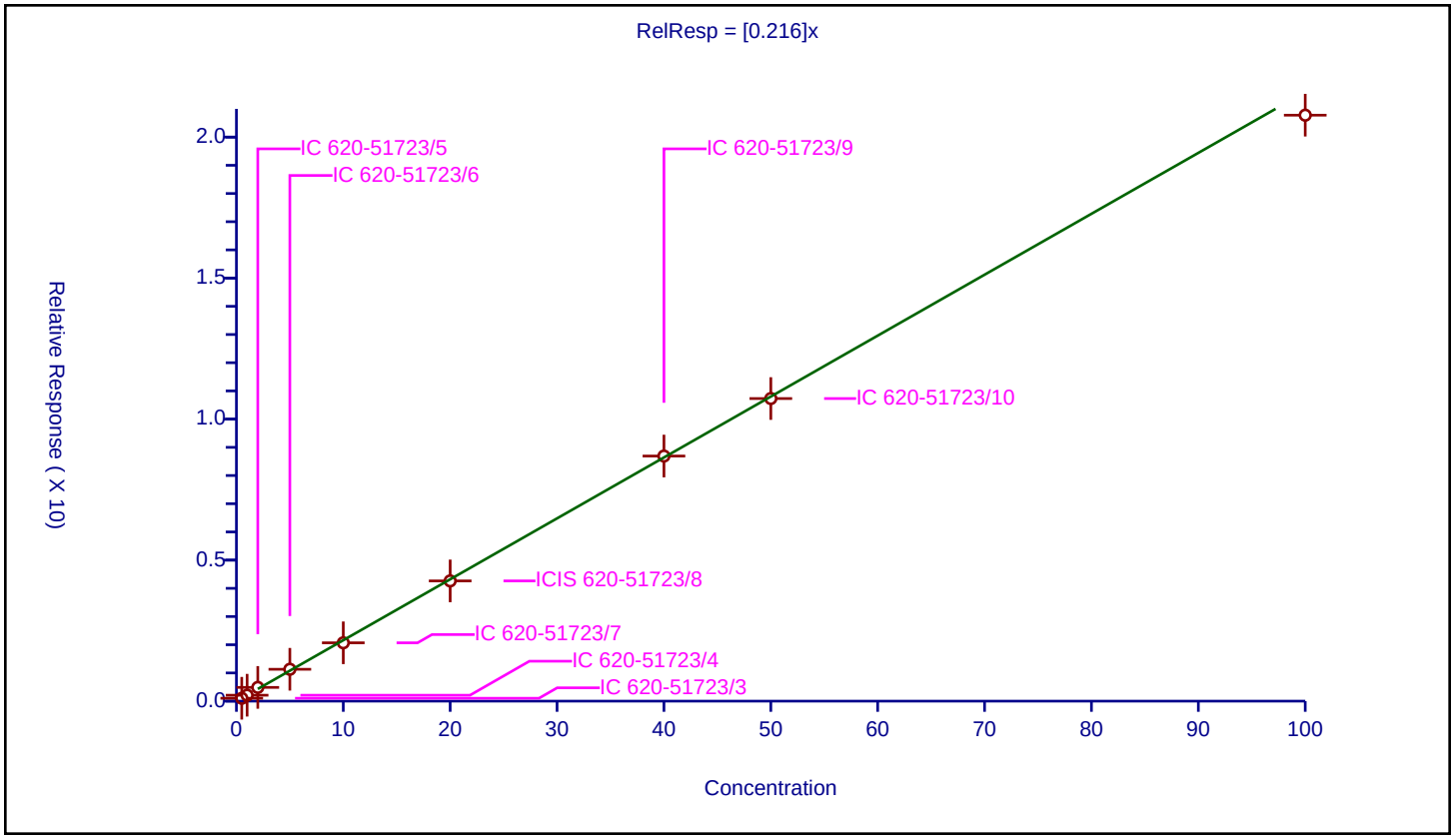
Curve Coefficients

Intercept:	0
Slope:	0.216

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.102483	50.0	367866.0	0.204966	Y
2	IC 620-51723/4	1.0	0.20994	50.0	363913.0	0.20994	Y
3	IC 620-51723/5	2.0	0.486674	50.0	355782.0	0.243337	Y
4	IC 620-51723/6	5.0	1.130213	50.0	360065.0	0.226043	Y
5	IC 620-51723/7	10.0	2.068569	50.0	347414.0	0.206857	Y
6	ICIS 620-51723/8	20.0	4.263756	50.0	346631.0	0.213188	Y
7	IC 620-51723/9	40.0	8.690733	50.0	352663.0	0.217268	Y
8	IC 620-51723/10	50.0	10.730137	50.0	364767.0	0.214603	Y
9	IC 620-51723/11	100.0	20.776936	50.0	383069.0	0.207769	Y



8/20/2025
8:44:38 PM

Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

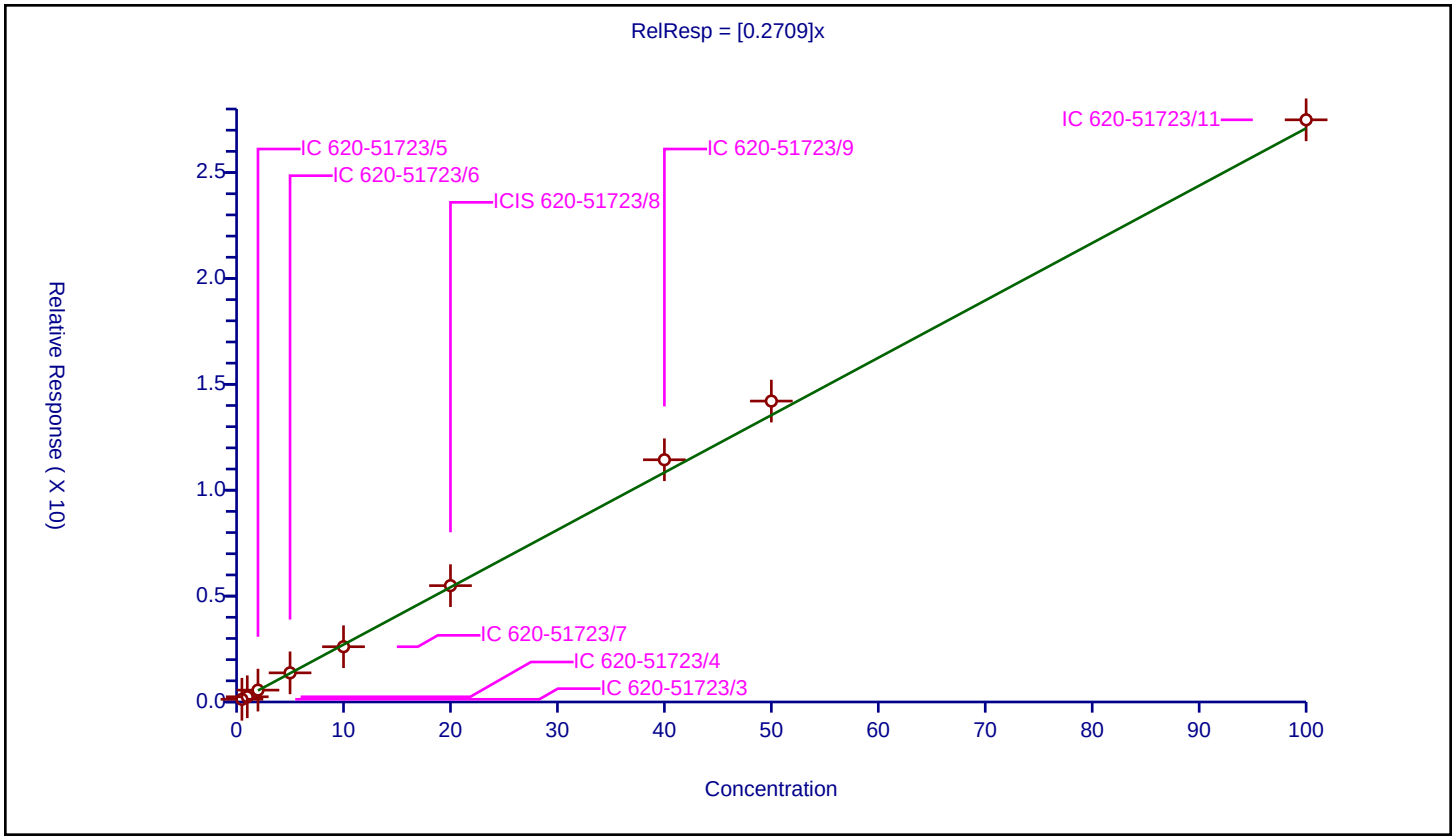
Curve Coefficients

Intercept:	0
Slope:	0.2709

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.127764	50.0	367866.0	0.255528	Y
2	IC 620-51723/4	1.0	0.24635	50.0	363913.0	0.24635	Y
3	IC 620-51723/5	2.0	0.560737	50.0	355782.0	0.280368	Y
4	IC 620-51723/6	5.0	1.375168	50.0	360065.0	0.275034	Y
5	IC 620-51723/7	10.0	2.609279	50.0	347414.0	0.260928	Y
6	ICIS 620-51723/8	20.0	5.495037	50.0	346631.0	0.274752	Y
7	IC 620-51723/9	40.0	11.437548	50.0	352663.0	0.285939	Y
8	IC 620-51723/10	50.0	14.209345	50.0	364767.0	0.284187	Y
9	IC 620-51723/11	100.0	27.490217	50.0	383069.0	0.274902	Y



8/20/2025
8:44:38 PM

Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

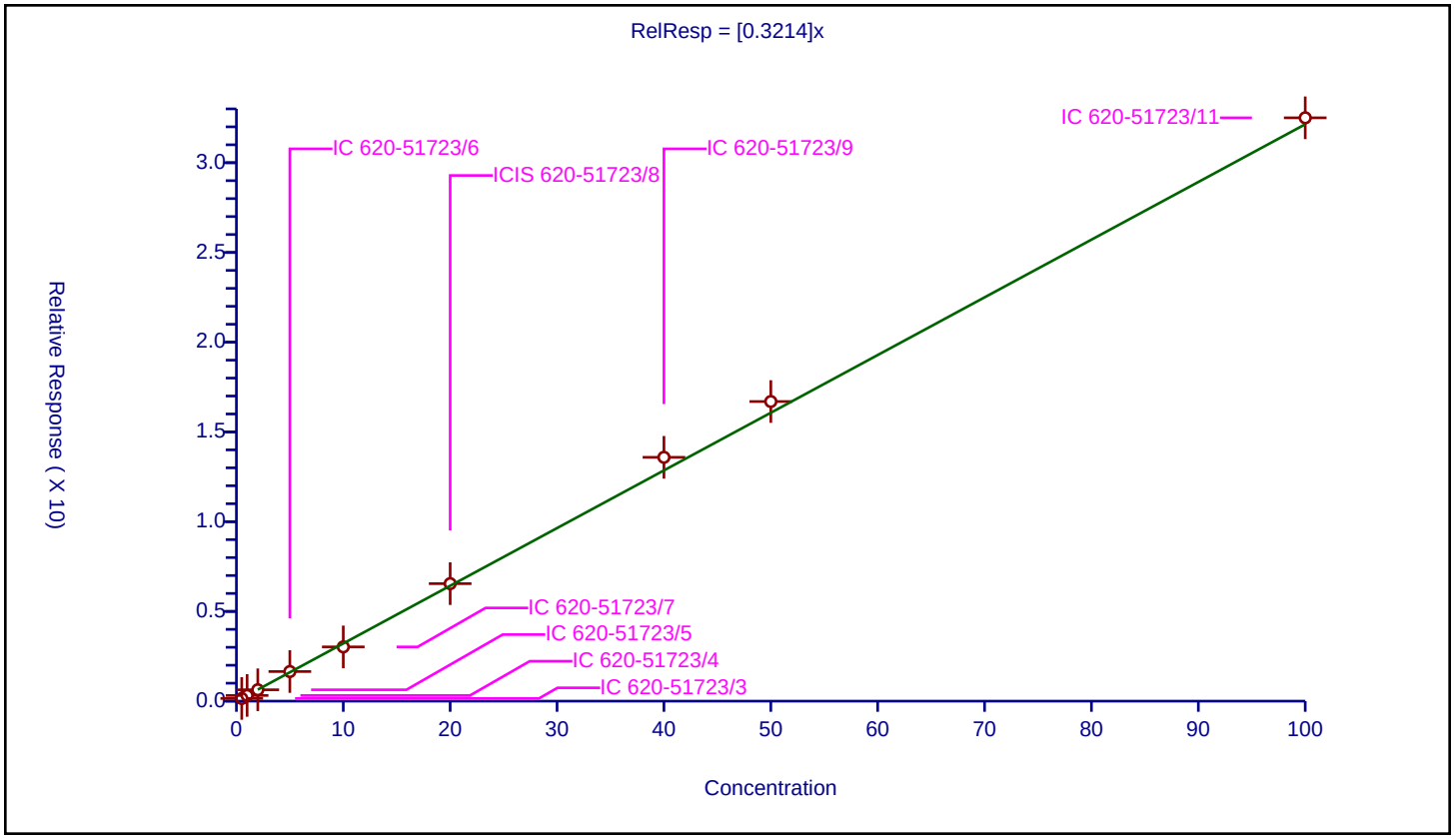
Curve Coefficients

Intercept:	0
Slope:	0.3214

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.150055	50.0	367866.0	0.300109	Y
2	IC 620-51723/4	1.0	0.317521	50.0	363913.0	0.317521	Y
3	IC 620-51723/5	2.0	0.633675	50.0	355782.0	0.316837	Y
4	IC 620-51723/6	5.0	1.64998	50.0	360065.0	0.329996	Y
5	IC 620-51723/7	10.0	3.022906	50.0	347414.0	0.302291	Y
6	ICIS 620-51723/8	20.0	6.54702	50.0	346631.0	0.327351	Y
7	IC 620-51723/9	40.0	13.586058	50.0	352663.0	0.339651	Y
8	IC 620-51723/10	50.0	16.694493	50.0	364767.0	0.33389	Y
9	IC 620-51723/11	100.0	32.502761	50.0	383069.0	0.325028	Y



8/20/2025
8:44:38 PM

Calibration / Dichlorobromomethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

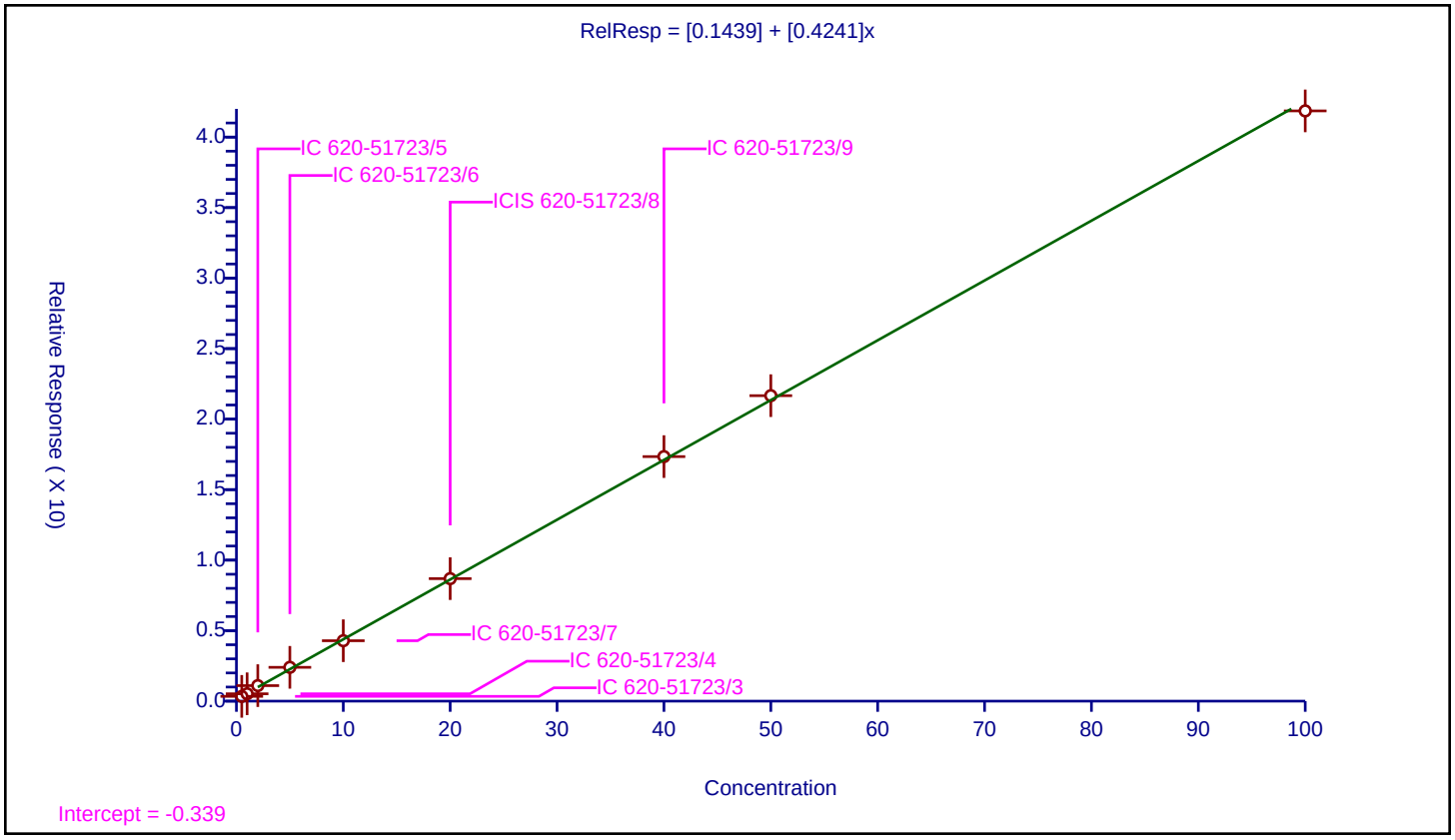
Curve Coefficients

Intercept:	0.1439
Slope:	0.4241

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.33939	50.0	367866.0	0.67878	Y
2	IC 620-51723/4	1.0	0.521965	50.0	363913.0	0.521965	Y
3	IC 620-51723/5	2.0	1.100252	50.0	355782.0	0.550126	Y
4	IC 620-51723/6	5.0	2.398039	50.0	360065.0	0.479608	Y
5	IC 620-51723/7	10.0	4.285089	50.0	347414.0	0.428509	Y
6	ICIS 620-51723/8	20.0	8.688202	50.0	346631.0	0.43441	Y
7	IC 620-51723/9	40.0	17.342619	50.0	352663.0	0.433565	Y
8	IC 620-51723/10	50.0	21.663829	50.0	364767.0	0.433277	Y
9	IC 620-51723/11	100.0	41.857994	50.0	383069.0	0.41858	Y



8/20/2025
8:44:38 PM

Calibration / 1,4-Dioxane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

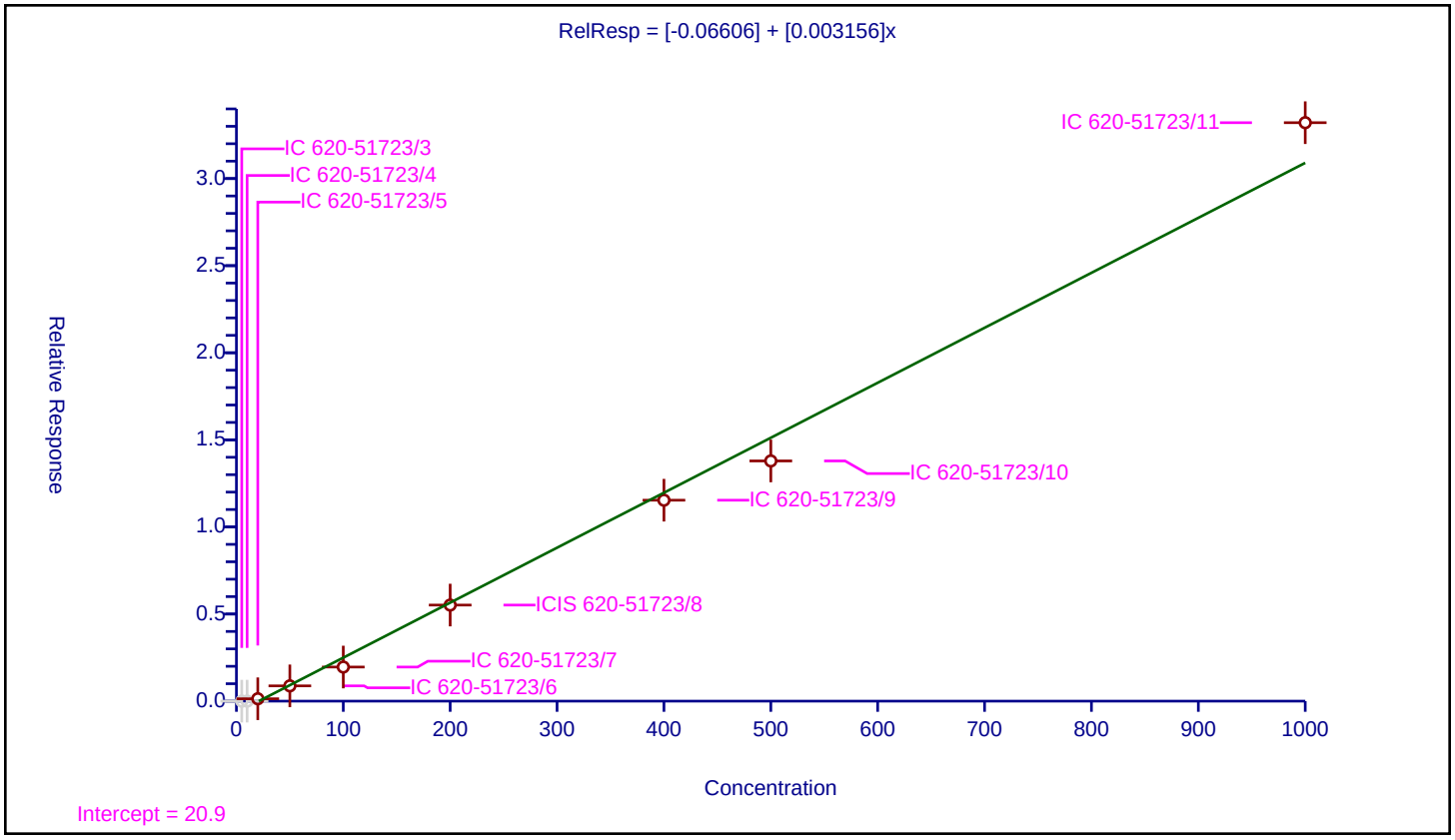
Curve Coefficients

Intercept:	-0.06606
Slope:	0.003156

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	5.0	0.0	50.0	367866.0	0.0	N
2	IC 620-51723/4	10.0	0.0	50.0	363913.0	0.0	N
3	IC 620-51723/5	20.0	0.013632	50.0	355782.0	0.000682	Y
4	IC 620-51723/6	50.0	0.087762	50.0	360065.0	0.001755	Y
5	IC 620-51723/7	100.0	0.195732	50.0	347414.0	0.001957	Y
6	ICIS 620-51723/8	200.0	0.551595	50.0	346631.0	0.002758	Y
7	IC 620-51723/9	400.0	1.153509	50.0	352663.0	0.002884	Y
8	IC 620-51723/10	500.0	1.378962	50.0	364767.0	0.002758	Y
9	IC 620-51723/11	1000.0	3.320812	50.0	383069.0	0.003321	Y



8/20/2025
8:44:38 PM

Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

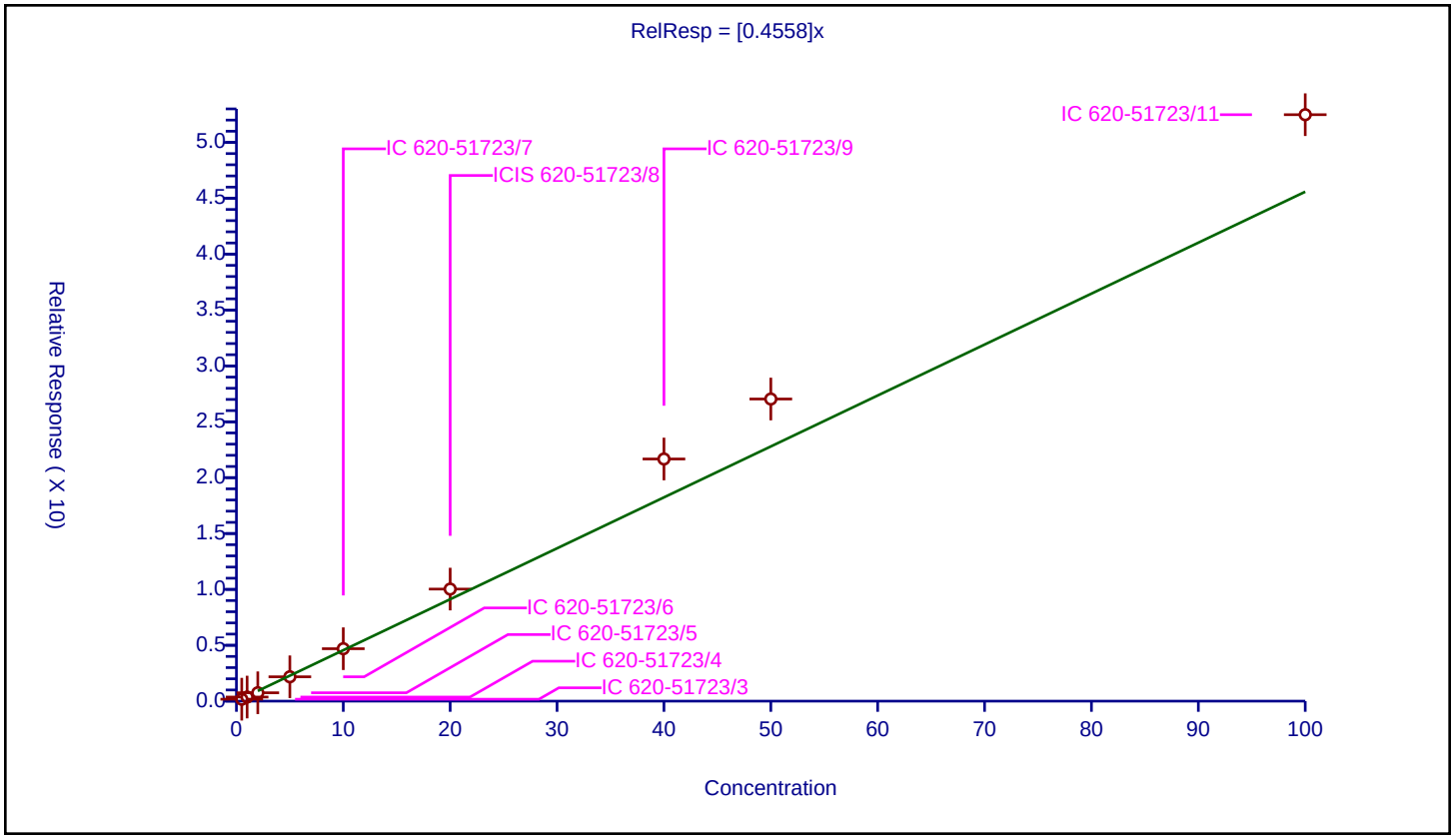
Curve Coefficients

Intercept:	0
Slope:	0.4558

Error Coefficients

Relative Standard Deviation:	17.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.173976	50.0	367866.0	0.347953	Y
2	IC 620-51723/4	1.0	0.365609	50.0	363913.0	0.365609	Y
3	IC 620-51723/5	2.0	0.75046	50.0	355782.0	0.37523	Y
4	IC 620-51723/6	5.0	2.179468	50.0	360065.0	0.435894	Y
5	IC 620-51723/7	10.0	4.692384	50.0	347414.0	0.469238	Y
6	ICIS 620-51723/8	20.0	10.028532	50.0	346631.0	0.501427	Y
7	IC 620-51723/9	40.0	21.66998	50.0	352663.0	0.541749	Y
8	IC 620-51723/10	50.0	27.036437	50.0	364767.0	0.540729	Y
9	IC 620-51723/11	100.0	52.480754	50.0	383069.0	0.524808	Y



8/20/2025
8:44:38 PM

Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

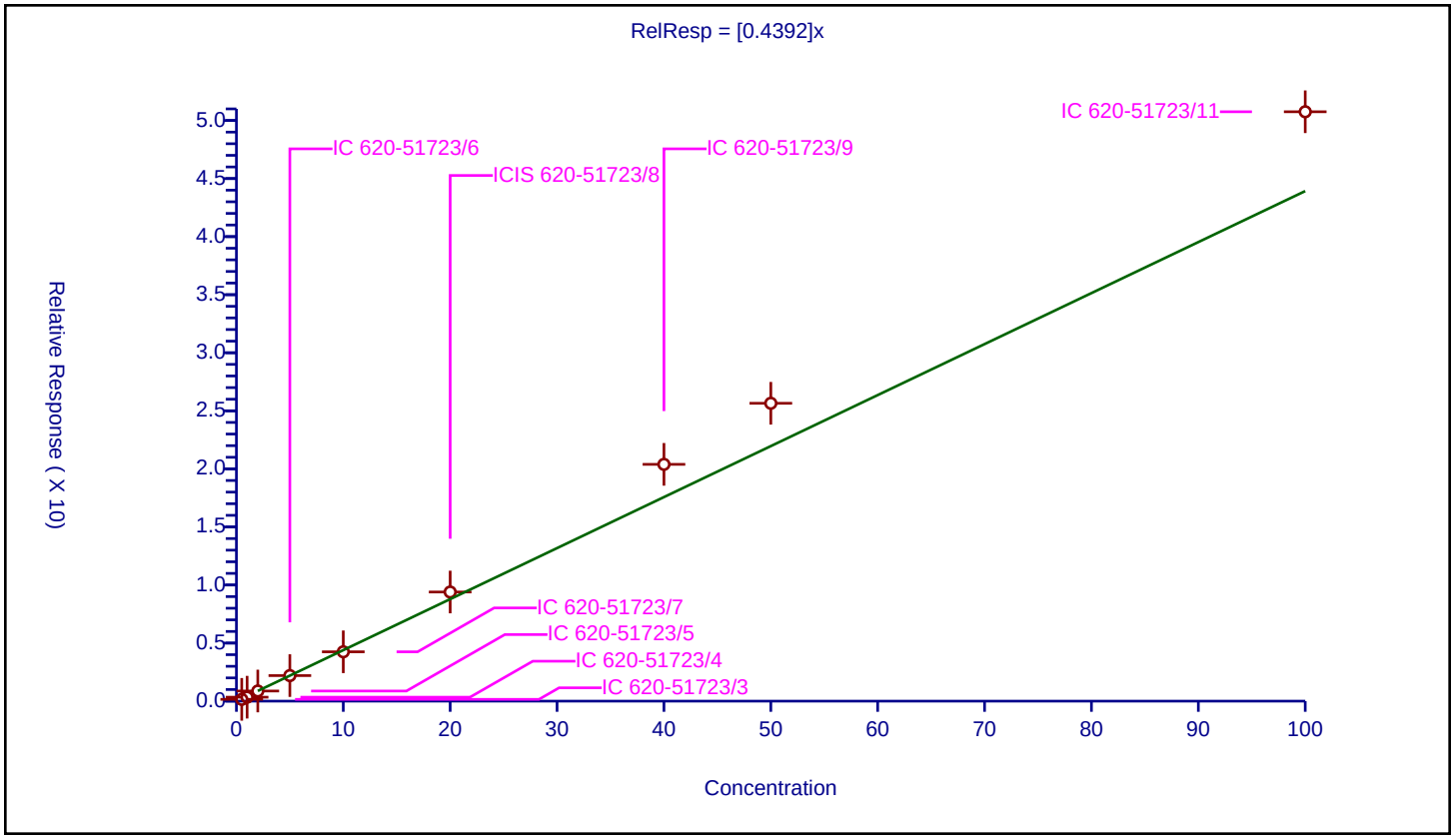
Curve Coefficients

Intercept:	0
Slope:	0.4392

Error Coefficients

Relative Standard Deviation:	16.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.154812	50.0	367866.0	0.309624	Y
2	IC 620-51723/4	1.0	0.341153	50.0	363913.0	0.341153	Y
3	IC 620-51723/5	2.0	0.873709	50.0	355782.0	0.436855	Y
4	IC 620-51723/6	5.0	2.201686	50.0	360065.0	0.440337	Y
5	IC 620-51723/7	10.0	4.248677	50.0	347414.0	0.424868	Y
6	ICIS 620-51723/8	20.0	9.397025	50.0	346631.0	0.469851	Y
7	IC 620-51723/9	40.0	20.389862	50.0	352663.0	0.509747	Y
8	IC 620-51723/10	50.0	25.65021	50.0	364767.0	0.513004	Y
9	IC 620-51723/11	100.0	50.751431	50.0	383069.0	0.507514	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

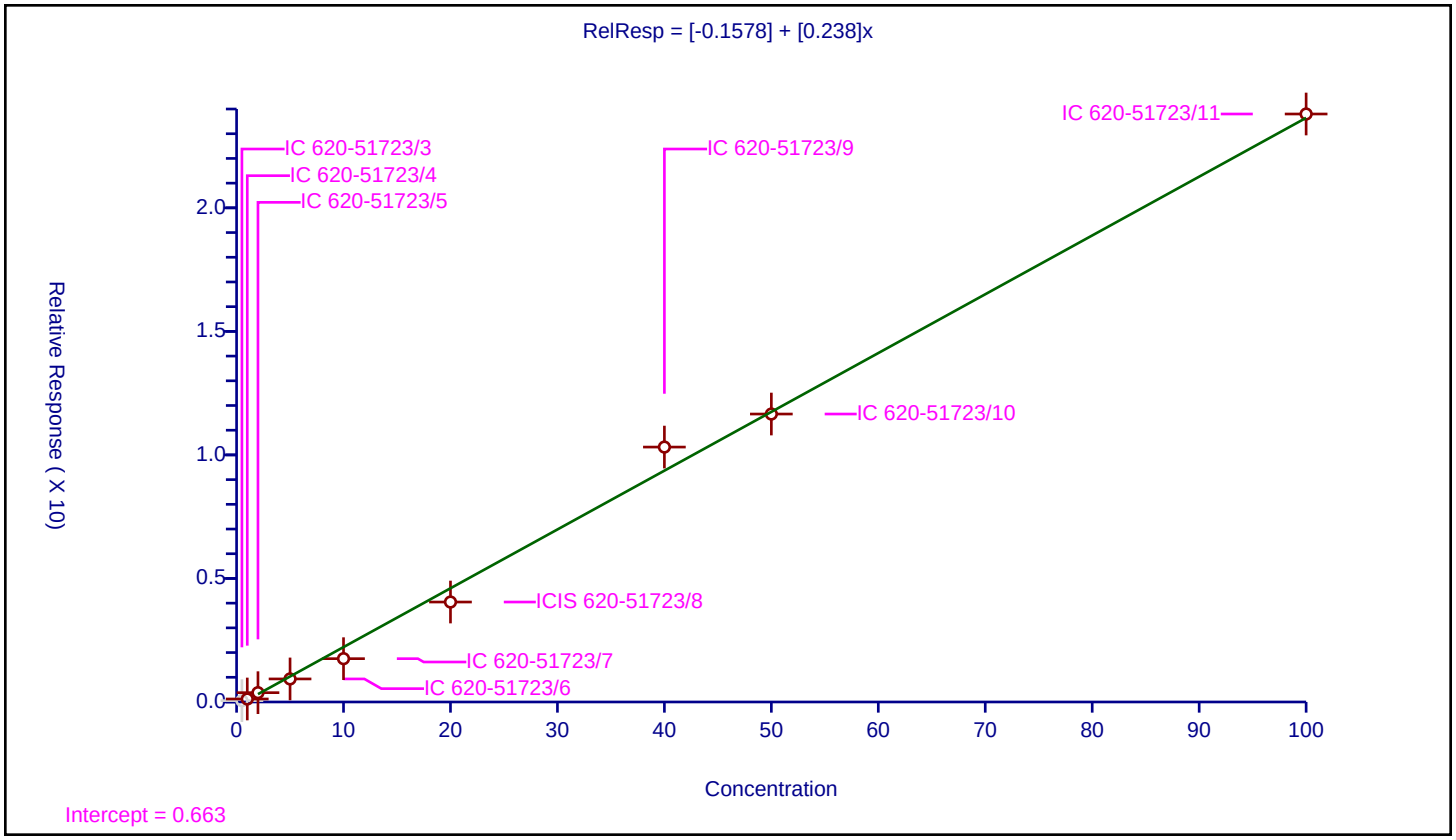
Curve Coefficients

Intercept:	-0.1578
Slope:	0.238

Error Coefficients

Relative Standard Deviation:	13.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.054639	50.0	367866.0	0.109279	N
2	IC 620-51723/4	1.0	0.121732	50.0	363913.0	0.121732	Y
3	IC 620-51723/5	2.0	0.376776	50.0	355782.0	0.188388	Y
4	IC 620-51723/6	5.0	0.933026	50.0	360065.0	0.186605	Y
5	IC 620-51723/7	10.0	1.752952	50.0	347414.0	0.175295	Y
6	ICIS 620-51723/8	20.0	4.046089	50.0	346631.0	0.202304	Y
7	IC 620-51723/9	40.0	10.317215	50.0	352663.0	0.25793	Y
8	IC 620-51723/10	50.0	11.655248	50.0	364767.0	0.233105	Y
9	IC 620-51723/11	100.0	23.798324	50.0	383069.0	0.237983	Y



8/20/2025
8:44:38 PM

Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

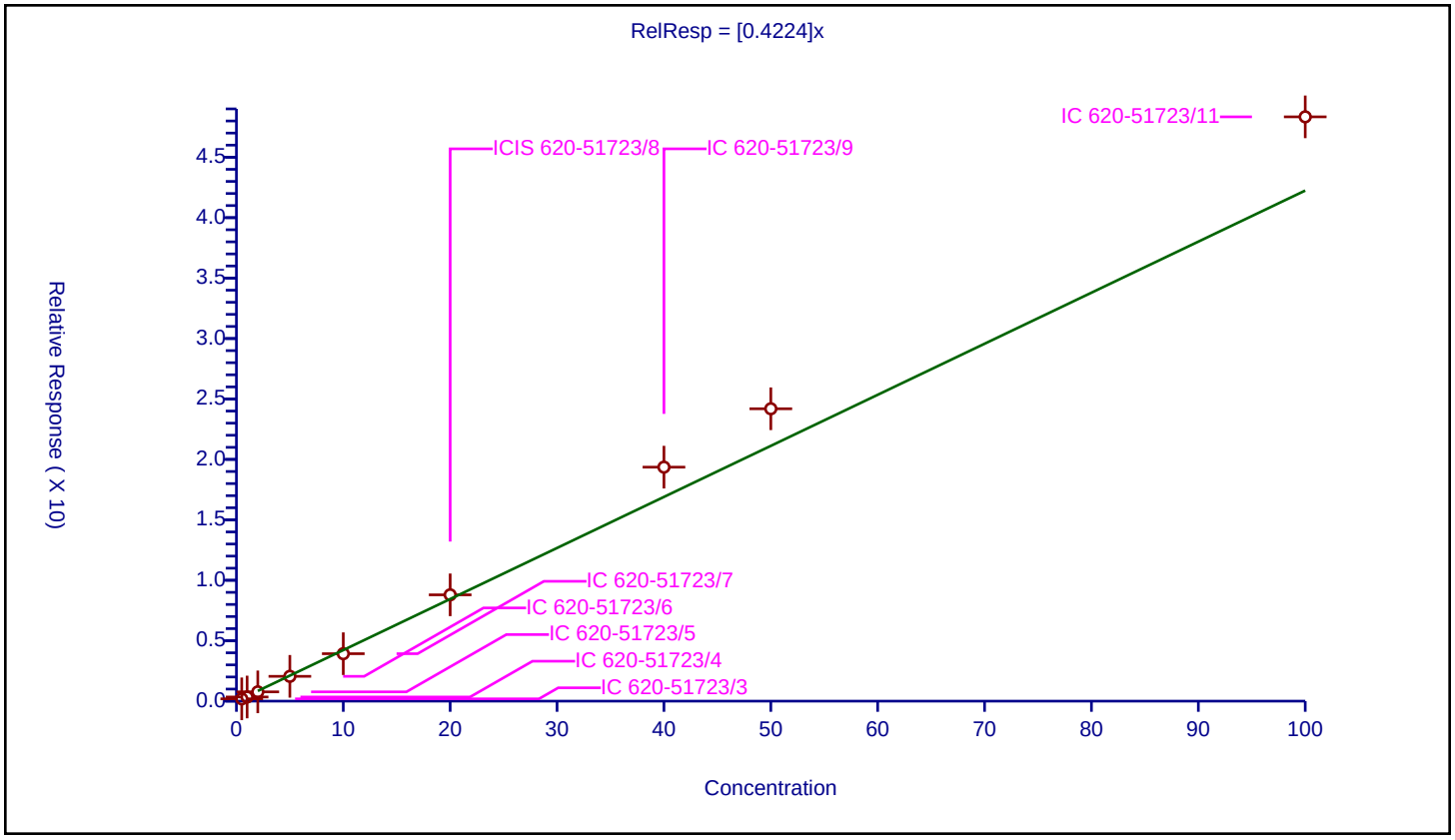
Curve Coefficients

Intercept:	0
Slope:	0.4224

Error Coefficients

Relative Standard Deviation:	12.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.190559	50.0	367866.0	0.381117	Y
2	IC 620-51723/4	1.0	0.34239	50.0	363913.0	0.34239	Y
3	IC 620-51723/5	2.0	0.768589	50.0	355782.0	0.384294	Y
4	IC 620-51723/6	5.0	2.051852	50.0	360065.0	0.41037	Y
5	IC 620-51723/7	10.0	3.926439	50.0	347414.0	0.392644	Y
6	ICIS 620-51723/8	20.0	8.794655	50.0	346631.0	0.439733	Y
7	IC 620-51723/9	40.0	19.360409	50.0	352663.0	0.48401	Y
8	IC 620-51723/10	50.0	24.189825	50.0	364767.0	0.483797	Y
9	IC 620-51723/11	100.0	48.341552	50.0	383069.0	0.483416	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

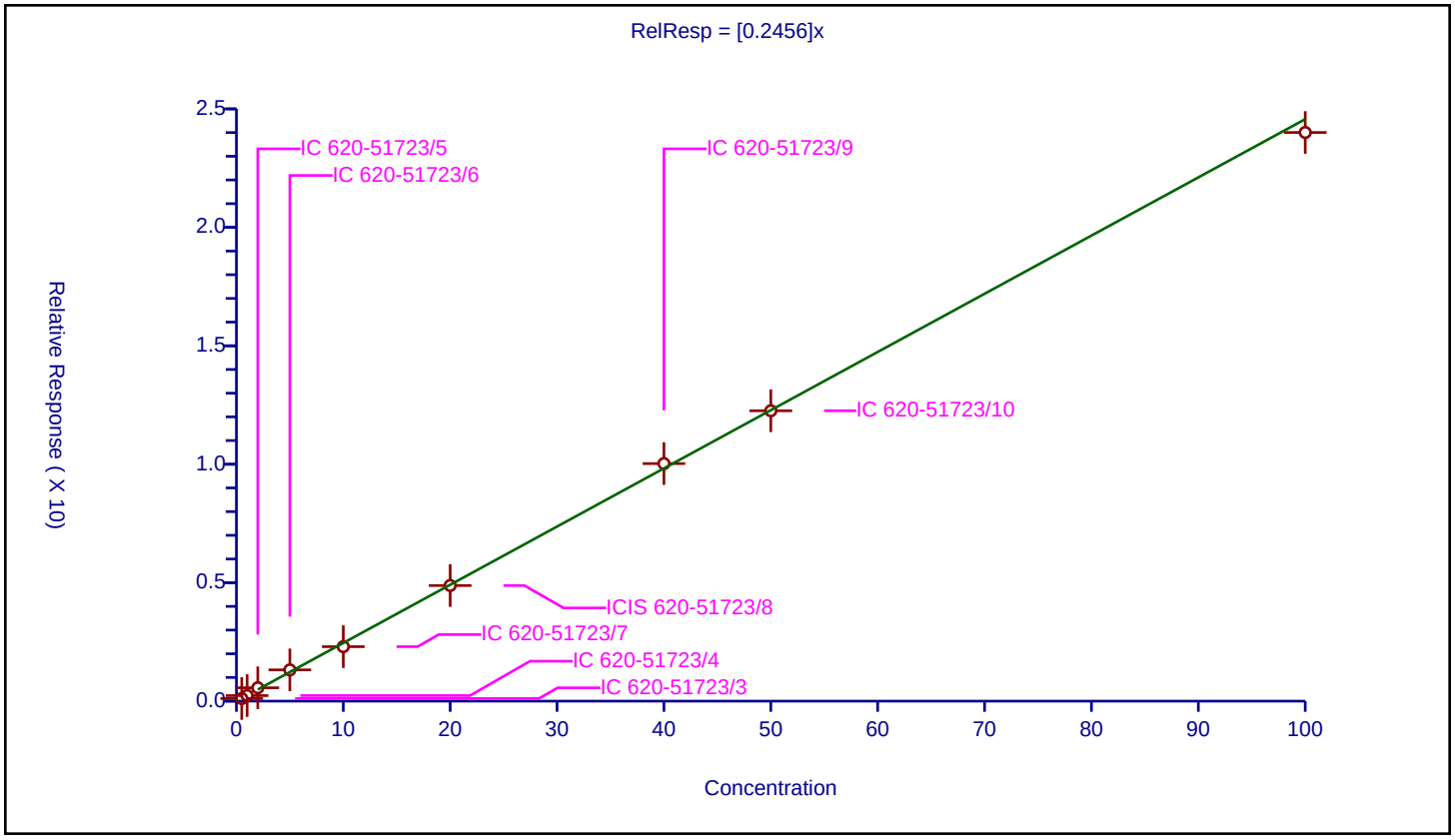
Curve Coefficients

Intercept:	0
Slope:	0.2456

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.11023	50.0	367866.0	0.220461	Y
2	IC 620-51723/4	1.0	0.234809	50.0	363913.0	0.234809	Y
3	IC 620-51723/5	2.0	0.563547	50.0	355782.0	0.281774	Y
4	IC 620-51723/6	5.0	1.319484	50.0	360065.0	0.263897	Y
5	IC 620-51723/7	10.0	2.299994	50.0	347414.0	0.229999	Y
6	ICIS 620-51723/8	20.0	4.880262	50.0	346631.0	0.244013	Y
7	IC 620-51723/9	40.0	10.028129	50.0	352663.0	0.250703	Y
8	IC 620-51723/10	50.0	12.257414	50.0	364767.0	0.245148	Y
9	IC 620-51723/11	100.0	24.004161	50.0	383069.0	0.240042	Y



8/20/2025
8:44:38 PM

Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

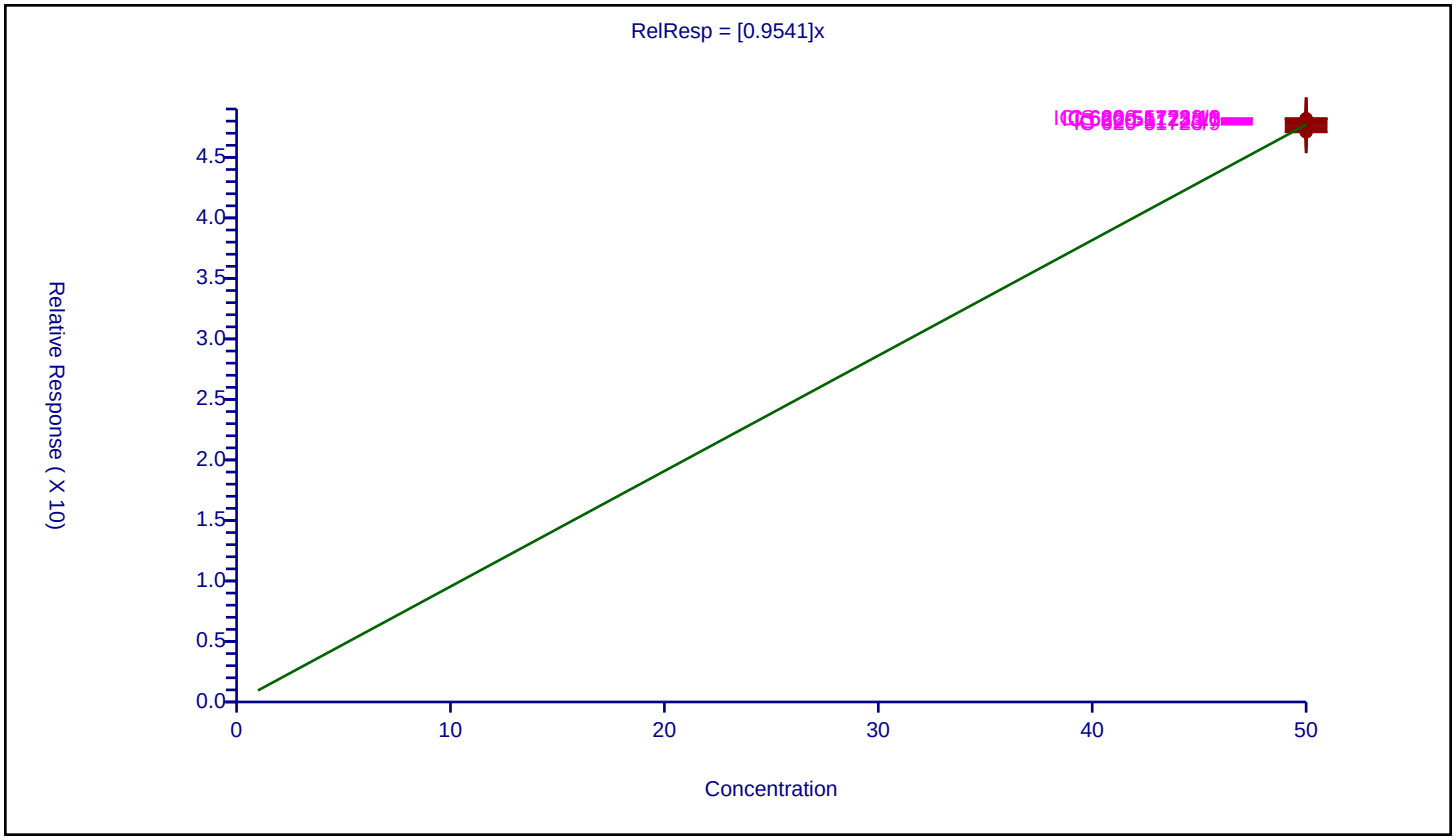
Curve Coefficients

Intercept:	0
Slope:	0.9541

Error Coefficients

Relative Standard Deviation:	0.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	50.0	47.108322	50.0	367866.0	0.942166	Y
2	IC 620-51723/4	50.0	47.150555	50.0	363913.0	0.943011	Y
3	IC 620-51723/5	50.0	47.375359	50.0	355782.0	0.947507	Y
4	IC 620-51723/6	50.0	47.554747	50.0	360065.0	0.951095	Y
5	IC 620-51723/7	50.0	47.899768	50.0	347414.0	0.957995	Y
6	ICIS 620-51723/8	50.0	48.193612	50.0	346631.0	0.963872	Y
7	IC 620-51723/9	50.0	47.744731	50.0	352663.0	0.954895	Y
8	IC 620-51723/10	50.0	48.193504	50.0	364767.0	0.96387	Y
9	IC 620-51723/11	50.0	48.105955	50.0	383069.0	0.962119	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

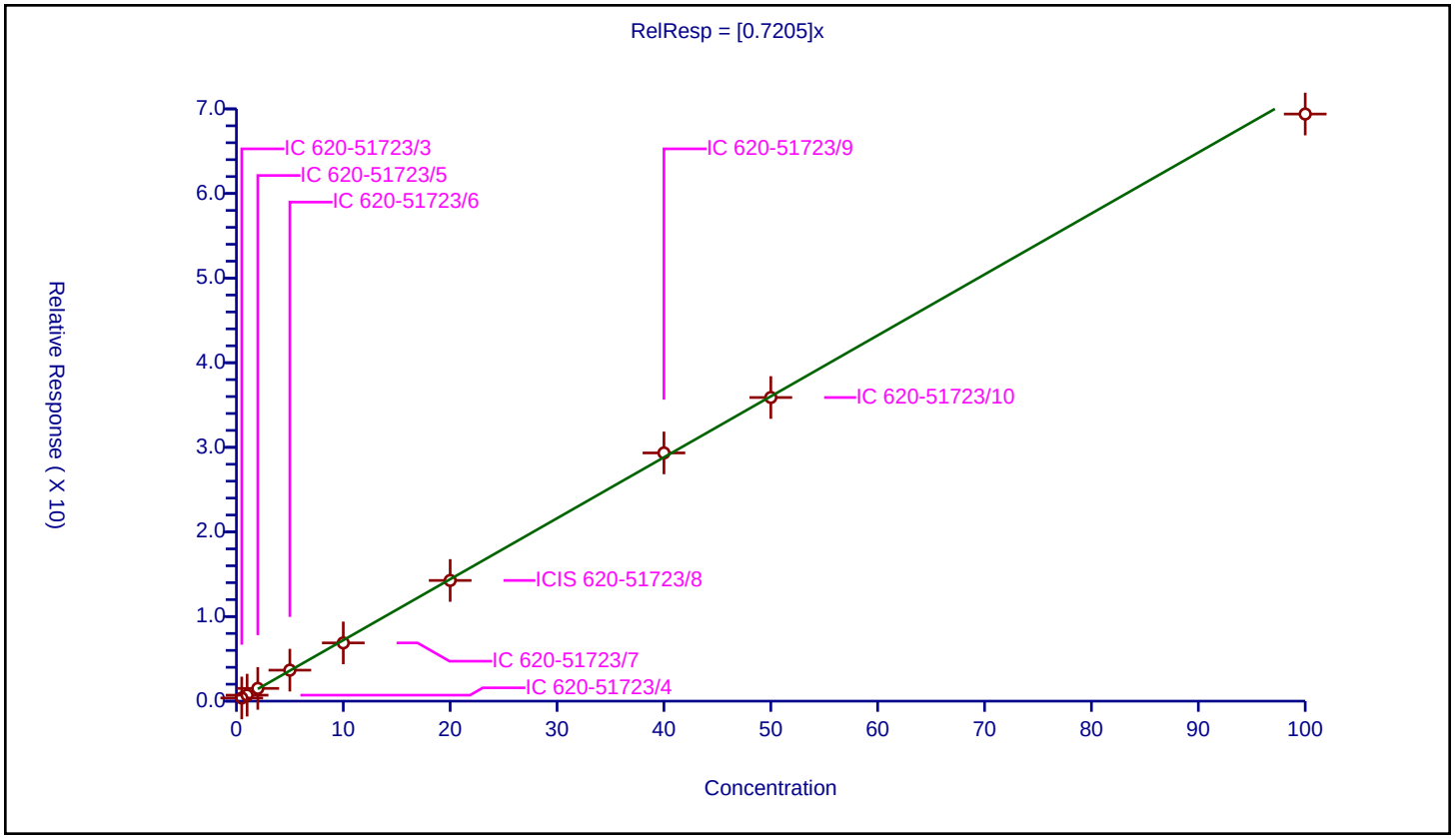
Curve Coefficients

Intercept:	0
Slope:	0.7205

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.371467	50.0	367866.0	0.742934	Y
2	IC 620-51723/4	1.0	0.707861	50.0	363913.0	0.707861	Y
3	IC 620-51723/5	2.0	1.507805	50.0	355782.0	0.753903	Y
4	IC 620-51723/6	5.0	3.663089	50.0	360065.0	0.732618	Y
5	IC 620-51723/7	10.0	6.883862	50.0	347414.0	0.688386	Y
6	ICIS 620-51723/8	20.0	14.264448	50.0	346631.0	0.713222	Y
7	IC 620-51723/9	40.0	29.337781	50.0	352663.0	0.733445	Y
8	IC 620-51723/10	50.0	35.889897	50.0	364767.0	0.717798	Y
9	IC 620-51723/11	100.0	69.392068	50.0	383069.0	0.693921	Y



8/20/2025
8:44:38 PM

Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

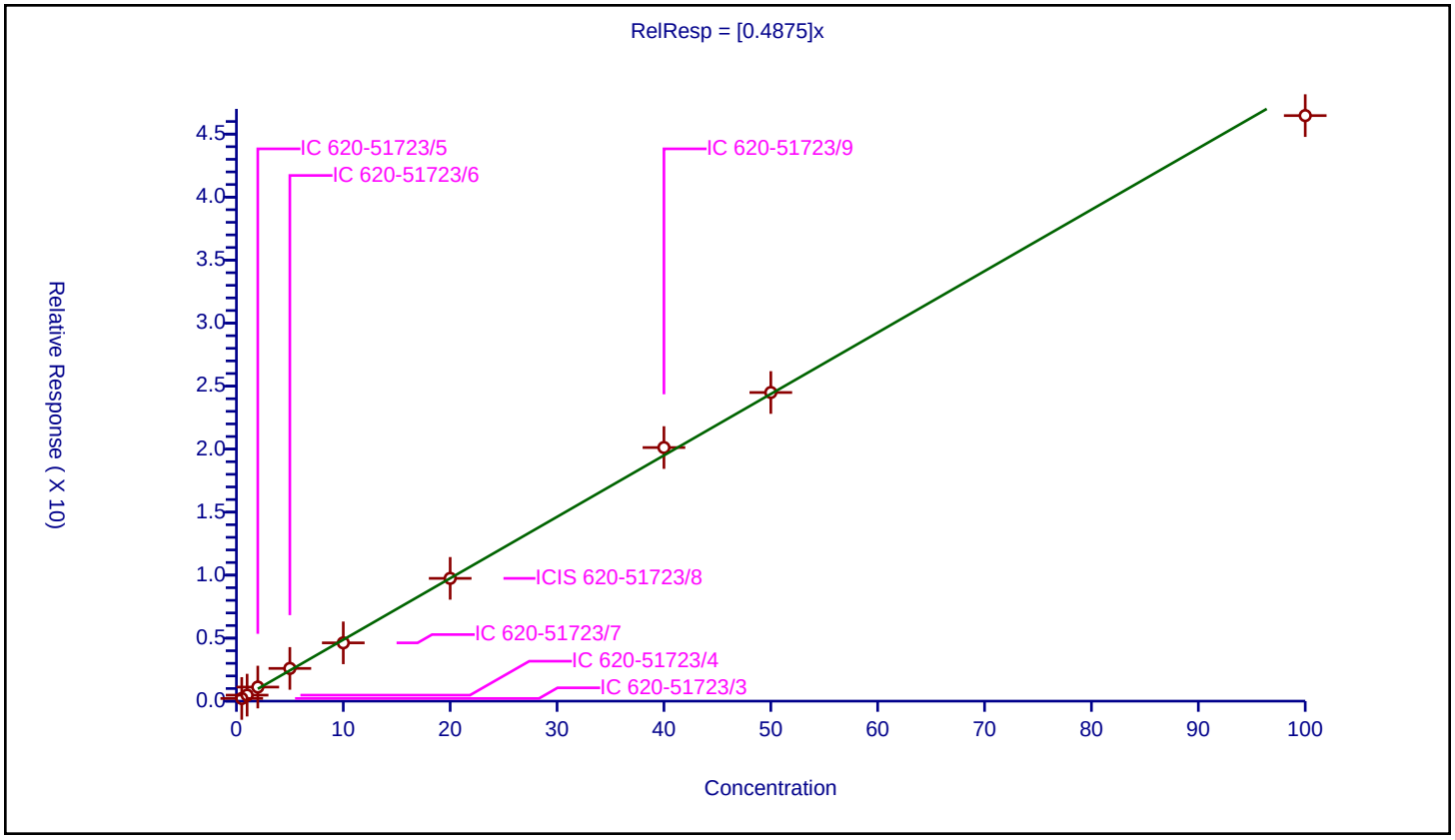
Curve Coefficients

Intercept:	0
Slope:	0.4875

Error Coefficients

Relative Standard Deviation:	7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.213393	50.0	367866.0	0.426786	Y
2	IC 620-51723/4	1.0	0.475801	50.0	363913.0	0.475801	Y
3	IC 620-51723/5	2.0	1.117117	50.0	355782.0	0.558558	Y
4	IC 620-51723/6	5.0	2.596753	50.0	360065.0	0.519351	Y
5	IC 620-51723/7	10.0	4.625893	50.0	347414.0	0.462589	Y
6	ICIS 620-51723/8	20.0	9.742925	50.0	346631.0	0.487146	Y
7	IC 620-51723/9	40.0	20.124878	50.0	352663.0	0.503122	Y
8	IC 620-51723/10	50.0	24.493718	50.0	364767.0	0.489874	Y
9	IC 620-51723/11	100.0	46.466955	50.0	383069.0	0.46467	Y



8/20/2025
8:44:38 PM

Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

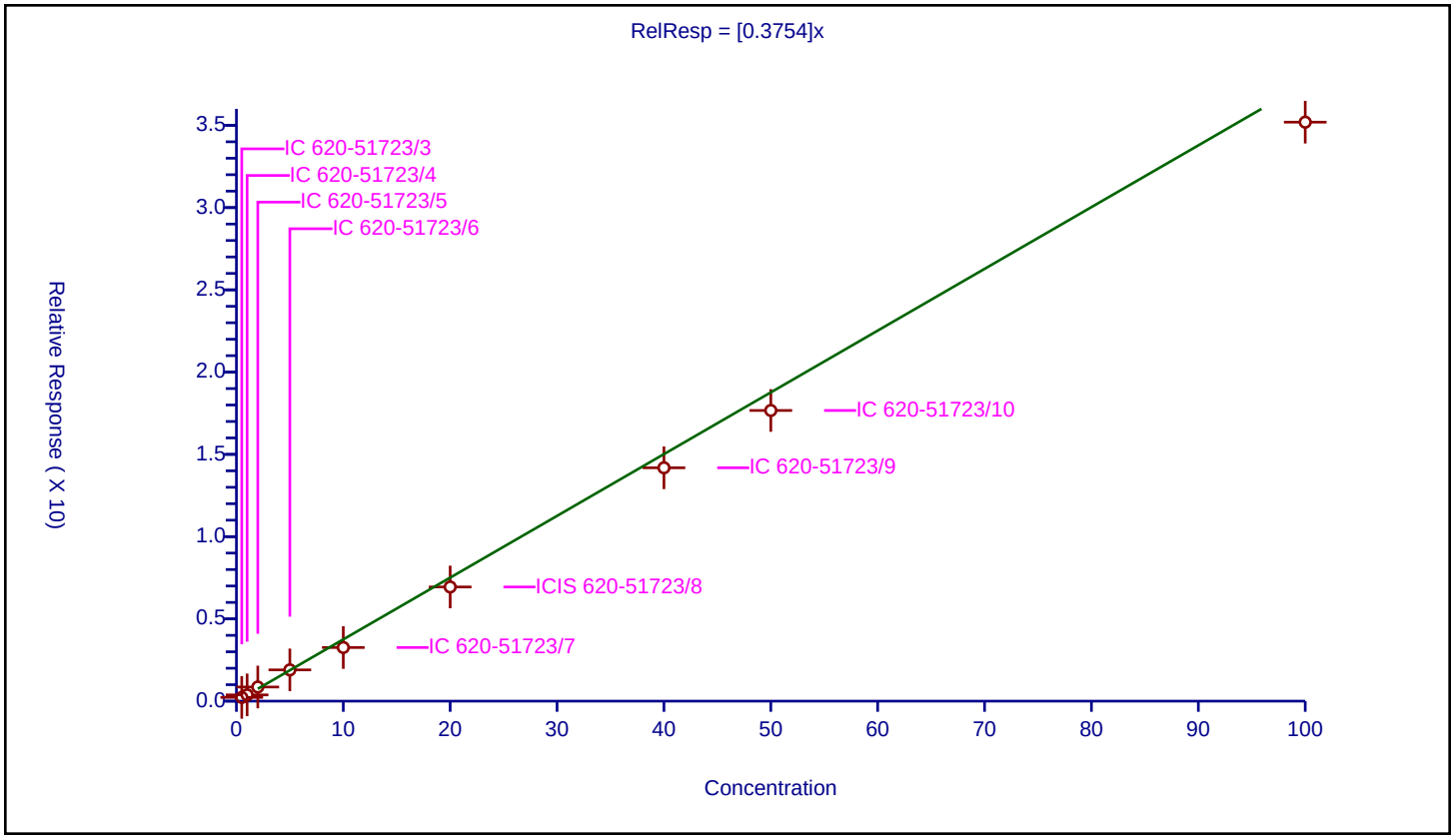
Curve Coefficients

Intercept:	0
Slope:	0.3754

Error Coefficients

Relative Standard Deviation:	11.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.2278	50.0	367866.0	0.455601	Y
2	IC 620-51723/4	1.0	0.380173	50.0	363913.0	0.380173	Y
3	IC 620-51723/5	2.0	0.859375	50.0	355782.0	0.429687	Y
4	IC 620-51723/6	5.0	1.899518	50.0	360065.0	0.379904	Y
5	IC 620-51723/7	10.0	3.259943	50.0	347414.0	0.325994	Y
6	ICIS 620-51723/8	20.0	6.939801	50.0	346631.0	0.34699	Y
7	IC 620-51723/9	40.0	14.18493	50.0	352663.0	0.354623	Y
8	IC 620-51723/10	50.0	17.667854	50.0	364767.0	0.353357	Y
9	IC 620-51723/11	100.0	35.193921	50.0	383069.0	0.351939	Y



8/20/2025
8:44:38 PM

Calibration / 2-Hexanone

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

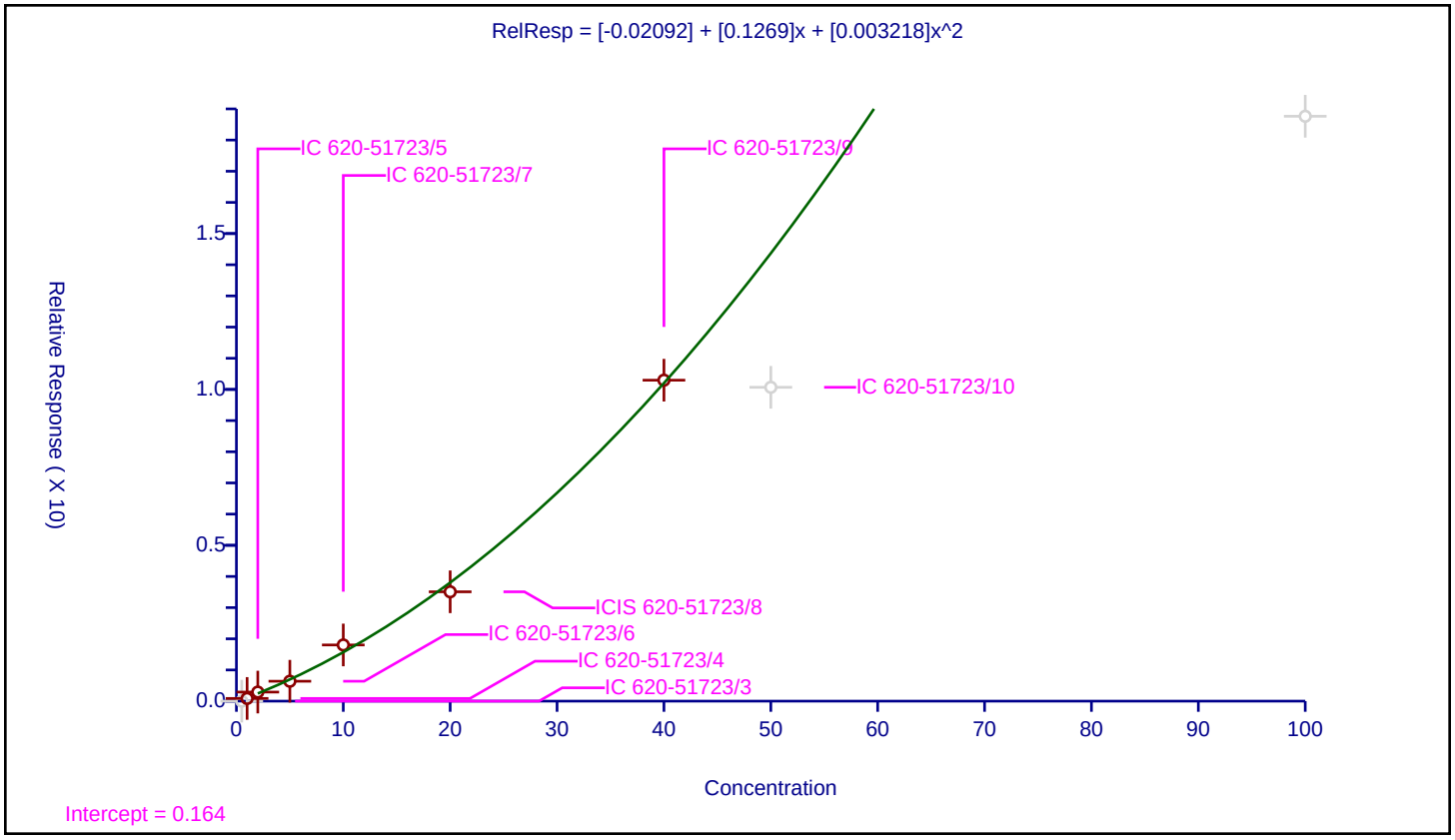
Curve Coefficients

Intercept:	-0.02092
Slope:	0.1269
Second Order:	0.003218

Error Coefficients

Relative Standard Deviation:	16.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.0	50.0	367866.0	0.0	N
2	IC 620-51723/4	1.0	0.086559	50.0	363913.0	0.086559	Y
3	IC 620-51723/5	2.0	0.291049	50.0	355782.0	0.145525	Y
4	IC 620-51723/6	5.0	0.638774	50.0	360065.0	0.127755	Y
5	IC 620-51723/7	10.0	1.80246	50.0	347414.0	0.180246	Y
6	ICIS 620-51723/8	20.0	3.507909	50.0	346631.0	0.175395	Y
7	IC 620-51723/9	40.0	10.296941	50.0	352663.0	0.257424	Y
8	IC 620-51723/10	50.0	10.068208	50.0	364767.0	0.201364	N
9	IC 620-51723/11	100.0	18.762938	50.0	383069.0	0.187629	N



8/20/2025
8:44:38 PM

Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

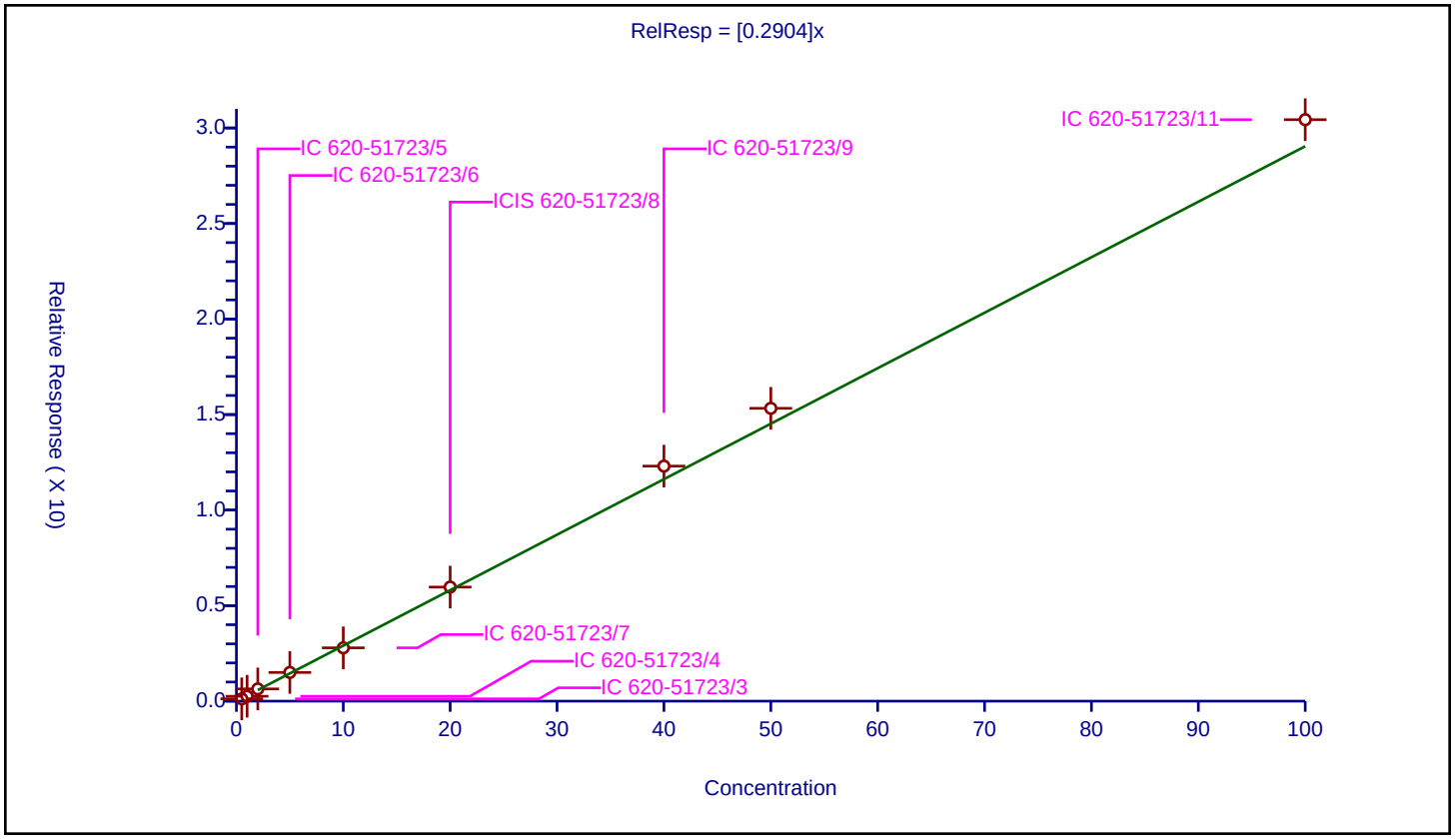
Curve Coefficients

Intercept:	0
Slope:	0.2904

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.120424	50.0	367866.0	0.240849	Y
2	IC 620-51723/4	1.0	0.25638	50.0	363913.0	0.25638	Y
3	IC 620-51723/5	2.0	0.640139	50.0	355782.0	0.32007	Y
4	IC 620-51723/6	5.0	1.502645	50.0	360065.0	0.300529	Y
5	IC 620-51723/7	10.0	2.790907	50.0	347414.0	0.279091	Y
6	ICIS 620-51723/8	20.0	5.970182	50.0	346631.0	0.298509	Y
7	IC 620-51723/9	40.0	12.301687	50.0	352663.0	0.307542	Y
8	IC 620-51723/10	50.0	15.32773	50.0	364767.0	0.306555	Y
9	IC 620-51723/11	100.0	30.434856	50.0	383069.0	0.304349	Y



8/20/2025
8:44:38 PM

Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

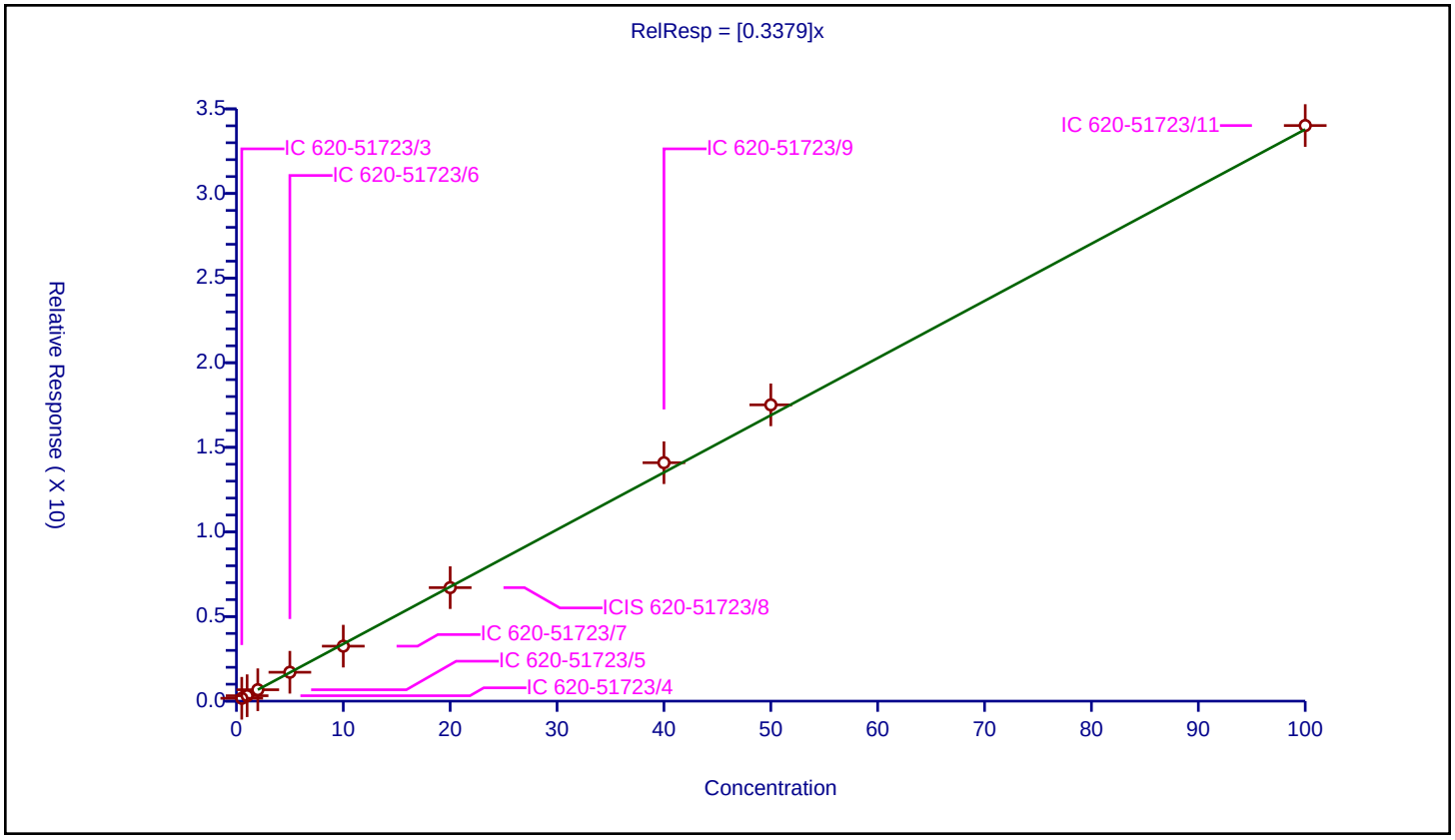
Curve Coefficients

Intercept:	0
Slope:	0.3379

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.169219	50.0	367866.0	0.338438	Y
2	IC 620-51723/4	1.0	0.320956	50.0	363913.0	0.320956	Y
3	IC 620-51723/5	2.0	0.674711	50.0	355782.0	0.337355	Y
4	IC 620-51723/6	5.0	1.706359	50.0	360065.0	0.341272	Y
5	IC 620-51723/7	10.0	3.249437	50.0	347414.0	0.324944	Y
6	ICIS 620-51723/8	20.0	6.707854	50.0	346631.0	0.335393	Y
7	IC 620-51723/9	40.0	14.090931	50.0	352663.0	0.352273	Y
8	IC 620-51723/10	50.0	17.510356	50.0	364767.0	0.350207	Y
9	IC 620-51723/11	100.0	34.015673	50.0	383069.0	0.340157	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

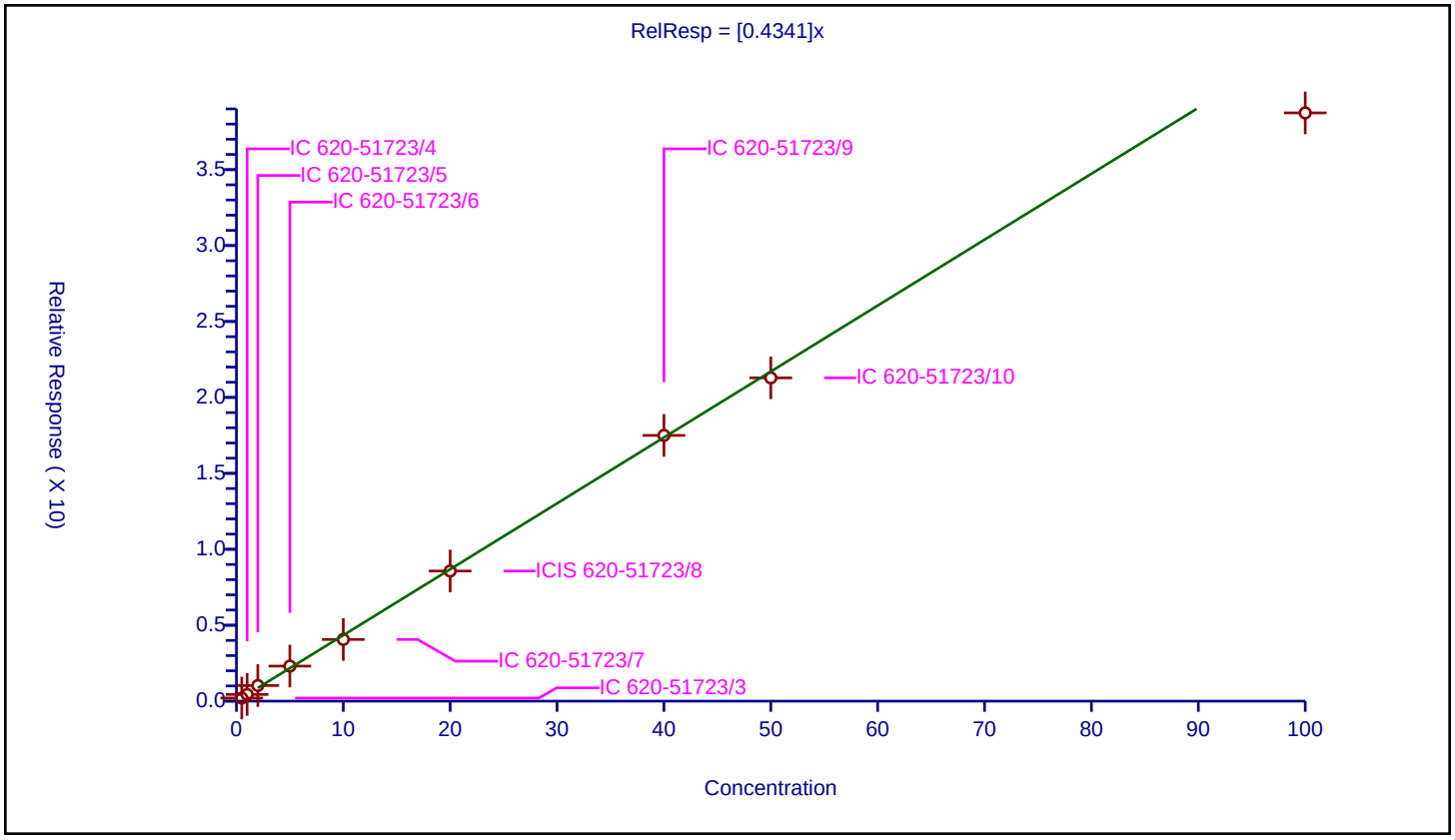
Curve Coefficients

Intercept:	0
Slope:	0.4341

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.203934	50.0	255720.0	0.407868	Y
2	IC 620-51723/4	1.0	0.438771	50.0	251042.0	0.438771	Y
3	IC 620-51723/5	2.0	1.027448	50.0	249891.0	0.513724	Y
4	IC 620-51723/6	5.0	2.307644	50.0	253397.0	0.461529	Y
5	IC 620-51723/7	10.0	4.061416	50.0	248891.0	0.406142	Y
6	ICIS 620-51723/8	20.0	8.56842	50.0	249731.0	0.428421	Y
7	IC 620-51723/9	40.0	17.498525	50.0	262745.0	0.437463	Y
8	IC 620-51723/10	50.0	21.2885	50.0	276593.0	0.42577	Y
9	IC 620-51723/11	100.0	38.737224	50.0	312787.0	0.387372	Y



8/20/2025
8:44:38 PM

Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

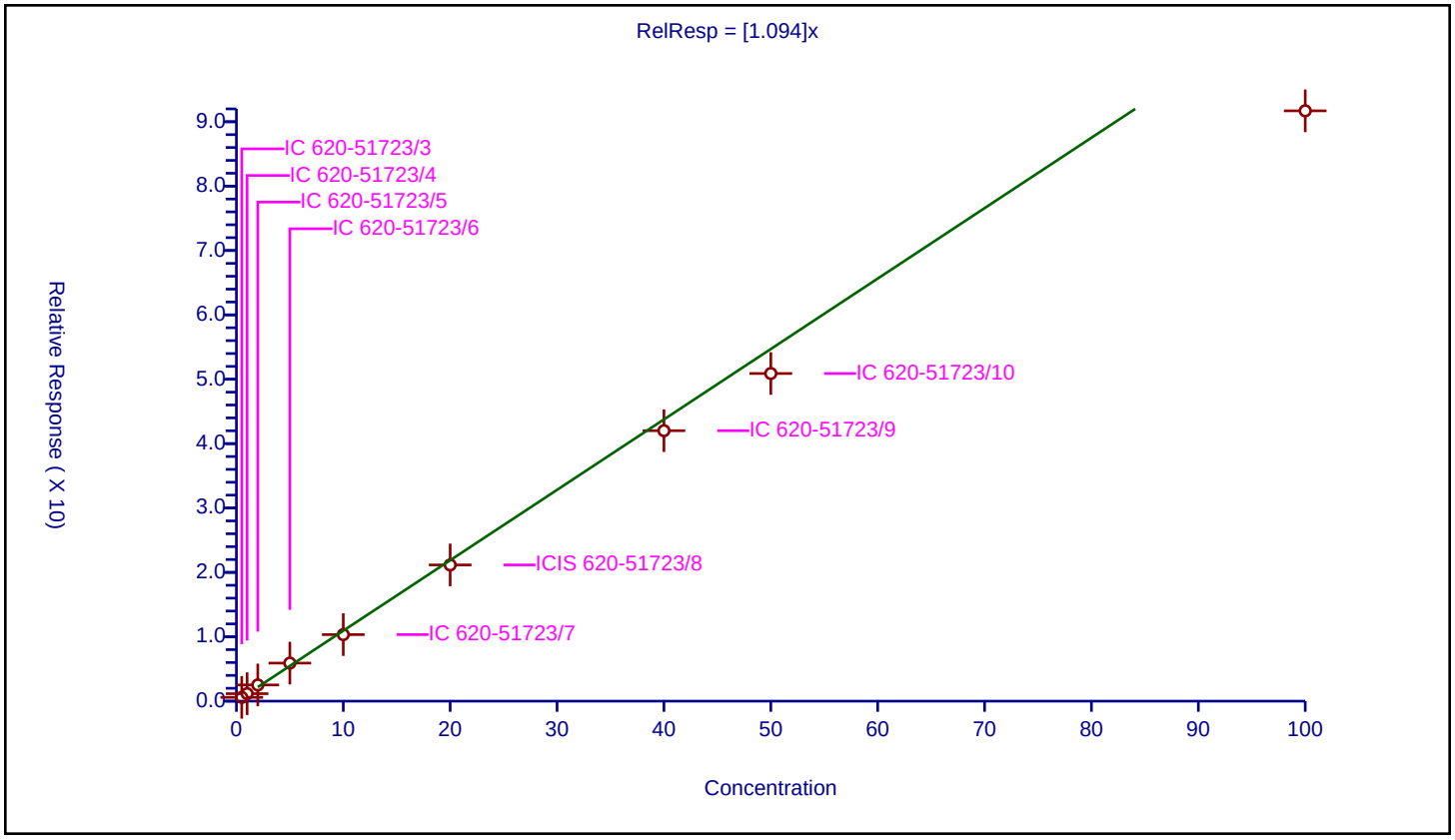
Curve Coefficients

Intercept:	0
Slope:	1.094

Error Coefficients

Relative Standard Deviation:	9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.583451	50.0	255720.0	1.166901	Y
2	IC 620-51723/4	1.0	1.162156	50.0	251042.0	1.162156	Y
3	IC 620-51723/5	2.0	2.515897	50.0	249891.0	1.257948	Y
4	IC 620-51723/6	5.0	5.910094	50.0	253397.0	1.182019	Y
5	IC 620-51723/7	10.0	10.337055	50.0	248891.0	1.033706	Y
6	ICIS 620-51723/8	20.0	21.159367	50.0	249731.0	1.057968	Y
7	IC 620-51723/9	40.0	42.01393	50.0	262745.0	1.050348	Y
8	IC 620-51723/10	50.0	50.894997	50.0	276593.0	1.0179	Y
9	IC 620-51723/11	100.0	91.697225	50.0	312787.0	0.916972	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

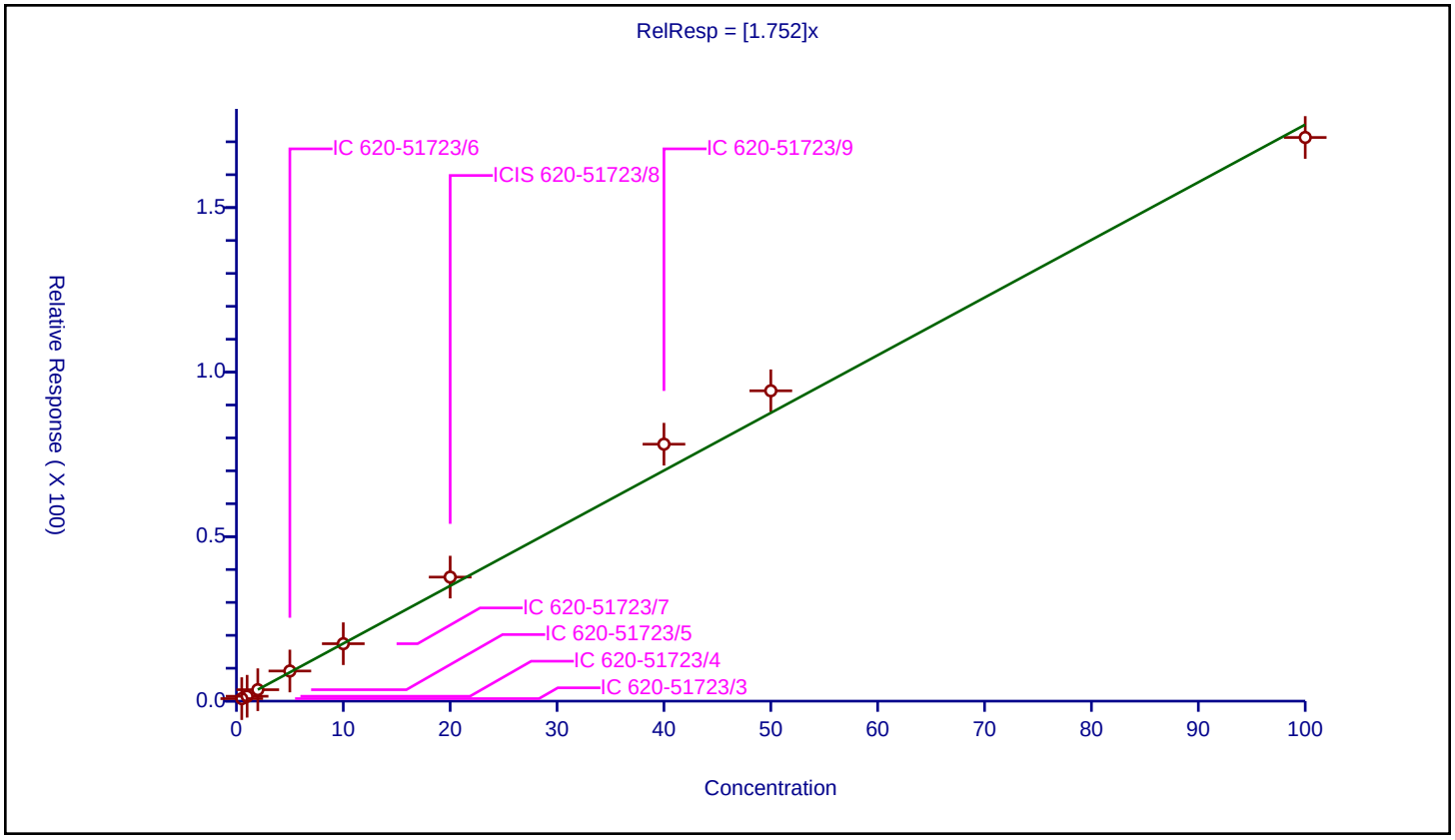
Curve Coefficients

Intercept:	0
Slope:	1.752

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.766268	50.0	255720.0	1.532536	Y
2	IC 620-51723/4	1.0	1.48262	50.0	251042.0	1.48262	Y
3	IC 620-51723/5	2.0	3.480518	50.0	249891.0	1.740259	Y
4	IC 620-51723/6	5.0	9.160527	50.0	253397.0	1.832105	Y
5	IC 620-51723/7	10.0	17.453825	50.0	248891.0	1.745383	Y
6	ICIS 620-51723/8	20.0	37.702568	50.0	249731.0	1.885128	Y
7	IC 620-51723/9	40.0	78.097585	50.0	262745.0	1.95244	Y
8	IC 620-51723/10	50.0	94.320717	50.0	276593.0	1.886414	Y
9	IC 620-51723/11	100.0	171.316423	50.0	312787.0	1.713164	Y



8/20/2025
8:44:38 PM

Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

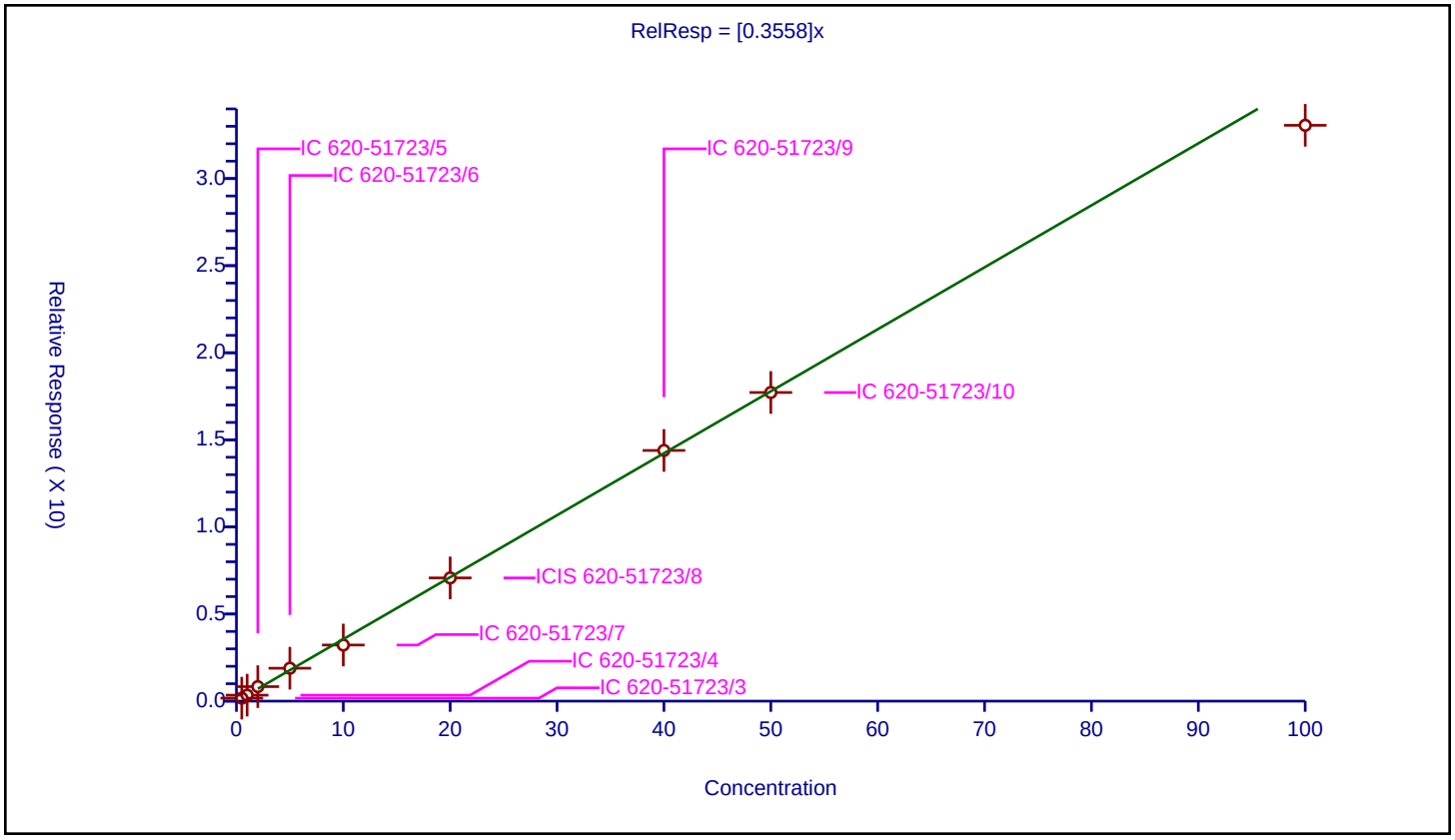
Curve Coefficients

Intercept:	0
Slope:	0.3558

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.172259	50.0	255720.0	0.344517	Y
2	IC 620-51723/4	1.0	0.342771	50.0	251042.0	0.342771	Y
3	IC 620-51723/5	2.0	0.832363	50.0	249891.0	0.416181	Y
4	IC 620-51723/6	5.0	1.889328	50.0	253397.0	0.377866	Y
5	IC 620-51723/7	10.0	3.221491	50.0	248891.0	0.322149	Y
6	ICIS 620-51723/8	20.0	7.074612	50.0	249731.0	0.353731	Y
7	IC 620-51723/9	40.0	14.392472	50.0	262745.0	0.359812	Y
8	IC 620-51723/10	50.0	17.718272	50.0	276593.0	0.354365	Y
9	IC 620-51723/11	100.0	33.058119	50.0	312787.0	0.330581	Y



8/20/2025
8:44:38 PM

Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

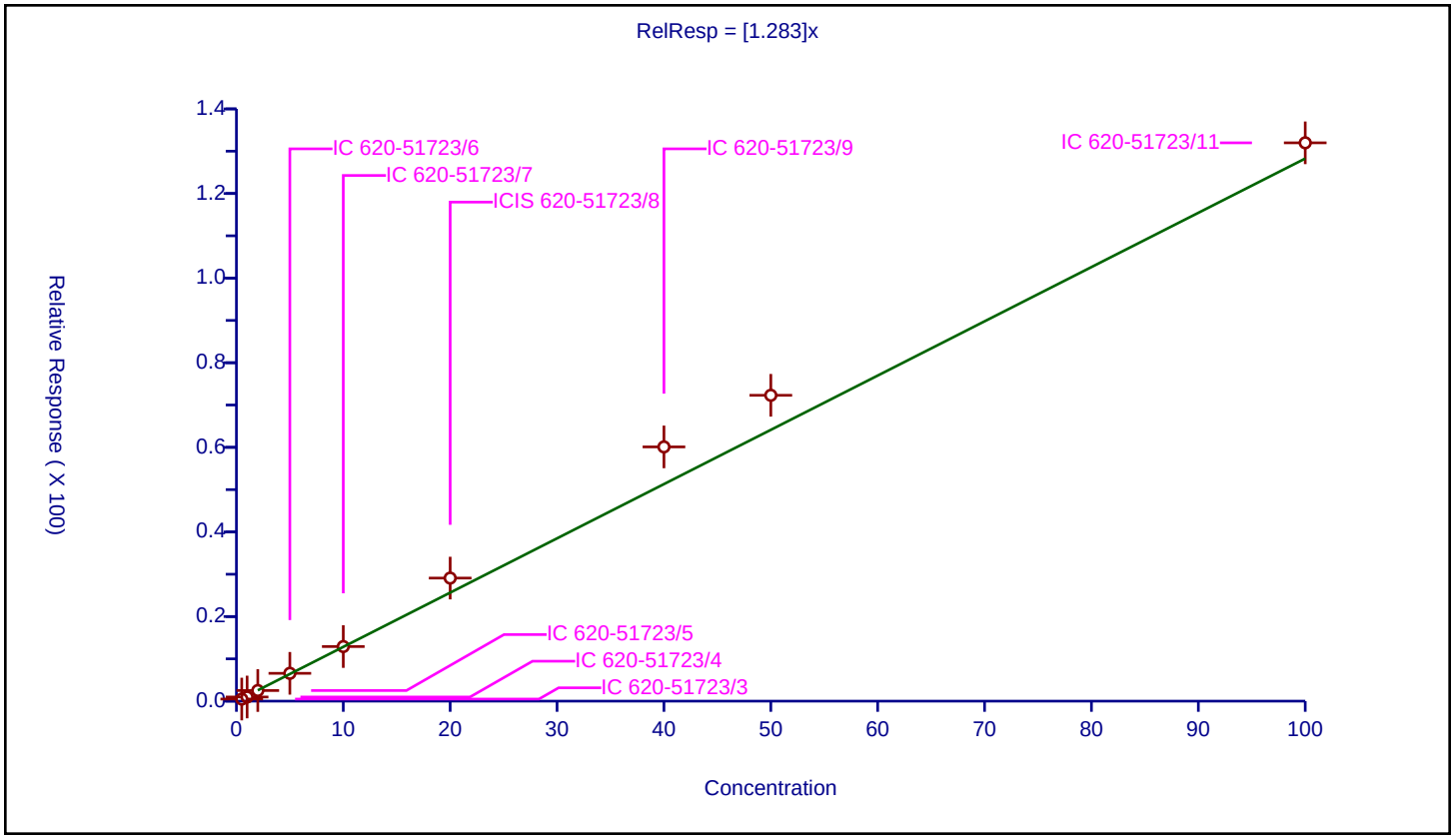
Curve Coefficients

Intercept:	0
Slope:	1.283

Error Coefficients

Relative Standard Deviation:	14.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.491553	50.0	255720.0	0.983107	Y
2	IC 620-51723/4	1.0	0.976928	50.0	251042.0	0.976928	Y
3	IC 620-51723/5	2.0	2.509494	50.0	249891.0	1.254747	Y
4	IC 620-51723/6	5.0	6.578215	50.0	253397.0	1.315643	Y
5	IC 620-51723/7	10.0	12.903038	50.0	248891.0	1.290304	Y
6	ICIS 620-51723/8	20.0	29.090702	50.0	249731.0	1.454535	Y
7	IC 620-51723/9	40.0	60.098765	50.0	262745.0	1.502469	Y
8	IC 620-51723/10	50.0	72.297744	50.0	276593.0	1.445955	Y
9	IC 620-51723/11	100.0	131.98007	50.0	312787.0	1.319801	Y



8/20/2025
8:44:38 PM

Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

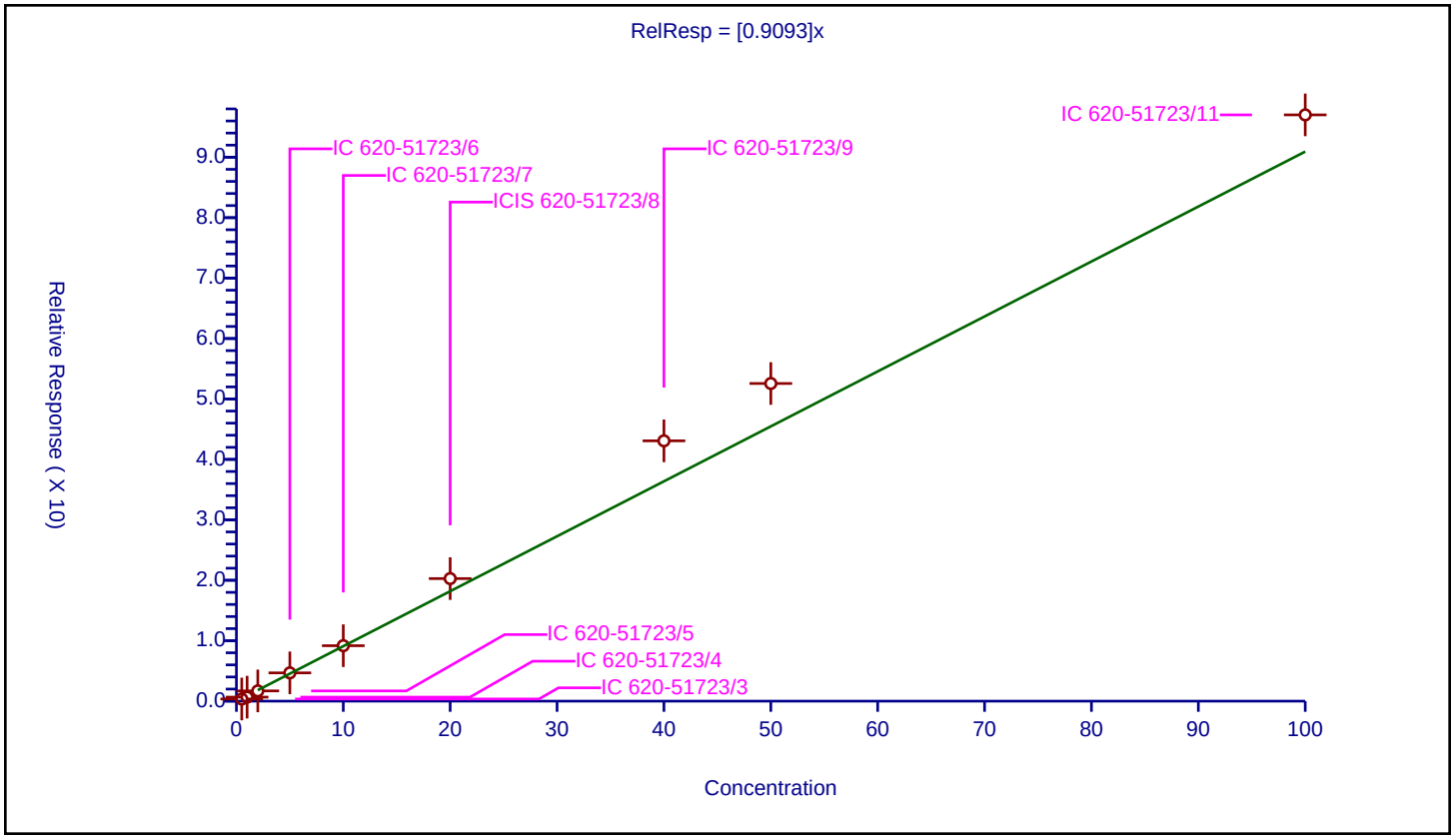
Curve Coefficients

Intercept:	0
Slope:	0.9093

Error Coefficients

Relative Standard Deviation:	16.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.353903	50.0	255720.0	0.707805	Y
2	IC 620-51723/4	1.0	0.662837	50.0	251042.0	0.662837	Y
3	IC 620-51723/5	2.0	1.69614	50.0	249891.0	0.84807	Y
4	IC 620-51723/6	5.0	4.678035	50.0	253397.0	0.935607	Y
5	IC 620-51723/7	10.0	9.174096	50.0	248891.0	0.91741	Y
6	ICIS 620-51723/8	20.0	20.277819	50.0	249731.0	1.013891	Y
7	IC 620-51723/9	40.0	43.074654	50.0	262745.0	1.076866	Y
8	IC 620-51723/10	50.0	52.561887	50.0	276593.0	1.051238	Y
9	IC 620-51723/11	100.0	97.007868	50.0	312787.0	0.970079	Y



8/20/2025
8:44:38 PM

Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

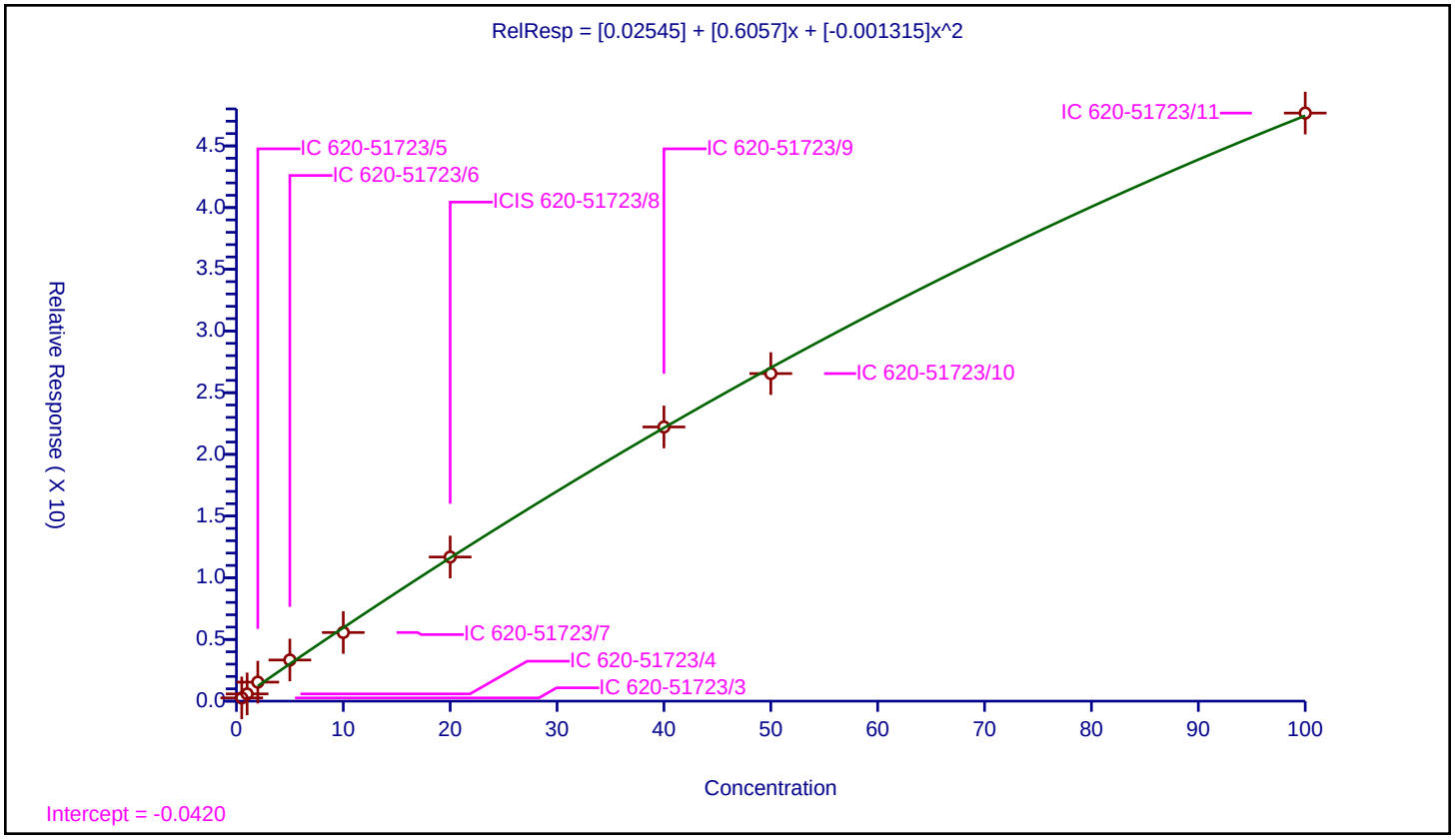
Curve Coefficients

Intercept:	0.02545
Slope:	0.6057
Second Order:	-0.001315

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.262201	50.0	255720.0	0.524402	Y
2	IC 620-51723/4	1.0	0.585161	50.0	251042.0	0.585161	Y
3	IC 620-51723/5	2.0	1.541072	50.0	249891.0	0.770536	Y
4	IC 620-51723/6	5.0	3.334294	50.0	253397.0	0.666859	Y
5	IC 620-51723/7	10.0	5.562877	50.0	248891.0	0.556288	Y
6	ICIS 620-51723/8	20.0	11.681369	50.0	249731.0	0.584068	Y
7	IC 620-51723/9	40.0	22.220214	50.0	262745.0	0.555505	Y
8	IC 620-51723/10	50.0	26.54966	50.0	276593.0	0.530993	Y
9	IC 620-51723/11	100.0	47.661348	50.0	312787.0	0.476613	Y



8/20/2025
8:44:38 PM

Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

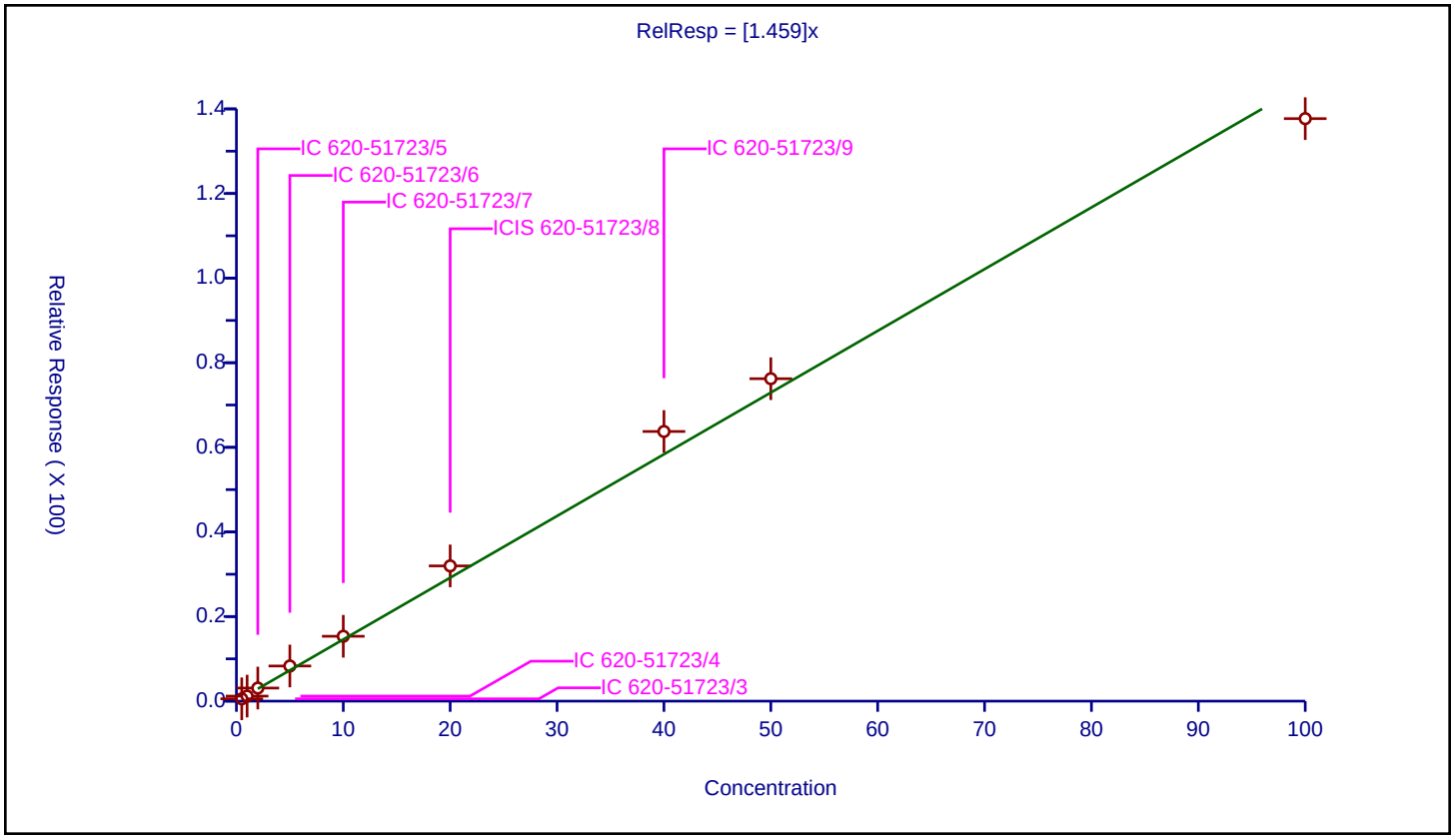
Curve Coefficients

Intercept:	0
Slope:	1.459

Error Coefficients

Relative Standard Deviation:	13.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.548256	50.0	255720.0	1.096512	Y
2	IC 620-51723/4	1.0	1.195816	50.0	251042.0	1.195816	Y
3	IC 620-51723/5	2.0	3.09615	50.0	249891.0	1.548075	Y
4	IC 620-51723/6	5.0	8.309688	50.0	253397.0	1.661938	Y
5	IC 620-51723/7	10.0	15.33583	50.0	248891.0	1.533583	Y
6	ICIS 620-51723/8	20.0	31.9698	50.0	249731.0	1.59849	Y
7	IC 620-51723/9	40.0	63.740699	50.0	262745.0	1.593517	Y
8	IC 620-51723/10	50.0	76.222464	50.0	276593.0	1.524449	Y
9	IC 620-51723/11	100.0	137.697379	50.0	312787.0	1.376974	Y



8/20/2025
8:44:38 PM

Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

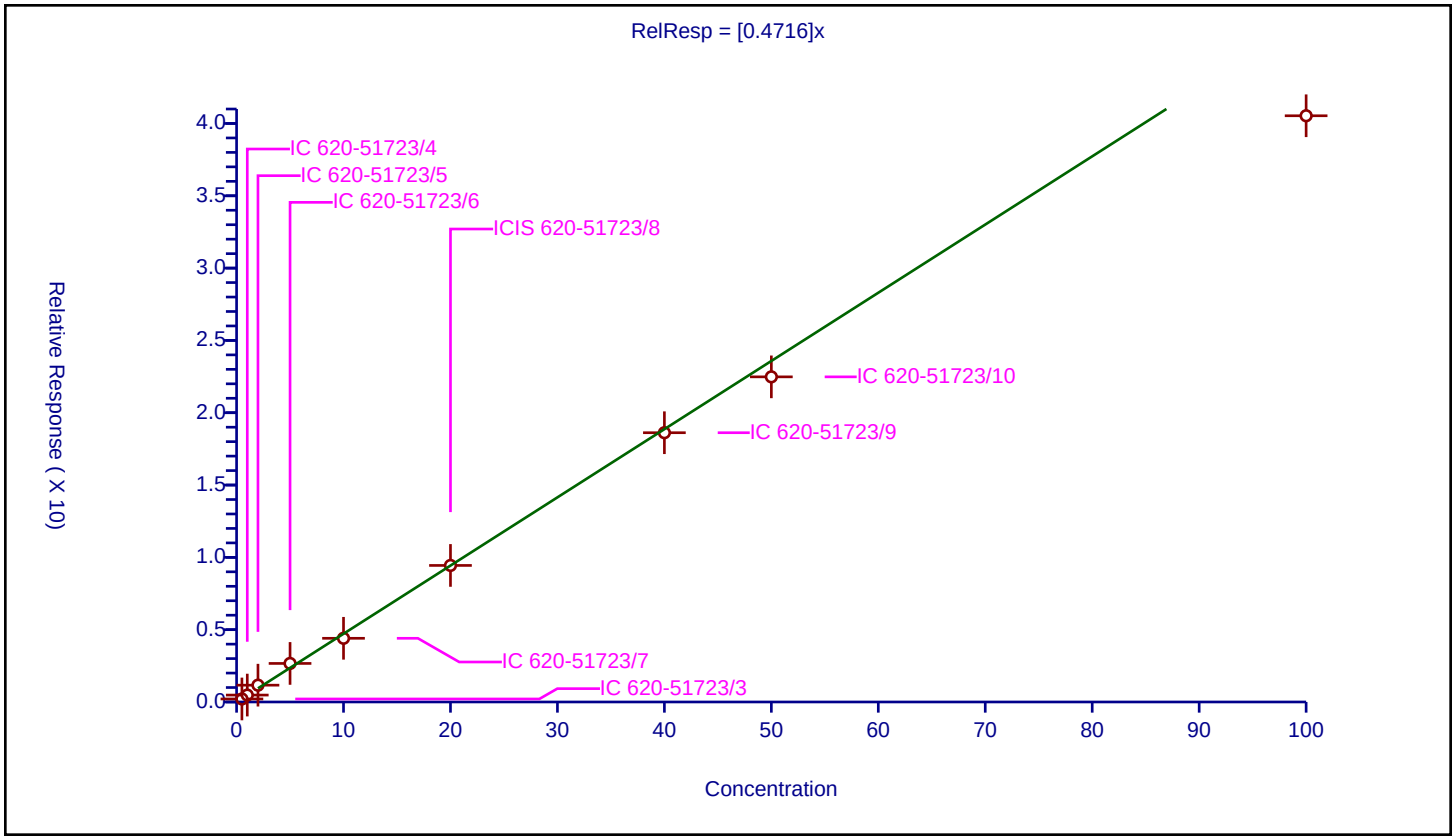
Curve Coefficients

Intercept:	0
Slope:	0.4716

Error Coefficients

Relative Standard Deviation:	11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.209213	50.0	255720.0	0.418426	Y
2	IC 620-51723/4	1.0	0.478406	50.0	251042.0	0.478406	Y
3	IC 620-51723/5	2.0	1.162907	50.0	249891.0	0.581454	Y
4	IC 620-51723/6	5.0	2.665777	50.0	253397.0	0.533155	Y
5	IC 620-51723/7	10.0	4.404338	50.0	248891.0	0.440434	Y
6	ICIS 620-51723/8	20.0	9.440558	50.0	249731.0	0.472028	Y
7	IC 620-51723/9	40.0	18.618052	50.0	262745.0	0.465451	Y
8	IC 620-51723/10	50.0	22.481408	50.0	276593.0	0.449628	Y
9	IC 620-51723/11	100.0	40.534133	50.0	312787.0	0.405341	Y



8/20/2025
8:44:38 PM

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

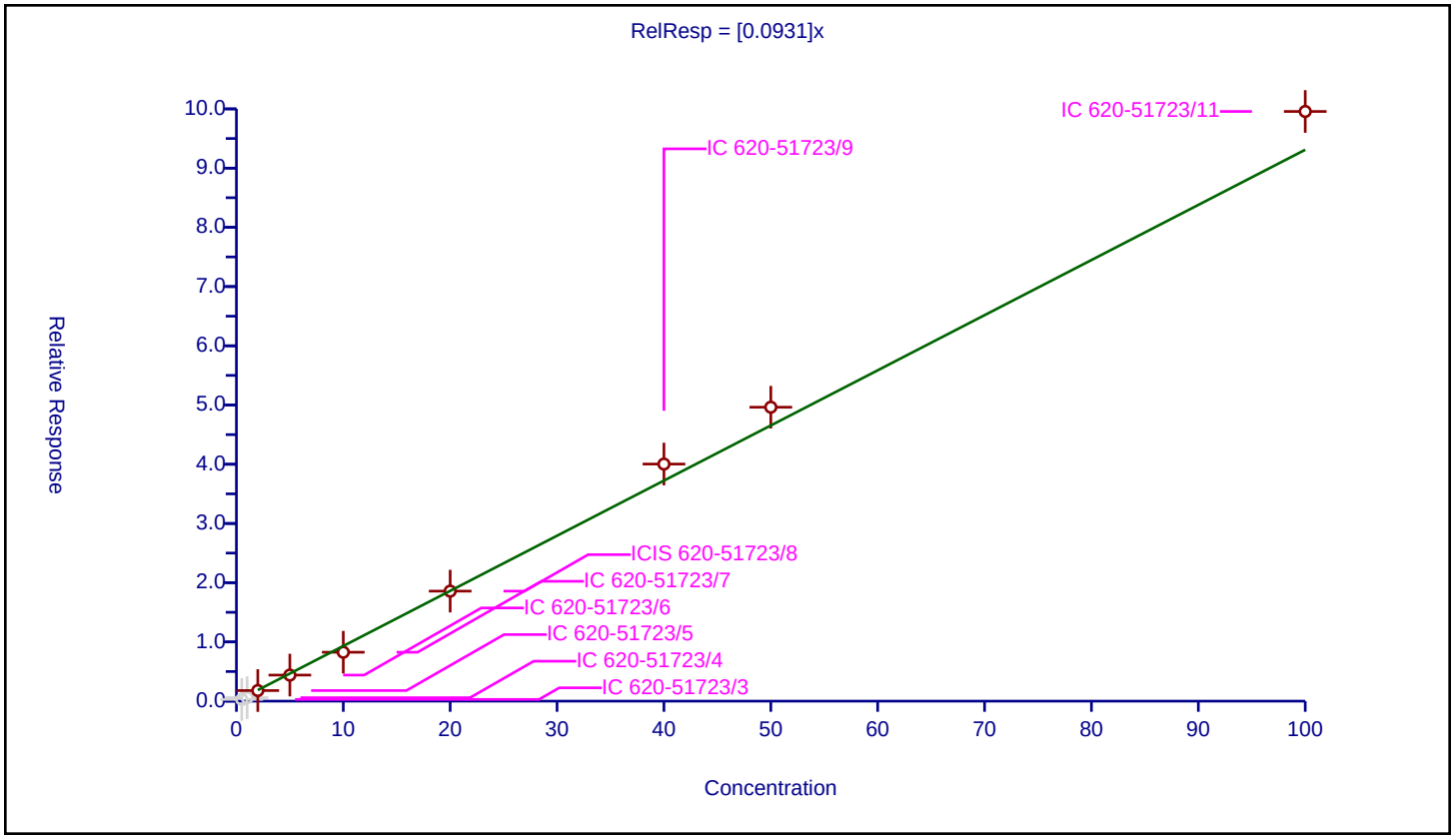
Curve Coefficients

Intercept:	0
Slope:	0.0931

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.028951	50.0	367866.0	0.057902	N
2	IC 620-51723/4	1.0	0.058256	50.0	363913.0	0.058256	N
3	IC 620-51723/5	2.0	0.178621	50.0	355782.0	0.08931	Y
4	IC 620-51723/6	5.0	0.440059	50.0	360065.0	0.088012	Y
5	IC 620-51723/7	10.0	0.82596	50.0	347414.0	0.082596	Y
6	ICIS 620-51723/8	20.0	1.857451	50.0	346631.0	0.092873	Y
7	IC 620-51723/9	40.0	4.003113	50.0	352663.0	0.100078	Y
8	IC 620-51723/10	50.0	4.96262	50.0	364767.0	0.099252	Y
9	IC 620-51723/11	100.0	9.95617	50.0	383069.0	0.099562	Y



8/20/2025
8:44:38 PM

Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

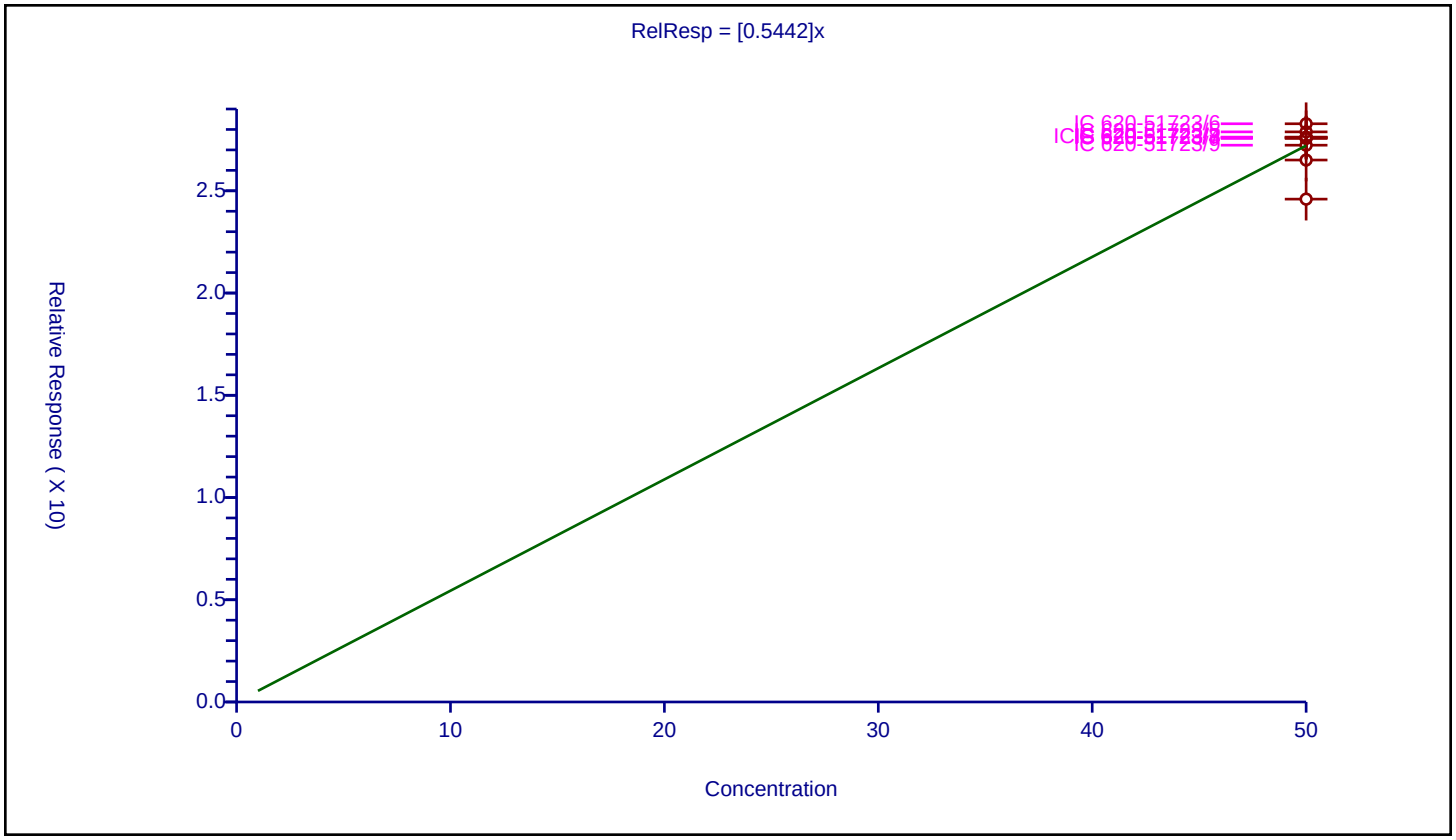
Curve Coefficients

Intercept:	0
Slope:	0.5442

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	50.0	27.619858	50.0	255720.0	0.552397	Y
2	IC 620-51723/4	50.0	27.55993	50.0	251042.0	0.551199	Y
3	IC 620-51723/5	50.0	27.882357	50.0	249891.0	0.557647	Y
4	IC 620-51723/6	50.0	28.278946	50.0	253397.0	0.565579	Y
5	IC 620-51723/7	50.0	27.590994	50.0	248891.0	0.55182	Y
6	ICIS 620-51723/8	50.0	27.622121	50.0	249731.0	0.552442	Y
7	IC 620-51723/9	50.0	27.229633	50.0	262745.0	0.544593	Y
8	IC 620-51723/10	50.0	26.505371	50.0	276593.0	0.530107	Y
9	IC 620-51723/11	50.0	24.593733	50.0	312787.0	0.491875	Y



8/20/2025
8:44:38 PM

Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

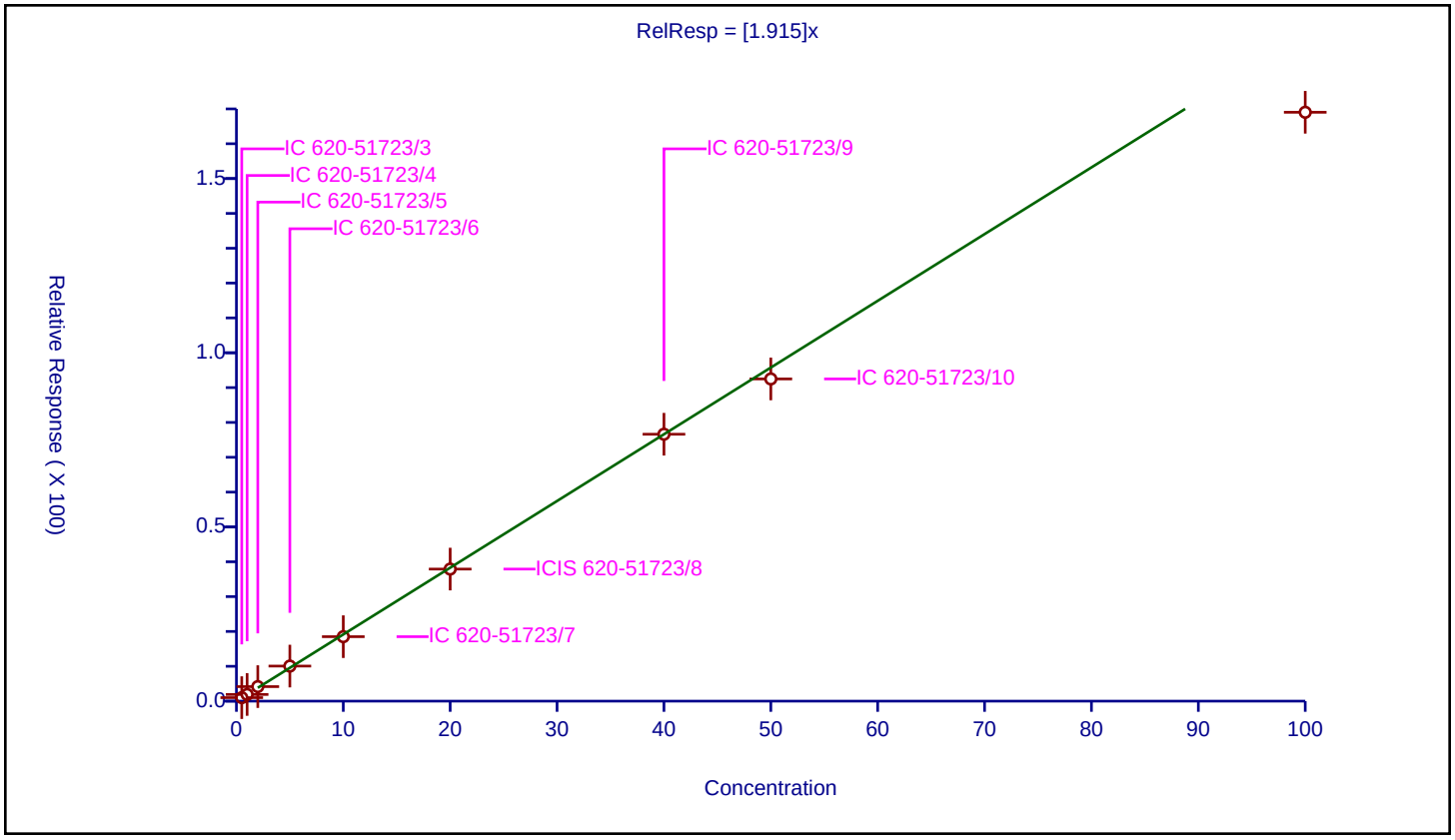
Curve Coefficients

Intercept:	0
Slope:	1.915

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	1.00872	50.0	255720.0	2.017441	Y
2	IC 620-51723/4	1.0	1.917807	50.0	251042.0	1.917807	Y
3	IC 620-51723/5	2.0	4.17362	50.0	249891.0	2.08681	Y
4	IC 620-51723/6	5.0	10.062668	50.0	253397.0	2.012534	Y
5	IC 620-51723/7	10.0	18.501272	50.0	248891.0	1.850127	Y
6	ICIS 620-51723/8	20.0	37.908389	50.0	249731.0	1.895419	Y
7	IC 620-51723/9	40.0	76.617252	50.0	262745.0	1.915431	Y
8	IC 620-51723/10	50.0	92.483179	50.0	276593.0	1.849664	Y
9	IC 620-51723/11	100.0	169.031162	50.0	312787.0	1.690312	Y



8/20/2025
8:44:38 PM

Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

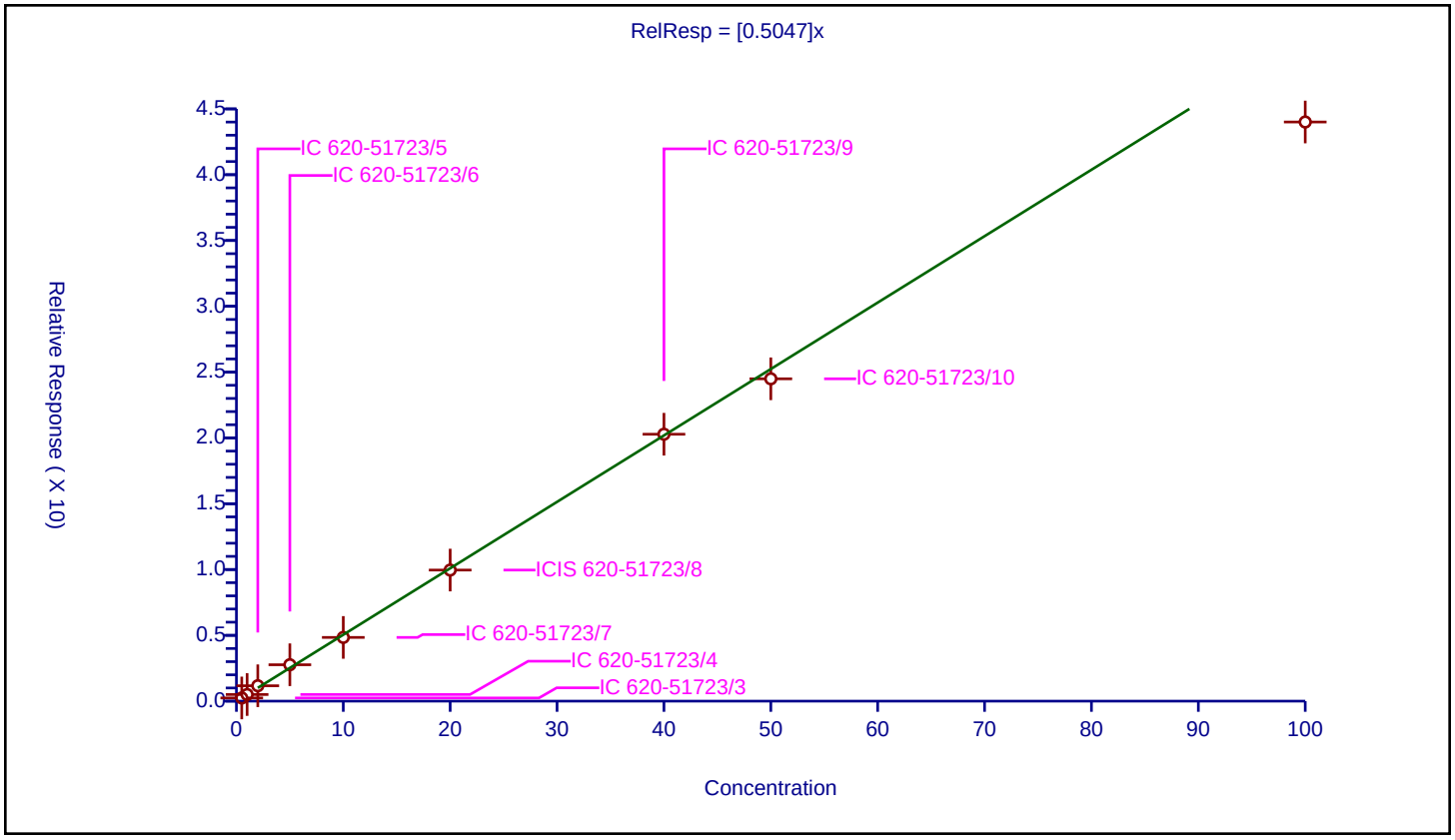
Curve Coefficients

Intercept:	0
Slope:	0.5047

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.241671	50.0	255720.0	0.483341	Y
2	IC 620-51723/4	1.0	0.502506	50.0	251042.0	0.502506	Y
3	IC 620-51723/5	2.0	1.168309	50.0	249891.0	0.584155	Y
4	IC 620-51723/6	5.0	2.765818	50.0	253397.0	0.553164	Y
5	IC 620-51723/7	10.0	4.840874	50.0	248891.0	0.484087	Y
6	ICIS 620-51723/8	20.0	9.960317	50.0	249731.0	0.498016	Y
7	IC 620-51723/9	40.0	20.280881	50.0	262745.0	0.507022	Y
8	IC 620-51723/10	50.0	24.490858	50.0	276593.0	0.489817	Y
9	IC 620-51723/11	100.0	44.004227	50.0	312787.0	0.440042	Y



8/20/2025
8:44:38 PM

Calibration / N-Propylbenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

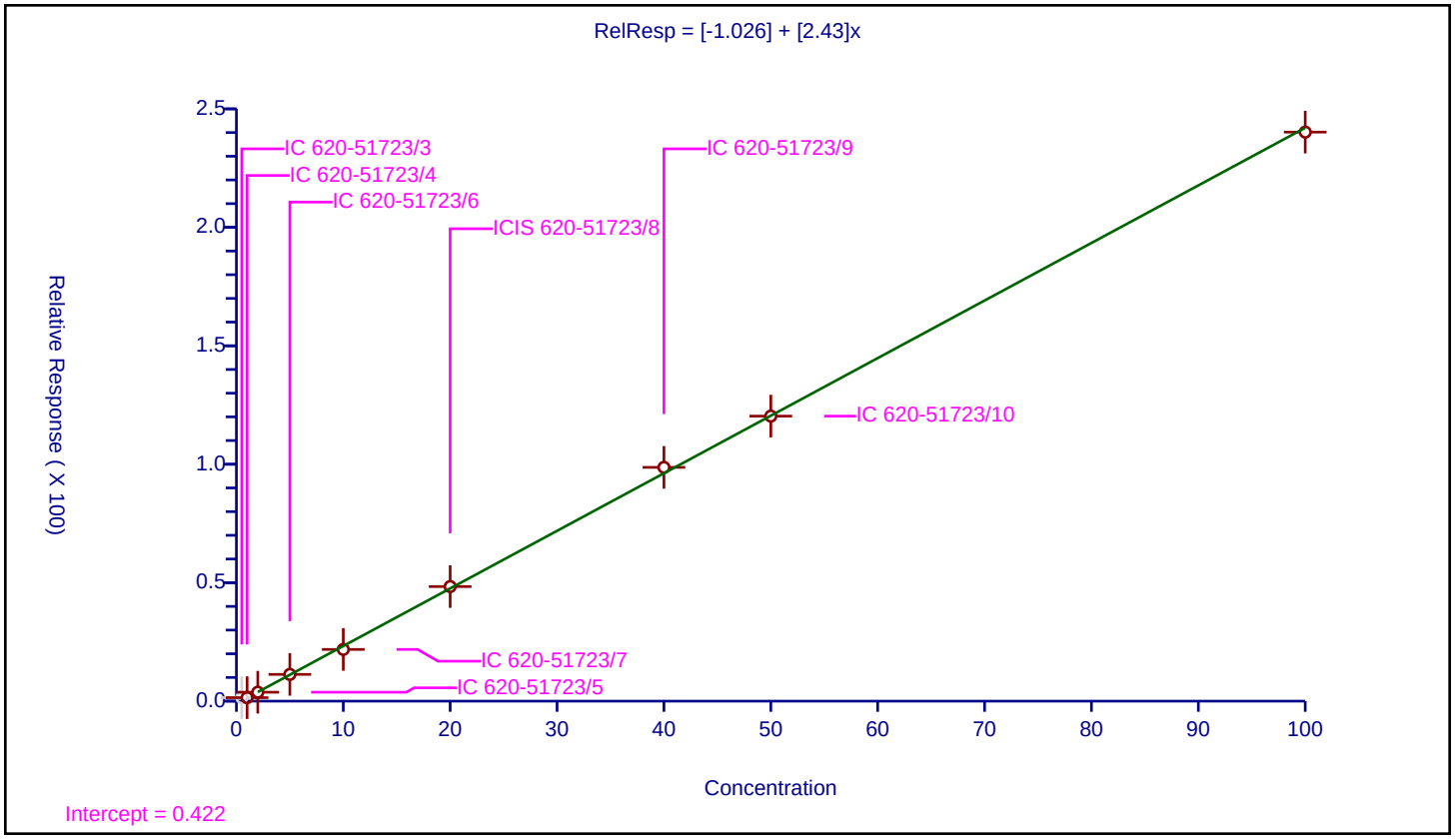
Curve Coefficients

Intercept:	-1.026
Slope:	2.43

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	1.471922	50.0	255720.0	2.943845	N
2	IC 620-51723/4	1.0	1.469674	50.0	251042.0	1.469674	Y
3	IC 620-51723/5	2.0	3.769243	50.0	249891.0	1.884622	Y
4	IC 620-51723/6	5.0	11.291965	50.0	253397.0	2.258393	Y
5	IC 620-51723/7	10.0	21.825418	50.0	248891.0	2.182542	Y
6	ICIS 620-51723/8	20.0	48.366843	50.0	249731.0	2.418342	Y
7	IC 620-51723/9	40.0	98.679518	50.0	262745.0	2.466988	Y
8	IC 620-51723/10	50.0	120.310167	50.0	276593.0	2.406203	Y
9	IC 620-51723/11	100.0	240.192367	50.0	312787.0	2.401924	Y



8/20/2025
8:44:38 PM

Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

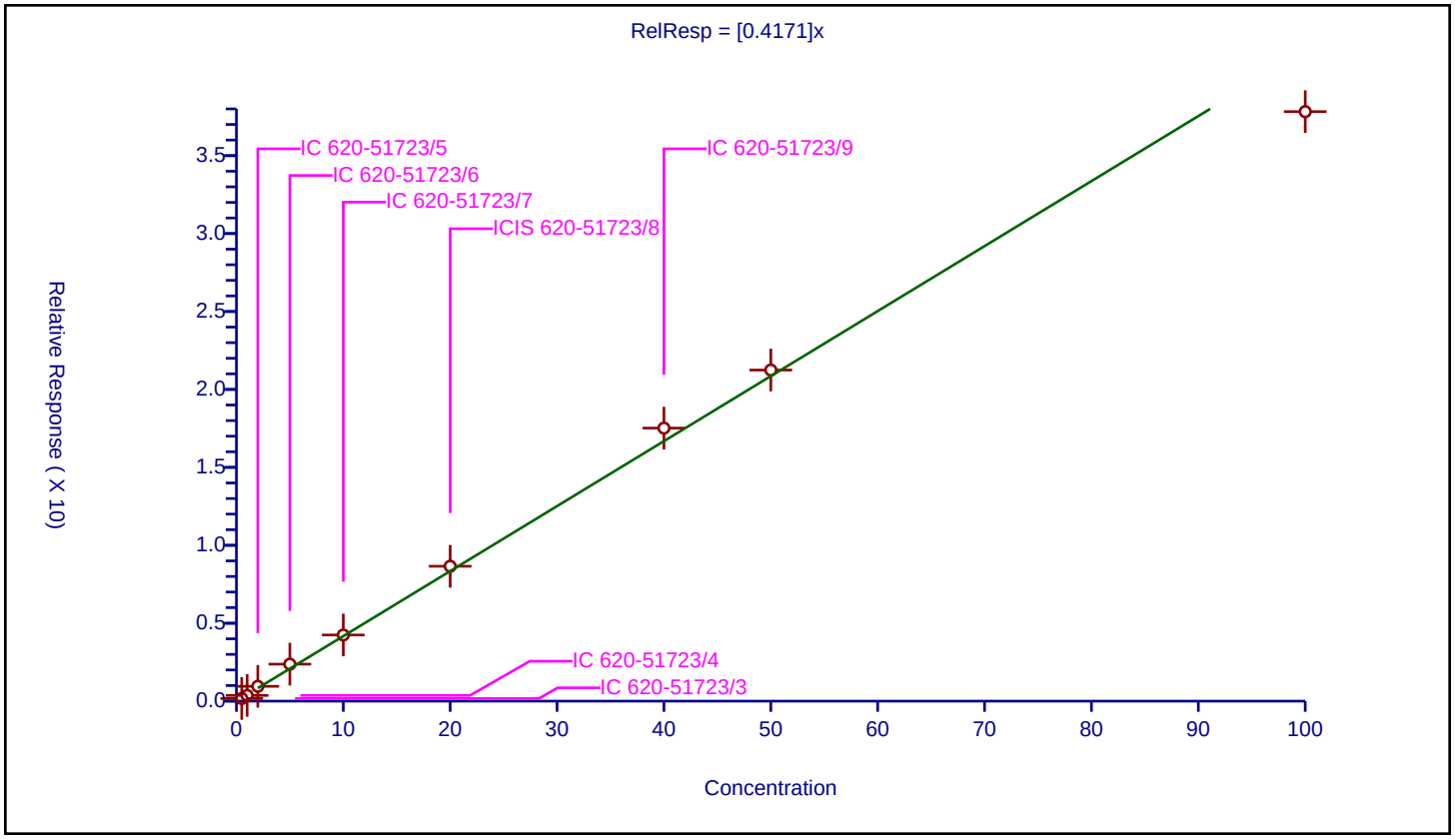
Curve Coefficients

Intercept:	0
Slope:	0.4171

Error Coefficients

Relative Standard Deviation:	11.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.169912	50.0	255720.0	0.339825	Y
2	IC 620-51723/4	1.0	0.365875	50.0	251042.0	0.365875	Y
3	IC 620-51723/5	2.0	0.951015	50.0	249891.0	0.475507	Y
4	IC 620-51723/6	5.0	2.37197	50.0	253397.0	0.474394	Y
5	IC 620-51723/7	10.0	4.243826	50.0	248891.0	0.424383	Y
6	ICIS 620-51723/8	20.0	8.654512	50.0	249731.0	0.432726	Y
7	IC 620-51723/9	40.0	17.519268	50.0	262745.0	0.437982	Y
8	IC 620-51723/10	50.0	21.244211	50.0	276593.0	0.424884	Y
9	IC 620-51723/11	100.0	37.823183	50.0	312787.0	0.378232	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

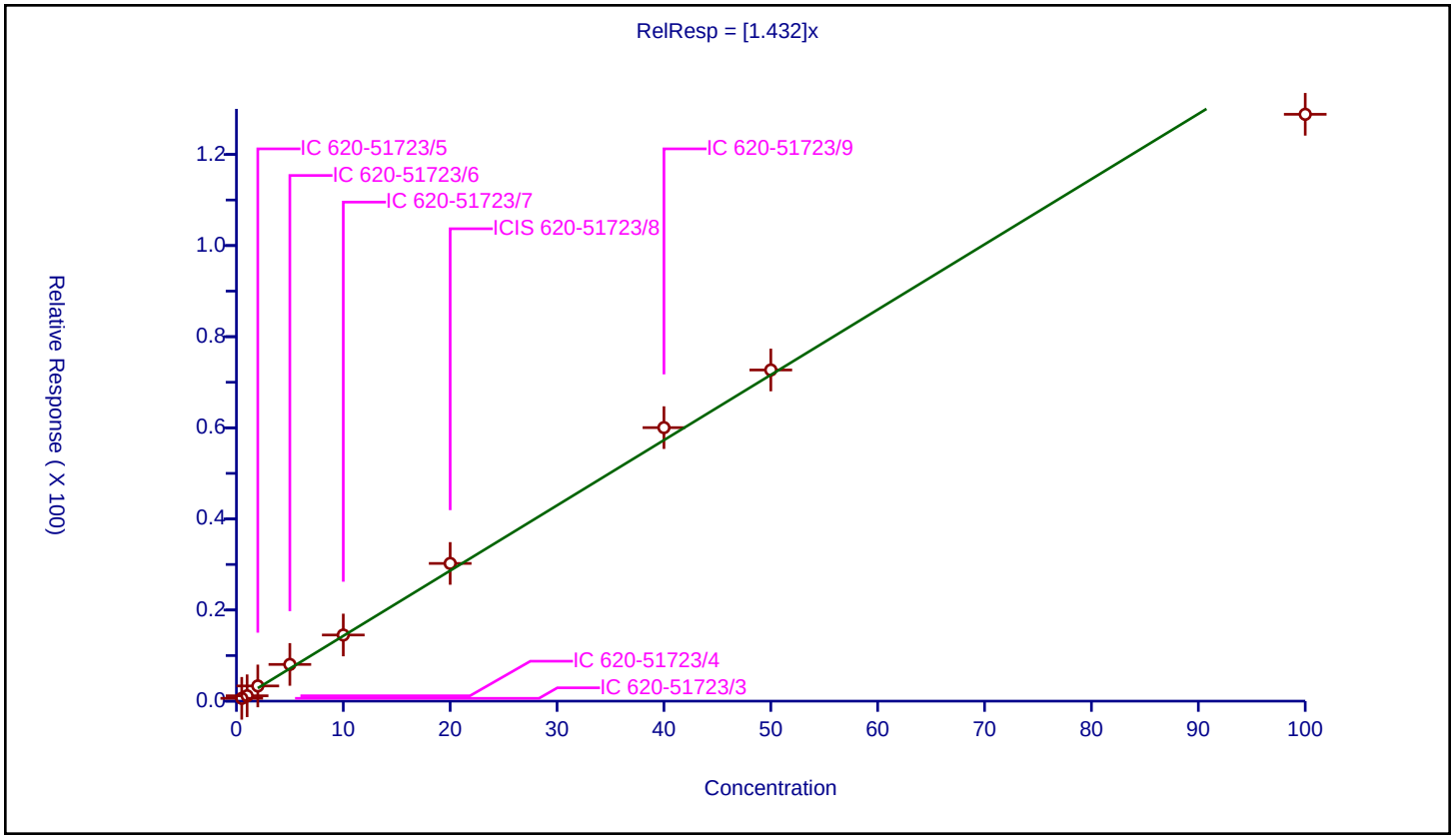
Curve Coefficients

Intercept:	0
Slope:	1.432

Error Coefficients

Relative Standard Deviation:	11.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.61493	50.0	255720.0	1.229861	Y
2	IC 620-51723/4	1.0	1.176895	50.0	251042.0	1.176895	Y
3	IC 620-51723/5	2.0	3.332453	50.0	249891.0	1.666226	Y
4	IC 620-51723/6	5.0	8.058304	50.0	253397.0	1.611661	Y
5	IC 620-51723/7	10.0	14.516194	50.0	248891.0	1.451619	Y
6	ICIS 620-51723/8	20.0	30.227525	50.0	249731.0	1.511376	Y
7	IC 620-51723/9	40.0	60.037489	50.0	262745.0	1.500937	Y
8	IC 620-51723/10	50.0	72.690921	50.0	276593.0	1.453818	Y
9	IC 620-51723/11	100.0	128.814177	50.0	312787.0	1.288142	Y



8/20/2025
8:44:38 PM

Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

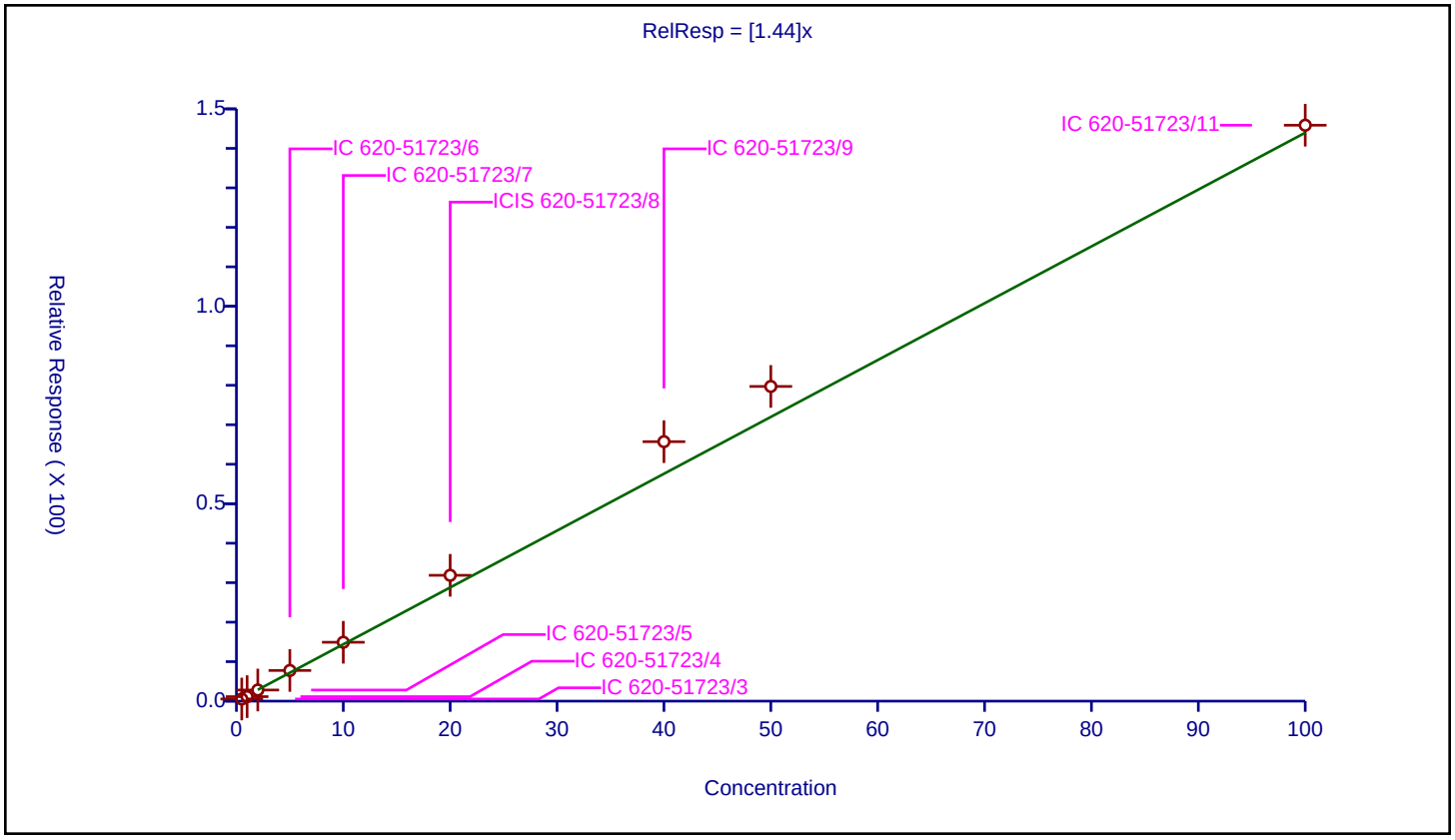
Curve Coefficients

Intercept:	0
Slope:	1.44

Error Coefficients

Relative Standard Deviation:	14.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.540044	50.0	255720.0	1.080088	Y
2	IC 620-51723/4	1.0	1.13487	50.0	251042.0	1.13487	Y
3	IC 620-51723/5	2.0	2.815428	50.0	249891.0	1.407714	Y
4	IC 620-51723/6	5.0	7.767061	50.0	253397.0	1.553412	Y
5	IC 620-51723/7	10.0	14.90994	50.0	248891.0	1.490994	Y
6	ICIS 620-51723/8	20.0	31.872094	50.0	249731.0	1.593605	Y
7	IC 620-51723/9	40.0	65.719804	50.0	262745.0	1.642995	Y
8	IC 620-51723/10	50.0	79.701583	50.0	276593.0	1.594032	Y
9	IC 620-51723/11	100.0	145.866676	50.0	312787.0	1.458667	Y



8/20/2025
8:44:38 PM

Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

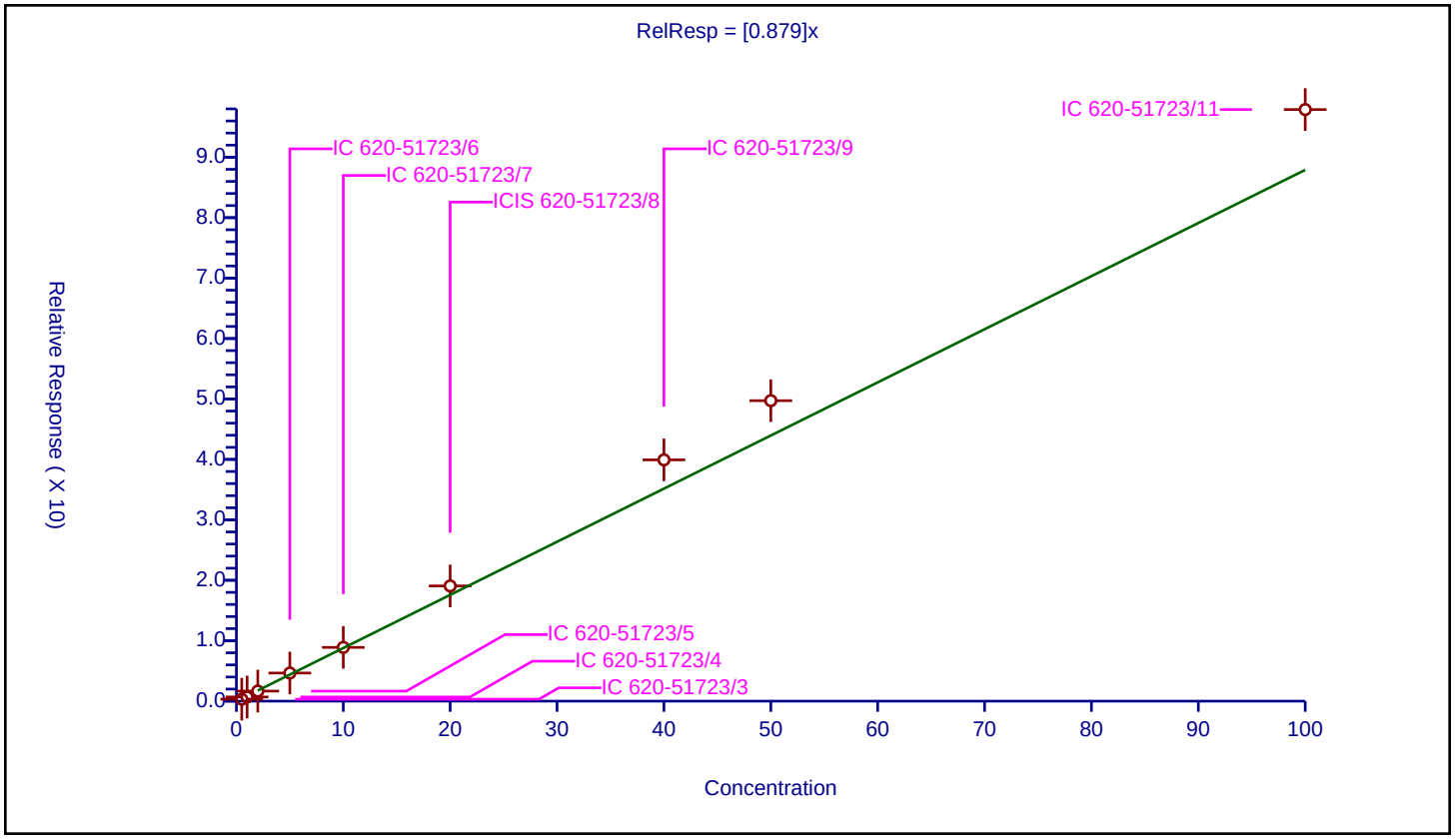
Curve Coefficients

Intercept:	0
Slope:	0.879

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.323351	50.0	367866.0	0.646703	Y
2	IC 620-51723/4	1.0	0.688351	50.0	363913.0	0.688351	Y
3	IC 620-51723/5	2.0	1.664924	50.0	355782.0	0.832462	Y
4	IC 620-51723/6	5.0	4.650271	50.0	360065.0	0.930054	Y
5	IC 620-51723/7	10.0	8.891409	50.0	347414.0	0.889141	Y
6	ICIS 620-51723/8	20.0	19.063356	50.0	346631.0	0.953168	Y
7	IC 620-51723/9	40.0	39.928629	50.0	352663.0	0.998216	Y
8	IC 620-51723/10	50.0	49.720232	50.0	364767.0	0.994405	Y
9	IC 620-51723/11	100.0	97.891503	50.0	383069.0	0.978915	Y



8/20/2025
8:44:38 PM

Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

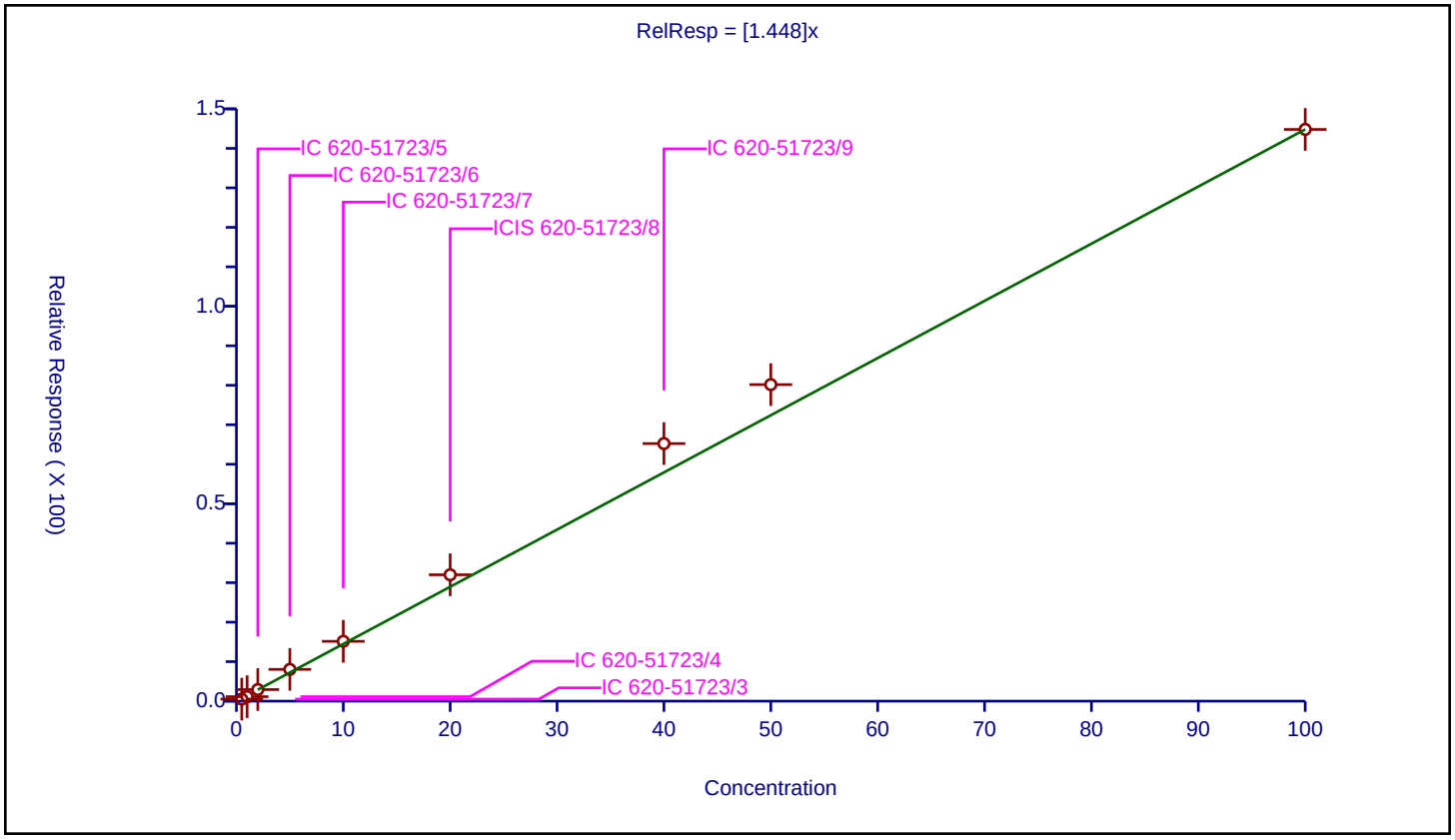
Curve Coefficients

Intercept:	0
Slope:	1.448

Error Coefficients

Relative Standard Deviation:	15.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.517167	50.0	255720.0	1.034334	Y
2	IC 620-51723/4	1.0	1.127301	50.0	251042.0	1.127301	Y
3	IC 620-51723/5	2.0	2.930678	50.0	249891.0	1.465339	Y
4	IC 620-51723/6	5.0	8.042913	50.0	253397.0	1.608583	Y
5	IC 620-51723/7	10.0	15.150407	50.0	248891.0	1.515041	Y
6	ICIS 620-51723/8	20.0	32.00784	50.0	249731.0	1.600392	Y
7	IC 620-51723/9	40.0	65.234543	50.0	262745.0	1.630864	Y
8	IC 620-51723/10	50.0	80.167249	50.0	276593.0	1.603345	Y
9	IC 620-51723/11	100.0	144.802214	50.0	312787.0	1.448022	Y



8/20/2025
8:44:38 PM

Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

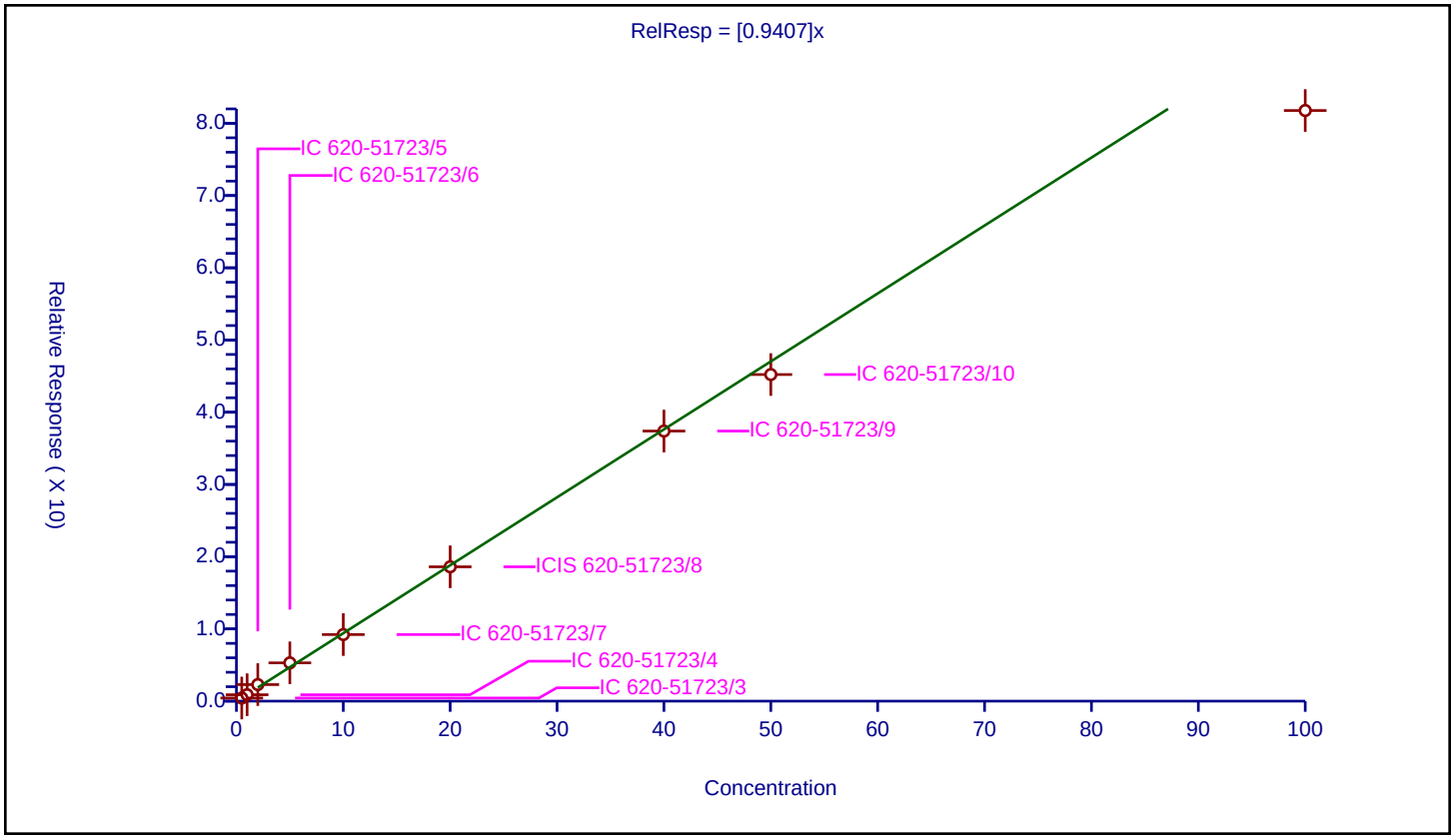
Curve Coefficients

Intercept:	0
Slope:	0.9407

Error Coefficients

Relative Standard Deviation:	10.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.432504	50.0	255720.0	0.865009	Y
2	IC 620-51723/4	1.0	0.886306	50.0	251042.0	0.886306	Y
3	IC 620-51723/5	2.0	2.291799	50.0	249891.0	1.1459	Y
4	IC 620-51723/6	5.0	5.30097	50.0	253397.0	1.060194	Y
5	IC 620-51723/7	10.0	9.218091	50.0	248891.0	0.921809	Y
6	ICIS 620-51723/8	20.0	18.598412	50.0	249731.0	0.929921	Y
7	IC 620-51723/9	40.0	37.393671	50.0	262745.0	0.934842	Y
8	IC 620-51723/10	50.0	45.218426	50.0	276593.0	0.904369	Y
9	IC 620-51723/11	100.0	81.776097	50.0	312787.0	0.817761	Y



8/20/2025
8:44:38 PM

Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

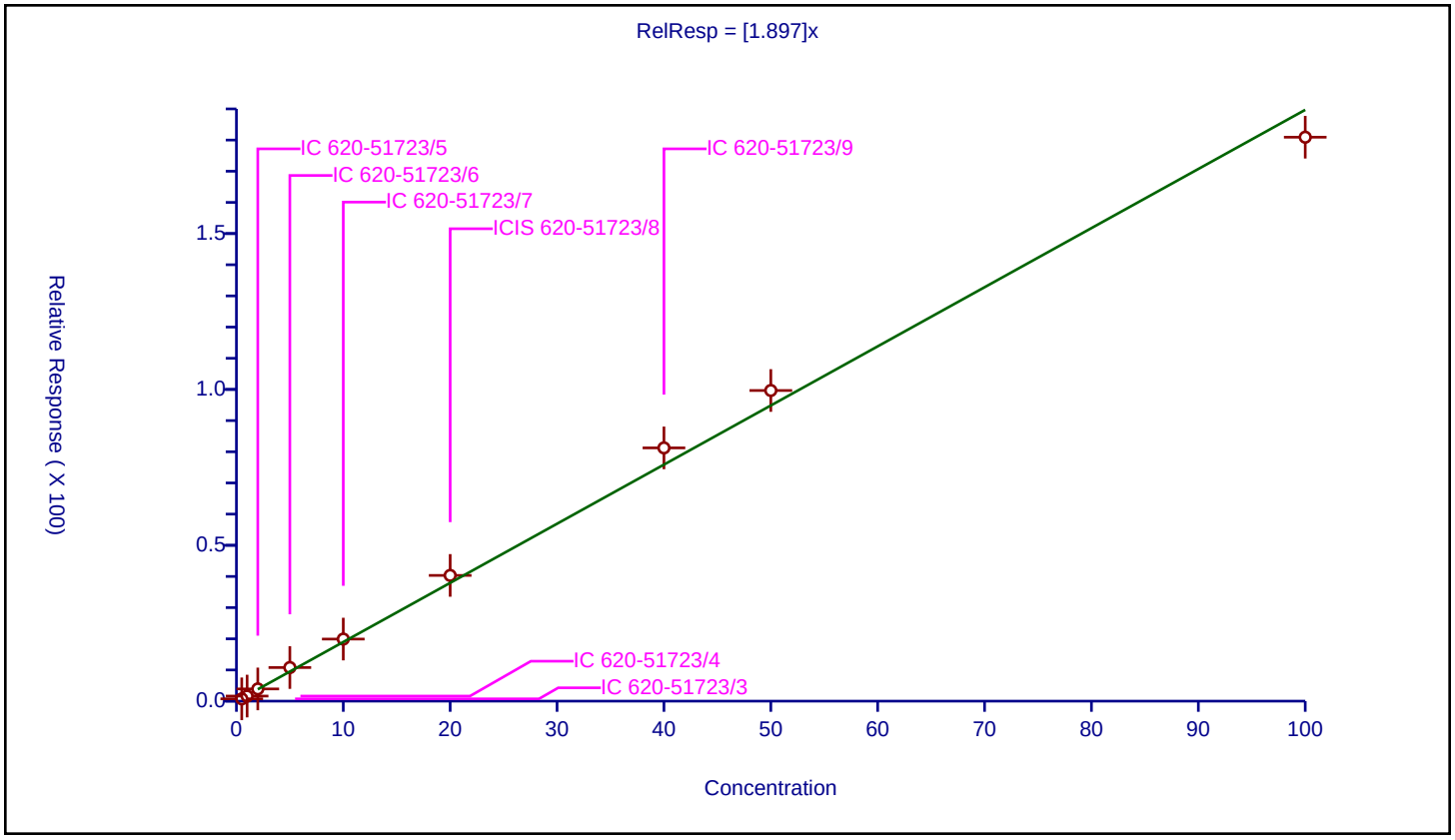
Curve Coefficients

Intercept:	0
Slope:	1.897

Error Coefficients

Relative Standard Deviation:	11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.743196	50.0	255720.0	1.486391	Y
2	IC 620-51723/4	1.0	1.628811	50.0	251042.0	1.628811	Y
3	IC 620-51723/5	2.0	3.918508	50.0	249891.0	1.959254	Y
4	IC 620-51723/6	5.0	10.779725	50.0	253397.0	2.155945	Y
5	IC 620-51723/7	10.0	19.914742	50.0	248891.0	1.991474	Y
6	ICIS 620-51723/8	20.0	40.336202	50.0	249731.0	2.01681	Y
7	IC 620-51723/9	40.0	81.246836	50.0	262745.0	2.031171	Y
8	IC 620-51723/10	50.0	99.659247	50.0	276593.0	1.993185	Y
9	IC 620-51723/11	100.0	180.916087	50.0	312787.0	1.809161	Y



8/20/2025
8:44:38 PM

Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

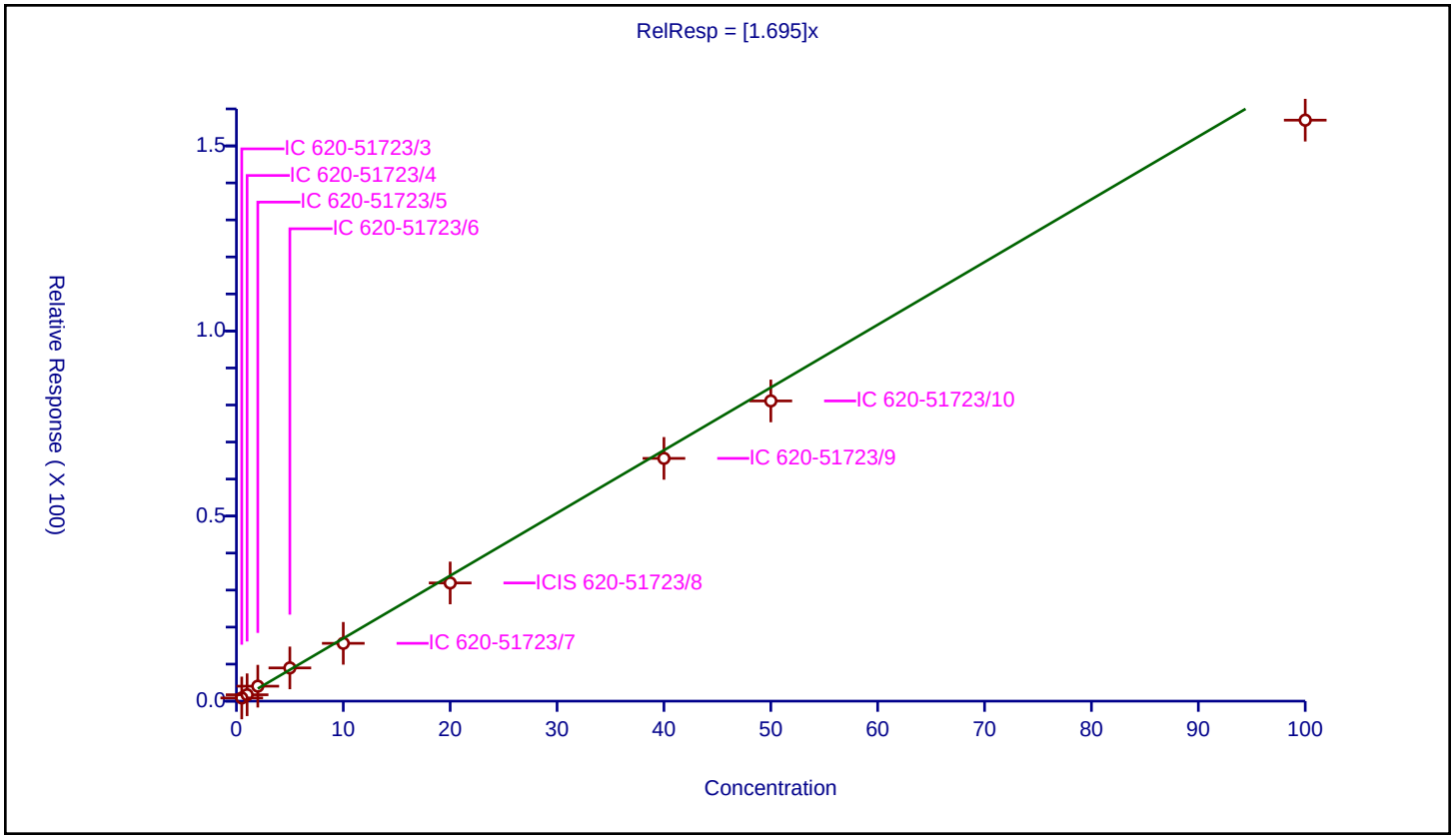
Curve Coefficients

Intercept:	0
Slope:	1.695

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.860138	50.0	153580.0	1.720276	Y
2	IC 620-51723/4	1.0	1.726664	50.0	152230.0	1.726664	Y
3	IC 620-51723/5	2.0	4.037331	50.0	150223.0	2.018666	Y
4	IC 620-51723/6	5.0	8.978249	50.0	154245.0	1.79565	Y
5	IC 620-51723/7	10.0	15.617331	50.0	148729.0	1.561733	Y
6	ICIS 620-51723/8	20.0	31.932793	50.0	147217.0	1.59664	Y
7	IC 620-51723/9	40.0	65.578689	50.0	148655.0	1.639467	Y
8	IC 620-51723/10	50.0	81.105956	50.0	152818.0	1.622119	Y
9	IC 620-51723/11	100.0	156.956981	50.0	160091.0	1.56957	Y



8/20/2025
8:44:38 PM

Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

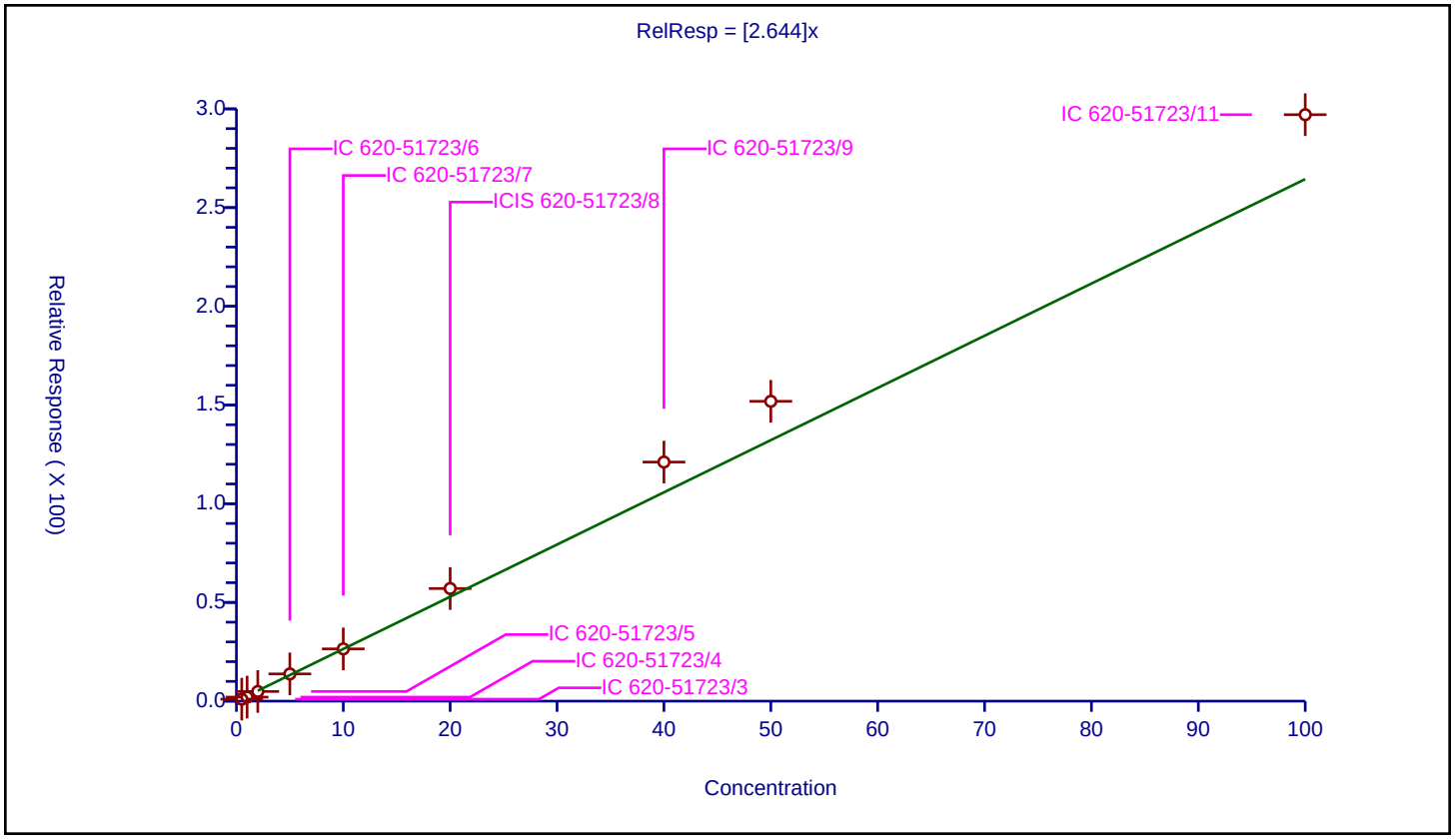
Curve Coefficients

Intercept:	0
Slope:	2.644

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	1.005339	50.0	153580.0	2.010678	Y
2	IC 620-51723/4	1.0	2.044932	50.0	152230.0	2.044932	Y
3	IC 620-51723/5	2.0	4.89439	50.0	150223.0	2.447195	Y
4	IC 620-51723/6	5.0	13.792668	50.0	154245.0	2.758534	Y
5	IC 620-51723/7	10.0	26.468947	50.0	148729.0	2.646895	Y
6	ICIS 620-51723/8	20.0	57.044363	50.0	147217.0	2.852218	Y
7	IC 620-51723/9	40.0	121.108944	50.0	148655.0	3.027724	Y
8	IC 620-51723/10	50.0	151.880014	50.0	152818.0	3.0376	Y
9	IC 620-51723/11	100.0	297.059173	50.0	160091.0	2.970592	Y



8/20/2025
8:44:38 PM

Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

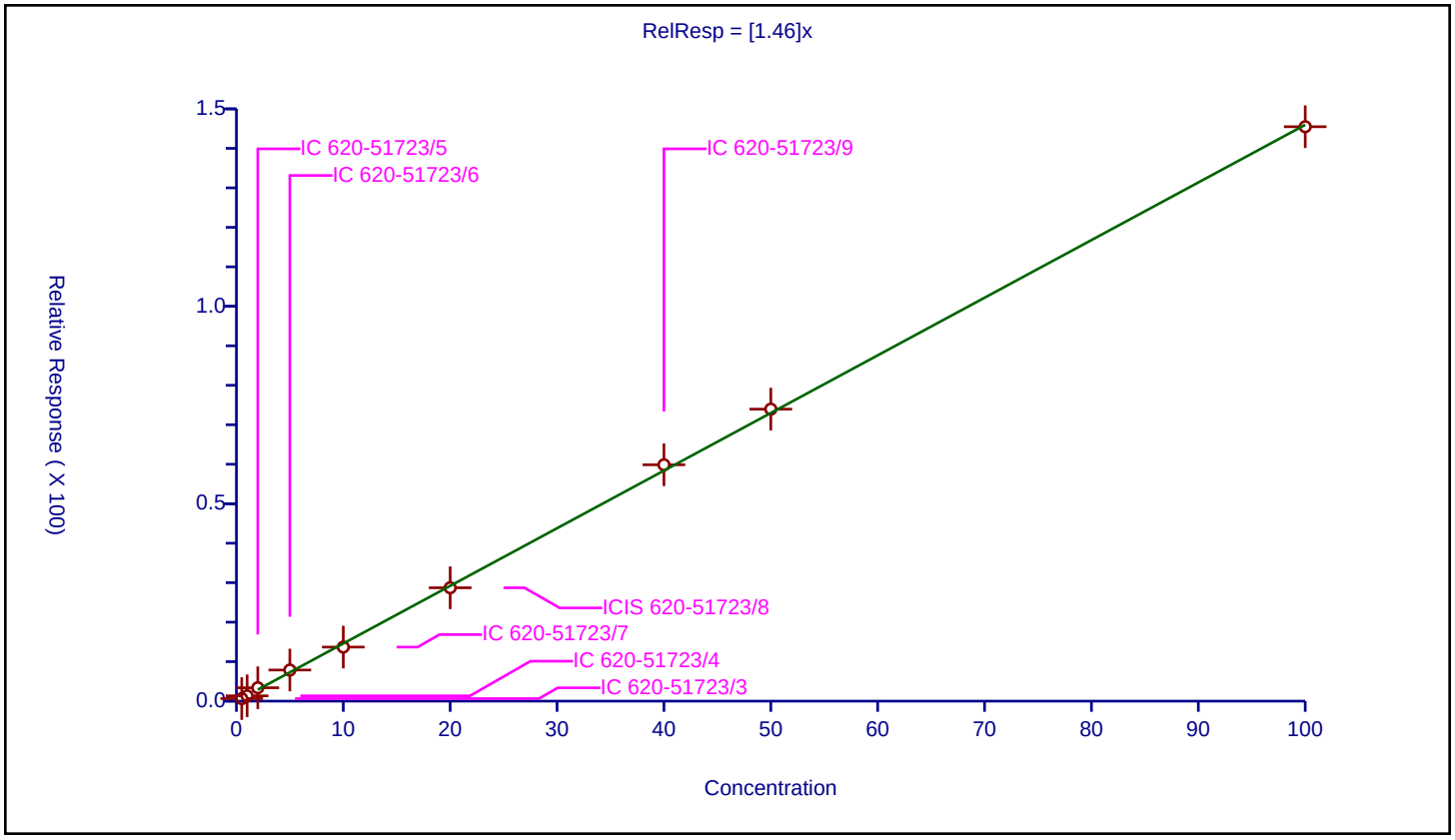
Curve Coefficients

Intercept:	0
Slope:	1.46

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.643638	50.0	153580.0	1.287277	Y
2	IC 620-51723/4	1.0	1.342705	50.0	152230.0	1.342705	Y
3	IC 620-51723/5	2.0	3.390293	50.0	150223.0	1.695147	Y
4	IC 620-51723/6	5.0	7.882589	50.0	154245.0	1.576518	Y
5	IC 620-51723/7	10.0	13.68731	50.0	148729.0	1.368731	Y
6	ICIS 620-51723/8	20.0	28.716113	50.0	147217.0	1.435806	Y
7	IC 620-51723/9	40.0	59.862769	50.0	148655.0	1.496569	Y
8	IC 620-51723/10	50.0	73.958238	50.0	152818.0	1.479165	Y
9	IC 620-51723/11	100.0	145.481945	50.0	160091.0	1.454819	Y



8/20/2025
8:44:38 PM

Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

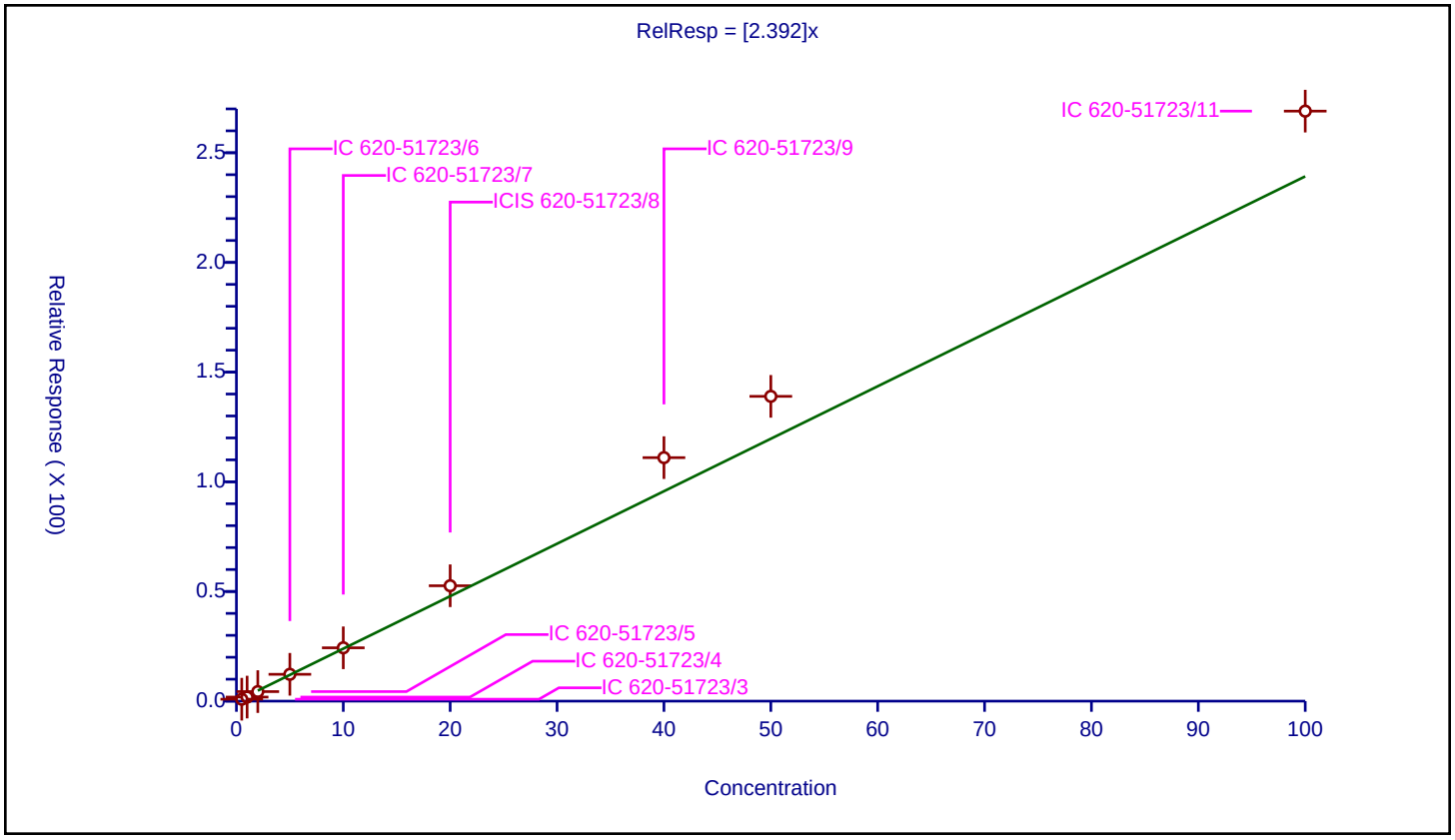
Curve Coefficients

Intercept:	0
Slope:	2.392

Error Coefficients

Relative Standard Deviation:	16.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.87544	50.0	153580.0	1.750879	Y
2	IC 620-51723/4	1.0	1.851475	50.0	152230.0	1.851475	Y
3	IC 620-51723/5	2.0	4.354526	50.0	150223.0	2.177263	Y
4	IC 620-51723/6	5.0	12.231191	50.0	154245.0	2.446238	Y
5	IC 620-51723/7	10.0	24.308978	50.0	148729.0	2.430898	Y
6	ICIS 620-51723/8	20.0	52.600583	50.0	147217.0	2.630029	Y
7	IC 620-51723/9	40.0	111.009048	50.0	148655.0	2.775226	Y
8	IC 620-51723/10	50.0	138.952872	50.0	152818.0	2.779057	Y
9	IC 620-51723/11	100.0	268.985764	50.0	160091.0	2.689858	Y



8/20/2025
8:44:38 PM

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

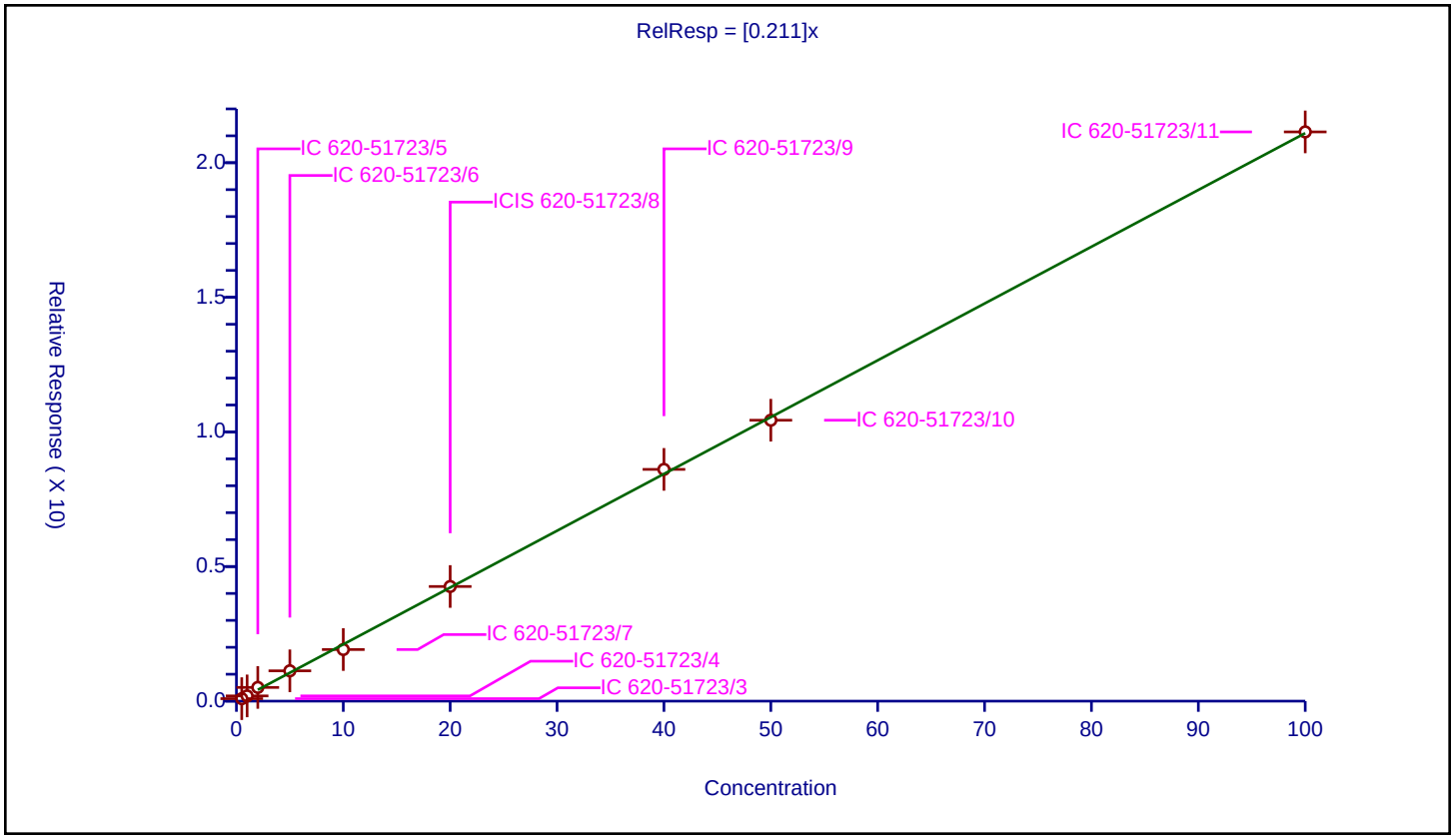
Curve Coefficients

Intercept:	0
Slope:	0.211

Error Coefficients

Relative Standard Deviation:	9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.09246	50.0	153580.0	0.18492	Y
2	IC 620-51723/4	1.0	0.194443	50.0	152230.0	0.194443	Y
3	IC 620-51723/5	2.0	0.508577	50.0	150223.0	0.254289	Y
4	IC 620-51723/6	5.0	1.126131	50.0	154245.0	0.225226	Y
5	IC 620-51723/7	10.0	1.917245	50.0	148729.0	0.191725	Y
6	ICIS 620-51723/8	20.0	4.259019	50.0	147217.0	0.212951	Y
7	IC 620-51723/9	40.0	8.608523	50.0	148655.0	0.215213	Y
8	IC 620-51723/10	50.0	10.434962	50.0	152818.0	0.208699	Y
9	IC 620-51723/11	100.0	21.145474	50.0	160091.0	0.211455	Y



8/20/2025
8:44:38 PM

Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

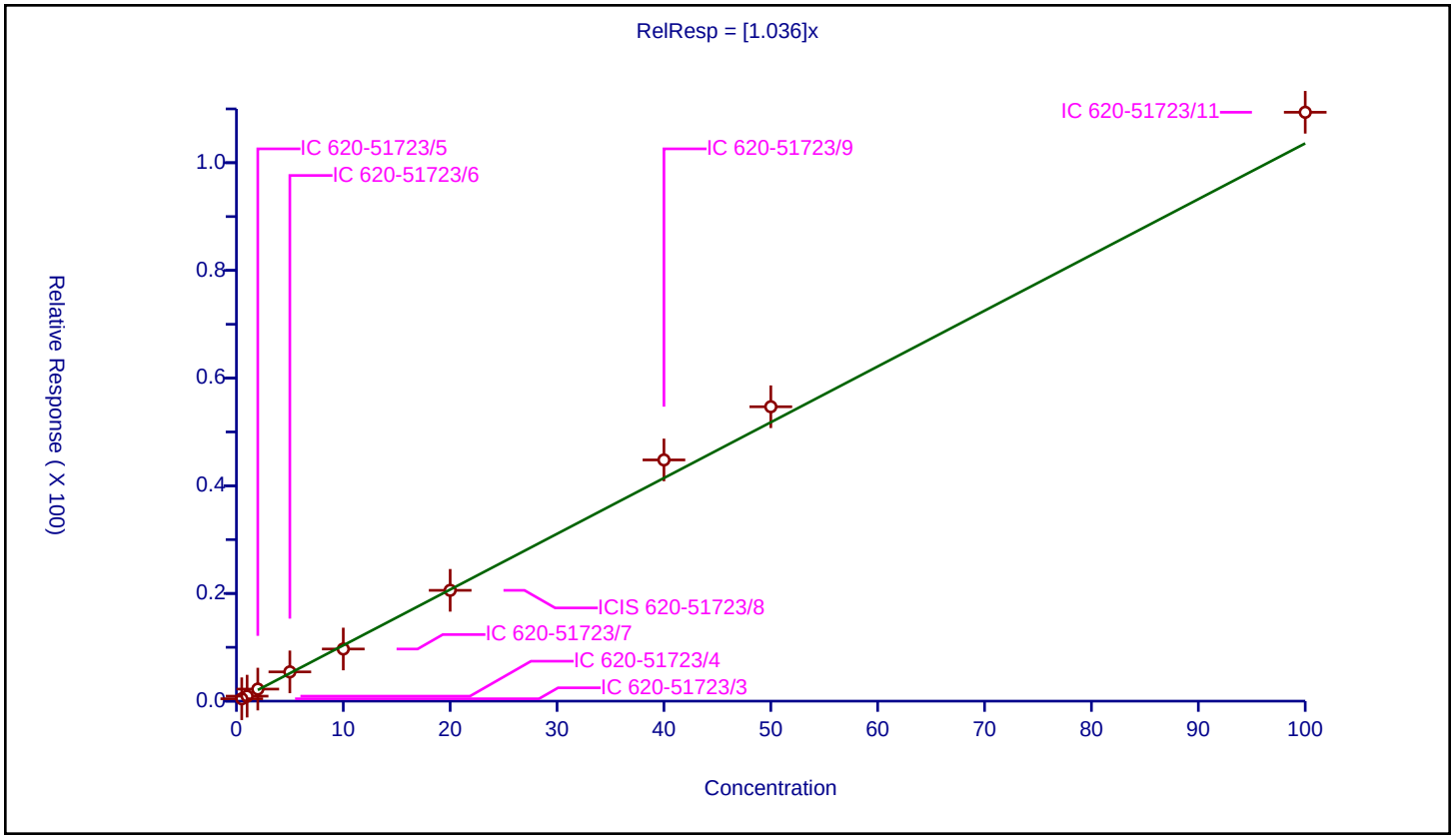
Curve Coefficients

Intercept:	0
Slope:	1.036

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.443092	50.0	153580.0	0.886183	Y
2	IC 620-51723/4	1.0	0.927544	50.0	152230.0	0.927544	Y
3	IC 620-51723/5	2.0	2.236342	50.0	150223.0	1.118171	Y
4	IC 620-51723/6	5.0	5.433239	50.0	154245.0	1.086648	Y
5	IC 620-51723/7	10.0	9.685401	50.0	148729.0	0.96854	Y
6	ICIS 620-51723/8	20.0	20.581862	50.0	147217.0	1.029093	Y
7	IC 620-51723/9	40.0	44.80004	50.0	148655.0	1.120001	Y
8	IC 620-51723/10	50.0	54.681059	50.0	152818.0	1.093621	Y
9	IC 620-51723/11	100.0	109.371857	50.0	160091.0	1.093719	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

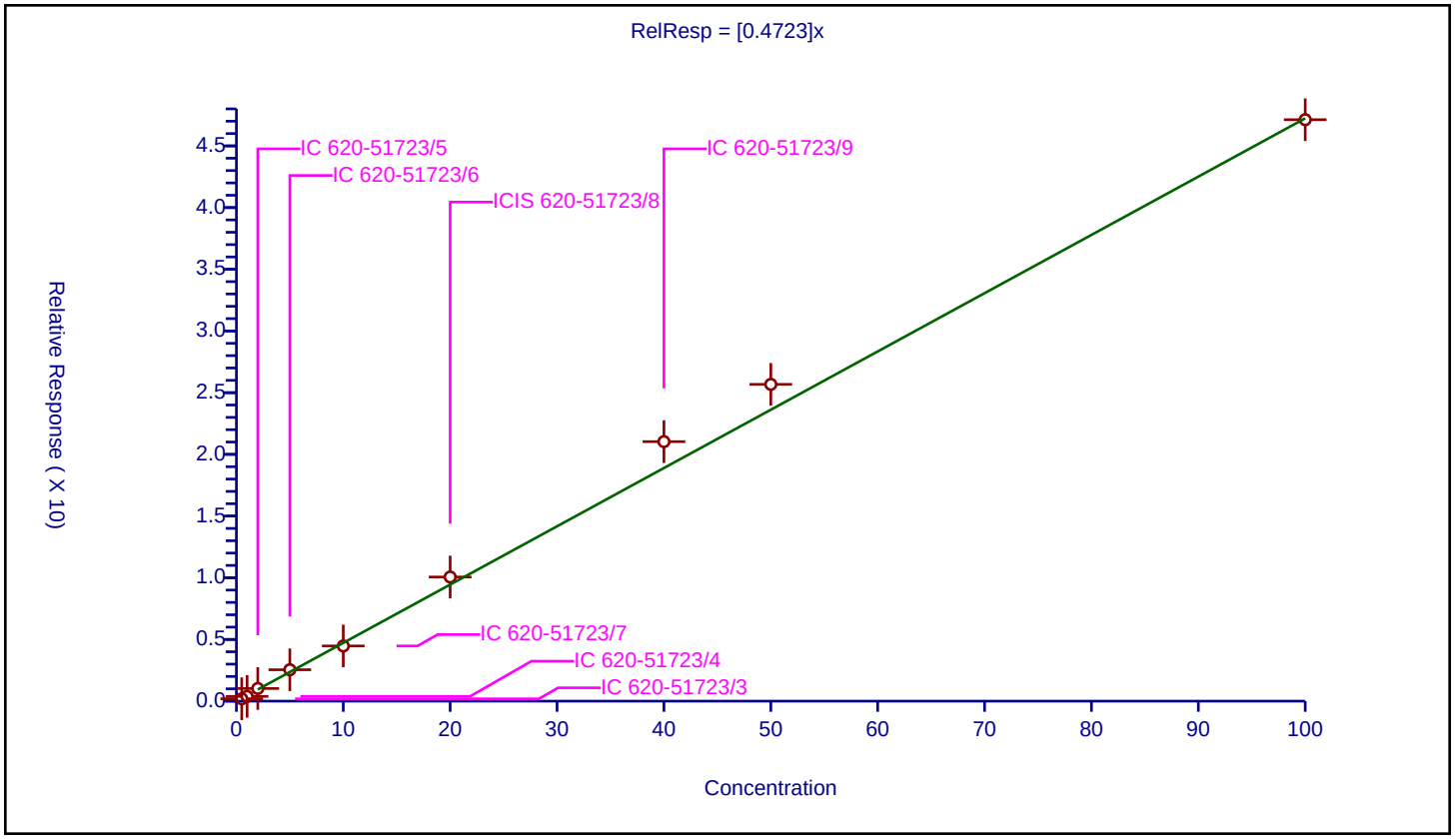
Curve Coefficients

Intercept:	0
Slope:	0.4723

Error Coefficients

Relative Standard Deviation:	11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.191616	50.0	255720.0	0.383232	Y
2	IC 620-51723/4	1.0	0.384796	50.0	251042.0	0.384796	Y
3	IC 620-51723/5	2.0	1.027248	50.0	249891.0	0.513624	Y
4	IC 620-51723/6	5.0	2.543242	50.0	253397.0	0.508648	Y
5	IC 620-51723/7	10.0	4.471034	50.0	248891.0	0.447103	Y
6	ICIS 620-51723/8	20.0	10.060225	50.0	249731.0	0.503011	Y
7	IC 620-51723/9	40.0	21.032941	50.0	262745.0	0.525824	Y
8	IC 620-51723/10	50.0	25.673462	50.0	276593.0	0.513469	Y
9	IC 620-51723/11	100.0	47.123442	50.0	312787.0	0.471234	Y



Calibration / Naphthalene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

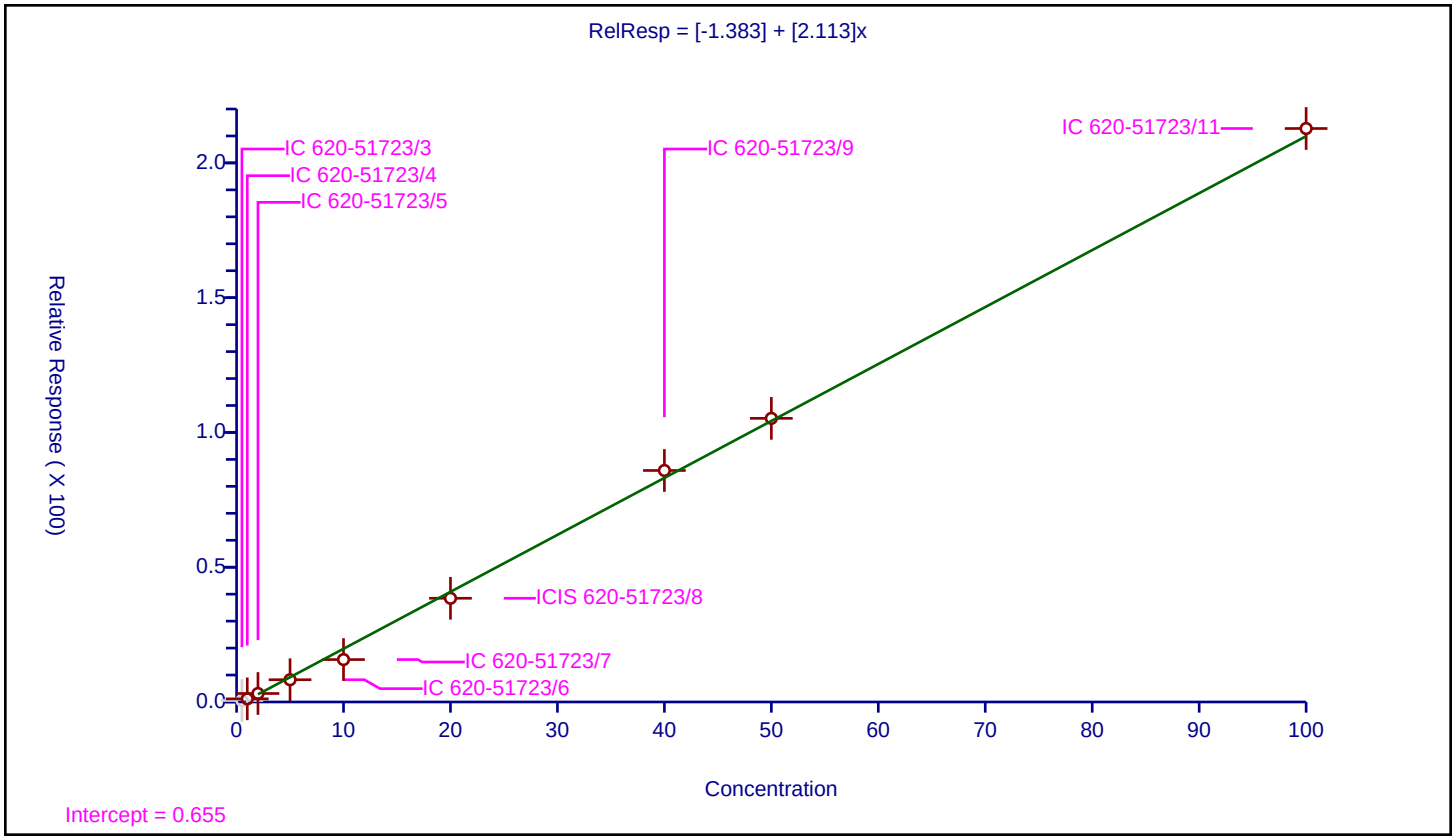
Curve Coefficients

Intercept:	-1.383
Slope:	2.113

Error Coefficients

Relative Standard Deviation:	12.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.539458	50.0	153580.0	1.078917	N
2	IC 620-51723/4	1.0	1.16567	50.0	152230.0	1.16567	Y
3	IC 620-51723/5	2.0	3.146655	50.0	150223.0	1.573328	Y
4	IC 620-51723/6	5.0	8.258615	50.0	154245.0	1.651723	Y
5	IC 620-51723/7	10.0	15.739365	50.0	148729.0	1.573936	Y
6	ICIS 620-51723/8	20.0	38.477214	50.0	147217.0	1.923861	Y
7	IC 620-51723/9	40.0	85.891494	50.0	148655.0	2.147287	Y
8	IC 620-51723/10	50.0	105.228769	50.0	152818.0	2.104575	Y
9	IC 620-51723/11	100.0	212.766801	50.0	160091.0	2.127668	Y



8/20/2025
8:44:38 PM

Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

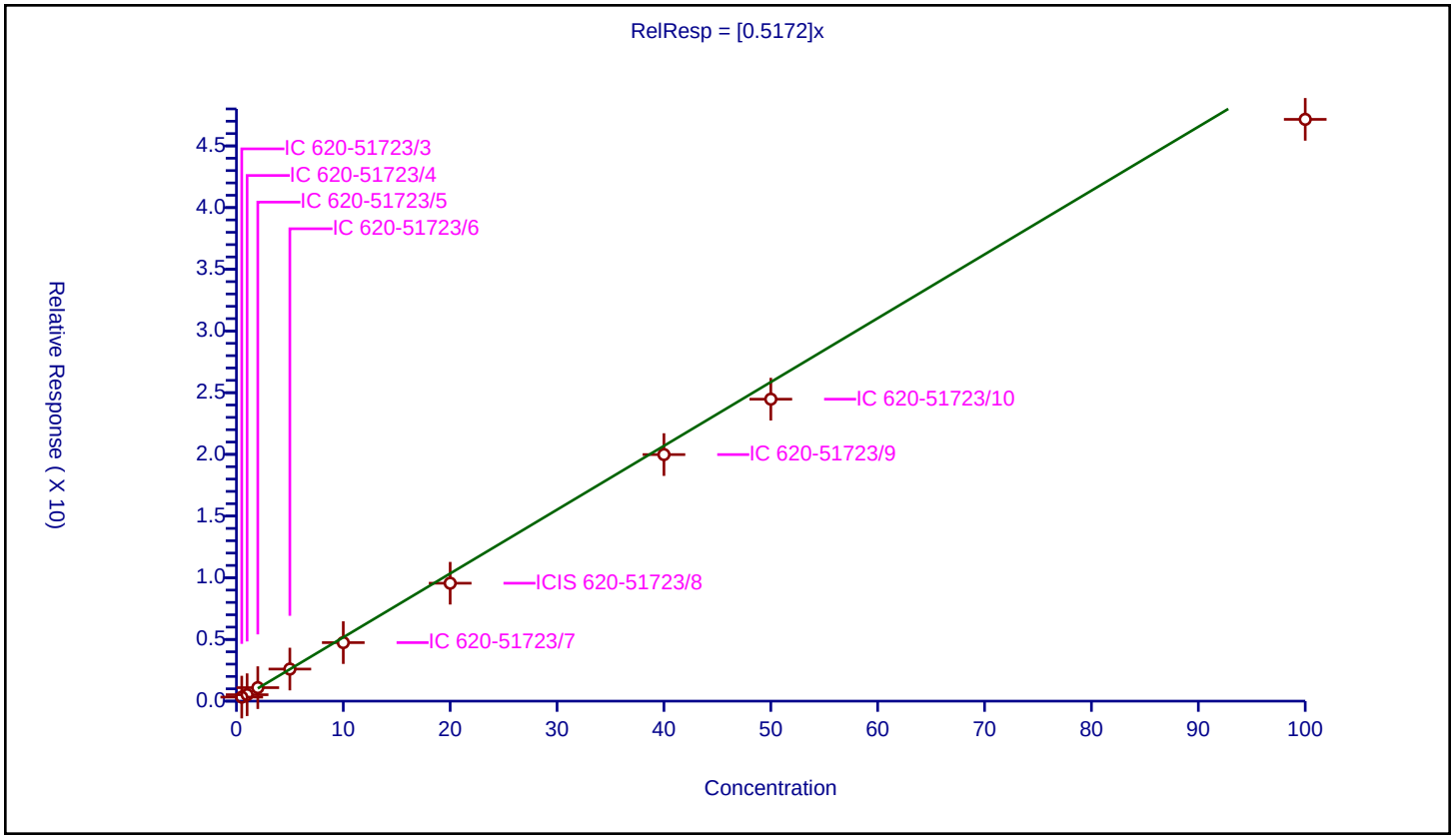
Curve Coefficients

Intercept:	0
Slope:	0.5172

Error Coefficients

Relative Standard Deviation:	11.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.327517	50.0	153580.0	0.655033	Y
2	IC 620-51723/4	1.0	0.520922	50.0	152230.0	0.520922	Y
3	IC 620-51723/5	2.0	1.092709	50.0	150223.0	0.546354	Y
4	IC 620-51723/6	5.0	2.600084	50.0	154245.0	0.520017	Y
5	IC 620-51723/7	10.0	4.742518	50.0	148729.0	0.474252	Y
6	ICIS 620-51723/8	20.0	9.55732	50.0	147217.0	0.477866	Y
7	IC 620-51723/9	40.0	19.982846	50.0	148655.0	0.499571	Y
8	IC 620-51723/10	50.0	24.472575	50.0	152818.0	0.489452	Y
9	IC 620-51723/11	100.0	47.15162	50.0	160091.0	0.471516	Y



8/20/2025
8:44:38 PM

Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

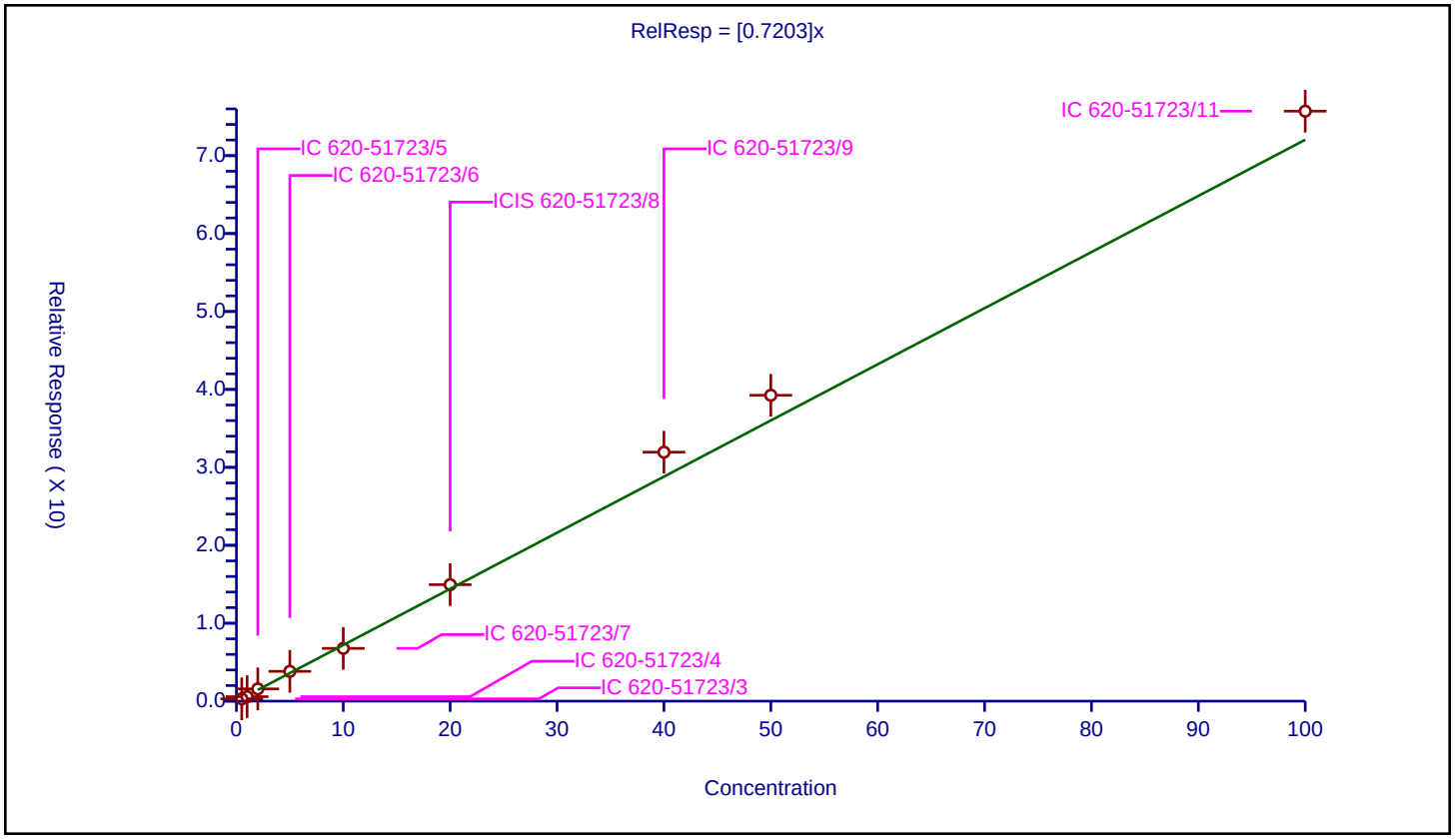
Curve Coefficients

Intercept:	0
Slope:	0.7203

Error Coefficients

Relative Standard Deviation:	11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.297565	50.0	153580.0	0.59513	Y
2	IC 620-51723/4	1.0	0.571832	50.0	152230.0	0.571832	Y
3	IC 620-51723/5	2.0	1.571996	50.0	150223.0	0.785998	Y
4	IC 620-51723/6	5.0	3.823139	50.0	154245.0	0.764628	Y
5	IC 620-51723/7	10.0	6.773393	50.0	148729.0	0.677339	Y
6	ICIS 620-51723/8	20.0	14.946304	50.0	147217.0	0.747315	Y
7	IC 620-51723/9	40.0	31.94679	50.0	148655.0	0.79867	Y
8	IC 620-51723/10	50.0	39.253229	50.0	152818.0	0.785065	Y
9	IC 620-51723/11	100.0	75.706317	50.0	160091.0	0.757063	Y



8/20/2025
8:44:38 PM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Lab Sample ID: ICV 620-51723/16 Calibration Date: 08/07/2025 15:14

Instrument ID: HPV4 Calib Start Date: 07/22/2025 11:31

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 07/22/2025 14:40

Lab File ID: V4-080725-16.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
Ethyl methacrylate	Qua1		0.3093	0.0500		20.0		20.0
Vinyl acetate	Qua1					20.0		20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Lab Sample ID: ICV 620-51723/16 Calibration Date: 08/07/2025 15:14

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-080725-16.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 (Freon 12)	Ave	0.4092	0.2938	0.0100	14.4	20.0	-28.2	50.0
Chloromethane	Ave	0.3336	0.2725	0.0500	16.3	20.0	-18.3	20.0
Vinyl chloride	Ave	0.2562	0.2179	0.0500	17.0	20.0	-15.0	20.0
Bromomethane	Lin1		0.1674	0.0100	19.4	20.0	-3.1	50.0
Chloroethane	Ave	0.1681	0.1520	0.0830	18.1	20.0	-9.6	50.0
Ethanol	Ave	0.0026	0.0022*	0.0023	331	400	-17.2	20.0
Trichlorofluoromethane (Freon 11)	Ave	0.5758	0.5640	0.0500	19.6	20.0	-2.0	20.0
Acetone	Ave	0.1826	0.1460	0.0870	16.0	20.0	-20.1	50.0
Ethyl ether	Ave	0.2313	0.2072	0.0500	17.9	20.0	-10.4	20.0
1,1-Dichloroethene	Ave	0.2619	0.2332	0.0500	17.8	20.0	-10.9	20.0
Iodomethane	Qua1		0.1161	0.0500	17.0	20.0	-15.0	20.0
tert-Butanol	Ave	0.0233	0.0179	0.0080	154	200	-23.2*	20.0
Acrylonitrile	Ave	0.1131	0.1014	0.0430	17.9	20.0	-10.4	20.0
Methylene Chloride	Lin1		0.3113	0.0500	18.3	20.0	-8.3	20.0
1,1,2-Trichlorotrifluoroethane (Freon 113)	Ave	0.3254	0.2744	0.0500	16.9	20.0	-15.7	20.0
Methyl acetate	Ave	0.2387	0.2357	0.0500	19.8	20.0	-1.2	20.0
Carbon disulfide	Ave	0.9589	0.9278	0.0500	19.4	20.0	-3.2	20.0
trans-1,2-Dichloroethene	Ave	0.2766	0.2628	0.0500	19.0	20.0	-5.0	20.0
Methyl tert-butyl ether	Ave	0.7113	0.6903	0.0500	19.4	20.0	-3.0	20.0
1,1-Dichloroethane	Ave	0.5500	0.5062	0.0500	18.4	20.0	-8.0	20.0
2-Butanone (MEK)	Qua1		0.0816*	0.0950	15.5	20.0	-22.4	50.0
di-Isopropyl ether	Ave	0.7361	0.7124	0.0500	19.4	20.0	-3.2	20.0
cis-1,2-Dichloroethene	Ave	0.3106	0.2996	0.0500	19.3	20.0	-3.5	20.0
Bromochloromethane	Ave	0.1504	0.1391	0.0900	18.5	20.0	-7.5	20.0
Chloroform	Lin1		0.6492	0.0500	18.8	20.0	-6.2	20.0
2,2-Dichloropropane	Ave	0.3178	0.3044	0.0500	19.2	20.0	-4.2	20.0
Ethyl tert-butyl ether	Ave	0.7270	0.7005	0.0500	19.3	20.0	-3.6	20.0
Tetrahydrofuran	Ave	0.0686	0.0582	0.0290	17.0	20.0	-15.2	20.0
1,2-Dichloroethane	Ave	0.5209	0.4403	0.0500	16.9	20.0	-15.5	20.0
1,1,1-Trichloroethane	Ave	0.3974	0.3961	0.0500	19.9	20.0	-0.3	20.0
1,1-Dichloropropene	Ave	0.3655	0.3668	0.0500	20.1	20.0	0.4	20.0
Cyclohexane	Ave	0.4262	0.5082	0.0500	23.8	20.0	19.2	20.0
Carbon tetrachloride	Ave	0.1193	0.1679	0.0500	28.1	20.0	40.7*	20.0
Benzene	Ave	1.205	1.038	0.0500	17.2	20.0	-13.9	20.0
Tert-amyl methyl ether	Lin1		0.6241	0.0500	17.8	20.0	-11.2	20.0
Dibromomethane	Ave	0.2160	0.1948	0.1100	18.0	20.0	-9.8	20.0
1,2-Dichloropropane	Ave	0.2709	0.2553	0.0500	18.8	20.0	-5.8	20.0
Trichloroethene	Ave	0.3214	0.2868	0.0500	17.8	20.0	-10.8	20.0
Bromodichloromethane	Lin1		0.4318	0.0500	20.0	20.0	0.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Lab Sample ID: ICV 620-51723/16 Calibration Date: 08/07/2025 15:14

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-080725-16.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
1,4-Dioxane	Lin1		0.0023	0.0010	164	200	-17.8	50.0
Methylcyclohexane	Ave	0.4558	0.5688	0.0500	25.0	20.0	24.8*	20.0
cis-1,3-Dichloropropene	Ave	0.4392	0.4347	0.0500	19.8	20.0	-1.0	20.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.1691	0.0990	14.9	20.0	-25.6	50.0
trans-1,3-Dichloropropene	Ave	0.4224	0.4265	0.0500	20.2	20.0	1.0	20.0
1,1,2-Trichloroethane	Ave	0.2456	0.2188	0.0500	17.8	20.0	-10.9	20.0
Toluene	Ave	0.7205	0.6379	0.0500	17.7	20.0	-11.5	20.0
1,3-Dichloropropane	Ave	0.4875	0.4432	0.0500	18.2	20.0	-9.1	20.0
Dibromochloromethane	Ave	0.3754	0.3203	0.0500	17.1	20.0	-14.7	20.0
2-Hexanone (MBK)	Qua1		0.1743	0.0860	18.7	20.0	-6.3	50.0
1,2-Dibromoethane (EDB)	Ave	0.2904	0.2684	0.0500	18.5	20.0	-7.6	20.0
Tetrachloroethene	Ave	0.3379	0.3097	0.0500	18.3	20.0	-8.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4341	0.3840	0.0500	17.7	20.0	-11.5	20.0
Chlorobenzene	Ave	1.094	0.9868	0.0500	18.0	20.0	-9.8	20.0
Ethylbenzene	Ave	1.752	1.672	0.0500	19.1	20.0	-4.6	20.0
Bromoform	Ave	0.3558	0.3122	0.0500	17.6	20.0	-12.2	20.0
m,p-Xylene	Ave	1.283	1.322	0.0500	41.2	40.0	3.1	20.0
Styrene	Ave	0.9093	0.9581	0.0500	21.1	20.0	5.4	20.0
1,1,2,2-Tetrachloroethane	Qua1		0.4713	0.0500	16.1	20.0	-19.6	20.0
o-Xylene	Ave	1.459	1.393	0.0500	19.1	20.0	-4.5	20.0
1,2,3-Trichloropropane	Ave	0.4716	0.3885	0.0500	16.5	20.0	-17.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.0931	0.0791*	0.0910	17.0	20.0	-15.0	20.0
Isopropylbenzene	Ave	1.915	1.672	0.0500	17.5	20.0	-12.7	20.0
Bromobenzene	Ave	0.5047	0.4551	0.0500	18.0	20.0	-9.8	20.0
N-Propylbenzene	Lin1		2.233	0.0500	18.8	20.0	-6.0	20.0
2-Chlorotoluene	Ave	0.4171	0.3943	0.0500	18.9	20.0	-5.5	20.0
4-Chlorotoluene	Ave	1.432	1.338	0.0500	18.7	20.0	-6.6	20.0
1,3,5-Trimethylbenzene	Ave	1.440	1.411	0.0500	19.6	20.0	-2.0	20.0
tert-Butylbenzene	Ave	0.8790	0.8709	0.0500	19.8	20.0	-0.9	20.0
1,2,4-Trimethylbenzene	Ave	1.448	1.435	0.0500	19.8	20.0	-0.9	20.0
1,3-Dichlorobenzene	Ave	0.9407	0.8459	0.0500	18.0	20.0	-10.1	20.0
sec-Butylbenzene	Ave	1.897	1.785	0.0500	18.8	20.0	-5.9	20.0
1,4-Dichlorobenzene	Ave	1.695	1.494	0.0500	17.6	20.0	-11.8	20.0
4-Isopropyltoluene	Ave	2.644	2.643	0.0500	20.0	20.0	-0.0	20.0
1,2-Dichlorobenzene	Ave	1.460	1.370	0.0500	18.8	20.0	-6.1	20.0
n-Butylbenzene	Ave	2.392	2.611	0.0500	21.8	20.0	9.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2110	0.1670	0.0630	15.8	20.0	-20.9*	20.0
1,3,5-Trichlorobenzene	Ave	1.036	1.002	0.0500	19.3	20.0	-3.3	20.0
1,2,4-Trichlorobenzene	Ave	0.4723	0.4512	0.0500	19.1	20.0	-4.5	20.0
Naphthalene	Lin1		1.634	0.0500	16.1	20.0	-19.4	20.0
Hexachlorobutadiene	Ave	0.5172	0.4446	0.0500	17.2	20.0	-14.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Lab Sample ID: ICV 620-51723/16 Calibration Date: 08/07/2025 15:14

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-080725-16.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
1,2,3-Trichlorobenzene	Ave	0.7203	0.6771	0.0500	18.8	20.0	-6.0	20.0
Dibromofluoromethane (Surr)	Ave	0.3154	0.3185	0.0500	50.5	50.0	1.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4129	0.3963	0.0500	48.0	50.0	-4.0	20.0
Toluene-d8 (Surr)	Ave	0.9541	0.9485	0.0500	49.7	50.0	-0.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5442	0.5450	0.0500	50.1	50.0	0.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCVIS 620-51995/3 Calibration Date: 08/13/2025 08:32

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-081325-03.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 (Freon 12)	Ave	0.4092	0.2541	0.0100	12.4	20.0	-37.9	50.0
Chloromethane	Ave	0.3336	0.2115	0.0500	12.7	20.0	-36.6	50.0
Vinyl chloride	Ave	0.2562	0.2097	0.0500	16.4	20.0	-18.2	20.0
Bromomethane	Lin1		0.0742	0.0100	8.09	20.0	-59.5*	50.0
Chloroethane	Ave	0.1681	0.1537	0.0830	18.3	20.0	-8.6	50.0
Ethanol	Ave	0.0026	0.0024	0.0023	374	400	-6.6	50.0
Trichlorofluoromethane (Freon 11)	Ave	0.5758	0.5685	0.0500	19.7	20.0	-1.3	20.0
Acetone	Ave	0.1826	0.1517	0.0870	16.6	20.0	-16.9	50.0
Ethyl ether	Ave	0.2313	0.2115	0.0500	18.3	20.0	-8.5	20.0
1,1-Dichloroethene	Ave	0.2619	0.2500	0.0500	19.1	20.0	-4.5	20.0
tert-Butanol	Ave	0.0233	0.0265	0.0080	228	200	14.0	20.0
Acrylonitrile	Ave	0.1131	0.1191	0.0430	21.1	20.0	5.3	20.0
Methylene Chloride	Lin1		0.3444	0.0500	20.4	20.0	1.8	20.0
1,1,2-Trichlorotrifluoroethane (Freon 113)	Ave	0.3254	0.3019	0.0500	18.6	20.0	-7.2	20.0
Carbon disulfide	Ave	0.9589	1.049	0.0500	21.9	20.0	9.4	20.0
trans-1,2-Dichloroethene	Ave	0.2766	0.2844	0.0500	20.6	20.0	2.8	20.0
Methyl tert-butyl ether	Ave	0.7113	0.7551	0.0500	21.2	20.0	6.2	20.0
1,1-Dichloroethane	Ave	0.5500	0.5618	0.0500	20.4	20.0	2.1	20.0
2-Butanone (MEK)	Qua1		0.0819*	0.0950	15.6	20.0	-22.2	50.0
di-Isopropyl ether	Ave	0.7361	0.7445	0.0500	20.2	20.0	1.1	20.0
cis-1,2-Dichloroethene	Ave	0.3106	0.3311	0.0500	21.3	20.0	6.6	20.0
Bromochloromethane	Ave	0.1504	0.1614	0.0900	21.5	20.0	7.3	50.0
Chloroform	Lin1		0.7017	0.0500	20.4	20.0	1.8	20.0
2,2-Dichloropropane	Ave	0.3178	0.3440	0.0500	21.6	20.0	8.2	20.0
Ethyl tert-butyl ether	Ave	0.7270	0.7598	0.0500	20.9	20.0	4.5	20.0
Tetrahydrofuran	Ave	0.0686	0.0697	0.0290	20.3	20.0	1.7	20.0
1,2-Dichloroethane	Ave	0.5209	0.4947	0.0500	19.0	20.0	-5.0	20.0
1,1,1-Trichloroethane	Ave	0.3974	0.4060	0.0500	20.4	20.0	2.2	20.0
1,1-Dichloropropene	Ave	0.3655	0.3942	0.0500	21.6	20.0	7.9	20.0
Carbon tetrachloride	Ave	0.1193	0.1123	0.0500	18.8	20.0	-5.9	20.0
Benzene	Ave	1.205	1.133	0.0500	18.8	20.0	-6.0	20.0
Tert-amyl methyl ether	Lin1		0.6905	0.0500	19.8	20.0	-1.2	20.0
Dibromomethane	Ave	0.2160	0.2244	0.1100	20.8	20.0	3.9	20.0
1,2-Dichloropropane	Ave	0.2709	0.2820	0.0500	20.8	20.0	4.1	20.0
Trichloroethene	Ave	0.3214	0.3352	0.0500	20.9	20.0	4.3	20.0
Bromodichloromethane	Lin1		0.4807	0.0500	22.3	20.0	11.7	20.0
1,4-Dioxane	Lin1		0.0025	0.0010	180	200	-9.9	50.0
cis-1,3-Dichloropropene	Ave	0.4392	0.4692	0.0500	21.4	20.0	6.8	20.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.1997	0.0990	17.4	20.0	-12.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCVIS 620-51995/3 Calibration Date: 08/13/2025 08:32

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-081325-03.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
trans-1,3-Dichloropropene	Ave	0.4224	0.4777	0.0500	22.6	20.0	13.1	20.0
1,1,2-Trichloroethane	Ave	0.2456	0.2562	0.0500	20.9	20.0	4.3	20.0
Toluene	Ave	0.7205	0.7168	0.0500	19.9	20.0	-0.5	20.0
1,3-Dichloropropane	Ave	0.4875	0.5056	0.0500	20.7	20.0	3.7	20.0
Dibromochloromethane	Ave	0.3754	0.3631	0.0500	19.3	20.0	-3.3	20.0
2-Hexanone (MBK)	Qua1		0.1507	0.0860	16.8	20.0	-16.1	50.0
1,2-Dibromoethane (EDB)	Ave	0.2904	0.3143	0.0500	21.6	20.0	8.2	20.0
Tetrachloroethene	Ave	0.3379	0.3496	0.0500	20.7	20.0	3.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4341	0.4386	0.0500	20.2	20.0	1.0	20.0
Chlorobenzene	Ave	1.094	1.143	0.0500	20.9	20.0	4.5	20.0
Ethylbenzene	Ave	1.752	1.929	0.0500	22.0	20.0	10.1	20.0
Bromoform	Ave	0.3558	0.3781	0.0500	21.3	20.0	6.3	50.0
m,p-Xylene	Ave	1.283	1.512	0.0500	47.2	40.0	17.9	20.0
Styrene	Ave	0.9093	1.102	0.0500	24.2	20.0	21.2*	20.0
1,1,2,2-Tetrachloroethane	Qua1		0.5702	0.0500	19.6	20.0	-1.9	20.0
o-Xylene	Ave	1.459	1.612	0.0500	22.1	20.0	10.5	20.0
1,2,3-Trichloropropane	Ave	0.4716	0.4691	0.0500	19.9	20.0	-0.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.0931	0.0951	0.0910	20.4	20.0	2.1	20.0
Isopropylbenzene	Ave	1.915	1.909	0.0500	19.9	20.0	-0.3	20.0
Bromobenzene	Ave	0.5047	0.5240	0.0500	20.8	20.0	3.8	20.0
N-Propylbenzene	Lin1		2.411	0.0500	20.3	20.0	1.3	20.0
2-Chlorotoluene	Ave	0.4171	0.4558	0.0500	21.9	20.0	9.3	20.0
4-Chlorotoluene	Ave	1.432	1.525	0.0500	21.3	20.0	6.5	20.0
1,3,5-Trimethylbenzene	Ave	1.440	1.588	0.0500	22.1	20.0	10.3	20.0
tert-Butylbenzene	Ave	0.8790	0.9772	0.0500	22.2	20.0	11.2	20.0
1,2,4-Trimethylbenzene	Ave	1.448	1.642	0.0500	22.7	20.0	13.4	20.0
1,3-Dichlorobenzene	Ave	0.9407	0.9628	0.0500	20.5	20.0	2.3	20.0
sec-Butylbenzene	Ave	1.897	2.040	0.0500	21.5	20.0	7.5	20.0
1,4-Dichlorobenzene	Ave	1.695	1.658	0.0500	19.6	20.0	-2.1	20.0
4-Isopropyltoluene	Ave	2.644	2.892	0.0500	21.9	20.0	9.4	20.0
1,2-Dichlorobenzene	Ave	1.460	1.517	0.0500	20.8	20.0	3.9	20.0
n-Butylbenzene	Ave	2.392	2.859	0.0500	23.9	20.0	19.5	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2110	0.2119	0.0630	20.1	20.0	0.4	20.0
1,3,5-Trichlorobenzene	Ave	1.036	1.138	0.0500	22.0	20.0	9.8	20.0
1,2,4-Trichlorobenzene	Ave	0.4723	0.5089	0.0500	21.5	20.0	7.7	20.0
Naphthalene	Lin1		1.872	0.0500	18.4	20.0	-8.1	20.0
Hexachlorobutadiene	Ave	0.5172	0.4845	0.0500	18.7	20.0	-6.3	20.0
1,2,3-Trichlorobenzene	Ave	0.7203	0.7617	0.0500	21.1	20.0	5.7	20.0
Dibromofluoromethane (Surr)	Ave	0.3154	0.3161	0.0500	50.1	50.0	0.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4129	0.4035	0.0500	48.9	50.0	-2.3	20.0
Toluene-d8 (Surr)	Ave	0.9541	0.9681	0.0500	50.7	50.0	1.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCVIS 620-51995/3 Calibration Date: 08/13/2025 08:32

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-081325-03.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
4-Bromofluorobenzene (Surr)	Ave	0.5442	0.5488	0.0500	50.4	50.0	0.9	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-51995/7

Matrix: Water | Lab File ID: V4-081325-07.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 10:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	1.12	J	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-51995/7

Matrix: Water | Lab File ID: V4-081325-07.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 10:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	1.0	U	1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-51995/7

Matrix: Water | Lab File ID: V4-081325-07.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 10:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-51995/4

Matrix: Water | Lab File ID: V4-081325-04.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 08:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	18.0		1.0	0.20
67-64-1	Acetone	14.5		10	0.90
107-13-1	Acrylonitrile	20.2		1.0	0.36
71-43-2	Benzene	18.5		1.0	0.25
108-86-1	Bromobenzene	20.0		1.0	0.40
74-97-5	Bromochloromethane	20.5		1.0	0.39
75-27-4	Bromodichloromethane	20.6		0.50	0.33
75-25-2	Bromoform	20.4		1.0	0.45
74-83-9	Bromomethane	8.33		2.0	0.63
78-93-3	2-Butanone (MEK)	13.6		2.0	0.58
104-51-8	n-Butylbenzene	23.4		1.0	0.45
135-98-8	sec-Butylbenzene	21.0		1.0	0.40
98-06-6	tert-Butylbenzene	21.7		1.0	0.40
75-15-0	Carbon disulfide	21.2		2.0	0.44
56-23-5	Carbon tetrachloride	19.2		1.0	0.25
108-90-7	Chlorobenzene	20.3		1.0	0.42
75-00-3	Chloroethane	17.2		2.0	0.41
67-66-3	Chloroform	19.6		1.0	0.30
74-87-3	Chloromethane	13.0		2.0	0.49
95-49-8	2-Chlorotoluene	21.1		1.0	0.43
106-43-4	4-Chlorotoluene	20.8		1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	19.6		2.0	0.51
124-48-1	Dibromochloromethane	18.6		0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	20.6		0.50	0.34
74-95-3	Dibromomethane	20.2		1.0	0.36
95-50-1	1,2-Dichlorobenzene	20.4		1.0	0.48
541-73-1	1,3-Dichlorobenzene	19.8		1.0	0.50
106-46-7	1,4-Dichlorobenzene	19.2		1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	11.4		2.0	0.29
75-34-3	1,1-Dichloroethane	19.7		1.0	0.36
107-06-2	1,2-Dichloroethane	18.2		1.0	0.26
75-35-4	1,1-Dichloroethene	18.7		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-51995/4

Matrix: Water | Lab File ID: V4-081325-04.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 08:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	20.9		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	20.0		1.0	0.19
78-87-5	1,2-Dichloropropane	20.3		1.0	0.36
142-28-9	1,3-Dichloropropane	20.1		1.0	0.32
594-20-7	2,2-Dichloropropane	21.4		1.0	0.49
563-58-6	1,1-Dichloropropene	21.0		1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	21.0		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	22.0		0.50	0.37
100-41-4	Ethylbenzene	21.4		1.0	0.36
87-68-3	Hexachlorobutadiene	19.3		1.0	0.24
591-78-6	2-Hexanone (MBK)	16.0		2.0	0.69
98-82-8	Isopropylbenzene	19.4		1.0	0.38
99-87-6	4-Isopropyltoluene	21.9		1.0	0.43
1634-04-4	Methyl tert-butyl ether	20.6		1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	17.1		2.0	0.35
75-09-2	Methylene Chloride	19.7		2.0	0.54
91-20-3	Naphthalene	18.4		2.0	0.70
103-65-1	N-Propylbenzene	19.7		1.0	0.36
100-42-5	Styrene	23.7		1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	19.5		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	19.0		0.50	0.46
127-18-4	Tetrachloroethene	20.2		1.0	0.36
108-88-3	Toluene	19.4		1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	20.8		1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	21.3		1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	21.2		1.0	0.54
71-55-6	1,1,1-Trichloroethane	20.1		1.0	0.33
79-00-5	1,1,2-Trichloroethane	20.5		1.0	0.35
79-01-6	Trichloroethene	20.1		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	18.7		1.0	0.23
96-18-4	1,2,3-Trichloropropane	19.4		1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	22.0		1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-51995/4

Matrix: Water | Lab File ID: V4-081325-04.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 08:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	21.4		1.0	0.45
75-01-4	Vinyl chloride	15.7		1.0	0.26
179601-23-1	m,p-Xylene	45.9		1.0	0.78
95-47-6	o-Xylene	21.2		1.0	0.43
109-99-9	Tetrahydrofuran	20.5		2.0	0.70
60-29-7	Ethyl ether	18.5		1.0	0.42
994-05-8	Tert-amyl methyl ether	19.4		1.0	0.26
637-92-3	Ethyl tert-butyl ether	20.3		1.0	0.29
108-20-3	di-Isopropyl ether	19.8		1.0	0.26
75-65-0	tert-Butanol	220		10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	19.7		5.0	0.81
64-17-5	Ethanol	425		200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-51995/5

Matrix: Water | Lab File ID: V4-081325-05.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 09:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	18.0		1.0	0.20
67-64-1	Acetone	14.0		10	0.90
107-13-1	Acrylonitrile	20.7		1.0	0.36
71-43-2	Benzene	18.9		1.0	0.25
108-86-1	Bromobenzene	20.3		1.0	0.40
74-97-5	Bromochloromethane	21.0		1.0	0.39
75-27-4	Bromodichloromethane	21.6		0.50	0.33
75-25-2	Bromoform	21.0		1.0	0.45
74-83-9	Bromomethane	9.25		2.0	0.63
78-93-3	2-Butanone (MEK)	13.1		2.0	0.58
104-51-8	n-Butylbenzene	24.2		1.0	0.45
135-98-8	sec-Butylbenzene	21.7		1.0	0.40
98-06-6	tert-Butylbenzene	22.0		1.0	0.40
75-15-0	Carbon disulfide	21.4		2.0	0.44
56-23-5	Carbon tetrachloride	19.3		1.0	0.25
108-90-7	Chlorobenzene	20.8		1.0	0.42
75-00-3	Chloroethane	15.9		2.0	0.41
67-66-3	Chloroform	20.0		1.0	0.30
74-87-3	Chloromethane	12.8		2.0	0.49
95-49-8	2-Chlorotoluene	21.4		1.0	0.43
106-43-4	4-Chlorotoluene	21.1		1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	19.5		2.0	0.51
124-48-1	Dibromochloromethane	18.8		0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	21.2		0.50	0.34
74-95-3	Dibromomethane	20.4		1.0	0.36
95-50-1	1,2-Dichlorobenzene	20.8		1.0	0.48
541-73-1	1,3-Dichlorobenzene	20.6		1.0	0.50
106-46-7	1,4-Dichlorobenzene	19.7		1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	11.6		2.0	0.29
75-34-3	1,1-Dichloroethane	19.8		1.0	0.36
107-06-2	1,2-Dichloroethane	18.5		1.0	0.26
75-35-4	1,1-Dichloroethene	19.3		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-51995/5

Matrix: Water | Lab File ID: V4-081325-05.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 09:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	21.2		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	20.8		1.0	0.19
78-87-5	1,2-Dichloropropane	21.2		1.0	0.36
142-28-9	1,3-Dichloropropane	20.5		1.0	0.32
594-20-7	2,2-Dichloropropane	21.7		1.0	0.49
563-58-6	1,1-Dichloropropene	21.8		1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	21.3		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	22.4		0.50	0.37
100-41-4	Ethylbenzene	22.1		1.0	0.36
87-68-3	Hexachlorobutadiene	19.8		1.0	0.24
591-78-6	2-Hexanone (MBK)	15.6		2.0	0.69
98-82-8	Isopropylbenzene	19.9		1.0	0.38
99-87-6	4-Isopropyltoluene	22.4		1.0	0.43
1634-04-4	Methyl tert-butyl ether	21.1		1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	18.0		2.0	0.35
75-09-2	Methylene Chloride	20.1		2.0	0.54
91-20-3	Naphthalene	19.4		2.0	0.70
103-65-1	N-Propylbenzene	20.3		1.0	0.36
100-42-5	Styrene	24.3		1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	20.1		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	19.5		0.50	0.46
127-18-4	Tetrachloroethene	20.7		1.0	0.36
108-88-3	Toluene	19.9		1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	21.7		1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	21.8		1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	22.2		1.0	0.54
71-55-6	1,1,1-Trichloroethane	20.7		1.0	0.33
79-00-5	1,1,2-Trichloroethane	20.7		1.0	0.35
79-01-6	Trichloroethene	19.9		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	19.0		1.0	0.23
96-18-4	1,2,3-Trichloropropane	19.9		1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	22.6		1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-51995/5

Matrix: Water | Lab File ID: V4-081325-05.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/13/2025 09:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 51995 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	22.1		1.0	0.45
75-01-4	Vinyl chloride	15.8		1.0	0.26
179601-23-1	m,p-Xylene	47.4		1.0	0.78
95-47-6	o-Xylene	21.9		1.0	0.43
109-99-9	Tetrahydrofuran	20.3		2.0	0.70
60-29-7	Ethyl ether	19.0		1.0	0.42
994-05-8	Tert-amyl methyl ether	19.8		1.0	0.26
637-92-3	Ethyl tert-butyl ether	20.8		1.0	0.29
108-20-3	di-Isopropyl ether	20.2		1.0	0.26
75-65-0	tert-Butanol	235		10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	19.6		5.0	0.81
64-17-5	Ethanol	373		200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Instrument ID: HPV4 Start Date: 08/07/2025 08:22

Analysis Batch Number: 51723 End Date: 08/07/2025 16:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 620-51723/2		08/07/2025 08:22	1	V4-080725-02.D	DB-VRX 0.18(mm)
IC 620-51723/3		08/07/2025 08:50	1	V4-080725-03.D	DB-VRX 0.18(mm)
IC 620-51723/4		08/07/2025 09:12	1	V4-080725-04.D	DB-VRX 0.18(mm)
IC 620-51723/5		08/07/2025 09:35	1	V4-080725-05.D	DB-VRX 0.18(mm)
IC 620-51723/6		08/07/2025 09:58	1	V4-080725-06.D	DB-VRX 0.18(mm)
IC 620-51723/7		08/07/2025 10:21	1	V4-080725-07.D	DB-VRX 0.18(mm)
ICIS 620-51723/8		08/07/2025 10:44	1	V4-080725-08.D	DB-VRX 0.18(mm)
IC 620-51723/9		08/07/2025 11:07	1	V4-080725-09.D	DB-VRX 0.18(mm)
IC 620-51723/10		08/07/2025 11:30	1	V4-080725-10.D	DB-VRX 0.18(mm)
IC 620-51723/11		08/07/2025 11:53	1	V4-080725-11.D	DB-VRX 0.18(mm)
ICV 620-51723/16		08/07/2025 15:14	1	V4-080725-16.D	DB-VRX 0.18(mm)
ZZZZZ (QC)		08/07/2025 15:37	1		DB-VRX 0.18(mm)
ZZZZZ (QC)		08/07/2025 16:00	1		DB-VRX 0.18(mm)
ZZZZZ (QC)		08/07/2025 16:46	1		DB-VRX 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Instrument ID: HPV4 Start Date: 08/13/2025 08:09

Analysis Batch Number: 51995 End Date: 08/13/2025 17:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 620-51995/2		08/13/2025 08:09	1	V4-081325-02.D	DB-VRX 0.18(mm)
CCVIS 620-51995/3		08/13/2025 08:32	1	V4-081325-03.D	DB-VRX 0.18(mm)
LCS 620-51995/4		08/13/2025 08:55	1	V4-081325-04.D	DB-VRX 0.18(mm)
LCSD 620-51995/5		08/13/2025 09:18	1	V4-081325-05.D	DB-VRX 0.18(mm)
MB 620-51995/7		08/13/2025 10:03	1	V4-081325-07.D	DB-VRX 0.18(mm)
620-28495-5	TB/250811	08/13/2025 11:11	1	V4-081325-08.D	DB-VRX 0.18(mm)
ZZZZZ (Client)		08/13/2025 11:34	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/13/2025 13:08	10		DB-VRX 0.18(mm)
620-28495-1	MW-11/250811	08/13/2025 15:29	1	V4-081325-19.D	DB-VRX 0.18(mm)
620-28495-2	MW-100B/250811	08/13/2025 15:53	1	V4-081325-20.D	DB-VRX 0.18(mm)
620-28495-3	MW-100E/250811	08/13/2025 16:17	1	V4-081325-21.D	DB-VRX 0.18(mm)
620-28495-4	FB/250811	08/13/2025 16:41	1	V4-081325-22.D	DB-VRX 0.18(mm)
ZZZZZ (Client)		08/13/2025 17:05	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/13/2025 17:28	1		DB-VRX 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Batch Number: 51723 Batch Start Date: 08/07/25 08:22 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date: 08/07/25 20:22

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	VO8260BFB 00010	VO8260IS/SS 00026	VO8260Primary 00143	VO8260Second 00123
BFB 620-51723/2		8260C			5 mL	5 mL	5 uL	5 uL		
IC 620-51723/3		8260C			5 mL	5 mL		5 uL	0.5 uL	
IC 620-51723/4		8260C			5 mL	5 mL		5 uL	1 uL	
IC 620-51723/5		8260C			5 mL	5 mL		5 uL	2 uL	
IC 620-51723/6		8260C			5 mL	5 mL		5 uL	5 uL	
IC 620-51723/7		8260C			5 mL	5 mL		5 uL	10 uL	
ICIS 620-51723/8		8260C			5 mL	5 mL		5 uL	20 uL	
IC 620-51723/9		8260C			5 mL	5 mL		5 uL	40 uL	
IC 620-51723/10		8260C			5 mL	5 mL		5 uL	50 uL	
IC 620-51723/11		8260C			5 mL	5 mL		5 uL	100 uL	
ICV 620-51723/16		8260C			5 mL	5 mL		5 uL		20 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	VOTCL_EM/VA_S 00002					
BFB 620-51723/2		8260C								
IC 620-51723/3		8260C								
IC 620-51723/4		8260C								
IC 620-51723/5		8260C								
IC 620-51723/6		8260C								
IC 620-51723/7		8260C								
ICIS 620-51723/8		8260C								
IC 620-51723/9		8260C								
IC 620-51723/10		8260C								
IC 620-51723/11		8260C								
ICV 620-51723/16		8260C			20 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 Rhode Island Job No.: 620-28495-1

SDG No.:

Batch Number: 51723 Batch Start Date: 08/07/25 08:22 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date: 08/07/25 20:22

Batch Notes	
pH Indicator ID	141866
Residual Chlorine Indicator ID	141875
Pipette/Syringe/Dispenser ID	V2UL01 V5UL01 V25UL01 V50UL01 V100UL01
Vial Lot Number	0102701K

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 Rhode Island Job No.: 620-28495-1

SDG No.:

Batch Number: 51995 Batch Start Date: 08/13/25 08:09 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date: 08/13/25 20:09

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	VO8260BFB 00010
BFB 620-51995/2		8260C			5 mL	5 mL				5 uL
CCVIS 620-51995/3		8260C			5 mL	5 mL	< 2 SU			
LCS 620-51995/4		8260C			5 mL	5 mL	< 2 SU			
LCSD 620-51995/5		8260C			5 mL	5 mL	< 2 SU			
MB 620-51995/7		8260C			5 mL	5 mL	< 2 SU			
620-28495-A-5	TB/250811	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28495-A-1	MW-11/250811	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28495-A-2	MW-100B/250811	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28495-A-3	MW-100E/250811	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28495-A-4	FB/250811	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	VO8260IS/SS 00026	VO8260Second 00124				
BFB 620-51995/2		8260C			5 uL					
CCVIS 620-51995/3		8260C			5 uL	20 uL				
LCS 620-51995/4		8260C			5 uL	20 uL				
LCSD 620-51995/5		8260C			5 uL	20 uL				
MB 620-51995/7		8260C			5 uL					
620-28495-A-5	TB/250811	8260C	Water	T	5 uL					
620-28495-A-1	MW-11/250811	8260C	Water	T	5 uL					
620-28495-A-2	MW-100B/250811	8260C	Water	T	5 uL					
620-28495-A-3	MW-100E/250811	8260C	Water	T	5 uL					
620-28495-A-4	FB/250811	8260C	Water	T	5 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 Rhode Island Job No.: 620-28495-1

SDG No.:

Batch Number: 51995 Batch Start Date: 08/13/25 08:09 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date: 08/13/25 20:09

Batch Notes	
pH Indicator ID	141866
Residual Chlorine Indicator ID	141875
Pipette/Syringe/Dispenser ID	V50UL01 v1ML01
Vial Lot Number	0102701K

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.

8270D_SIM_MS_ID

Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): HP-5MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DXE #
MW-100B/250811	620-28495-2	11
MW-100E/250811	620-28495-3	14
FB/250811	620-28495-4	10
	MB 620-52299/1-A	14
	LCS 620-52299/2-A	12
	LCSD 620-52299/3-A	12

	QC LIMITS
DXE = 1,4-Dioxane-d8	10-150

Column to be used to flag recovery values

FORM II 8270D SIM ID

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S8-082025-04.D

Lab ID: LCS 620-52299/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	4.00	5.57	139	40-140	
1,4-Dioxane-d8	4.00	0.481	12	10-150	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S8-082025-05.D

Lab ID: LCSD 620-52299/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	4.00	4.98	125	11	30	40-140	
1,4-Dioxane-d8	4.00	0.482	12			10-150	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Lab File ID: S8-082025-03.D Lab Sample ID: MB 620-52299/1-A

Matrix: Water Date Extracted: 08/18/2025 18:42

Instrument ID: HPS8 Date Analyzed: 08/20/2025 11:03

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 620-52299/2-A	S8-082025-04.D	08/20/2025 11:21
	LCSD 620-52299/3-A	S8-082025-05.D	08/20/2025 11:38
MW-100B/250811	620-28495-2	S8-082025-06.D	08/20/2025 11:56
MW-100E/250811	620-28495-3	S8-082025-07.D	08/20/2025 12:13
FB/250811	620-28495-4	S8-082025-08.D	08/20/2025 12:31

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Lab File ID: S8-052825-06.D DFTPP Injection Date: 05/28/2025

Instrument ID: HPS8 DFTPP Injection Time: 11:48

Analysis Batch No.: 48403

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	54.9	
70	Less than 2% of mass 69	0.4	(0.8) 1
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.3	
365	Greater than 1% of mass 198	4.2	
441	present but less than 24% of mass 442	14.3	(16.1) 2
442	Greater than 50% of mass 198	88.8	
443	15-24% of mass 442	17.6	(19.8) 2

1-Value is % mass 69 2-Value is % mass 442

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 620-48403/2	S8-052825-07.	05/28/2025	12:08
	IC 620-48403/3	S8-052825-08.	05/28/2025	12:26
	IC 620-48403/4	S8-052825-09.	05/28/2025	12:44
	IC 620-48403/5	S8-052825-10.	05/28/2025	13:28
	ICIS 620-48403/6	S8-052825-11.	05/28/2025	13:46
	IC 620-48403/7	S8-052825-12.	05/28/2025	14:05
	IC 620-48403/8	S8-052825-13.	05/28/2025	14:23
	ICV 620-48403/9	S8-052825-14.	05/28/2025	14:41

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Lab File ID: S8-082025-01.D DFTPP Injection Date: 08/20/2025

Instrument ID: HPS8 DFTPP Injection Time: 10:22

Analysis Batch No.: 52418

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of mass 69	0.4	(0.9) 1
69	Mass 69 Relative abundance	45.3	
70	Less than 2% of mass 69	0.2	(0.4) 1
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.9	
365	Greater than 1% of mass 198	2.8	
441	present but less than 24% of mass 442	7.5	(15.8) 2
442	Greater than 50% of mass 198	47.8	
443	15-24% of mass 442	9.0	(18.8) 2

1-Value is % mass 69 2-Value is % mass 442

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 620-52418/2	S8-082025-02.	08/20/2025	10:42
	MB 620-52299/1-A	S8-082025-03.	08/20/2025	11:03
	LCS 620-52299/2-A	S8-082025-04.	08/20/2025	11:21
	LCSD 620-52299/3-A	S8-082025-05.	08/20/2025	11:38
MW-100B/250811	620-28495-2	S8-082025-06.	08/20/2025	11:56
MW-100E/250811	620-28495-3	S8-082025-07.	08/20/2025	12:13
FB/250811	620-28495-4	S8-082025-08.	08/20/2025	12:31

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

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Sample No.: ICIS 620-48403/6 Date Analyzed: 05/28/2025 13:46

Instrument ID: HPS8 GC Column: HP-5MS ID: 0.25(mm)

Lab File ID (Standard): S8-052825-11.D Heated Purge: (Y/N) N

Calibration ID: 10043

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		64588	5.91				
UPPER LIMIT		129176	6.41				
LOWER LIMIT		32294	5.41				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 620-48403/9		87851	5.94				

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 SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Sample No.: CCVIS 620-52418/2 Date Analyzed: 08/20/2025 10:42

Instrument ID: HPS8 GC Column: HP-5MS ID: 0.25(mm)

Lab File ID (Standard): S8-082025-02.D Heated Purge: (Y/N) N

Calibration ID: 10043

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		69968	5.72				
UPPER LIMIT		139936	6.22				
LOWER LIMIT		34984	5.22				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 620-52299/1-A		95724	5.70				
LCS 620-52299/2-A		105283	5.70				
LCSD 620-52299/3-A		104327	5.68				
620-28495-2	MW-100B/250811	104427	5.68				
620-28495-3	MW-100E/250811	94727	5.66				
620-28495-4	FB/250811	105897	5.66				

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 SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-100B/250811 | Lab Sample ID: 620-28495-2

Matrix: Water | Lab File ID: S8-082025-06.D

Analysis Method: 8270D SIM ID | Date Collected: 08/11/2025 13:00

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 250(mL) | Date Analyzed: 08/20/2025 11:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.6		0.20	0.19

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	11		10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-100E/250811 | Lab Sample ID: 620-28495-3

Matrix: Water | Lab File ID: S8-082025-07.D

Analysis Method: 8270D SIM ID | Date Collected: 08/11/2025 15:05

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 240(mL) | Date Analyzed: 08/20/2025 12:13

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	2.0		0.21	0.20

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	14		10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: FB/250811 | Lab Sample ID: 620-28495-4

Matrix: Water | Lab File ID: S8-082025-08.D

Analysis Method: 8270D SIM ID | Date Collected: 08/11/2025 15:15

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 250(mL) | Date Analyzed: 08/20/2025 12:31

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.20	U	0.20	0.19

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	10		10-150

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1 Analy Batch No.: 48403

SDG No.:

Instrument ID: HPS8 GC Column: HP-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2025 12:08 Calibration End Date: 05/28/2025 14:23 Calibration ID: 10043

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-48403/2	S8-052825-07.D
Level 2	IC 620-48403/3	S8-052825-08.D
Level 3	IC 620-48403/4	S8-052825-09.D
Level 4	IC 620-48403/5	S8-052825-10.D
Level 5	ICIS 620-48403/6	S8-052825-11.D
Level 6	IC 620-48403/7	S8-052825-12.D
Level 7	IC 620-48403/8	S8-052825-13.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 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.9385 1.1172	1.0737 1.0698	1.4313	1.3259	1.2148	AveID		1.1673				14.4		20.0			
1,4-Dioxane-d8	0.3966 0.4595	0.3997 0.3192	0.3276	0.3417	0.4209	Ave		0.3807				13.8		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 SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1 Analy Batch No.: 48403

SDG No.:

Instrument ID: HPS8 GC Column: HP-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2025 12:08 Calibration End Date: 05/28/2025 14:23 Calibration ID: 10043

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-48403/2	S8-052825-07.D
Level 2	IC 620-48403/3	S8-052825-08.D
Level 3	IC 620-48403/4	S8-052825-09.D
Level 4	IC 620-48403/5	S8-052825-10.D
Level 5	ICIS 620-48403/6	S8-052825-11.D
Level 6	IC 620-48403/7	S8-052825-12.D
Level 7	IC 620-48403/8	S8-052825-13.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane		AveID	4995 303191	11253 601950	31255	63869	132448	0.0502 2.51	0.100 5.02	0.251	0.502	1.00
1,4-Dioxane-d8	DCBd4	Ave	105965 108067	104335 112034	86954	95910	108543	1.00 1.00	1.00 1.00	1.00	1.00	1.00

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1 Analy Batch No.: 48403

SDG No.:

Instrument ID: HPS8 GC Column: HP-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2025 12:08 Calibration End Date: 05/28/2025 14:23 Calibration ID: 10043

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-48403/2	S8-052825-07.D
Level 2	IC 620-48403/3	S8-052825-08.D
Level 3	IC 620-48403/4	S8-052825-09.D
Level 4	IC 620-48403/5	S8-052825-10.D
Level 5	ICIS 620-48403/6	S8-052825-11.D
Level 6	IC 620-48403/7	S8-052825-12.D
Level 7	IC 620-48403/8	S8-052825-13.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dioxane-d8	4.2						30					

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

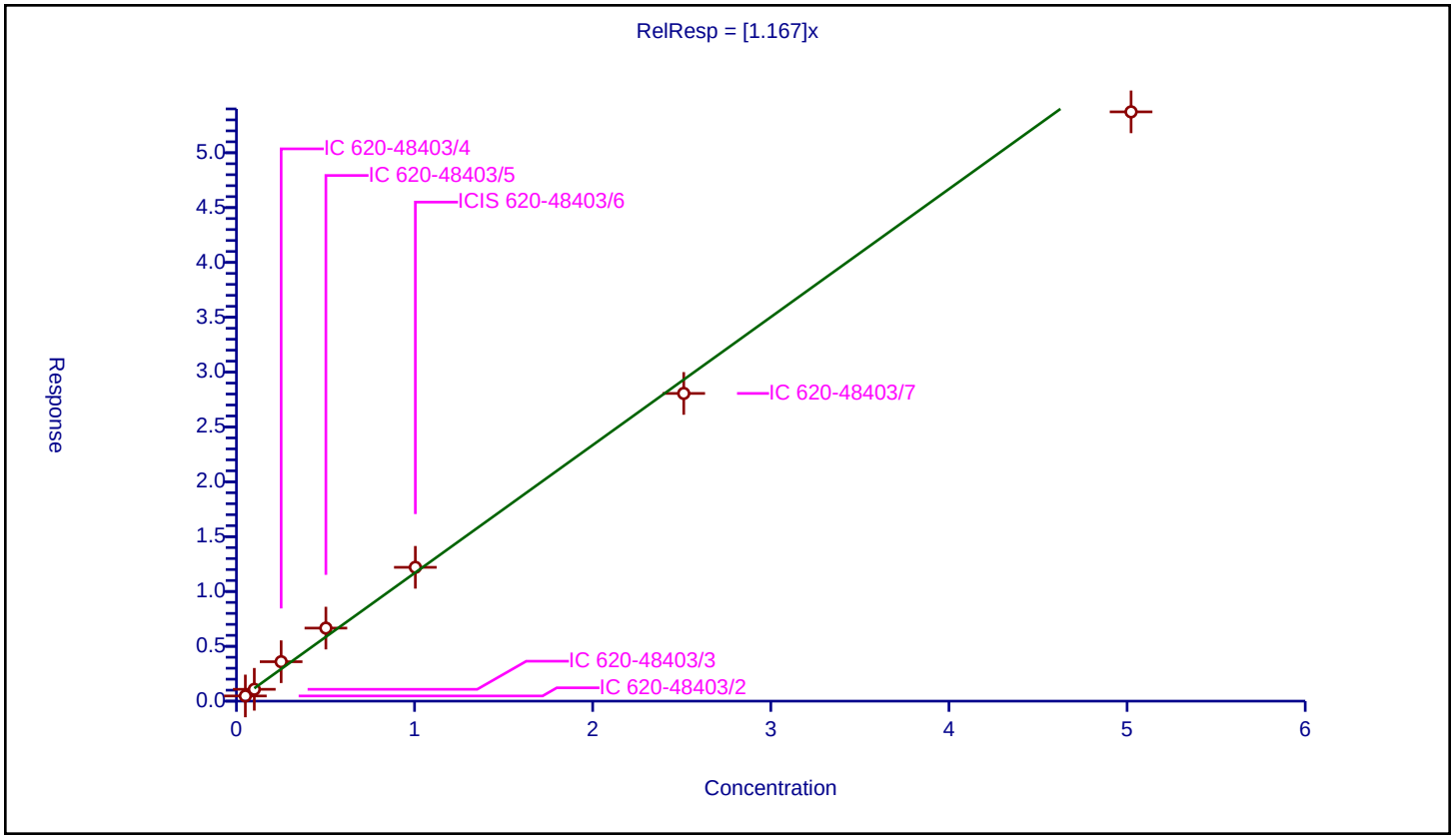
Curve Coefficients

Intercept:	0
Slope:	1.167

Error Coefficients

Relative Standard Deviation:	14.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-48403/2	0.050225	0.047138	1.0	105965.0	0.938541	Y
2	IC 620-48403/3	0.10045	0.107855	1.0	104335.0	1.073713	Y
3	IC 620-48403/4	0.251125	0.359443	1.0	86954.0	1.431331	Y
4	IC 620-48403/5	0.50225	0.665926	1.0	95910.0	1.325886	Y
5	ICIS 620-48403/6	1.0045	1.220235	1.0	108543.0	1.214769	Y
6	IC 620-48403/7	2.51125	2.805584	1.0	108067.0	1.117206	Y
7	IC 620-48403/8	5.0225	5.372923	1.0	112034.0	1.069771	Y



8/20/2025
8:44:38 PM

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Lab Sample ID: ICV 620-48403/9 Calibration Date: 05/28/2025 14:41

Instrument ID: HPS8 Calib Start Date: 05/28/2025 12:08

GC Column: HP-5MS ID: 0.25(mm) Calib End Date: 05/28/2025 14:23

Lab File ID: S8-052825-14.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.167	1.179		1.01	1.00	1.0	20.0
1,4-Dioxane-d8	Ave	0.3807	0.3051		0.801	1.00	-19.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCVIS 620-52418/2 Calibration Date: 08/20/2025 10:42

Instrument ID: HPS8 Calib Start Date: 05/28/2025 12:08

GC Column: HP-5MS ID: 0.25(mm) Calib End Date: 05/28/2025 14:23

Lab File ID: S8-082025-02.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.167	1.237		1.06	1.00	6.0	20.0
1,4-Dioxane-d8	Ave	0.3807	0.4253		1.12	1.00	11.7	20.0

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52299/1-A

Matrix: Water | Lab File ID: S8-082025-03.D

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 250(mL) | Date Analyzed: 08/20/2025 11:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.20	U	0.20	0.19

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	14		10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52299/2-A

Matrix: Water | Lab File ID: S8-082025-04.D

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 250(mL) | Date Analyzed: 08/20/2025 11:21

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	5.57		0.20	0.19

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	12		10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52299/3-A

Matrix: Water | Lab File ID: S8-082025-05.D

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 250(mL) | Date Analyzed: 08/20/2025 11:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	4.98		0.20	0.19

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	12		10-150

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Instrument ID: HPS8 Start Date: 05/28/2025 11:48

Analysis Batch Number: 48403 End Date: 05/28/2025 18:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 620-48403/1		05/28/2025 11:48	1	S8-052825-06.D	HP-5MS 0.25(mm)
IC 620-48403/2		05/28/2025 12:08	1	S8-052825-07.D	HP-5MS 0.25(mm)
IC 620-48403/3		05/28/2025 12:26	1	S8-052825-08.D	HP-5MS 0.25(mm)
IC 620-48403/4		05/28/2025 12:44	1	S8-052825-09.D	HP-5MS 0.25(mm)
IC 620-48403/5		05/28/2025 13:28	1	S8-052825-10.D	HP-5MS 0.25(mm)
ICIS 620-48403/6		05/28/2025 13:46	1	S8-052825-11.D	HP-5MS 0.25(mm)
IC 620-48403/7		05/28/2025 14:05	1	S8-052825-12.D	HP-5MS 0.25(mm)
IC 620-48403/8		05/28/2025 14:23	1	S8-052825-13.D	HP-5MS 0.25(mm)
ICV 620-48403/9		05/28/2025 14:41	1	S8-052825-14.D	HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 15:42	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 16:00	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 16:18	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 16:36	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 16:54	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 17:12	1		HP-5MS 0.25(mm)
ZZZZZ (QC)		05/28/2025 17:29	1		HP-5MS 0.25(mm)
ZZZZZ (QC)		05/28/2025 17:47	1		HP-5MS 0.25(mm)
ZZZZZ (QC)		05/28/2025 18:05	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 18:23	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 18:41	1		HP-5MS 0.25(mm)

8270D SIM ID

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Instrument ID: HPS8 Start Date: 08/20/2025 10:22

Analysis Batch Number: 52418 End Date: 08/20/2025 16:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 620-52418/1		08/20/2025 10:22	1	S8-082025-01.D	HP-5MS 0.25(mm)
CCVIS 620-52418/2		08/20/2025 10:42	1	S8-082025-02.D	HP-5MS 0.25(mm)
MB 620-52299/1-A		08/20/2025 11:03	1	S8-082025-03.D	HP-5MS 0.25(mm)
LCS 620-52299/2-A		08/20/2025 11:21	1	S8-082025-04.D	HP-5MS 0.25(mm)
LCSD 620-52299/3-A		08/20/2025 11:38	1	S8-082025-05.D	HP-5MS 0.25(mm)
620-28495-2	MW-100B/250811	08/20/2025 11:56	1	S8-082025-06.D	HP-5MS 0.25(mm)
620-28495-3	MW-100E/250811	08/20/2025 12:13	1	S8-082025-07.D	HP-5MS 0.25(mm)
620-28495-4	FB/250811	08/20/2025 12:31	1	S8-082025-08.D	HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 12:48	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 13:06	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 13:23	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 13:41	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 14:16	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 14:34	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 14:52	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 15:09	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 15:44	5		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 16:02	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 16:19	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 16:36	10		HP-5MS 0.25(mm)

8270D SIM ID

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Batch Number: 48403 Batch Start Date: 05/28/25 11:48 Batch Analyst: Smith, Jordan

Batch Method: 8270D SIM ID Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	1,4D-LVI-Sur 00001	MSS-1,4-CAL1 00020	MSS-1,4-CAL2 00019	MSS-1,4-CAL3 00020	MSS-1,4-CAL4 00019	MSS-1,4-CAL5 00021
DFTPP 620-48403/1		8270D SIM ID								
IC 620-48403/2		8270D SIM ID			10 uL	1 mL				
IC 620-48403/3		8270D SIM ID			10 uL		1 mL			
IC 620-48403/4		8270D SIM ID			10 uL			1 mL		
IC 620-48403/5		8270D SIM ID			10 uL				1 mL	
ICIS 620-48403/6		8270D SIM ID			10 uL					1 mL
IC 620-48403/7		8270D SIM ID			10 uL					
IC 620-48403/8		8270D SIM ID			10 uL					
ICV 620-48403/9		8270D SIM ID			10 uL					

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSS-1,4-CAL6 00020	MSS-1,4-CAL7 00017	MSS-1,4-ICV 00024	MSS-1,4D-IS 00001	SV-DFTPP-LVI 00009	
DFTPP 620-48403/1		8270D SIM ID						20 uL	1 mL	
IC 620-48403/2		8270D SIM ID						20 uL		
IC 620-48403/3		8270D SIM ID						20 uL		
IC 620-48403/4		8270D SIM ID						20 uL		
IC 620-48403/5		8270D SIM ID						20 uL		
ICIS 620-48403/6		8270D SIM ID						20 uL		
IC 620-48403/7		8270D SIM ID			1 mL			20 uL		
IC 620-48403/8		8270D SIM ID				1 mL		20 uL		
ICV 620-48403/9		8270D SIM ID					1 mL	20 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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Batch Number: 52299 Batch Start Date: 08/18/25 18:42 Batch Analyst: Harvey-Berk, Aili A

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	OP-LCS-1,4-D 00080	OP-SUR-1.4-D 00100
MB 620-52299/1		3510C, 8270D SIM ID			250 mL	1 mL	6 SU	<2 SU		1000 uL
LCS 620-52299/2		3510C, 8270D SIM ID			250 mL	1 mL	6 SU	<2 SU	1000 uL	1000 uL
LCSD 620-52299/3		3510C, 8270D SIM ID			250 mL	1 mL	6 SU	<2 SU	1000 uL	1000 uL
620-28495-H-2	MW-100B/250811	3510C, 8270D SIM ID	Water	T	250 mL	1 mL	8 SU	<2 SU		1000 uL
620-28495-H-3	MW-100E/250811	3510C, 8270D SIM ID	Water	T	240 mL	1 mL	8 SU	<2 SU		1000 uL
620-28495-I-4	FB/250811	3510C, 8270D SIM ID	Water	T	250 mL	1 mL	5 SU	<2 SU		1000 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.

8270D SIM ID

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Batch Number: 52299 Batch Start Date: 08/18/25 18:42 Batch Analyst: Harvey-Berk, Aili A

Batch Method: 3510C Batch End Date:

Batch Notes	
Method/Fraction	8270D_SIM_MS_ID
Was daily balance calibration done?	Yes
pH Indicator ID	410842
Pipette/Syringe/Dispenser ID	P1ML04
Analyst ID - Extraction	sv3h
Reagent Water ID	037836
Analyst ID - Spike Analyst	sv3h
Sufficient Volume for Batch QC	y
Acid Used for pH Adjustment ID	606502
Prep Solvent ID	652329
Prep Solvent Volume Used	45 mL
Filter ID	628847
Glass Wool ID	24415999
Na2SO4 ID	613255
Analyst ID - Concentration	sv3h
Equipment ID - Concentration 1	TV2
Concentration 1 Uncorrected Temperature	49 Degrees C
Concentration 1 Corrected Temperature	45 Degrees C
Vial Lot Number	25085726

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.

9056A_ORGFM_28D

Anions, Ion Chromatography

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 13_Aug_2025 00_09.d

Lab ID: LCS 410-684515/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Chloride	3.00	3.047	102	90-110	
Sulfate	7.50	7.369	98	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 13_Aug_2025 00_19.d

Lab ID: LCSD 410-684515/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloride	3.00	3.041	101	0	20	90-110	
Sulfate	7.50	7.126	95	3	20	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 13_Aug_2025 09_46.d

Lab ID: 620-28495-3 MS Client ID: MW-100E/250811 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Chloride	2.00	8.73	11.03	115	90-110	*
Sulfate	5.00	0.65 J	7.670	140	90-110	*

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Lab File ID: 13_Aug_2025 00_30.d Lab Sample ID: MB 410-684515/5

Matrix: Water Date Extracted:

Instrument ID: 3162 Date Analyzed: 08/13/2025 00:30

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-684515/3	13_Aug_2025 00_09.d	08/13/2025 00:09
	LCSD 410-684515/4	13_Aug_2025 00_19.d	08/13/2025 00:19
MW-100B/250811	620-28495-2	13_Aug_2025 09_16.d	08/13/2025 09:16
MW-100E/250811	620-28495-3	13_Aug_2025 09_26.d	08/13/2025 09:26
MW-100E/250811 DU	620-28495-3 DU	13_Aug_2025 09_36.d	08/13/2025 09:36
MW-100E/250811 MS	620-28495-3 MS	13_Aug_2025 09_46.d	08/13/2025 09:46
FB/250811	620-28495-4	13_Aug_2025 09_57.d	08/13/2025 09:57

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-100B/250811
Lab Sample ID: 620-28495-2

Matrix: Water
Lab File ID: 13_Aug_2025 09_16.d

Analysis Method: 9056A
Date Collected: 08/11/2025 13:00

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 09:16

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684515
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	8.82		1.50	0.60
14808-79-8	Sulfate	1.50	U	1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-100E/250811
Lab Sample ID: 620-28495-3

Matrix: Water
Lab File ID: 13_Aug_2025 09_26.d

Analysis Method: 9056A
Date Collected: 08/11/2025 15:05

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 09:26

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684515
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	8.73		1.50	0.60
14808-79-8	Sulfate	0.65	J	1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID: FB/250811
Lab Sample ID: 620-28495-4

Matrix: Water
Lab File ID: 13_Aug_2025 09_57.d

Analysis Method: 9056A
Date Collected: 08/11/2025 15:15

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 09:57

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684515
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.50	U	1.50	0.60
14808-79-8	Sulfate	1.50	U	1.50	0.50

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1 Analy Batch No.: 681718

SDG No.:

Instrument ID: 3162 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2025 13:49 Calibration End Date: 08/06/2025 14:40 Calibration ID: 75482

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-681718/2	06_Aug_2025 13_59.d
Level 2	IC 410-681718/3	06_Aug_2025 14_09.d
Level 3	IC 410-681718/4	06_Aug_2025 14_19.d
Level 4	IC 410-681718/5	06_Aug_2025 14_30.d
Level 5	IC 410-681718/6	06_Aug_2025 14_40.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Fluoride	1.313	1.313	1.317	1.313	1.313						1.063 - 1.563	1.314
Chloride	2.127	2.130	2.130	2.127	2.130						1.880 - 2.380	2.129
Bromide	3.873	3.873	3.867	3.860	3.860						3.617 - 4.117	3.867
Sulfate	5.817	5.773	5.770	5.733	5.677						5.533 - 6.033	5.754

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1 Analy Batch No.: 681718

SDG No.:

Instrument ID: 3162 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2025 13:49 Calibration End Date: 08/06/2025 14:40 Calibration ID: 75482

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-681718/2	06_Aug_2025 13_59.d
Level 2	IC 410-681718/3	06_Aug_2025 14_09.d
Level 3	IC 410-681718/4	06_Aug_2025 14_19.d
Level 4	IC 410-681718/5	06_Aug_2025 14_30.d
Level 5	IC 410-681718/6	06_Aug_2025 14_40.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 2	LVL 3	LVL 4		B	M1	M2								
Fluoride	9047790 11353430	9269575	9513390	10946809	Lin2	-169653.68	10512539.2				8.7		10.0	0.9930		0.9900
Chloride	5727995 7618648	6498771	6977261	7542444	Lin1	-1002175.4	7591249.45				6.7		10.0	0.9990		0.9900
Bromide	2430568 3070010	2518342	2685131	2990120	Lin2	-259429.19	2887573.65				7.5		10.0	0.9950		0.9900
Sulfate	4462524 5657713	4879721	5234852	5657865	Lin1	-1658717.9	5654034.17				6.6		10.0	0.9990		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
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1 Analy Batch No.: 681718

SDG No.:

Instrument ID: 3162 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2025 13:49 Calibration End Date: 08/06/2025 14:40 Calibration ID: 75482

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-681718/2	06_Aug_2025 13_59.d
Level 2	IC 410-681718/3	06_Aug_2025 14_09.d
Level 3	IC 410-681718/4	06_Aug_2025 14_19.d
Level 4	IC 410-681718/5	06_Aug_2025 14_30.d
Level 5	IC 410-681718/6	06_Aug_2025 14_40.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Fluoride	Lin2	904779	3707830	9513390	21893617	34060290	0.100	0.400	1.00	2.00	3.00
Chloride	Lin1	2291198	10398033	27909042	60339555	91423781	0.400	1.60	4.00	8.00	12.0
Bromide	Lin2	1215284	5036684	13425657	29901197	46050152	0.500	2.00	5.00	10.0	15.0
Sulfate	Lin1	4462524	19518883	52348519	113157305	169731401	1.00	4.00	10.0	20.0	30.0

Curve Type Legend:
Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2

Calibration / Fluoride

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

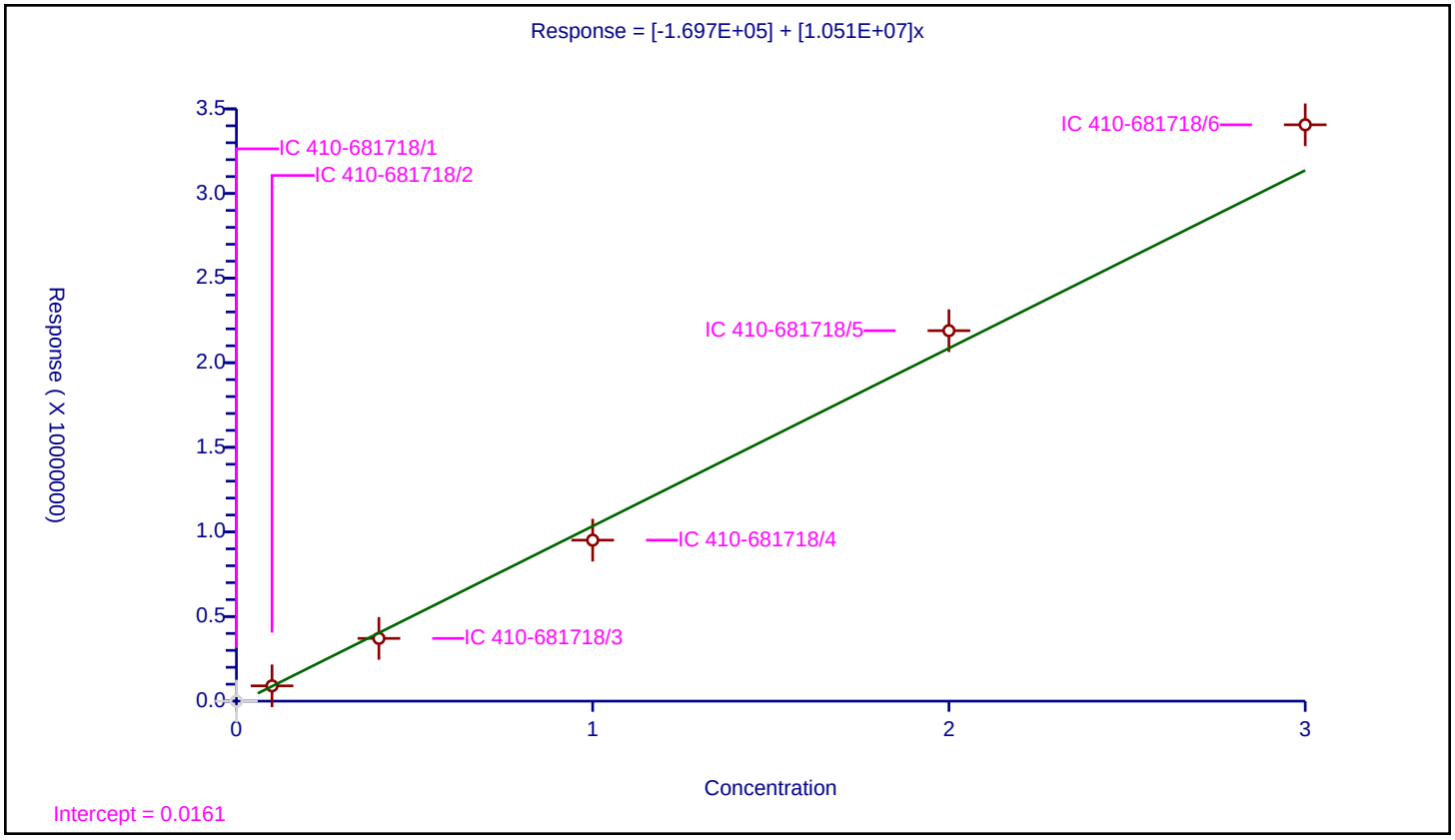
Curve Coefficients

Intercept:	-1.697E+05
Slope:	1.051E+07

Error Coefficients

Relative Standard Deviation:	8.7

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-681718/1	0.0	0.0			NaN	N
2	IC 410-681718/2	0.1	904779.0			9047790.0	Y
3	IC 410-681718/3	0.4	3707830.0			9269575.0	Y
4	IC 410-681718/4	1.0	9513390.0			9513390.0	Y
5	IC 410-681718/5	2.0	21893617.0			10946808.5	Y
6	IC 410-681718/6	3.0	34060290.0			11353430.0	Y



8/20/2025
8:44:38 PM

Calibration / Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

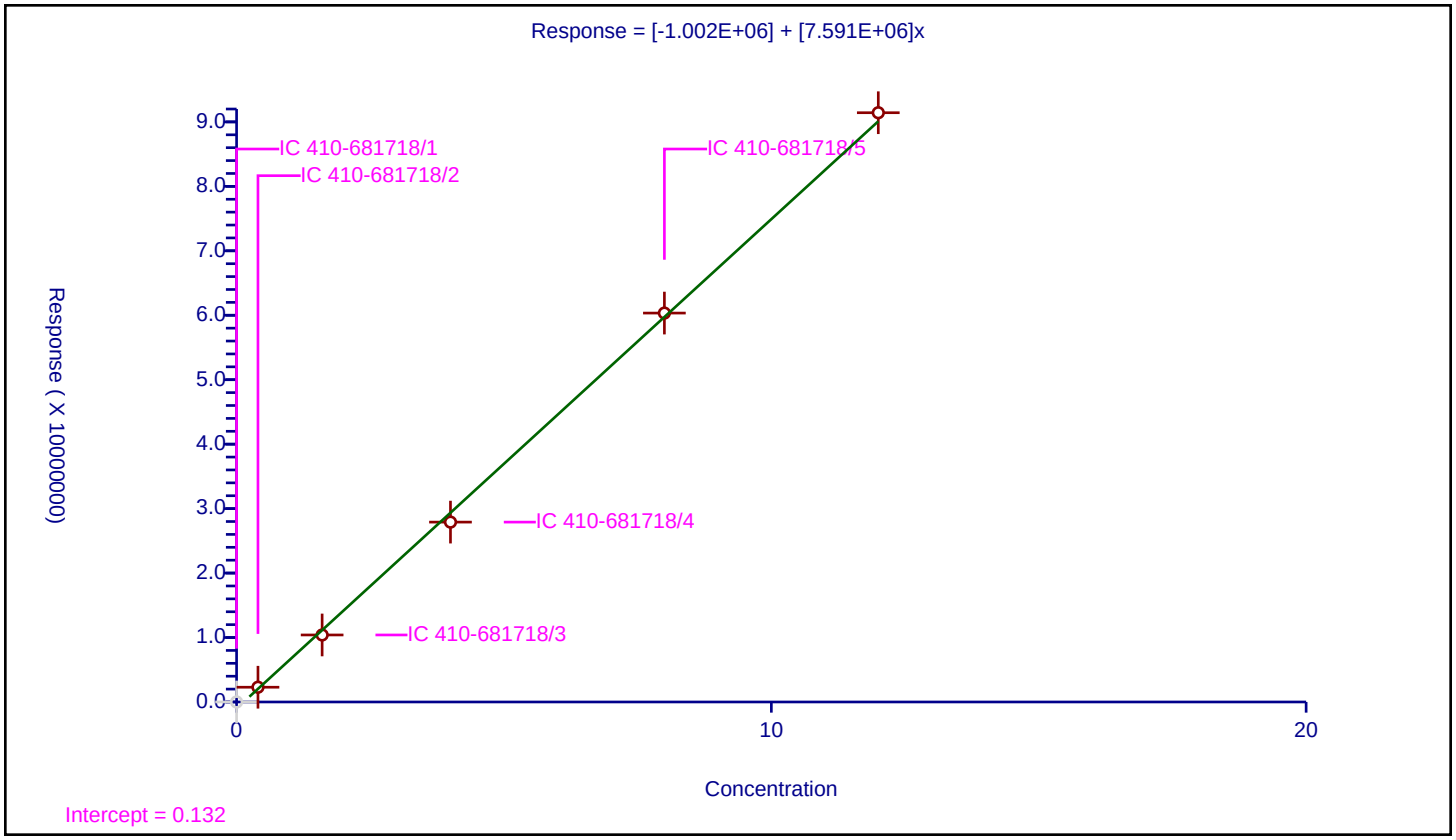
Curve Coefficients

Intercept:	-1.002E+06
Slope:	7.591E+06

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-681718/1	0.0	0.0			NaN	N
2	IC 410-681718/2	0.4	2291198.0			5727995.0	Y
3	IC 410-681718/3	1.6	10398033.0			6498770.625	Y
4	IC 410-681718/4	4.0	27909042.0			6977260.5	Y
5	IC 410-681718/5	8.0	60339555.0			7542444.375	Y
6	IC 410-681718/6	12.0	91423781.0			7618648.416667	Y



8/20/2025
8:44:38 PM

Calibration / Bromide

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

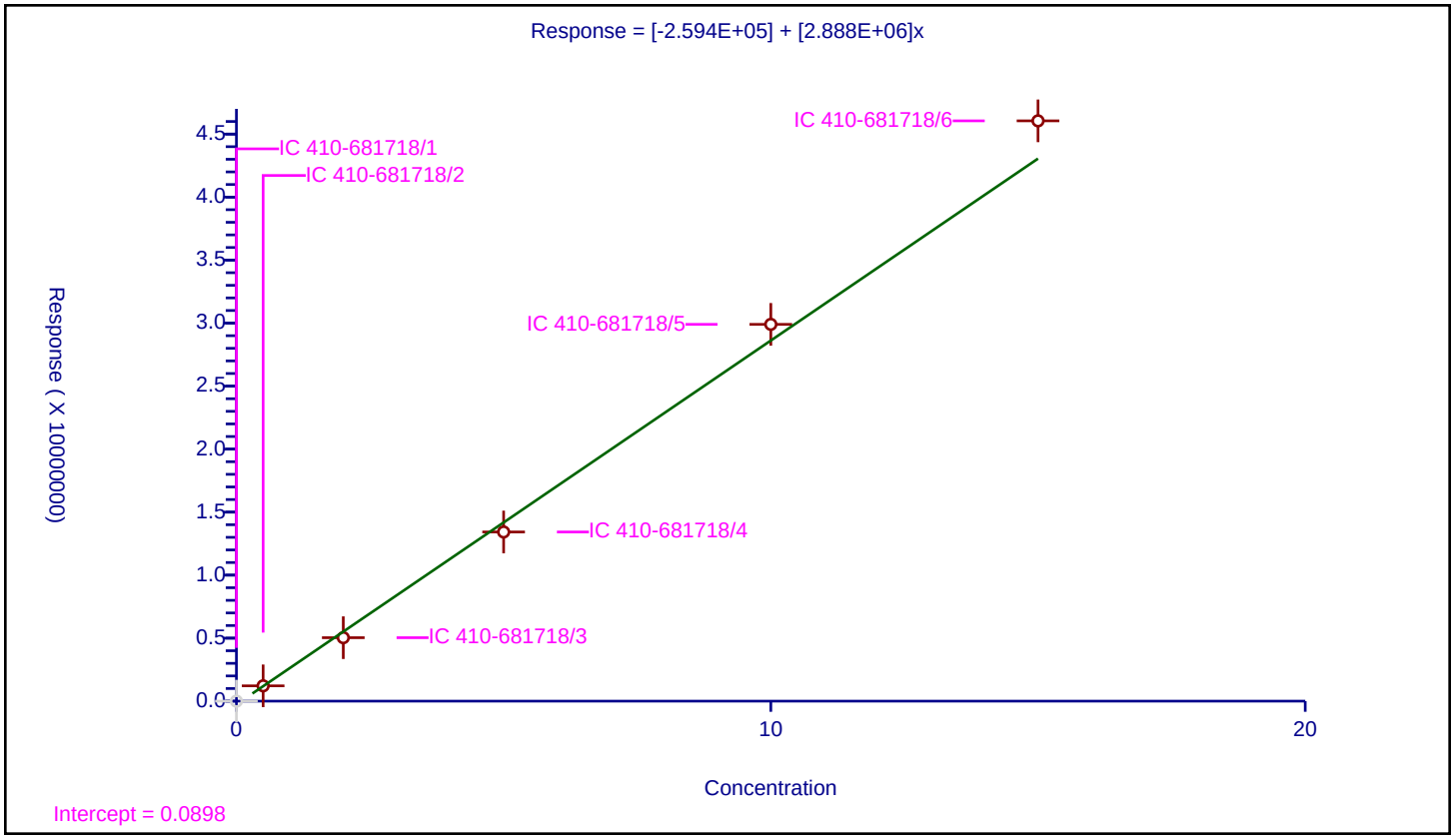
Curve Coefficients

Intercept:	-2.594E+05
Slope:	2.888E+06

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-681718/1	0.0	0.0			NaN	N
2	IC 410-681718/2	0.5	1215284.0			2430568.0	Y
3	IC 410-681718/3	2.0	5036684.0			2518342.0	Y
4	IC 410-681718/4	5.0	13425657.0			2685131.4	Y
5	IC 410-681718/5	10.0	29901197.0			2990119.7	Y
6	IC 410-681718/6	15.0	46050152.0			3070010.133333	Y



8/20/2025
8:44:38 PM

Calibration / Sulfate

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

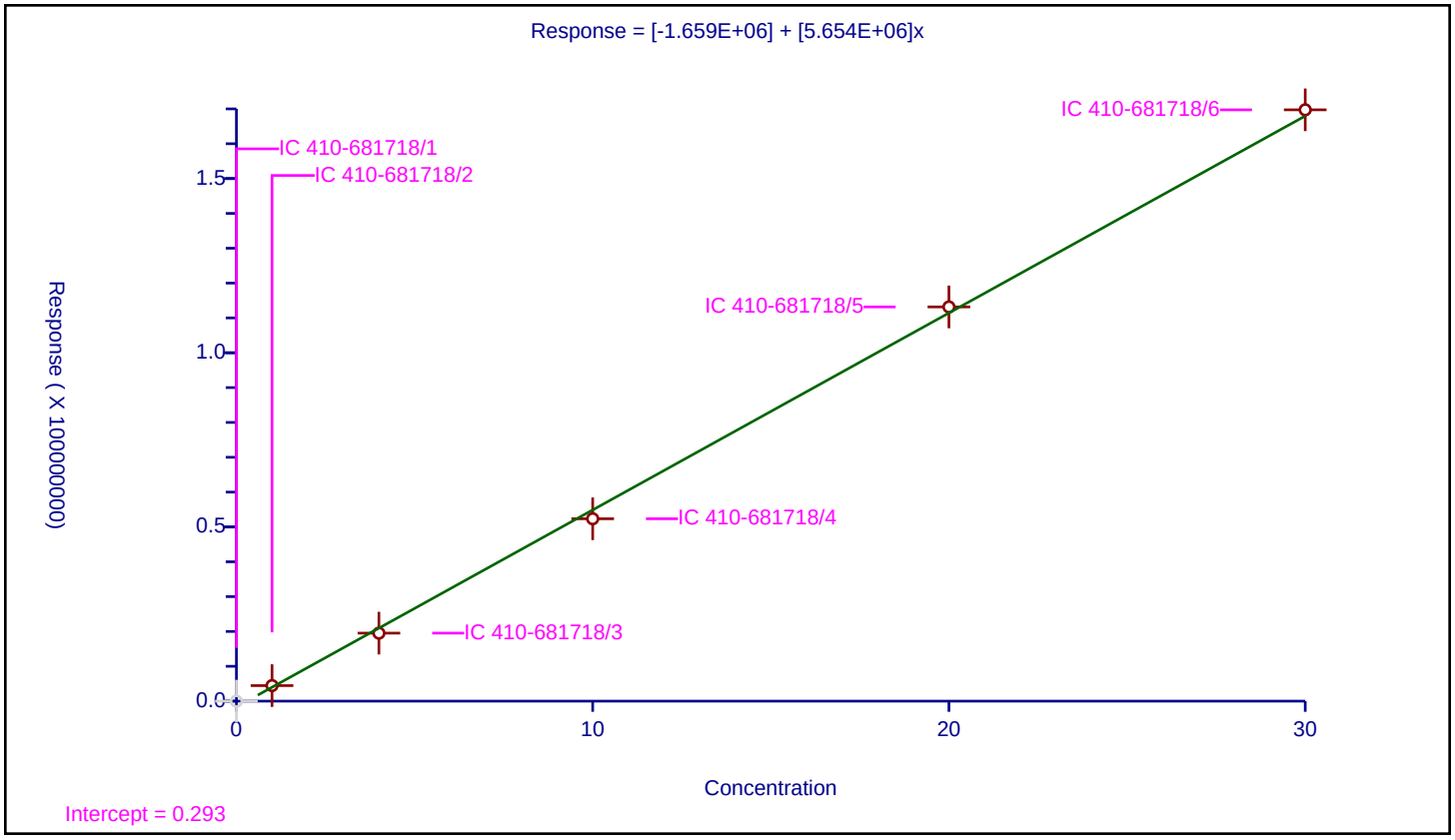
Curve Coefficients

Intercept:	-1.659E+06
Slope:	5.654E+06

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-681718/1	0.0	0.0			NaN	N
2	IC 410-681718/2	1.0	4462524.0			4462524.0	Y
3	IC 410-681718/3	4.0	19518883.0			4879720.75	Y
4	IC 410-681718/4	10.0	52348519.0			5234851.9	Y
5	IC 410-681718/5	20.0	113157305.0			5657865.25	Y
6	IC 410-681718/6	30.0	169731401.0			5657713.366667	Y



8/20/2025
8:44:38 PM

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Lab Sample ID: ICV 410-681718/7 Calibration Date: 08/06/2025 14:50

Instrument ID: 3162 Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/06/2025 14:40

Lab File ID: 06_Aug_2025 14_50.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin2		7865939		0.577	0.750	-23.0*	10.0
Chloride	Lin1		7043593		2.92	3.00	-2.8	10.0
Bromide	Lin2		2983191		7.84	7.50	4.5	10.0
Sulfate	Lin1		4891606		6.78	7.50	-9.6	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Lab Sample ID: ICV 410-681718/7
Calibration Date: 08/06/2025 14:50

Instrument ID: 3162
Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/06/2025 14:40

Lab File ID: 06_Aug_2025 14_50.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.31	1.06	1.56
Chloride	2.13	1.88	2.38
Bromide	3.87	3.62	4.12
Sulfate	5.78	5.53	6.03

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCV 410-684515/1 Calibration Date: 08/12/2025 23:48

Instrument ID: 3162 Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/06/2025 14:40

Lab File ID: 12_Aug_2025 23_48.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chloride	Lin1		7377053		3.05	3.00	1.6	10.0
Bromide	Lin2		3233479		8.49	7.50	13.2*	10.0
Sulfate	Lin1		5419646		7.48	7.50	-0.2	10.0
Fluoride	Lin2				0.200	0.750	-100.0*	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCV 410-684515/1
Calibration Date: 08/12/2025 23:48

Instrument ID: 3162
Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/06/2025 14:40

Lab File ID: 12_Aug_2025 23_48.d

Analyte	RT	RT WINDOW	
		FROM	TO
Chloride	2.12	1.88	2.38
Bromide	3.83	3.62	4.12
Sulfate	5.73	5.53	6.03
Fluoride			

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCV 410-684515/6 Calibration Date: 08/13/2025 00:40

Instrument ID: 3162 Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/06/2025 14:40

Lab File ID: 13_Aug_2025 00_40.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chloride	Lin1		7338968		3.03	3.00	1.1	10.0
Bromide	Lin2		3229160		8.48	7.50	13.0*	10.0
Sulfate	Lin1		5176936		7.16	7.50	-4.5	10.0
Fluoride	Lin2				0.200	0.750	-100.0*	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCV 410-684515/6
Calibration Date: 08/13/2025 00:40

Instrument ID: 3162
Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/06/2025 14:40

Lab File ID: 13_Aug_2025 00_40.d

Analyte	RT	RT WINDOW	
		FROM	TO
Chloride	2.12	1.88	2.38
Bromide	3.83	3.62	4.12
Sulfate	5.73	5.53	6.03
Fluoride			

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCV 410-684515/54 Calibration Date: 08/13/2025 08:55

Instrument ID: 3162 Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/06/2025 14:40

Lab File ID: 13_Aug_2025 08_55.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chloride	Lin1		7331260		3.03	3.00	1.0	10.0
Bromide	Lin2		3217759		8.45	7.50	12.6*	10.0
Sulfate	Lin1		5478641		7.56	7.50	0.8	10.0
Fluoride	Lin2				0.200	0.750	-100.0*	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCV 410-684515/54
Calibration Date: 08/13/2025 08:55

Instrument ID: 3162
Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/06/2025 14:40

Lab File ID: 13_Aug_2025 08_55.d

Analyte	RT	RT WINDOW	
		FROM	TO
Chloride	2.12	1.88	2.38
Bromide	3.83	3.62	4.12
Sulfate	5.72	5.53	6.03
Fluoride			

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCV 410-684515/61 Calibration Date: 08/13/2025 10:07

Instrument ID: 3162 Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/06/2025 14:40

Lab File ID: 13_Aug_2025 10_07.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chloride	Lin1		7381104		3.05	3.00	1.6	10.0
Bromide	Lin2		3246275		8.52	7.50	13.6*	10.0
Sulfate	Lin1		5599035		7.72	7.50	2.9	10.0
Fluoride	Lin2				0.200	0.750	-100.0*	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCV 410-684515/61
Calibration Date: 08/13/2025 10:07

Instrument ID: 3162
Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/06/2025 14:40

Lab File ID: 13_Aug_2025 10_07.d

Analyte	RT	RT WINDOW	
		FROM	TO
Chloride	2.12	1.88	2.38
Bromide	3.83	3.62	4.12
Sulfate	5.72	5.53	6.03
Fluoride			

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-684515/5

Matrix: Water
Lab File ID: 13_Aug_2025 00_30.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 00:30

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684515
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.50	U	1.50	0.60
14808-79-8	Sulfate	1.50	U	1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-684515/2

Matrix: Water
Lab File ID: 12_Aug_2025 23_59.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/12/2025 23:59

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684515
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-684515/7

Matrix: Water
Lab File ID: 13_Aug_2025 00_50.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 00:50

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684515
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-684515/55

Matrix: Water
Lab File ID: 13_Aug_2025 09_05.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 09:05

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684515
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-684515/62

Matrix: Water
Lab File ID: 13_Aug_2025 10_17.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 10:17

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684515
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID:
Lab Sample ID: ICB 410-681718/8

Matrix: Water
Lab File ID: 06_Aug_2025 15_01.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/06/2025 15:01

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 681718
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-684515/3

Matrix: Water
Lab File ID: 13_Aug_2025 00_09.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 00:09

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684515
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	3.047		1.50	0.60
14808-79-8	Sulfate	7.369		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-684515/4

Matrix: Water
Lab File ID: 13_Aug_2025 00_19.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 00:19

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684515
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	3.041		1.50	0.60
14808-79-8	Sulfate	7.126		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-100E/250811 MS
Lab Sample ID: 620-28495-3 MS

Matrix: Water
Lab File ID: 13_Aug_2025 09_46.d

Analysis Method: 9056A
Date Collected: 08/11/2025 15:05

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 09:46

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684515
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	11.03		1.50	0.60
14808-79-8	Sulfate	7.670		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-100E/250811 DU
Lab Sample ID: 620-28495-3 DU

Matrix: Water
Lab File ID: 13_Aug_2025 09_36.d

Analysis Method: 9056A
Date Collected: 08/11/2025 15:05

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 09:36

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684515
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	8.776		1.50	0.60
14808-79-8	Sulfate	0.586	J	1.50	0.50

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Instrument ID: 3162 Start Date: 08/06/2025 13:49

Analysis Batch Number: 681718 End Date: 08/06/2025 15:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-681718/1		08/06/2025 13:49	1		IC17-AS14 4(mm)
IC 410-681718/2		08/06/2025 13:59	1	06_Aug_2025 13_59.d	IC17-AS14 4(mm)
IC 410-681718/3		08/06/2025 14:09	1	06_Aug_2025 14_09.d	IC17-AS14 4(mm)
IC 410-681718/4		08/06/2025 14:19	1	06_Aug_2025 14_19.d	IC17-AS14 4(mm)
IC 410-681718/5		08/06/2025 14:30	1	06_Aug_2025 14_30.d	IC17-AS14 4(mm)
IC 410-681718/6		08/06/2025 14:40	1	06_Aug_2025 14_40.d	IC17-AS14 4(mm)
ICV 410-681718/7		08/06/2025 14:50	1	06_Aug_2025 14_50.d	IC17-AS14 4(mm)
ICB 410-681718/8		08/06/2025 15:01	1	06_Aug_2025 15_01.d	IC17-AS14 4(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Instrument ID: 3162 Start Date: 08/12/2025 23:48

Analysis Batch Number: 684515 End Date: 08/13/2025 11:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-684515/1		08/12/2025 23:48	1	12_Aug_2025 23_48.d	IC17-AS14 4(mm)
CCB 410-684515/2		08/12/2025 23:59	1	12_Aug_2025 23_59.d	IC17-AS14 4(mm)
LCS 410-684515/3		08/13/2025 00:09	1	13_Aug_2025 00_09.d	IC17-AS14 4(mm)
LCSD 410-684515/4		08/13/2025 00:19	1	13_Aug_2025 00_19.d	IC17-AS14 4(mm)
MB 410-684515/5		08/13/2025 00:30	1	13_Aug_2025 00_30.d	IC17-AS14 4(mm)
CCV 410-684515/6		08/13/2025 00:40	1	13_Aug_2025 00_40.d	IC17-AS14 4(mm)
CCB 410-684515/7		08/13/2025 00:50	1	13_Aug_2025 00_50.d	IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 01:01	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 01:11	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 01:21	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 01:32	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 01:42	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 01:52	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 02:03	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 02:13	5		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 02:23	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 02:33	5		IC17-AS14 4(mm)
CCV 410-684515/18		08/13/2025 02:44	1		IC17-AS14 4(mm)
CCB 410-684515/19		08/13/2025 02:54	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 03:04	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 03:15	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 03:25	100		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 03:35	1000		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 03:46	10000		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 03:56	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 04:06	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 04:16	100		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 04:27	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 04:37	1		IC17-AS14 4(mm)
CCV 410-684515/30		08/13/2025 04:47	1		IC17-AS14 4(mm)
CCB 410-684515/31		08/13/2025 04:58	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 05:08	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 05:18	10		IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 05:29	10		IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 05:39	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 05:49	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 06:00	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 06:10	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 06:20	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 06:30	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 06:41	10		IC17-AS14 4(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Instrument ID: 3162 Start Date: 08/12/2025 23:48

Analysis Batch Number: 684515 End Date: 08/13/2025 11:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-684515/42		08/13/2025 06:51	1		IC17-AS14 4(mm)
CCB 410-684515/43		08/13/2025 07:01	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 07:12	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 07:22	5		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 07:32	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 07:43	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 07:53	100		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 08:03	1000		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 08:14	10000		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 08:24	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 08:34	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 08:44	100		IC17-AS14 4(mm)
CCV 410-684515/54		08/13/2025 08:55	1	13_Aug_2025 08_55.d	IC17-AS14 4(mm)
CCB 410-684515/55		08/13/2025 09:05	1	13_Aug_2025 09_05.d	IC17-AS14 4(mm)
620-28495-2	MW-100B/250811	08/13/2025 09:16	1	13_Aug_2025 09_16.d	IC17-AS14 4(mm)
620-28495-3	MW-100E/250811	08/13/2025 09:26	1	13_Aug_2025 09_26.d	IC17-AS14 4(mm)
620-28495-3 DU	MW-100E/250811 DU	08/13/2025 09:36	1	13_Aug_2025 09_36.d	IC17-AS14 4(mm)
620-28495-3 MS	MW-100E/250811 MS	08/13/2025 09:46	1	13_Aug_2025 09_46.d	IC17-AS14 4(mm)
620-28495-4	FB/250811	08/13/2025 09:57	1	13_Aug_2025 09_57.d	IC17-AS14 4(mm)
CCV 410-684515/61		08/13/2025 10:07	1	13_Aug_2025 10_07.d	IC17-AS14 4(mm)
CCB 410-684515/62		08/13/2025 10:17	1	13_Aug_2025 10_17.d	IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 10:28	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 10:38	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 10:48	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 10:59	50		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 11:09	100		IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 11:19	100		IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 11:30	100		IC17-AS14 4(mm)
CCV 410-684515/70		08/13/2025 11:40	1		IC17-AS14 4(mm)
CCB 410-684515/71		08/13/2025 11:50	1		IC17-AS14 4(mm)

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28495-1

SDG No.:

Batch Number: 681718 Batch Start Date: 08/06/25 13:49 Batch Analyst: Ranson, Emily

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	WC_IC_C_Det 00227	WC_IC_QC2 01432			
IC 410-681718/2		9056A			0 mL	0.5 mL				
IC 410-681718/3		9056A			0 mL	2 mL				
IC 410-681718/4		9056A			0 mL	5 mL				
IC 410-681718/5		9056A			0 mL	10 mL				
IC 410-681718/6		9056A			0 mL	15 mL				
ICV 410-681718/7		9056A			0 mL		7.5 mL			
ICB 410-681718/8		9056A			0 mL					

Batch Notes	
Pipette/Syringe/Dispenser ID	anions
Eluent 1 ID	WC_IC_D20KOHW_00025
Pipette Tip Lot ID	L208595R
Vial Lot Number	430592

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28495-1

SDG No.:

Batch Number: 684515 Batch Start Date: 08/12/25 23:48 Batch Analyst: Schoener, Jacquelyn

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	WC_IC_QC2 01436				
CCV 410-684515/1		9056A			0 mL	7.5 mL				
CCB 410-684515/2		9056A			0 mL					
LCS 410-684515/3		9056A			0 mL	7.5 mL				
LCSD 410-684515/4		9056A			0 mL	7.5 mL				
MB 410-684515/5		9056A			0 mL					
CCV 410-684515/6		9056A			0 mL	7.5 mL				
CCB 410-684515/7		9056A			0 mL					
CCV 410-684515/54		9056A			0 mL	7.5 mL				
CCB 410-684515/55		9056A			0 mL					
620-28495-K-2	MW-100B/250811	9056A	Water	T	0 mL					
620-28495-K-3	MW-100E/250811	9056A	Water	T	0 mL					
620-28495-K-3 DU	MW-100E/250811	9056A		T	0 mL					
620-28495-K-3 MS	MW-100E/250811	9056A		T	0 mL	0.1 mL				
620-28495-J-4	FB/250811	9056A	Water	T	0 mL					
CCV 410-684515/61		9056A			0 mL	7.5 mL				
CCB 410-684515/62		9056A			0 mL					

Batch Notes	
Pipette/Syringe/Dispenser ID	ANIONS
Eluent 1 ID	WC_IC_D20KOHW_00025
Pipette Tip Lot ID	X0022TR0ER
Vial Lot Number	430920

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28495-1

SDG No.:

Batch Number: 684515 Batch Start Date: 08/12/25 23:48 Batch Analyst: Schoener, Jacquelyn

Batch Method: 9056A Batch End Date:

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.

9056A_ORGFM_48H

Anions, Ion Chromatography

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 13_Aug_2025 00_09.d

Lab ID: LCS 410-684514/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Nitrate as N	0.750	0.851	113	90-110	*

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 13_Aug_2025 00_19.d

Lab ID: LCSD 410-684514/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Nitrate as N	0.750	0.803	107	NaN	20	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 13_Aug_2025 09_46.d

Lab ID: 620-28495-3 MS Client ID: MW-100E/250811 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Nitrate as N	0.500	0.11 U	1.173	235	90-110	*

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Lab File ID: 13_Aug_2025 00_30.d Lab Sample ID: MB 410-684514/5

Matrix: Water Date Extracted:

Instrument ID: 3162 Date Analyzed: 08/13/2025 00:30

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-684514/3	13_Aug_2025 00_09.d	08/13/2025 00:09
	LCSD 410-684514/4	13_Aug_2025 00_19.d	08/13/2025 00:19
MW-100B/250811	620-28495-2	13_Aug_2025 09_16.d	08/13/2025 09:16
MW-100E/250811	620-28495-3	13_Aug_2025 09_26.d	08/13/2025 09:26
MW-100E/250811 DU	620-28495-3 DU	13_Aug_2025 09_36.d	08/13/2025 09:36
MW-100E/250811 MS	620-28495-3 MS	13_Aug_2025 09_46.d	08/13/2025 09:46
FB/250811	620-28495-4	13_Aug_2025 09_57.d	08/13/2025 09:57

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-100B/250811
Lab Sample ID: 620-28495-2

Matrix: Water
Lab File ID: 13_Aug_2025 09_16.d

Analysis Method: 9056A
Date Collected: 08/11/2025 13:00

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 09:16

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684514
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.11	U *	0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-100E/250811
Lab Sample ID: 620-28495-3

Matrix: Water
Lab File ID: 13_Aug_2025 09_26.d

Analysis Method: 9056A
Date Collected: 08/11/2025 15:05

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 09:26

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684514
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.11	U *	0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID: FB/250811
Lab Sample ID: 620-28495-4

Matrix: Water
Lab File ID: 13_Aug_2025 09_57.d

Analysis Method: 9056A
Date Collected: 08/11/2025 15:15

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 09:57

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684514
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.11	U *	0.11	0.050

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1 Analy Batch No.: 681717

SDG No.:

Instrument ID: 3162 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2025 13:49 Calibration End Date: 08/06/2025 14:40 Calibration ID: 75481

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-681717/2	06_Aug_2025 13_59.d
Level 2	IC 410-681717/3	06_Aug_2025 14_09.d
Level 3	IC 410-681717/4	06_Aug_2025 14_19.d
Level 4	IC 410-681717/5	06_Aug_2025 14_30.d
Level 5	IC 410-681717/6	06_Aug_2025 14_40.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Nitrite as N	2.677	2.683	2.683	2.680	2.680						2.430 - 2.930	2.681
Nitrate as N	4.673	4.683	4.667	4.653	4.640						4.417 - 4.917	4.663

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1 Analy Batch No.: 681717

SDG No.:

Instrument ID: 3162 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2025 13:49 Calibration End Date: 08/06/2025 14:40 Calibration ID: 75481

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-681717/2	06_Aug_2025 13_59.d
Level 2	IC 410-681717/3	06_Aug_2025 14_09.d
Level 3	IC 410-681717/4	06_Aug_2025 14_19.d
Level 4	IC 410-681717/5	06_Aug_2025 14_30.d
Level 5	IC 410-681717/6	06_Aug_2025 14_40.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 2	LVL 3	LVL 4		B	M1	M2								
Nitrite as N	14046030 16907426	14890788	15340711	16919347	Lin1	-420073.99	16825072.3				6.9		10.0	0.9990		0.9900
Nitrate as N	16431850 16853388	14446308	14857683	16619255	Lin2	32396.0423	15748828.0				8.1		10.0	0.9940		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
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1 Analy Batch No.: 681717

SDG No.:

Instrument ID: 3162 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2025 13:49 Calibration End Date: 08/06/2025 14:40 Calibration ID: 75481

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-681717/2	06_Aug_2025 13_59.d
Level 2	IC 410-681717/3	06_Aug_2025 14_09.d
Level 3	IC 410-681717/4	06_Aug_2025 14_19.d
Level 4	IC 410-681717/5	06_Aug_2025 14_30.d
Level 5	IC 410-681717/6	06_Aug_2025 14_40.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Nitrite as N	Lin1	1404603	5956315	15340711	33838693	50722278	0.100	0.400	1.00	2.00	3.00
Nitrate as N	Lin2	1643185	5778523	14857683	33238510	50560163	0.100	0.400	1.00	2.00	3.00

Curve Type Legend:

Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2

Calibration / Nitrite as N

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

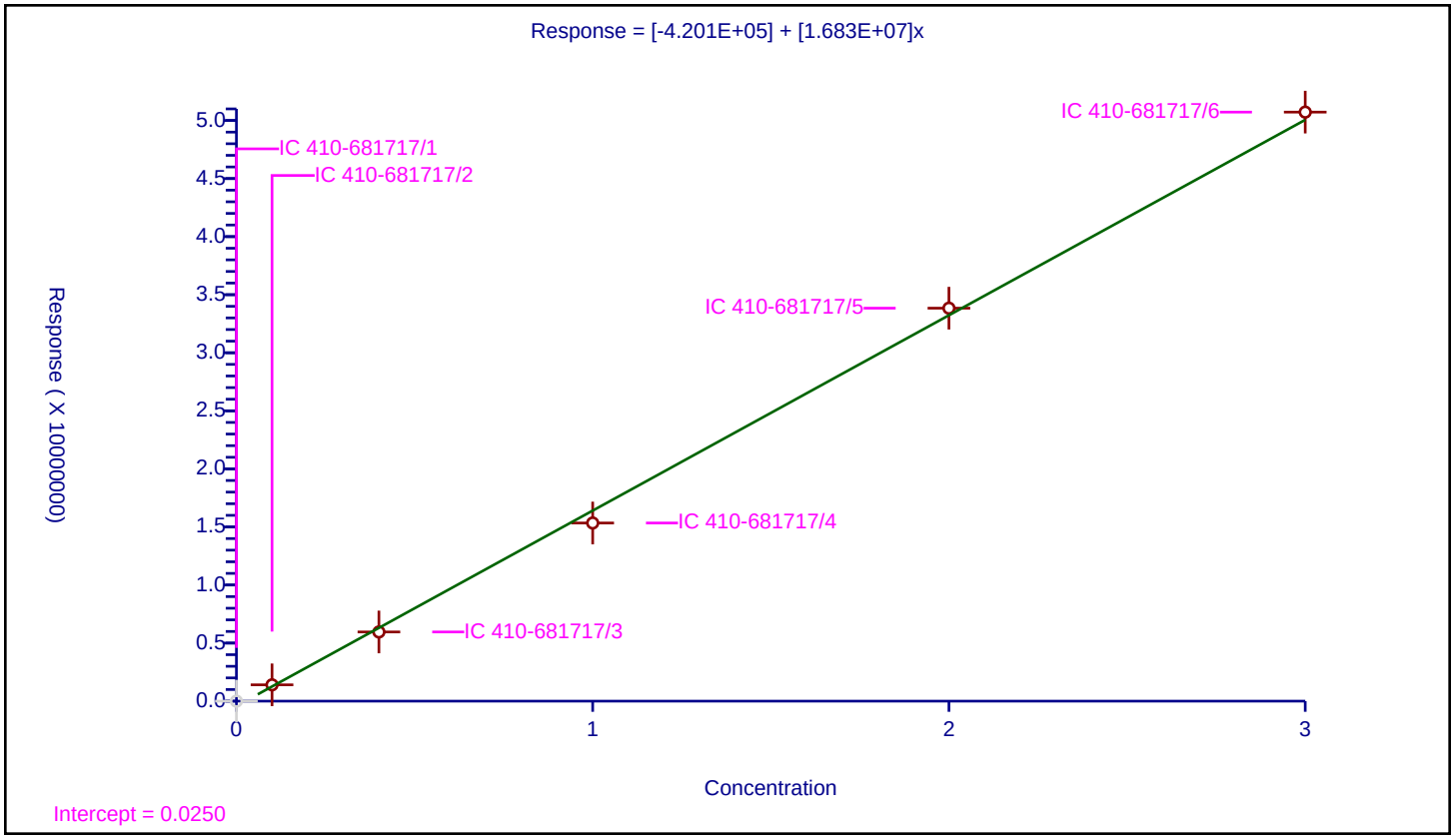
Curve Coefficients

Intercept:	-4.201E+05
Slope:	1.683E+07

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-681717/1	0.0	0.0			NaN	N
2	IC 410-681717/2	0.1	1404603.0			14046030.0	Y
3	IC 410-681717/3	0.4	5956315.0			14890787.5	Y
4	IC 410-681717/4	1.0	15340711.0			15340711.0	Y
5	IC 410-681717/5	2.0	33838693.0			16919346.5	Y
6	IC 410-681717/6	3.0	50722278.0			16907426.0	Y



8/20/2025
8:44:38 PM

Calibration / Nitrate as N

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

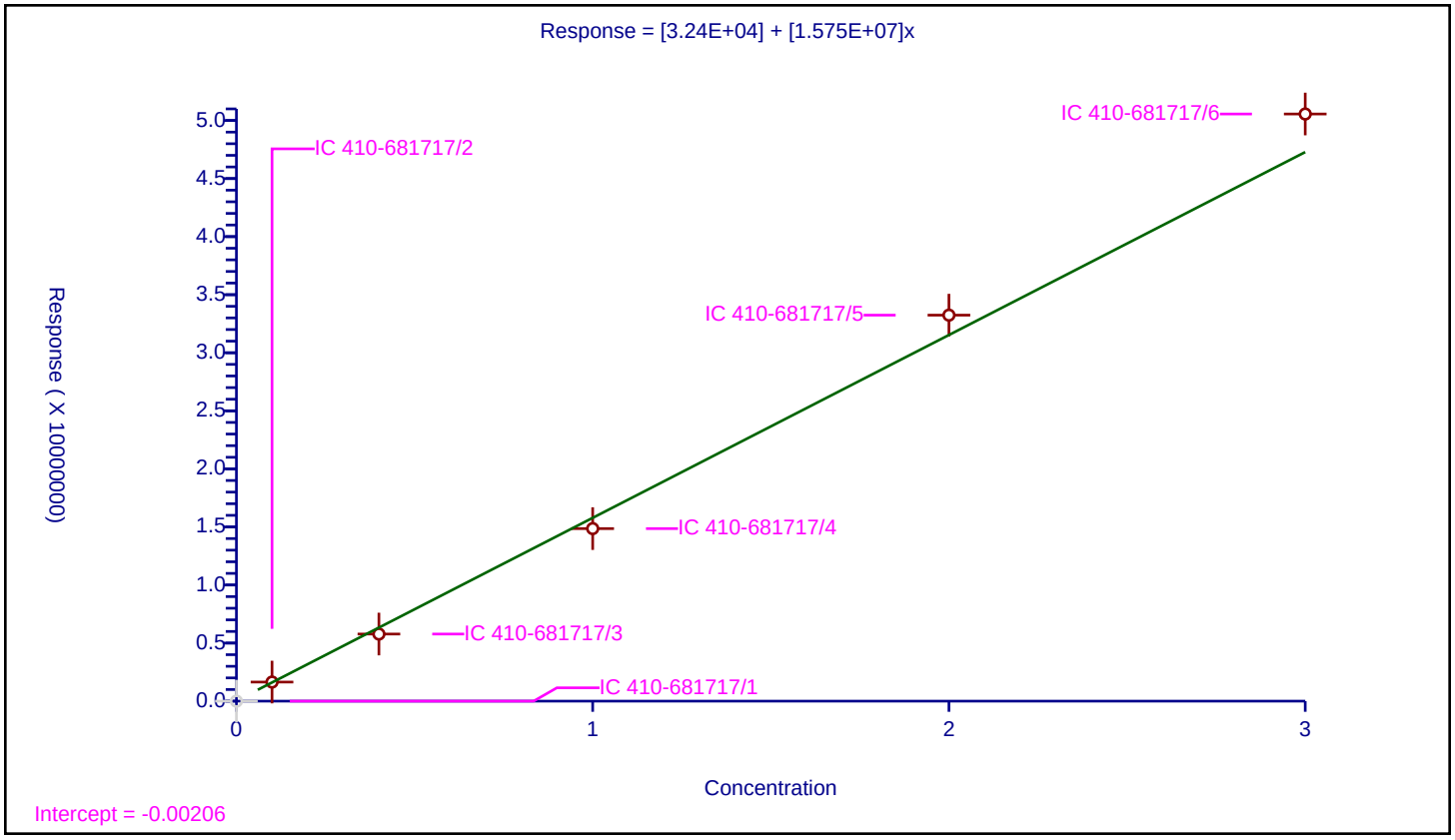
Curve Coefficients

Intercept:	3.24E+04
Slope:	1.575E+07

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-681717/1	0.0	0.0			NaN	N
2	IC 410-681717/2	0.1	1643185.0			16431850.0	Y
3	IC 410-681717/3	0.4	5778523.0			14446307.5	Y
4	IC 410-681717/4	1.0	14857683.0			14857683.0	Y
5	IC 410-681717/5	2.0	33238510.0			16619255.0	Y
6	IC 410-681717/6	3.0	50560163.0			16853387.666667	Y



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCV 410-684514/1 Calibration Date: 08/12/2025 23:48

Instrument ID: 3162 Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/06/2025 14:40

Lab File ID: 12_Aug_2025 23_48.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrite as N	Lin1		16241492		0.749	0.750	-0.1	10.0
Nitrate as N	Lin2		17840565		0.848	0.750	13.0*	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCV 410-684514/1
Calibration Date: 08/12/2025 23:48

Instrument ID: 3162
Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/06/2025 14:40

Lab File ID: 12_Aug_2025 23_48.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrite as N	2.66	2.43	2.93
Nitrate as N	4.62	4.42	4.92

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCV 410-684514/6 Calibration Date: 08/13/2025 00:40

Instrument ID: 3162 Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/06/2025 14:40

Lab File ID: 13_Aug_2025 00_40.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrite as N	Lin1		16330185		0.753	0.750	0.4	10.0
Nitrate as N	Lin2		18011120		0.856	0.750	14.1*	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCV 410-684514/6
Calibration Date: 08/13/2025 00:40

Instrument ID: 3162
Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/06/2025 14:40

Lab File ID: 13_Aug_2025 00_40.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrite as N	2.66	2.43	2.93
Nitrate as N	4.62	4.42	4.92

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCV 410-684514/54 Calibration Date: 08/13/2025 08:55

Instrument ID: 3162 Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/06/2025 14:40

Lab File ID: 13_Aug_2025 08_55.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrite as N	Lin1		16544492		0.762	0.750	1.7	10.0
Nitrate as N	Lin2		17662492		0.839	0.750	11.9*	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCV 410-684514/54
Calibration Date: 08/13/2025 08:55

Instrument ID: 3162
Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/06/2025 14:40

Lab File ID: 13_Aug_2025 08_55.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrite as N	2.66	2.43	2.93
Nitrate as N	4.62	4.42	4.92

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCV 410-684514/61 Calibration Date: 08/13/2025 10:07

Instrument ID: 3162 Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/06/2025 14:40

Lab File ID: 13_Aug_2025 10_07.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrite as N	Lin1		16471963		0.759	0.750	1.2	10.0
Nitrate as N	Lin2		17851243		0.848	0.750	13.1*	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Lab Sample ID: CCV 410-684514/61
Calibration Date: 08/13/2025 10:07

Instrument ID: 3162
Calib Start Date: 08/06/2025 13:49

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/06/2025 14:40

Lab File ID: 13_Aug_2025 10_07.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrite as N	2.67	2.43	2.93
Nitrate as N	4.62	4.42	4.92

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-684514/5

Matrix: Water
Lab File ID: 13_Aug_2025 00_30.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 00:30

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684514
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.11	U	0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-684514/2

Matrix: Water
Lab File ID: 12_Aug_2025 23_59.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/12/2025 23:59

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684514
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.10	U	0.10	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-684514/7

Matrix: Water
Lab File ID: 13_Aug_2025 00_50.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 00:50

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684514
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.10	U	0.10	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-684514/55

Matrix: Water
Lab File ID: 13_Aug_2025 09_05.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 09:05

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684514
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.10	U	0.10	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-684514/62

Matrix: Water
Lab File ID: 13_Aug_2025 10_17.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 10:17

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684514
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.10	U	0.10	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-684514/3

Matrix: Water
Lab File ID: 13_Aug_2025 00_09.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 00:09

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684514
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.851		0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-684514/4

Matrix: Water
Lab File ID: 13_Aug_2025 00_19.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 00:19

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684514
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.803		0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-100E/250811 MS
Lab Sample ID: 620-28495-3 MS

Matrix: Water
Lab File ID: 13_Aug_2025 09_46.d

Analysis Method: 9056A
Date Collected: 08/11/2025 15:05

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 09:46

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684514
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	1.173		0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1

SDG No.:

Client Sample ID: MW-100E/250811 DU
Lab Sample ID: 620-28495-3 DU

Matrix: Water
Lab File ID: 13_Aug_2025 09_36.d

Analysis Method: 9056A
Date Collected: 08/11/2025 15:05

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 09:36

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 684514
Units: mg/L

Preparation Batch No.:
Instrument ID: 3162

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.11	U	0.11	0.050

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Instrument ID: 3162 Start Date: 08/06/2025 13:49

Analysis Batch Number: 681717 End Date: 08/06/2025 15:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-681717/1		08/06/2025 13:49	1		IC17-AS14 4(mm)
IC 410-681717/2		08/06/2025 13:59	1	06_Aug_2025 13_59.d	IC17-AS14 4(mm)
IC 410-681717/3		08/06/2025 14:09	1	06_Aug_2025 14_09.d	IC17-AS14 4(mm)
IC 410-681717/4		08/06/2025 14:19	1	06_Aug_2025 14_19.d	IC17-AS14 4(mm)
IC 410-681717/5		08/06/2025 14:30	1	06_Aug_2025 14_30.d	IC17-AS14 4(mm)
IC 410-681717/6		08/06/2025 14:40	1	06_Aug_2025 14_40.d	IC17-AS14 4(mm)
ICV 410-681717/7		08/06/2025 14:50	1		IC17-AS14 4(mm)
ICB 410-681717/8		08/06/2025 15:01	1		IC17-AS14 4(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Instrument ID: 3162 Start Date: 08/12/2025 23:48

Analysis Batch Number: 684514 End Date: 08/13/2025 11:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-684514/1		08/12/2025 23:48	1	12_Aug_2025 23_48.d	IC17-AS14 4(mm)
CCB 410-684514/2		08/12/2025 23:59	1	12_Aug_2025 23_59.d	IC17-AS14 4(mm)
LCS 410-684514/3		08/13/2025 00:09	1	13_Aug_2025 00_09.d	IC17-AS14 4(mm)
LCSD 410-684514/4		08/13/2025 00:19	1	13_Aug_2025 00_19.d	IC17-AS14 4(mm)
MB 410-684514/5		08/13/2025 00:30	1	13_Aug_2025 00_30.d	IC17-AS14 4(mm)
CCV 410-684514/6		08/13/2025 00:40	1	13_Aug_2025 00_40.d	IC17-AS14 4(mm)
CCB 410-684514/7		08/13/2025 00:50	1	13_Aug_2025 00_50.d	IC17-AS14 4(mm)
CCV 410-684514/18		08/13/2025 02:44	1		IC17-AS14 4(mm)
CCB 410-684514/19		08/13/2025 02:54	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 04:37	1		IC17-AS14 4(mm)
CCV 410-684514/30		08/13/2025 04:47	1		IC17-AS14 4(mm)
CCB 410-684514/31		08/13/2025 04:58	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 05:08	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 05:29	10		IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 05:39	10		IC17-AS14 4(mm)
CCV 410-684514/42		08/13/2025 06:51	1		IC17-AS14 4(mm)
CCB 410-684514/43		08/13/2025 07:01	1		IC17-AS14 4(mm)
CCV 410-684514/54		08/13/2025 08:55	1	13_Aug_2025 08_55.d	IC17-AS14 4(mm)
CCB 410-684514/55		08/13/2025 09:05	1	13_Aug_2025 09_05.d	IC17-AS14 4(mm)
620-28495-2	MW-100B/250811	08/13/2025 09:16	1	13_Aug_2025 09_16.d	IC17-AS14 4(mm)
620-28495-3	MW-100E/250811	08/13/2025 09:26	1	13_Aug_2025 09_26.d	IC17-AS14 4(mm)
620-28495-3 DU	MW-100E/250811 DU	08/13/2025 09:36	1	13_Aug_2025 09_36.d	IC17-AS14 4(mm)
620-28495-3 MS	MW-100E/250811 MS	08/13/2025 09:46	1	13_Aug_2025 09_46.d	IC17-AS14 4(mm)
620-28495-4	FB/250811	08/13/2025 09:57	1	13_Aug_2025 09_57.d	IC17-AS14 4(mm)
CCV 410-684514/61		08/13/2025 10:07	1	13_Aug_2025 10_07.d	IC17-AS14 4(mm)
CCB 410-684514/62		08/13/2025 10:17	1	13_Aug_2025 10_17.d	IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 10:28	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 10:38	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 10:48	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/13/2025 11:09	100		IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 11:19	100		IC17-AS14 4(mm)
ZZZZZ (QC)		08/13/2025 11:30	100		IC17-AS14 4(mm)

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28495-1

SDG No.:

Batch Number: 681717 Batch Start Date: 08/06/25 13:49 Batch Analyst: Ranson, Emily

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	WC_IC_C_Det 00227				
IC 410-681717/2		9056A			0 mL	0.5 mL				
IC 410-681717/3		9056A			0 mL	2 mL				
IC 410-681717/4		9056A			0 mL	5 mL				
IC 410-681717/5		9056A			0 mL	10 mL				
IC 410-681717/6		9056A			0 mL	15 mL				

Batch Notes	
Pipette/Syringe/Dispenser ID	anions
Eluent 1 ID	WC_IC_D20KOHW_00025
Pipette Tip Lot ID	L208595R
Vial Lot Number	430592

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28495-1

SDG No.:

Batch Number: 684514 Batch Start Date: 08/12/25 23:48 Batch Analyst: Schoener, Jacquelyn

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	WC_IC_QC2 01436				
CCV 410-684514/1		9056A			0 mL	7.5 mL				
CCB 410-684514/2		9056A			0 mL					
LCS 410-684514/3		9056A			0 mL	7.5 mL				
LCSD 410-684514/4		9056A			0 mL	7.5 mL				
MB 410-684514/5		9056A			0 mL					
CCV 410-684514/6		9056A			0 mL	7.5 mL				
CCB 410-684514/7		9056A			0 mL					
CCV 410-684514/54		9056A			0 mL	7.5 mL				
CCB 410-684514/55		9056A			0 mL					
620-28495-K-2	MW-100B/250811	9056A	Water	T	0 mL					
620-28495-K-3	MW-100E/250811	9056A	Water	T	0 mL					
620-28495-K-3 DU	MW-100E/250811	9056A		T	0 mL					
620-28495-K-3 MS	MW-100E/250811	9056A		T	0 mL	0.1 mL				
620-28495-J-4	FB/250811	9056A	Water	T	0 mL					
CCV 410-684514/61		9056A			0 mL	7.5 mL				
CCB 410-684514/62		9056A			0 mL					

Batch Notes	
Pipette/Syringe/Dispenser ID	ANIONS
Eluent 1 ID	WC_IC_D20KOHW_00025
Pipette Tip Lot ID	X0022TR0ER
Vial Lot Number	430920

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28495-1

SDG No.:

Batch Number: 684514 Batch Start Date: 08/12/25 23:48 Batch Analyst: Schoener, Jacquelyn

Batch Method: 9056A Batch End Date:

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 Rhode Island Job Number: 620-28495-1

SDG No.:

Project: ESCO Steel Treaters Project

Client Sample ID	Lab Sample ID
MW-100B/250811	620-28495-2
MW-100E/250811	620-28495-3
FB/250811	620-28495-4

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-100B/250811 | Lab Sample ID: 620-28495-2

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG ID.:

Matrix: Water | Date Sampled: 08/11/2025 13:00

Reporting Basis: WET | Date Received: 08/12/2025 11:07

Preparation Batch Number: 51922 | Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	2.3	0.50	0.19	mg/L			1	6010D
7439-95-4	Magnesium	3.6	0.040	0.038	mg/L			1	6010D
7440-09-7	Potassium	1.4	1.0	0.34	mg/L			1	6010D
7440-23-5	Sodium	48.0	1.5	0.28	mg/L			1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-100B/250811
Lab Sample ID: 620-28495-2
Lab Name: Eurofins Rhode Island
Job No.: 620-28495-1
SDG ID.:
Matrix: Water
Date Sampled: 08/11/2025 13:00
Reporting Basis: WET
Date Received: 08/12/2025 11:07
Preparation Batch Number: 51922
Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	0.10	0.10	0.056	mg/L	U		1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-100E/250811 | Lab Sample ID: 620-28495-3

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG ID.:

Matrix: Water | Date Sampled: 08/11/2025 15:05

Reporting Basis: WET | Date Received: 08/12/2025 11:07

Preparation Batch Number: 51922 | Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	2.1	0.50	0.19	mg/L			1	6010D
7439-95-4	Magnesium	0.52	0.040	0.038	mg/L			1	6010D
7440-09-7	Potassium	1.7	1.0	0.34	mg/L			1	6010D
7440-23-5	Sodium	44.2	1.5	0.28	mg/L			1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-100E/250811
Lab Sample ID: 620-28495-3
Lab Name: Eurofins Rhode Island
Job No.: 620-28495-1
SDG ID.:
Matrix: Water
Date Sampled: 08/11/2025 15:05
Reporting Basis: WET
Date Received: 08/12/2025 11:07
Preparation Batch Number: 51922
Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	0.10	0.10	0.056	mg/L	U		1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FB/250811 | Lab Sample ID: 620-28495-4

Lab Name: Eurofins Rhode Island | Job No.: 620-28495-1

SDG ID.:

Matrix: Water | Date Sampled: 08/11/2025 15:15

Reporting Basis: WET | Date Received: 08/12/2025 11:07

Preparation Batch Number: 51922 | Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	0.50	0.50	0.19	mg/L	U		1	6010D
7439-95-4	Magnesium	0.040	0.040	0.038	mg/L	U		1	6010D
7440-09-7	Potassium	1.0	1.0	0.34	mg/L	U		1	6010D
7440-23-5	Sodium	1.5	1.5	0.28	mg/L	U		1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: FB/250811
Lab Sample ID: 620-28495-4
Lab Name: Eurofins Rhode Island
Job No.: 620-28495-1
SDG ID.:
Matrix: Water
Date Sampled: 08/11/2025 15:15
Reporting Basis: WET
Date Received: 08/12/2025 11:07
Preparation Batch Number: 51922
Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	0.10	0.10	0.056	mg/L	U		1	6010D

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

ICV Source: MT_ICP_ICV_00055 Concentration Units: mg/L

CCV Source: MT_ICP_CCV_00046

Analyte	ICV 620-52051/7 08/13/2025 11:27				CCV 620-52051/13 08/13/2025 12:03				CCV 620-52051/25 08/13/2025 14:59			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Calcium	5.03		5.00	101	9.85		10.0	98	9.75		10.0	98
Iron	5.17		5.00	103	9.80		10.0	98	9.29		10.0	93
Magnesium	5.06		5.00	101	9.81		10.0	98	9.69		10.0	97
Potassium	48.67		50.0	97	9.70		10.0	97	9.62		10.0	96
Sodium	5.09		5.00	102	9.76		10.0	98	9.72		10.0	97

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 Rhode Island Job No.: 620-28495-1

SDG No.:

ICV Source: MT_ICP_ICV_00055 Concentration Units: mg/L

CCV Source: MT_ICP_CCV_00046

Analyte	CCV 620-52051/37 08/13/2025 16:10											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Calcium												
Iron	9.29		10.0	93								
Magnesium												
Potassium												
Sodium												

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Method: 6010D Instrument ID: ICAP4

Lab Sample ID: CRI 620-52051/10 Concentration Units: mg/L

CRQL Check Standard Source: MT_ICP_Cal2RL_00040

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Calcium	0.200	0.193	J	97	80-120
Iron	0.100	0.0934	J	93	80-120
Magnesium	0.0200	0.10	U	114	80-120
Potassium	1.00	1.01		101	80-120
Sodium	1.50	1.40	J	93	80-120

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 620-52051/9 08/13/2025 11:39		CCB 620-52051/14 08/13/2025 12:09		CCB 620-52051/26 08/13/2025 15:05		CCB 620-52051/38 08/13/2025 16:16	
		Found	C	Found	C	Found	C	Found	C
Calcium	1.0	1.0	U	1.0	U	1.0	U		
Iron	0.10	0.10	U	0.10	U	0.10	U	0.10	U
Magnesium	0.10	0.10	U	0.10	U	0.10	U		
Potassium	1.0	1.0	U	1.0	U	1.0	U		
Sodium	1.5	1.5	U	1.5	U	1.5	U		

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 620-51922/1-A

Instrument Code: ICAP4 Batch No.: 52051

CAS No.	Analyte	Concentration	C	Q	Method
7440-70-2	Calcium	0.50	U		6010D
7439-95-4	Magnesium	0.040	U		6010D
7440-09-7	Potassium	1.0	U		6010D
7440-23-5	Sodium	1.5	U		6010D

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 620-51971/1-B

Instrument Code: ICAP4 Batch No.: 52051

CAS No.	Analyte	Concentration	C	Q	Method
7439-89-6	Iron	0.010	U		6010D

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Lab Sample ID: ICSA 620-52051/11 Instrument ID: ICAP4

Lab File ID: 20250813_ICAP4.asc ICS Source: MT_ICP_ICSA_00042

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Calcium	**200**	**189**	**95**
Iron	**80.0**	**75.4**	**94**
Magnesium	**200**	**181**	**91**
Potassium		**0.115**	
Sodium		**0.0910**	
Aluminum	*200*	*188*	*94*
Antimony		*0.0072*	
Arsenic		*0.0064*	
Barium		*0.0013*	
Beryllium		*0.0008*	
Boron		*0.0107*	
Cadmium		*-0.0019*	
Chromium		*0.0179*	
Cobalt		*-0.0003*	
Copper		*-0.0012*	
Lead		*0.0047*	
Lithium		*0.0085*	
Manganese		*0.0007*	
Molybdenum		*-0.0001*	
Nickel		*-0.0035*	
Phosphorus as P		*0.0041*	
Selenium		*-0.0053*	
Silicon		*0.0067*	
Silver		*-0.0074*	
Strontium		*0.0051*	
Sulfur		*0.0316*	
Thallium		*-0.0050*	
Tin		*0.0104*	
Titanium		*0.0002*	
Vanadium		*0.0047*	
Zinc		*-0.0047*	

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 Rhode Island Job No.: 620-28495-1

SDG No.:

Lab Sample ID: ICSAB 620-52051/12 Instrument ID: ICAP4

Lab File ID: 20250813_ICAP4.asc ICS Source: MT_ICP_ICSAB_00046

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Calcium	**200**	**188**	**94**
Iron	**80.0**	**74.7**	**93**
Magnesium	**200**	**179**	**90**
Potassium		**0.0614**	
Sodium		**0.119**	
Aluminum	*200*	*183*	*92*
Antimony	*0.300*	*0.299*	*100*
Arsenic	*0.500*	*0.487*	*97*
Barium	*0.250*	*0.238*	*95*
Beryllium	*0.250*	*0.260*	*104*
Boron		*0.0058*	
Cadmium	*0.500*	*0.470*	*94*
Chromium	*0.250*	*0.256*	*102*
Cobalt	*0.250*	*0.232*	*93*
Copper	*0.250*	*0.291*	*116*
Lead	*0.500*	*0.459*	*92*
Lithium		*0.0054*	
Manganese	*0.250*	*0.243*	*97*
Molybdenum		*0.0001*	
Nickel	*0.500*	*0.453*	*91*
Phosphorus as P		*0.0039*	
Selenium	*0.500*	*0.470*	*94*
Silicon		*0.0122*	
Silver	*0.500*	*0.499*	*100*
Strontium		*0.0048*	
Sulfur		*0.0296*	
Thallium	*0.500*	*0.450*	*90*
Tin		*0.0078*	
Titanium		*0.0001*	
Vanadium	*0.250*	*0.249*	*100*
Zinc	*0.500*	*0.471*	*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: _____ Lab ID: 620-28471-A-1-C MS

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.: _____

Matrix: Water Concentration Units: mg/L

% Solids: _____

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Calcium	4.38		0.50	U	4.50	97	75-125		6010D
Iron	1.37		0.10	U	1.50	92	75-125		6010D
Magnesium	1.46		0.040	U	1.50	97	75-125		6010D
Potassium	56.02		36.9		15.0	127	75-125	N	6010D
Sodium	5.14		0.58	J	4.50	101	75-125		6010D

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

6-IN
DUPLICATES
METALS

Client ID: Lab ID: 620-28471-A-1-B DU

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Water Concentration Units: mg/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Calcium	0.50	0.50	U	0.50	U	NC		6010D
Iron	0.10	0.10	U	0.10	U	NC		6010D
Magnesium	0.040	0.040	U	0.040	U	NC		6010D
Potassium	1.0	36.9		36.25		2		6010D
Sodium	1.5	0.58	J	0.548	J	6		6010D

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 620-51922/2-A

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

Sample Matrix: Water LCS Source: MT_ICP_SPIKE_00130

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Calcium	4.50	4.26		95	80	120		6010D
Iron	1.50	1.31		87	80	120		6010D
Magnesium	1.50	1.42		95	80	120		6010D
Potassium	15.0	13.91		93	80	120		6010D
Sodium	4.50	4.29		95	80	120		6010D

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins Rhode Island Job Number: 620-28495-1

SDG Number:

Matrix: Water Instrument ID: ICAP4

Method: 6010D MDL Date: 04/08/2020 15:34

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Calcium	315.8	0.5	0.18664
Magnesium	285.2	0.04	0.03757
Potassium	766.4	1	0.34178
Sodium	589.5	1.5	0.28342

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins Rhode Island Job Number: 620-28495-1

SDG Number:

Matrix: Water Instrument ID: ICAP4

Method: 6010D XMDL Date: 04/08/2020 15:07

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Calcium	315.8	1	0.18664
Magnesium	285.2	0.1	0.03757
Potassium	766.4	1	0.34178
Sodium	589.5	1.5	0.28342

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins Rhode Island Job Number: 620-28495-1

SDG Number:

Matrix: Water Instrument ID: ICAP4

Method: 6010D MDL Date: 04/08/2020 15:34

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Iron	240.4	0.1	0.05623

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins Rhode Island Job Number: 620-28495-1

SDG Number:

Matrix: Water Instrument ID: ICAP4

Method: 6010D XMDL Date: 04/08/2020 15:07

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Iron	240.4	0.1	0.05623

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins Rhode Island Job No: 620-28495-1

SDG No.:

Instrument ID: ICAP4 Date: 04/09/2020 10:45

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Calcium		500	6010D
Iron		500	6010D
Magnesium		100	6010D
Potassium		500	6010D
Sodium		500	6010D

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 620-51922/1-A	08/11/2025 17:03	51922		50	50
LCS 620-51922/2-A	08/11/2025 17:03	51922		50	50
620-28471-A-1-B DU	08/11/2025 17:03	51922		50	50
620-28471-A-1-C MS	08/11/2025 17:03	51922		50	50
620-28495-2	08/12/2025 10:08	51922		50	50
620-28495-3	08/12/2025 10:08	51922		50	50
620-28495-4	08/12/2025 10:08	51922		50	50
MB 620-51971/1-B	08/12/2025 10:08	51922		50	50
620-28495-2	08/12/2025 10:08	51922		50	50
620-28495-3	08/12/2025 10:08	51922		50	50
620-28495-4	08/12/2025 10:08	51922		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Instrument ID: ICAP4 Method: 6010D

Start Date: 08/13/2025 10:51 End Date: 08/13/2025 16:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ca	Fe	K	Mg	Na															
ICIS 620-52051/1	1		10:51	X	X	X	X	X															
STD2 620-52051/2 IC			10:57	X	X	X	X	X															
STD3 620-52051/3 IC			11:03	X	X	X	X	X															
STD4 620-52051/4 IC			11:09	X	X	X	X	X															
STD5 620-52051/5 IC			11:15	X	X	X	X	X															
STD6 620-52051/6 IC			11:21	X	X	X	X	X															
ICV 620-52051/7	1		11:27	X	X	X	X	X															
ICV 620-52051/8			11:33																				
ICB 620-52051/9	1		11:39	X	X	X	X	X															
CRI 620-52051/10	1		11:45	X	X	X	X	X															
ICSA 620-52051/11	1		11:51	X	X	X	X	X															
ICSAB 620-52051/12	1		11:57	X	X	X	X	X															
CCV 620-52051/13	1		12:03	X	X	X	X	X															
CCB 620-52051/14	1		12:09	X	X	X	X	X															
MB 620-51922/1-A	1	T	13:59	X		X	X	X															
LCS 620-51922/2-A	1	T	14:05	X	X	X	X	X															
ZZZZZZ (Client)			14:11																				
620-28471-A-1-B DU	1	T	14:17	X	X	X	X	X															
620-28471-A-1-C MS	1	T	14:23	X	X	X	X	X															
ZZZZZZ (Client)			14:29																				
ZZZZZZ (Client)			14:35																				
620-28495-2	1	T	14:41	X		X	X	X															
620-28495-3	1	T	14:47	X		X	X	X															
620-28495-4	1	T	14:53	X		X	X	X															
CCV 620-52051/25	1		14:59	X	X	X	X	X															
CCB 620-52051/26	1		15:05	X	X	X	X	X															
MB 620-51971/1-B	0.1	D	15:11		X																		
620-28495-2	1	D	15:17		X																		
620-28495-3	1	D	15:23		X																		
620-28495-4	1	D	15:29		X																		
ZZZZZZ (Client)			15:35																				
ZZZZZZ (Client)			15:41																				
ZZZZZZ (Client)			15:46																				
ZZZZZZ (Client)			15:52																				
ZZZZZZ (Client)			15:58																				
ZZZZZZ (Client)			16:04																				
CCV 620-52051/37	1		16:10		X																		
CCB 620-52051/38	1		16:16		X																		
ZZZZZZ (Client)			16:22																				
ZZZZZZ (Client)			16:28																				
ZZZZZZ (Client)			16:34																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Instrument ID: ICAP4 Method: 6010D

Start Date: 08/13/2025 10:51 End Date: 08/13/2025 16:58

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ca	Fe	K	Mg	Na															
ZZZZZZ (Client)			16:40																				
ZZZZZZ (Client)			16:46																				
CCV 620-52051/44			16:52																				
CCB 620-52051/45			16:58																				

Prep Types

D = Dissolved

T = Total/NA

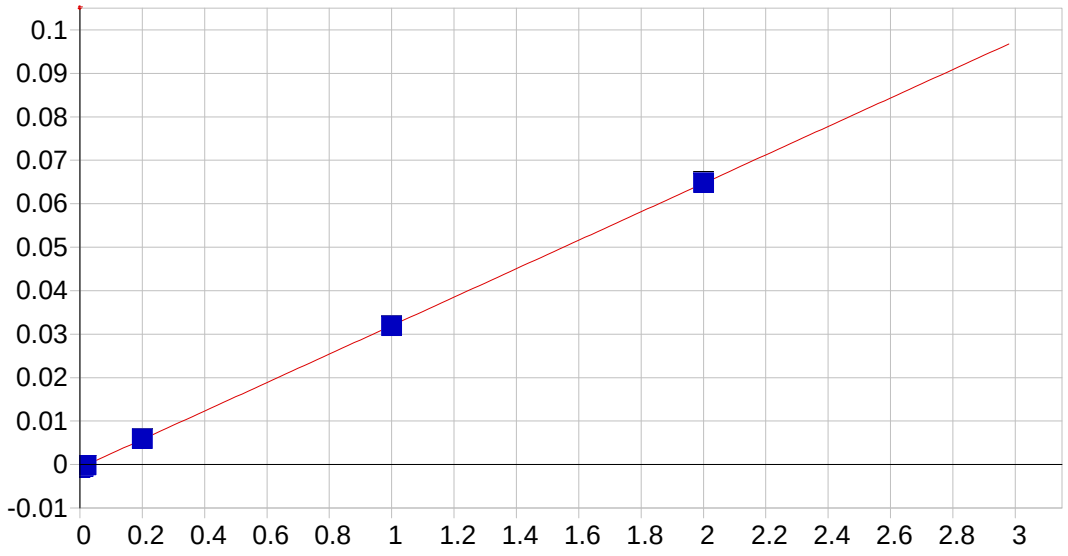
15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.: Analysis Batch No.: 52051

ICP Instrument ID: ICAP4 Start Date: 08/13/2025 End Date: 08/13/2025

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In	Q	Element Y	Q	Element	Q	Element	Q	Element	Q
ICIS 620-52051/1	10:51										
ICV 620-52051/7	11:27	91		97							
ICB 620-52051/9	11:39	99		99							
CRI 620-52051/10	11:45	100		99							
ICSA 620-52051/11	11:51	83		90							
ICSAB 620-52051/12	11:57	83		89							
CCV 620-52051/13	12:03	92		97							
CCB 620-52051/14	12:09	100		100							
MB 620-51922/1-A	13:59	102		101							
LCS 620-51922/2-A	14:05	97		99							
620-28471-A-1-B DU	14:17	98		97							
620-28471-A-1-C MS	14:23	93		96							
620-28495-2	14:41	95		96							
620-28495-3	14:47	95		97							
620-28495-4	14:53	99		99							
CCV 620-52051/25	14:59	91		96							
CCB 620-52051/26	15:05	100		99							
MB 620-51971/1-B	15:11	100		99							
620-28495-2	15:17	95		97							
620-28495-3	15:23	95		98							
620-28495-4	15:29	98		98							
CCV 620-52051/37	16:10	87		92							
CCB 620-52051/38	16:16	95		95							
IS Name on Instrument											

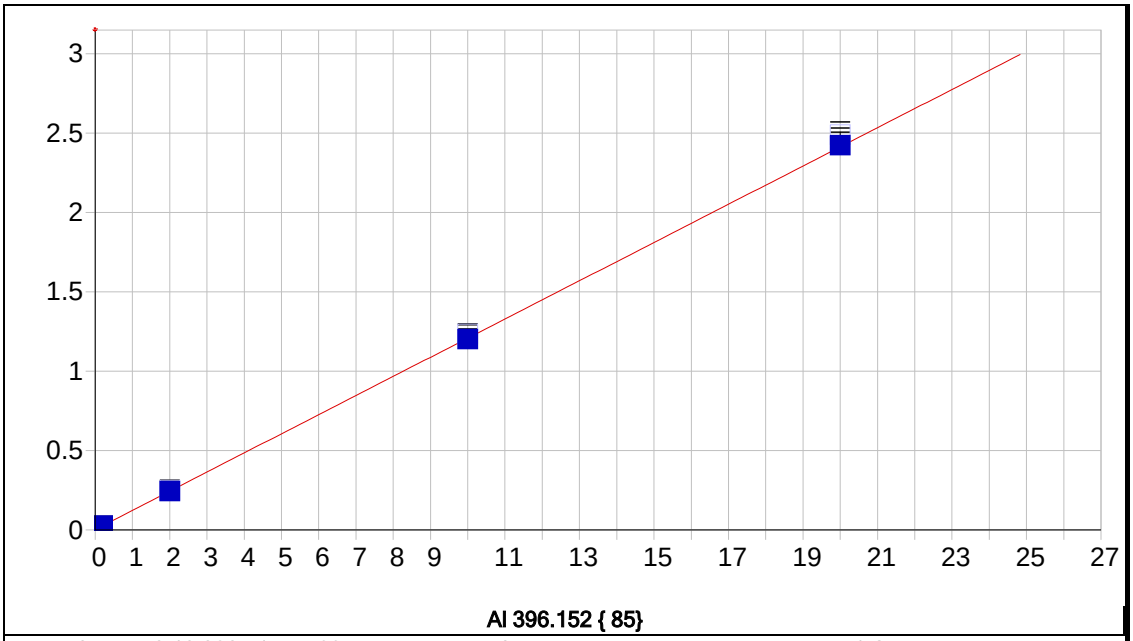


Ag 328.068 {103}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000776	Re-Slope:	1.000000
A1 (Gain):	0.032735	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999880	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.001114		
Predicted MQL:	0.003715		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00078	.000	1
CRL:148480	.01000	.00764	-.002	-23.6	-.00053	.000	1
STD3:14768	.02000	.01859	-.001	-7.07	-.00017	.000	1
STD4:14768	.20000	.20461	.005	2.30	.00593	.000	1
STD5:14768	1.0000	.99691	-.003	-.309	.03192	.000	1
STD6:14771	2.0000	2.0023	.002	.113	.06489	.000	1

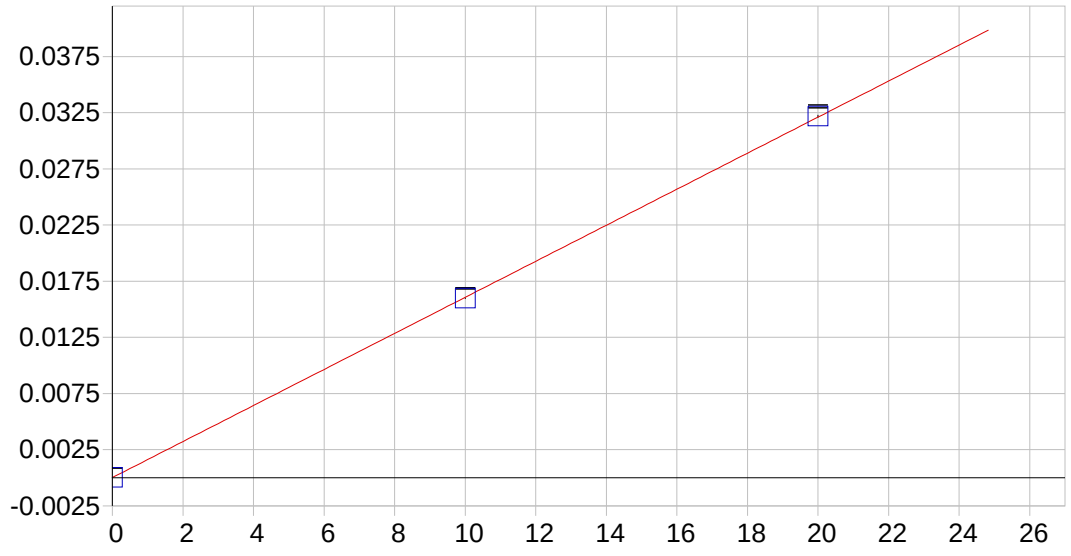


Al 396.152 { 85}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003078	Re-Slope:	1.000000
A1 (Gain):	0.120543	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999978	Status:	OK.
Std Error of Est:	0.000040		
Predicted MDL:	0.000744		
Predicted MQL:	0.002482		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00001	.000	.000	.00308	.000	1
CRL:148480	.05000	.04507	-.005	-9.87	.00858	.000	1
STD3:14768	.20000	.19302	-.007	-3.49	.02700	.000	1
STD4:14768	2.0000	1.9921	-.008	-.393	.24980	.000	1
STD5:14768	10.000	9.9378	-.062	-.622	1.2339	.003	1
STD6:14771	20.000	20.082	.082	.409	2.4896	.020	1

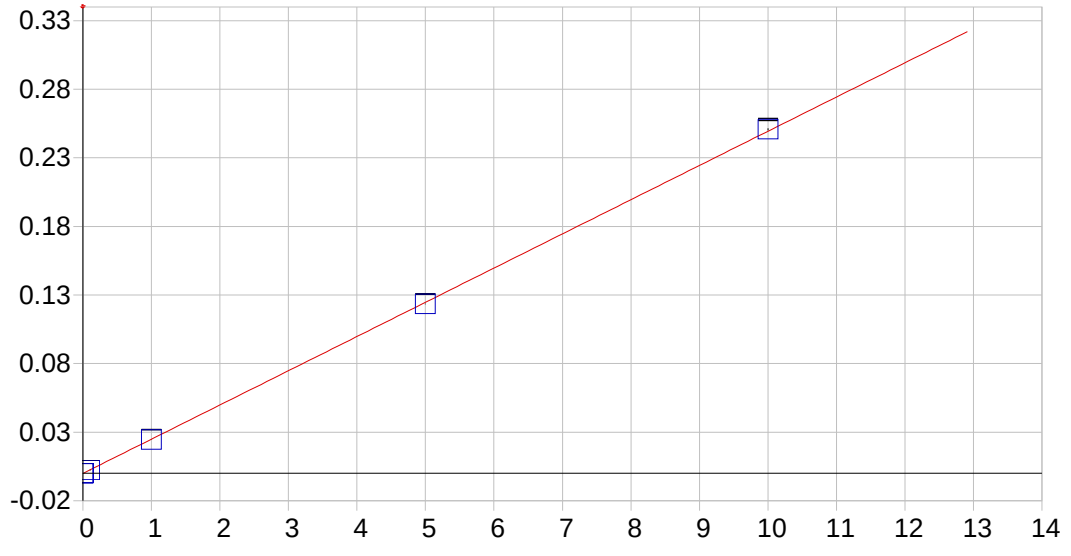


Al 396.152 { 85}2

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000022	Re-Slope:	1.000000
A1 (Gain):	0.001605	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.026553		
Predicted MQL:	0.088511		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00003	.000	.000	.00002	.000	1
STD5:14768	10.000	9.9494	-.051	-.506	.01599	.000	1
STD6:14771	20.000	20.051	.051	.253	.03219	.000	1

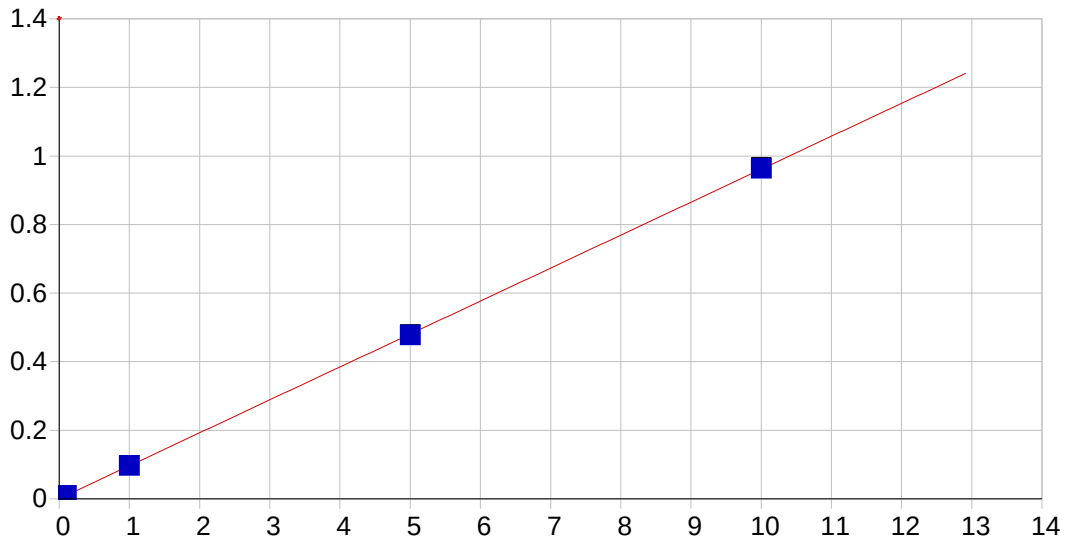


As 189.042 {478}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000065	Re-Slope:	1.000000
A1 (Gain):	0.024947	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999959	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.001907		
Predicted MQL:	0.006355		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00000	-.000	.000	-.00006	.000	1
CRL:148480	.00800	.00990	.002	23.7	.00018	.000	1
STD3:14768	.10000	.09926	-.001	-.741	.00241	.000	1
STD4:14768	1.0000	.99123	-.009	-.877	.02466	.000	1
STD5:14768	5.0000	4.9512	-.049	-.975	.12345	.000	1
STD6:14771	10.000	10.056	.056	.564	.25081	.001	1

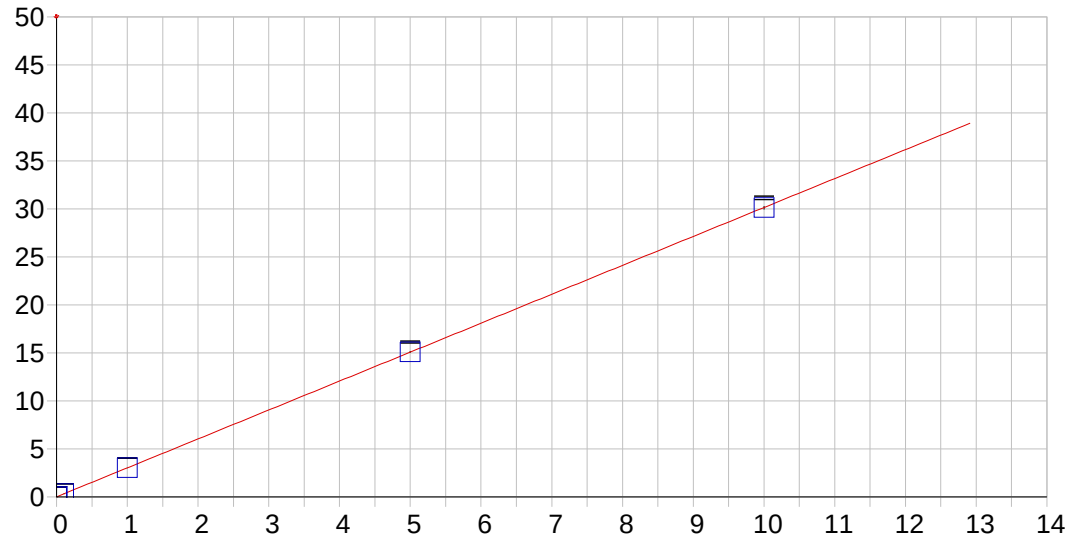


B 208.893 {461}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000341	Re-Slope:	1.000000
A1 (Gain):	0.096095	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.000875		
Predicted MQL:	0.002915		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00034	.000	1
CRL:148480	.10000	.09696	-.003	-3.04	.00966	.000	1
STD4:14768	1.0000	1.0098	.010	.984	.09725	.000	1
STD5:14768	5.0000	4.9650	-.035	-.700	.47681	.001	1
STD6:14771	10.000	10.028	.028	.282	.96271	.002	1

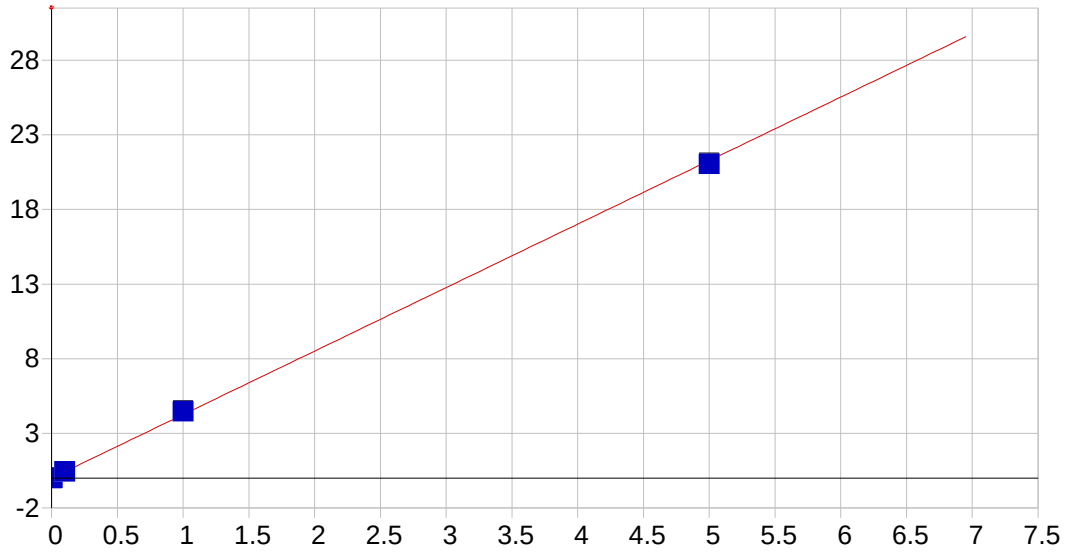


Ba 455.403 { 74}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.012041	Re-Slope:	1.000000
A1 (Gain):	3.013583	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000112		
Predicted MDL:	0.000545		
Predicted MQL:	0.001818		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00000	-.000	.000	.01204	.001	1
CRL:148480	.01000	.01010	.000	.959	.04247	.002	1
STD3:14768	.10000	.10258	.003	2.58	.32116	.001	1
STD4:14768	1.0000	.99837	-.002	-.163	3.0207	.023	1
STD5:14768	5.0000	5.0084	.008	.168	15.105	.108	1
STD6:14771	10.000	9.9906	-.009	-.094	30.119	.181	1

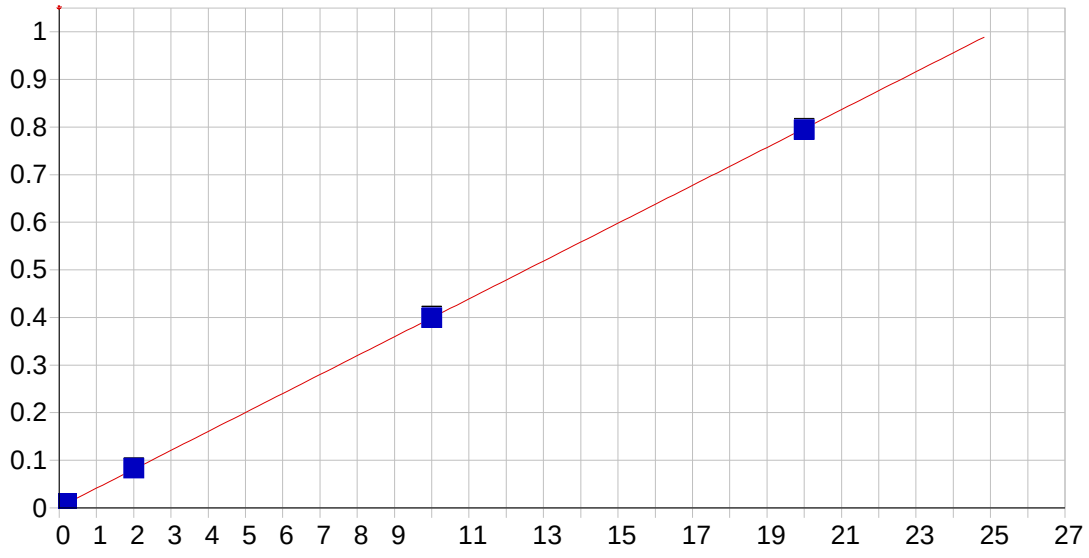


Be 313.042 {108}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000829	Re-Slope:	1.000000
A1 (Gain):	4.256018	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999731	Status:	OK.
Std Error of Est:	0.000630		
Predicted MDL:	0.000014		
Predicted MQL:	0.000045		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00000	-.000	.000	-.00083	.000	1
CRL:148480	.00400	.00410	.000	2.53	.01665	.000	1
STD3:14768	.10000	.10440	.004	4.40	.44376	.000	1
STD4:14768	1.0000	1.0500	.050	5.00	4.4709	.018	1
STD5:14768	5.0000	4.9455	-.055	-1.09	21.061	.043	1

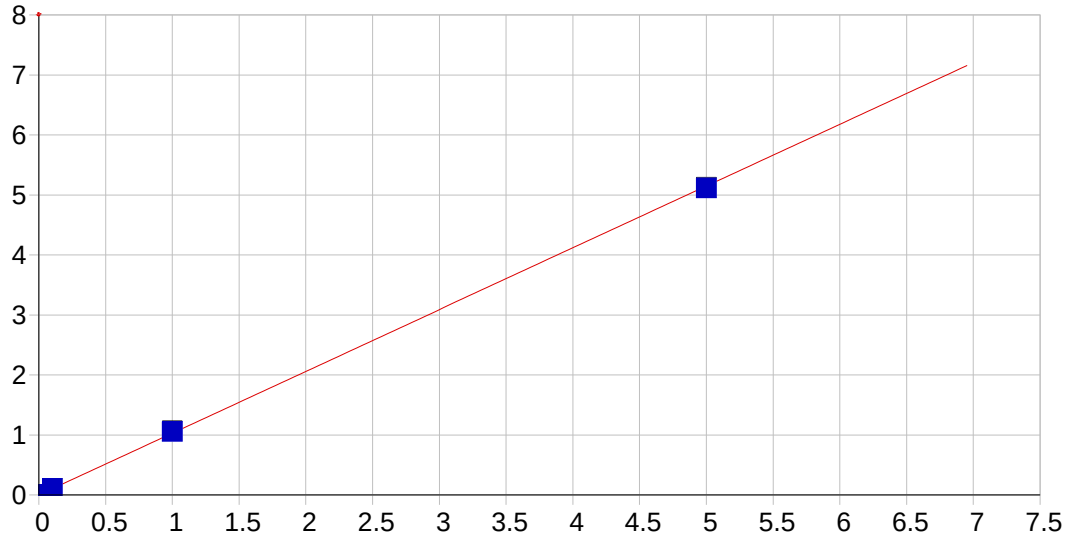


Ca 315.887 {107}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001641	Re-Slope:	1.000000
A1 (Gain):	0.039764	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999971	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.011984		
Predicted MQL:	0.039946		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00000	-.000	.000	.00164	.000	1
CRL:148480	.20000	.19804	-.002	-.978	.00952	.000	1
STD4:14768	2.0000	2.0580	.058	2.90	.08354	.000	1
STD5:14768	10.000	10.005	.005	.051	.39980	.003	1
STD6:14771	20.000	19.939	-.061	-.306	.79513	.002	1

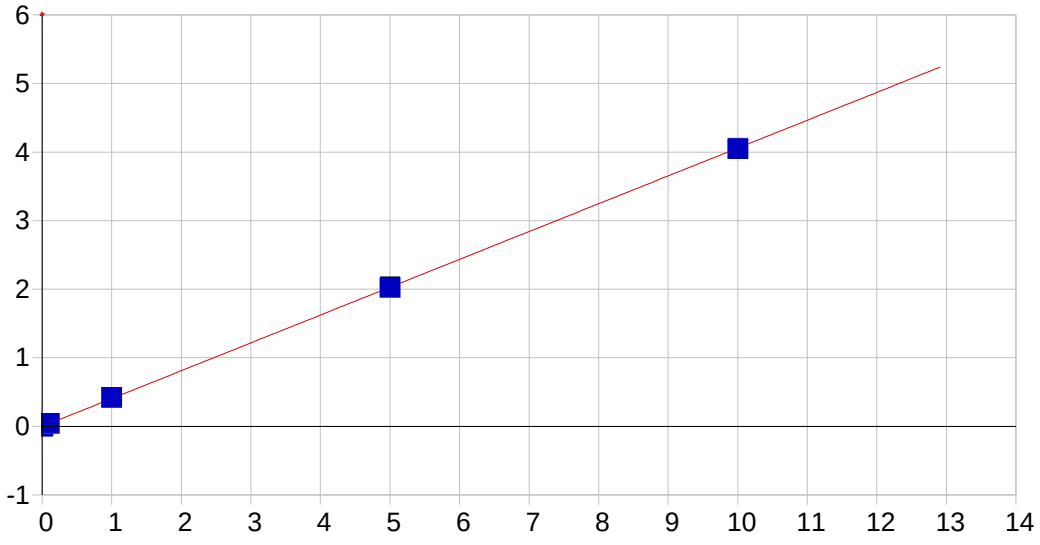


Cd 214.438 {457}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000174	Re-Slope:	1.000000
A1 (Gain):	1.029404	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999915	Status:	OK.
Std Error of Est:	0.000096		
Predicted MDL:	0.000094		
Predicted MQL:	0.000312		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00000	-.000	.000	.00017	.000	1
CRL:148480	.00500	.00511	.000	2.24	.00544	.000	1
STD3:14768	.10000	.10315	.003	3.15	.10634	.000	1
STD4:14768	1.0000	1.0274	.027	2.74	1.0577	.001	1
STD5:14768	5.0000	4.9693	-.031	-.614	5.1148	.010	1

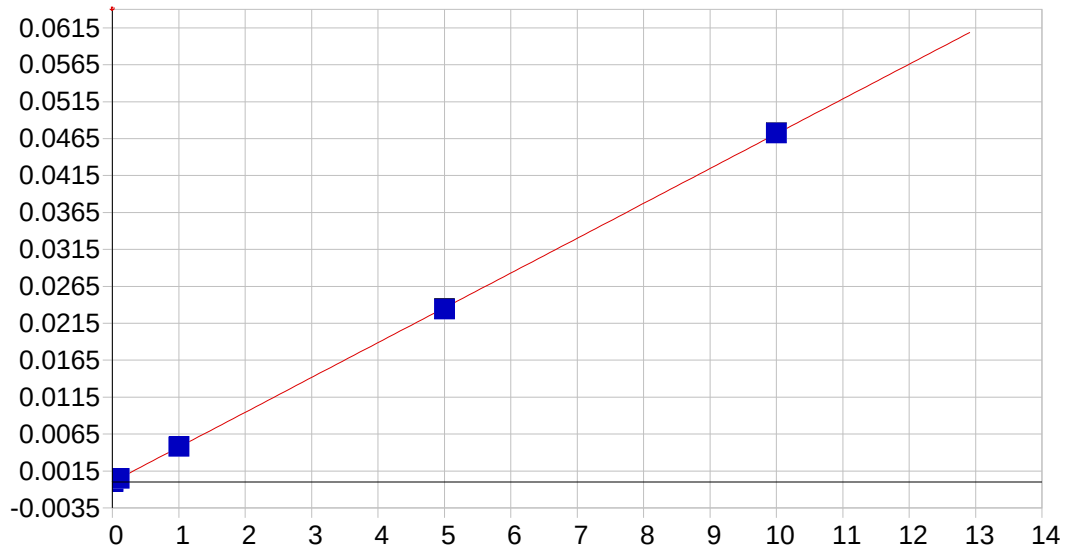


Co 228.616 {447}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000461	Re-Slope:	1.000000
A1 (Gain):	0.405868	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999966	Status:	OK.
Std Error of Est:	0.000052		
Predicted MDL:	0.000274		
Predicted MQL:	0.000915		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00000	-.000	.000	-.00046	.000	1
CRL:148480	.01000	.01027	.000	2.75	.00371	.000	1
STD3:14768	.10000	.10352	.004	3.52	.04155	.000	1
STD4:14768	1.0000	1.0295	.030	2.95	.41736	.000	1
STD5:14768	5.0000	4.9928	-.007	-.144	2.0258	.004	1
STD6:14771	10.000	9.9739	-.026	-.261	4.0473	.004	1

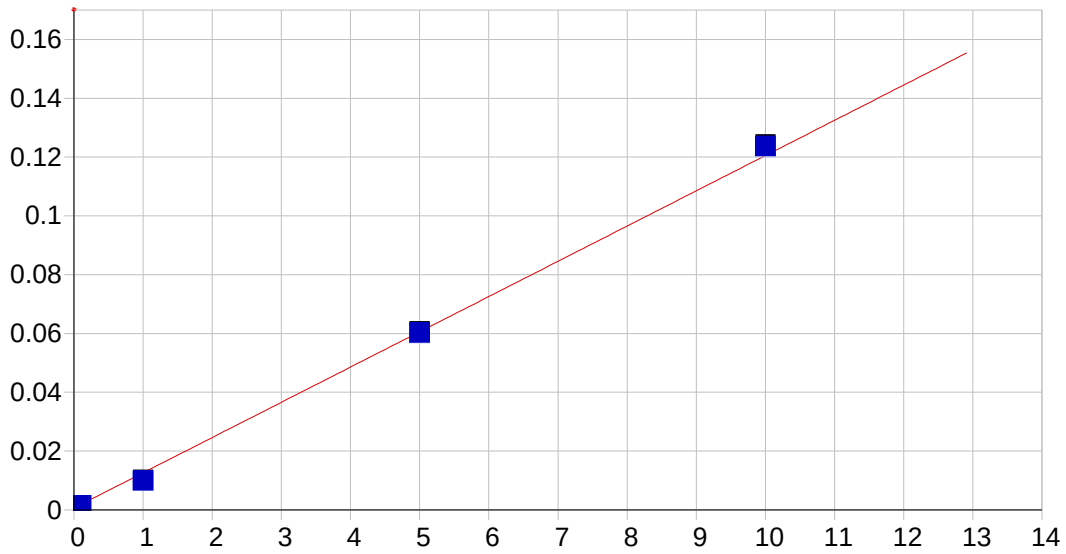


Cr 283.563 {119}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000013	Re-Slope:	1.000000
A1 (Gain):	0.004714	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999980	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.003091		
Predicted MQL:	0.010304		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CRL:148480	.01000	.00975	-.000	-2.48	.00006	.000	1
STD3:14768	.10000	.10001	.000	.006	.00048	.000	1
STD4:14768	1.0000	1.0182	.018	1.82	.00482	.000	1
STD5:14768	5.0000	4.9637	-.036	-.727	.02342	.000	1
STD6:14771	10.000	10.018	.018	.183	.04726	.000	1

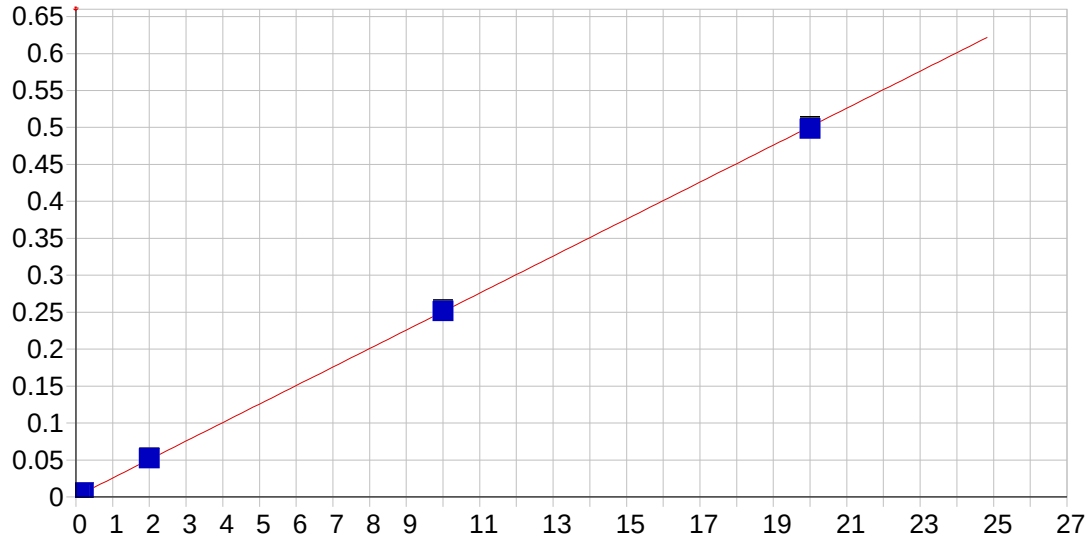


Cu 324.754 {104}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000646	Re-Slope:	1.000000
A1 (Gain):	0.011987	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998025	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.005167		
Predicted MQL:	0.017223		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00001	.000	.000	.00065	.000	1
CRL:148480	.01000	.00358	-.006	-64.2	.00068	.000	1
STD3:14768	.10000	.07811	-.022	-21.9	.00158	.000	1
STD4:14768	1.0000	.78270	-.217	-21.7	.00999	.000	1
STD5:14768	5.0000	4.9773	-.023	-.453	.06012	.000	1
STD6:14771	10.000	10.268	.268	2.68	.12334	.000	1

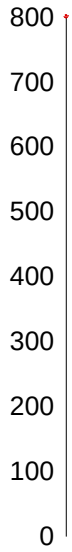


Fe 240.488 {140}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000535	Re-Slope:	1.000000
A1 (Gain):	0.025026	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999938	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.009695		
Predicted MQL:	0.032317		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00002	-.000	.000	.00053	.000	1
STD4:14768	2.0000	2.0657	.066	3.28	.05223	.000	1
STD3:14768	.20000	.20798	.008	3.99	.00574	.000	1
STD5:14768	10.000	10.026	.026	.259	.25145	.001	1
STD6:14771	20.000	19.891	-.109	-.544	.49834	.003	1
CRL:148480	.10000	.10919	.009	9.19	.00327	.000	1

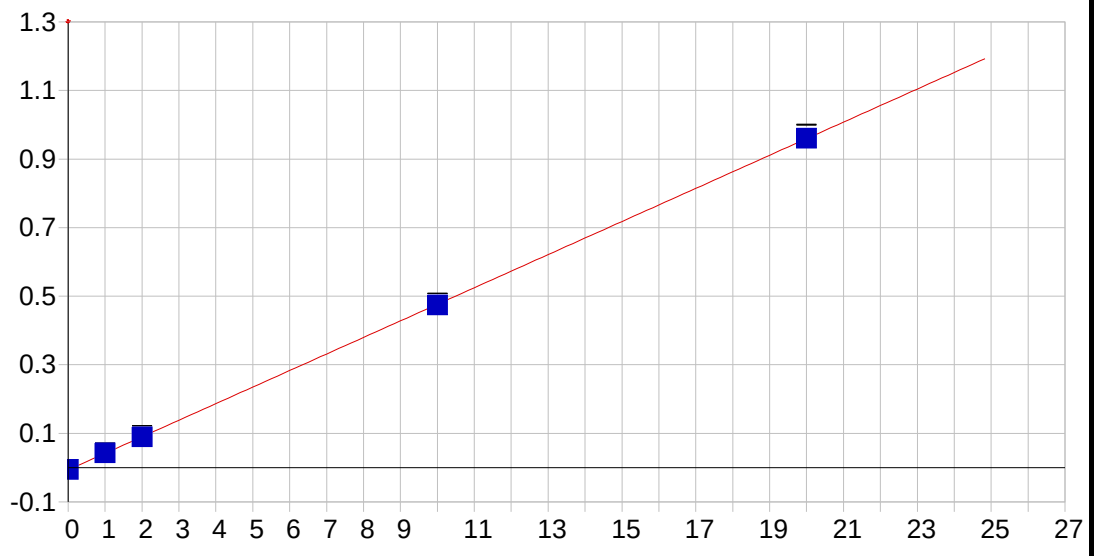


In 230.606 {446}*

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	759.27	1.59	1



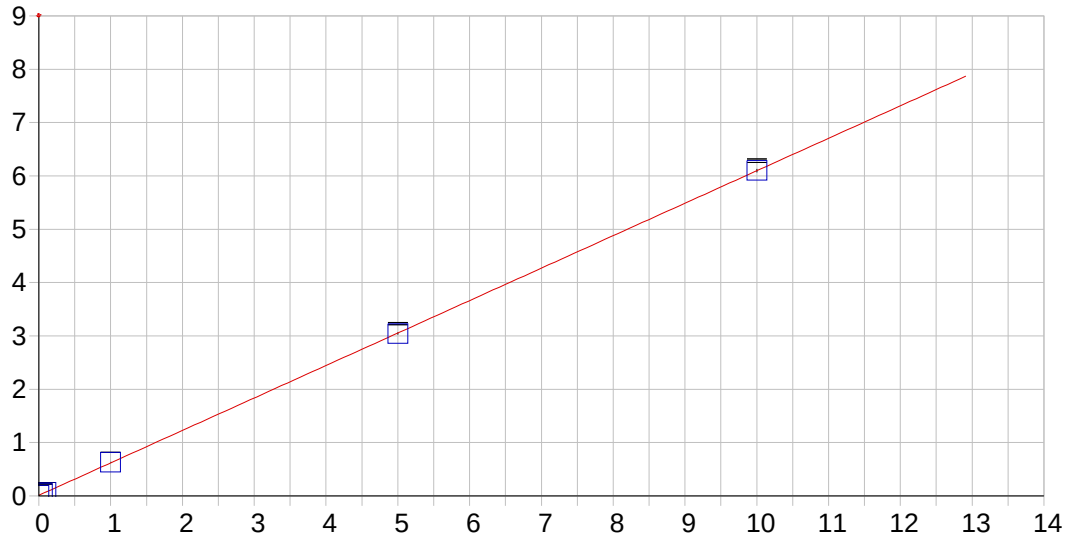
K 766.490 { 44}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.006572	Re-Slope:	1.000000

A1 (Gain):	0.048300	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.001579		
Predicted MDL:	0.056334		
Predicted MQL:	0.187780		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01975	.020	.000	-.00562	.000	1
CRL:148480	1.0000	1.0134	.013	1.34	.04238	.001	1
STD5:14768	10.000	9.9554	-.045	-.446	.47492	.004	1
STD6:14771	20.000	20.023	.023	.114	.96182	.010	1
STD4:14768	2.0000	1.9886	-.011	-.568	.08961	.003	1

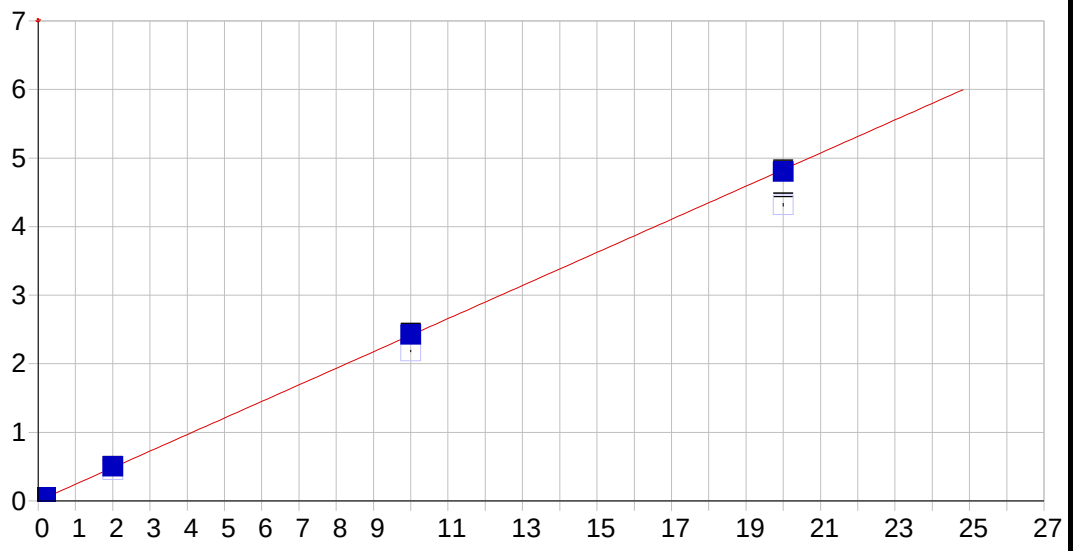


Li 670.784 { 50}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010383	Re-Slope:	1.000000
A1 (Gain):	0.608649	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000112		
Predicted MDL:	0.004145		
Predicted MQL:	0.013817		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01038	.001	1
CRL:148480	.05000	.04798	-.002	-4.05	.03958	.002	1
STD3:14768	.10000	.09704	-.003	-2.96	.06945	.001	1
STD4:14768	1.0000	1.0150	.015	1.50	.62815	.000	1
STD5:14768	5.0000	4.9837	-.016	-.325	3.0437	.022	1
STD6:14771	10.000	10.006	.006	.063	6.1007	.033	1

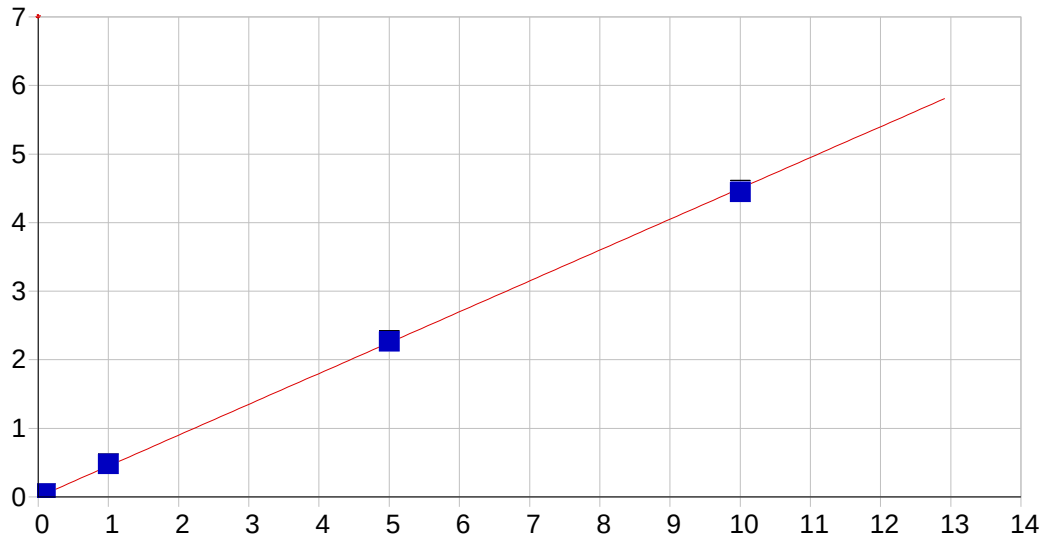


Mg 285.213 {118}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001361	Re-Slope:	1.000000
A1 (Gain):	0.241499	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999923	Status:	OK.
Std Error of Est:	0.000084		
Predicted MDL:	0.001697		
Predicted MQL:	0.005658		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00000	-.000	.000	.00136	.000	1
CRL:148480	.02000	.02219	.002	10.9	.00551	.000	1
STD3:14768	.20000	.20396	.004	1.98	.04578	.000	1
STD4:14768	2.0000	2.0742	.074	3.71	.45396	.003	1
STD5:14768	10.000	10.044	.044	.438	2.1853	.016	1
STD6:14771	20.000	19.876	-.124	-.619	4.3182	.026	1

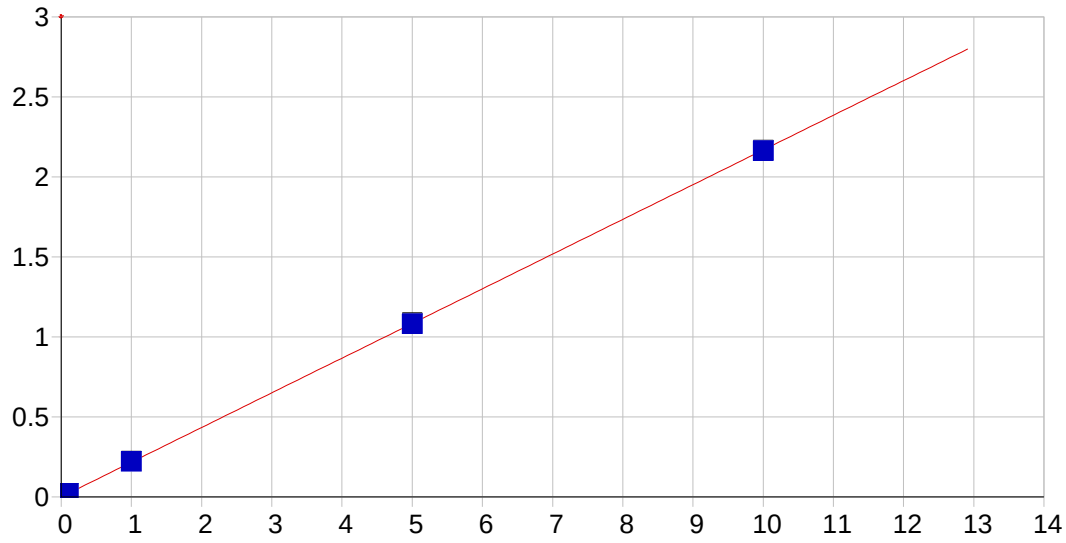


Mn 257.610 {131}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000227	Re-Slope:	1.000000
A1 (Gain):	0.449884	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999803	Status:	OK.
Std Error of Est:	0.000088		
Predicted MDL:	0.000067		
Predicted MQL:	0.000223		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00000	-.000	.000	.00023	.000	1
CRL:148480	.00400	.00461	.001	15.4	.00230	.000	1
STD3:14768	.10000	.10778	.008	7.78	.04871	.000	1
STD4:14768	1.0000	1.0639	.064	6.39	.47886	.000	1
STD5:14768	5.0000	5.0396	.040	.792	2.2675	.015	1
STD6:14771	10.000	9.8881	-.112	-1.12	4.4488	.021	1

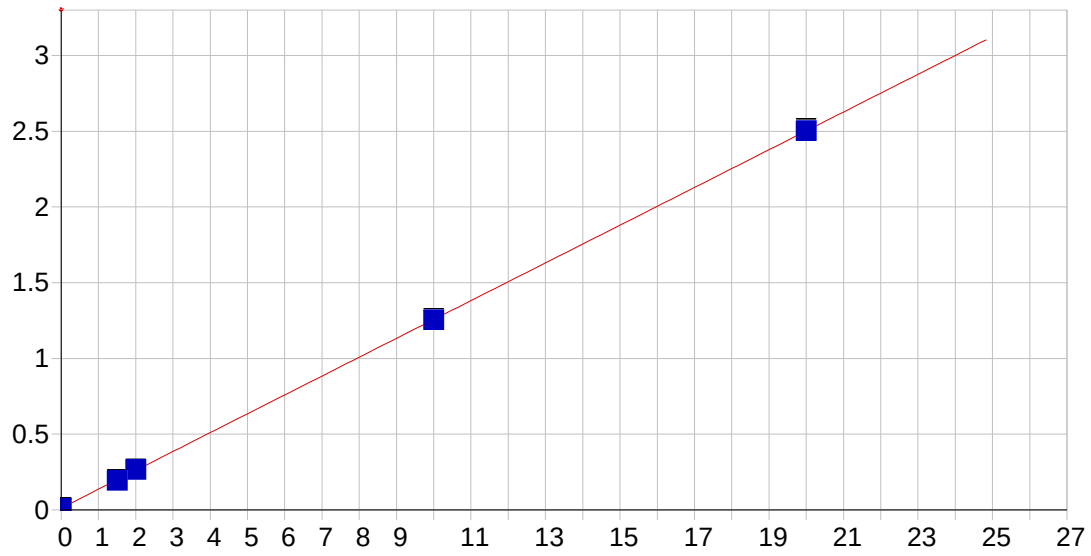


Mo 202.030 {467}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000038	Re-Slope:	1.000000
A1 (Gain):	0.216807	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	0.000293		
Predicted MQL:	0.000977		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00000	-.000	.000	.00004	.000	1
CRL:148480	.01000	.01002	.000	.245	.00221	.000	1
STD3:14768	.10000	.10269	.003	2.69	.02230	.000	1
STD4:14768	1.0000	1.0238	.024	2.38	.22201	.001	1
STD5:14768	5.0000	4.9931	-.007	-.137	1.0826	.002	1
STD6:14771	10.000	9.9804	-.020	-.196	2.1640	.002	1

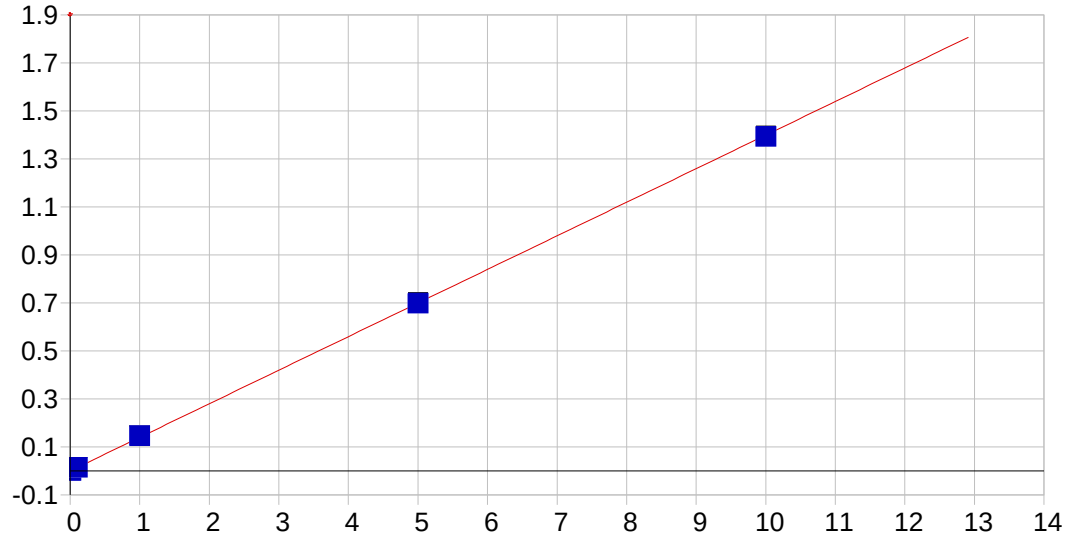


Na 589.592 { 57}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.012180	Re-Slope:	1.000000
A1 (Gain):	0.124511	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.003375		
Predicted MDL:	0.018461		
Predicted MQL:	0.061538		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00630	.006	.000	.01296	.002	1
STD4:14768	2.0000	2.0319	.032	1.59	.26535	.003	1
STD5:14768	10.000	9.9855	-.014	-.145	1.2564	.006	1
STD6:14771	20.000	20.006	.006	.032	2.5050	.013	1
CRL:148480	1.5000	1.4700	-.030	-2.00	.19521	.004	1

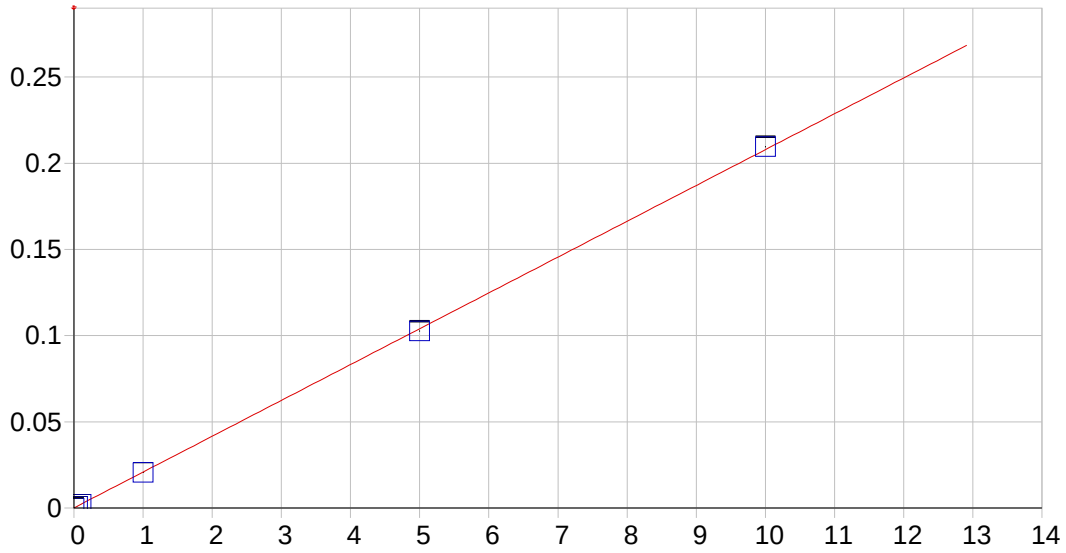


Ni 231.604 {446}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.139919	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999919	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.000608		
Predicted MQL:	0.002026		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00000	-.000	.000	.00000	.000	1
CRL:148480	.01000	.01007	.000	.718	.00141	.000	1
STD3:14768	.10000	.10454	.005	4.54	.01463	.000	1
STD4:14768	1.0000	1.0469	.047	4.69	.14645	.000	1
STD5:14768	5.0000	4.9929	-.007	-.143	.69848	.002	1
STD6:14771	10.000	9.9556	-.044	-.444	1.3927	.001	1



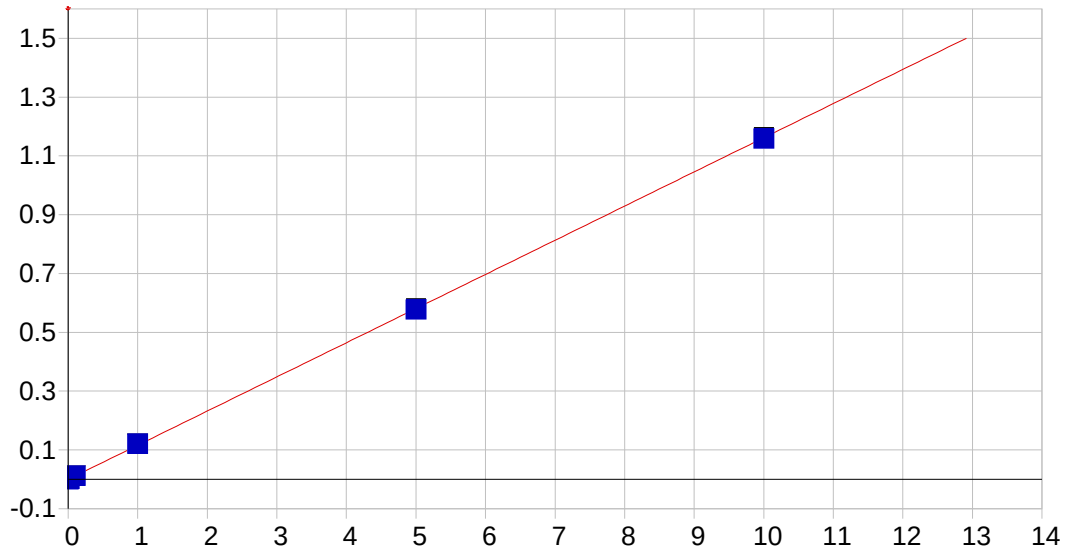
P 178.284 {489}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000086	Re-Slope:	1.000000
A1 (Gain):	0.020783	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999941	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.002037		
Predicted MQL:	0.006789		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00009	.000	1
CRL:148480	.05000	.04709	-.003	-5.82	.00107	.000	1
STD3:14768	.10000	.09891	-.001	-1.09	.00214	.000	1
STD4:14768	1.0000	.98832	-.012	-1.17	.02063	.000	1
STD5:14768	5.0000	4.9331	-.067	-1.34	.10261	.000	1

STD6:14771	10.000	10.083	.083	.826	.20963	.000	1

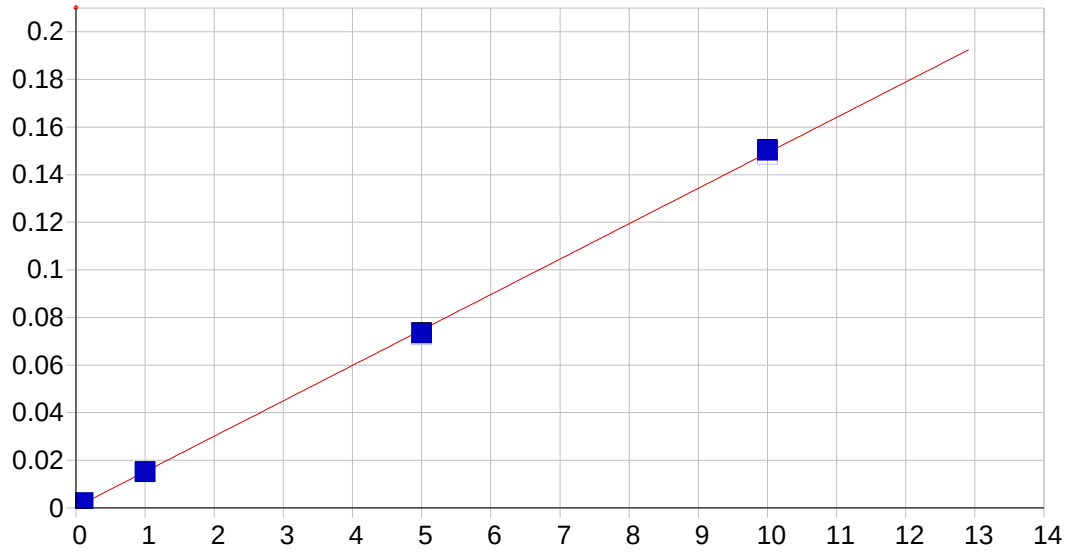


Pb 220.353 {453}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000076	Re-Slope:	1.000000
A1 (Gain):	0.116186	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999939	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.001207		
Predicted MQL:	0.004023		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00000	-.000	.000	-.00008	.000	1
CRL:148480	.01500	.01566	.001	4.37	.00174	.000	1
STD3:14768	.10000	.10500	.005	5.00	.01212	.000	1
STD4:14768	1.0000	1.0390	.039	3.90	.12063	.000	1
STD5:14768	5.0000	4.9735	-.027	-.531	.57767	.001	1
STD6:14771	10.000	9.9818	-.018	-.182	1.1595	.002	1

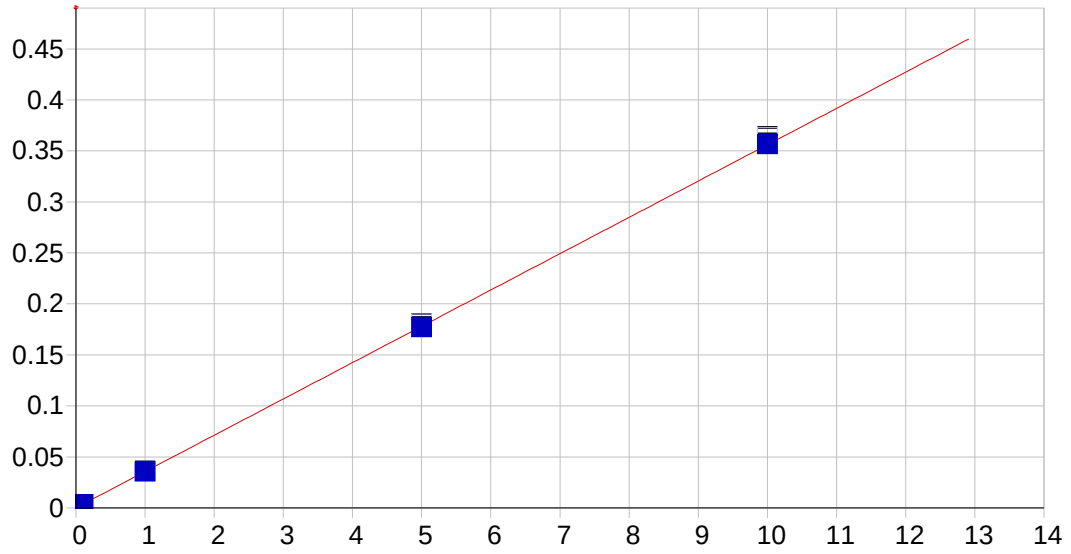


S 182.034 {485}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000364	Re-Slope:	1.000000
A1 (Gain):	0.014880	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999744	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.003161		
Predicted MQL:	0.010538		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00002	-.000	.000	.00036	.000	1
STD4:14768	1.0000	.99619	-.004	-.381	.01501	.000	1
STD5:14768	5.0000	4.9105	-.090	-1.79	.07254	.000	1
STD6:14771	10.000	10.069	.069	.689	.14840	.000	1
STD3:14768	.10000	.12438	.024	24.4	.00220	.000	1

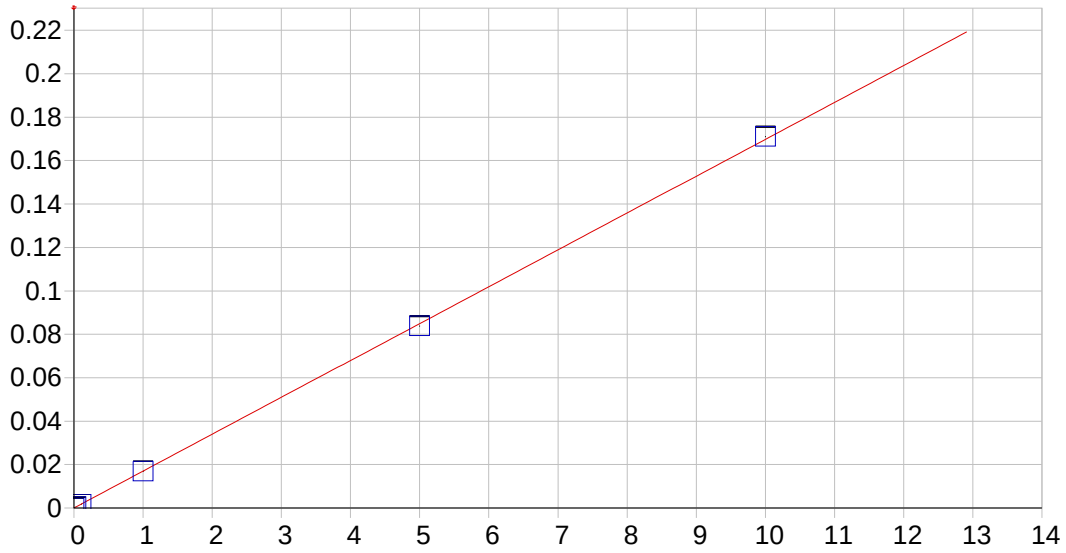


Sb 206.833 {463}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000082	Re-Slope:	1.000000
A1 (Gain):	0.035592	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.001646		
Predicted MQL:	0.005488		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00008	.000	1
CRL:148480	.01200	.01140	-.001	-5.01	.00049	.000	1
STD3:14768	.10000	.09967	-.000	-.334	.00369	.000	1
STD4:14768	1.0000	1.0010	.001	.100	.03633	.000	1
STD5:14768	5.0000	4.9785	-.022	-.431	.18039	.000	1
STD6:14771	10.000	10.021	.021	.215	.36299	.001	1



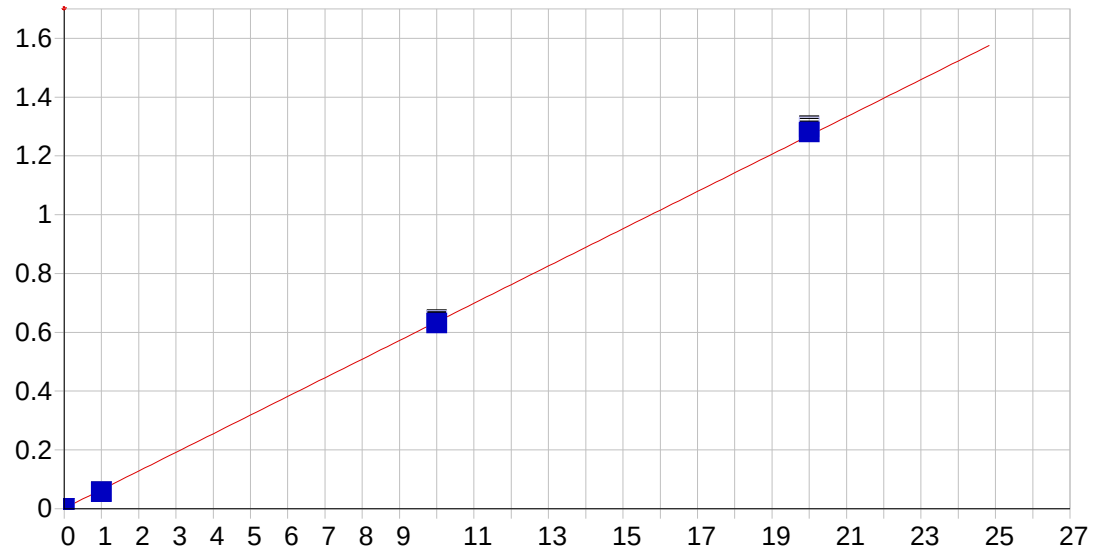
Se 196.090 {472}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000046	Re-Slope:	1.000000
A1 (Gain):	0.016975	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.003316		
Predicted MQL:	0.011053		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00005	.000	1
CRL:148480	.03000	.02837	-.002	-5.43	.00053	.000	1
STD3:14768	.10000	.09925	-.001	-.750	.00173	.000	1
STD4:14768	1.0000	.99521	-.005	-.479	.01694	.000	1
STD5:14768	5.0000	4.9334	-.067	-1.33	.08379	.000	1

STD6:14771	10.000	10.074	.074	.738	.17105	.000	1

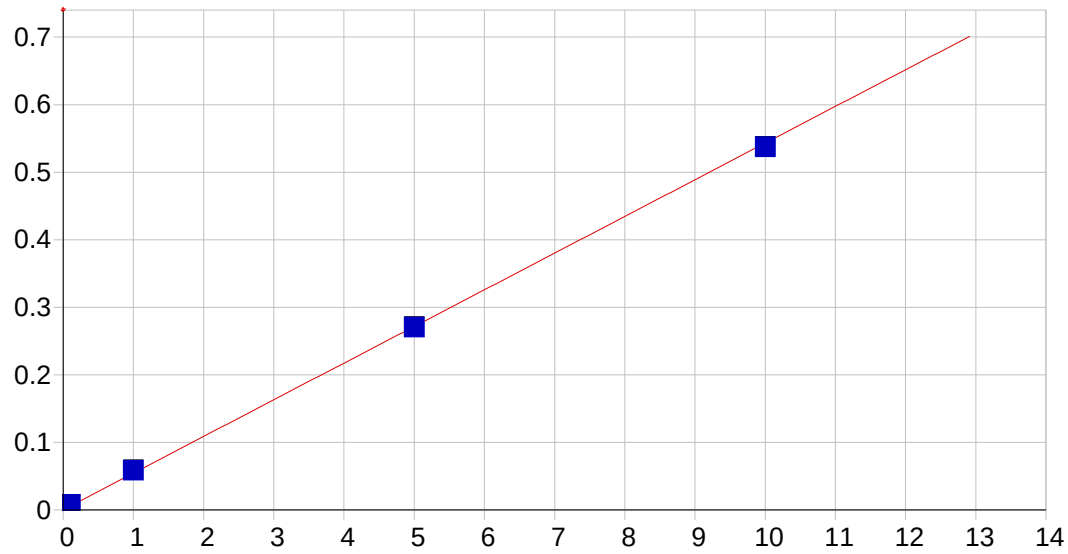


Si 212.412 {459}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001675	Re-Slope:	1.000000
A1 (Gain):	0.063384	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999742	Status:	OK.
Std Error of Est:	0.000363		
Predicted MDL:	0.001210		
Predicted MQL:	0.004033		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00012	.000	.000	.00168	.000	1
CRL:148480	1.0000	.88038	-.120	-12.0	.05749	.000	1
STD5:14768	10.000	9.9356	-.064	-.644	.63996	.002	1
STD6:14771	20.000	20.182	.182	.912	1.2980	.003	1

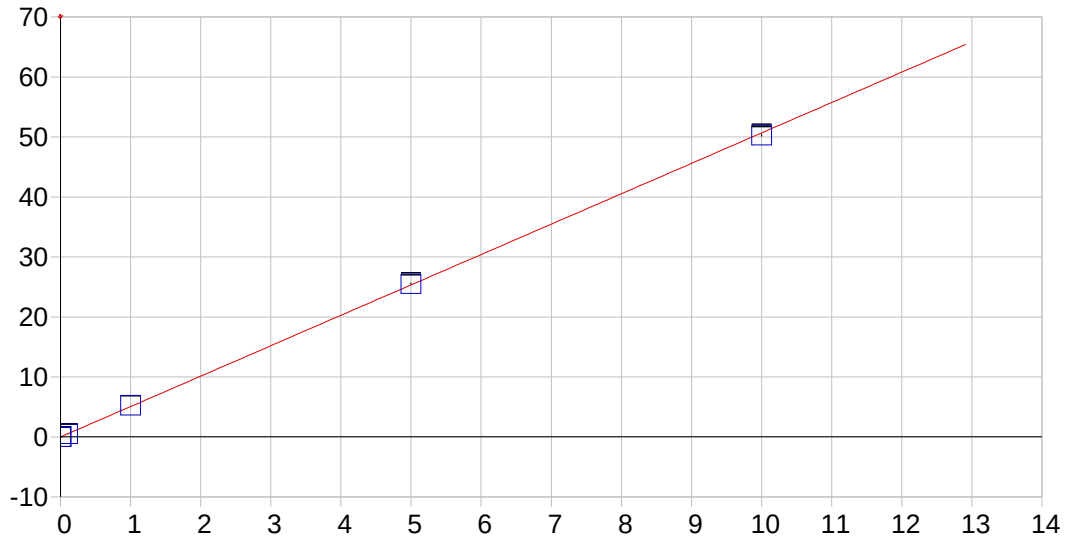


Sn 189.989 {477}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000151	Re-Slope:	1.000000
A1 (Gain):	0.054290	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999211	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.000941		
Predicted MQL:	0.003137		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00001	-.000	.000	.00015	.000	1
CRL:148480	.01000	.01326	.003	32.6	.00087	.000	1
STD3:14768	.10000	.14192	.042	41.9	.00785	.000	1
STD4:14768	1.0000	1.0751	.075	7.51	.05846	.000	1
STD5:14768	5.0000	4.9824	-.018	-.353	.27033	.001	1
STD6:14771	10.000	9.8973	-.103	-1.03	.53684	.000	1

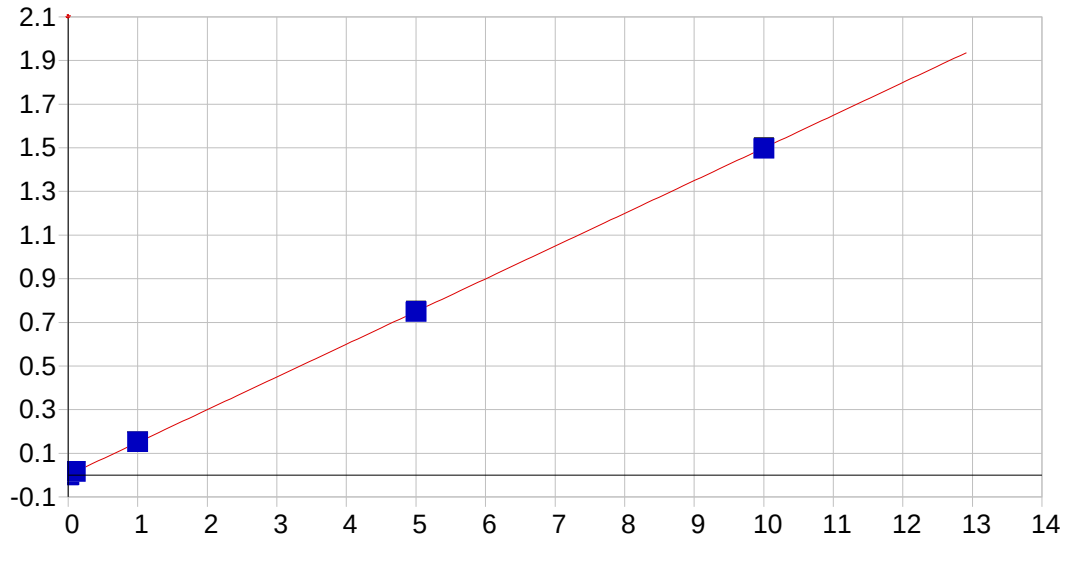


Sr 407.771 { 83}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001024	Re-Slope:	1.000000
A1 (Gain):	5.065861	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999933	Status:	OK.
Std Error of Est:	0.000911		
Predicted MDL:	0.000154		
Predicted MQL:	0.000514		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00000	-.000	.000	-.00103	.000	1
CRL:148480	.01000	.01022	.000	2.25	.05077	.001	1
STD3:14768	.10000	.10444	.004	4.44	.52803	.003	1
STD4:14768	1.0000	1.0322	.032	3.22	5.2281	.036	1
STD5:14768	5.0000	5.0402	.040	.804	25.532	.181	1
STD6:14771	10.000	9.9229	-.077	-.771	50.267	.204	1

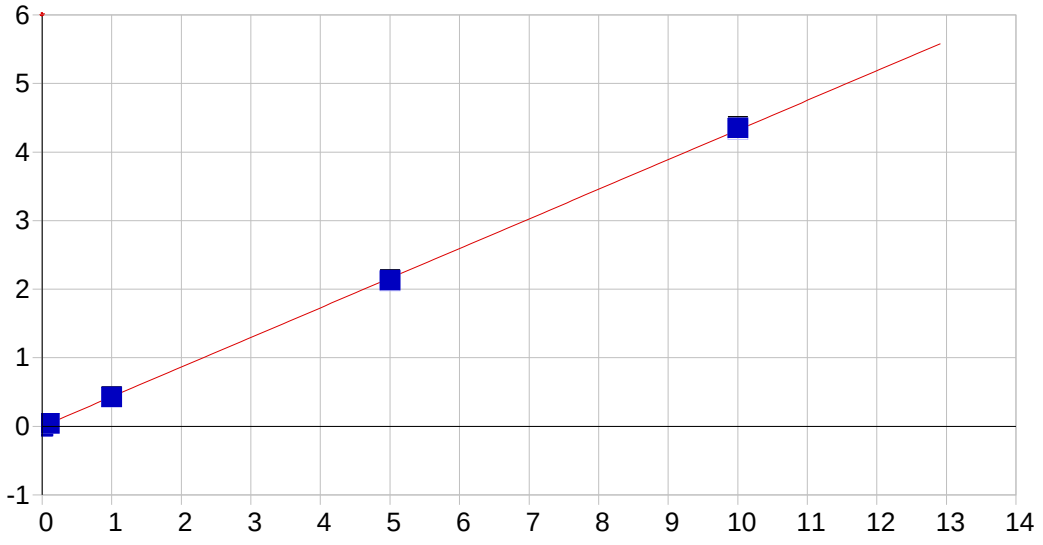


Ti 334.904 {101}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000037	Re-Slope:	1.000000
A1 (Gain):	0.149927	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	0.000383		
Predicted MQL:	0.001278		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00000	-.000	.000	.00004	.000	1
CRL:148480	.01000	.00986	-.000	-1.45	.00152	.000	1
STD3:14768	.10000	.10325	.003	3.25	.01552	.000	1
STD4:14768	1.0000	1.0130	.013	1.30	.15198	.000	1
STD5:14768	5.0000	4.9966	-.003	-.068	.74947	.002	1
STD6:14771	10.000	9.9873	-.013	-.127	1.4980	.001	1

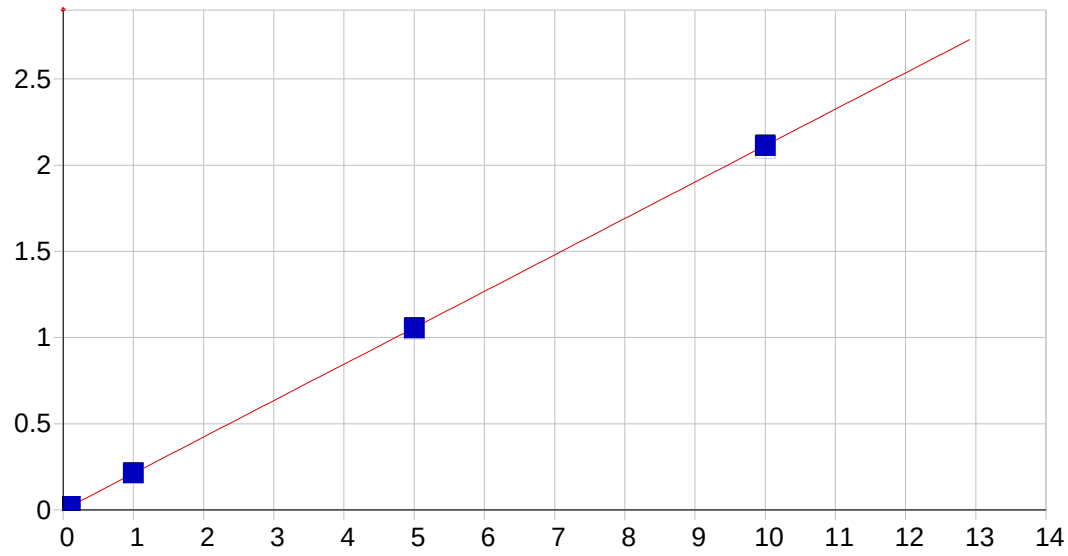


Tl 190.856 {477}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.432134	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999951	Status:	OK.
Std Error of Est:	0.000066		
Predicted MDL:	0.001166		
Predicted MQL:	0.003885		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00000	.001	1
CRL:148480	.01000	.00972	-.000	-2.80	.00417	.000	1
STD3:14768	.10000	.09880	-.001	-1.20	.04241	.001	1
STD4:14768	1.0000	.98827	-.012	-1.17	.42416	.001	1
STD5:14768	5.0000	4.9367	-.063	-1.27	2.1188	.004	1
STD6:14771	10.000	10.077	.077	.765	4.3254	.016	1

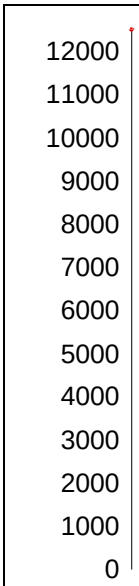


V 292.402 {115}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000073	Re-Slope:	1.000000
A1 (Gain):	0.211331	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.000273		
Predicted MQL:	0.000910		

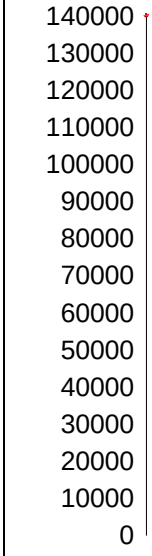
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00007	.000	1
CRL:148480	.01000	.00951	-.000	-4.92	.00207	.000	1
STD3:14768	.10000	.10217	.002	2.17	.02150	.000	1
STD4:14768	1.0000	1.0106	.011	1.06	.21204	.000	1
STD5:14768	5.0000	4.9903	-.010	-.193	1.0467	.003	1
STD6:14771	10.000	9.9974	-.003	-.026	2.0969	.003	1



Y 224.306 {450}*

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	11640.	18.5	1

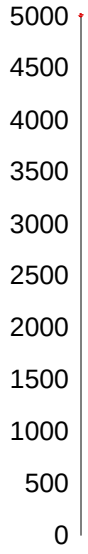


Y 360.073 { 94}*

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	

A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	125630.	245.	1

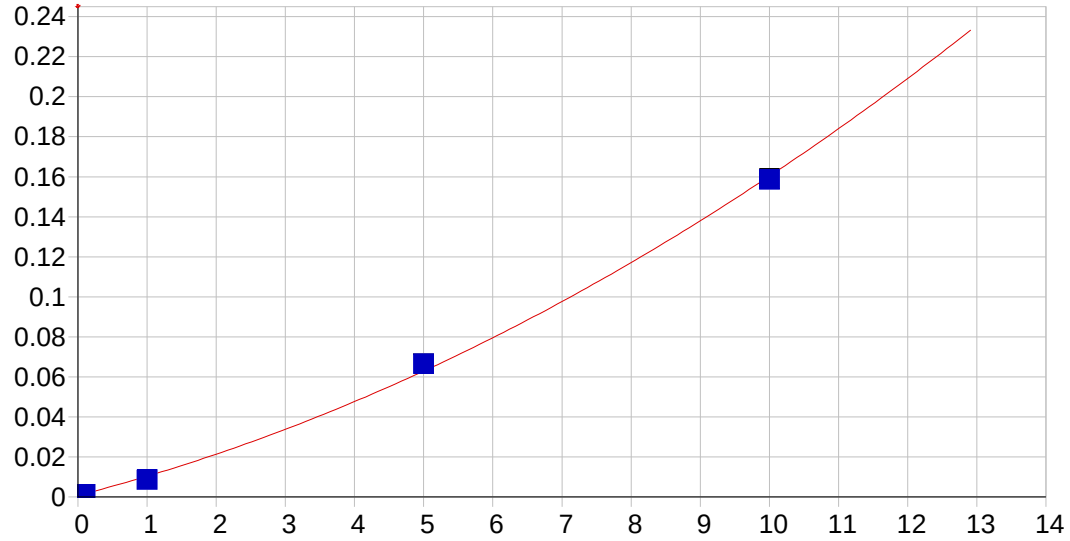


Y 371.030 { 91}*

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	4688.3	10.7	1



Zn 213.856 {457}

Date of Fit:	8/13/2025 17:57:00	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.000745	Re-Slope:	1.000000
A1 (Gain):	0.008898	Y-int:	0.000000
A2 (Curvature):	0.000706		
n (Exponent):	1.000000		
Correlation:	0.999053	Status:	Warning Positive Curvature
Std Error of Est:	0.000011		
Predicted MDL:	0.009874		
Predicted MQL:	0.032914		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00074	.000	1
CRL:148480	.01000	.01122	.001	12.2	.00084	.000	1
STD3:14768	.10000	.07759	-.022	-22.4	.00144	.000	1
STD4:14768	1.0000	.82420	-.176	-17.6	.00856	.000	1
STD5:14768	5.0000	5.2235	.224	4.47	.06648	.000	1
STD6:14771	10.000	9.9295	-.071	-.705	.15867	.000	1

Sample Name: Blank Acquired: 8/13/2025 10:51:43 Type: Cal
Method: 20240718_NewIntStd(v103) Mode: IR Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ba4554	Be3130	Ca3158	Cd2144	Co2286	Cr2835	Fe2404	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0120	-.00083	.0016	.00017	-.0005	.0000	.0005	-.0056
Stddev	.0008	.00006	.0004	.00008	.0001	.0000	.0001	.0001
%RSD	6.676	7.7703	24.56	45.134	15.26	181.7	16.88	1.119
#1	.0129	-.00090	.0014	.00026	-.0005	.0000	.0004	-.0056
#2	.0114	-.00078	.0021	.00013	-.0004	-.0000	.0005	-.0056
#3	.0118	-.00081	.0014	.00013	-.0005	.0000	.0005	-.0057

Elem	Mg2852	Mn2576	Mo2020	Na5895	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0014	.0002	.0000	.0130	.0000
Stddev	.0004	.0000	.0000	.0019	.0000
%RSD	26.88	11.31	22.59	14.94	637.2
#1	.0010	.0002	.0000	.0151	-.0000
#2	.0014	.0002	.0000	.0125	-.0000
#3	.0017	.0002	.0000	.0113	.0000

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	759.27	11640.	125630.	4688.3
Stddev	1.59	18.	245.	10.7
%RSD	.20970	.15883	.19526	.22736
#1	761.02	11657.	125730.	4698.2
#2	757.90	11641.	125820.	4689.8
#3	758.89	11621.	125360.	4677.0

Sample Name: CRL:148480 Acquired: 8/13/2025 10:57:42 Type: Cal
Method: 20240718_NewIntStd(v103) Mode: IR Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ba4554	Be3130	Ca3158	Cd2144	Co2286	Cr2835	Fe2404	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0425**	**.01665**	**.0095**	**.00544**	**.0037**	**.0001**	**.0030**	**.0424**
Stddev	.0024	.00003	.0004	.00000	.0001	.0000	.0001	.0005
%RSD	5.669	.15811	4.315	.08797	1.649	15.53	2.375	1.194
#1	.0449	.01663	.0097	.00543	.0037	.0001	.0031	.0422
#2	.0425	.01666	.0098	.00544	.0038	.0001	.0030	.0420
#3	.0401	.01668	.0090	.00544	.0036	.0001	.0030	.0430

Elem	Mg2852	Mn2576	Mo2020	Na5895	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0055**	**.0023**	**.0022**	**.1952**	**.0014**
Stddev	.0003	.0000	.0000	.0039	.0002
%RSD	5.658	.5565	1.018	1.984	10.89
#1	.0056	.0023	.0022	.1968	.0014
#2	.0052	.0023	.0022	.1981	.0016
#3	.0057	.0023	.0022	.1908	.0013

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**760.59**	**11590.**	**124740.**	**4682.0**
Stddev	3.99	13.	32.	47.0
%RSD	.52452	.10977	.02556	1.0037
#1	758.32	11602.	124720.	4643.7
#2	765.19	11577.	124780.	4667.7
#3	758.25	11591.	124720.	4734.4

Sample Name: STD3:147687 Acquired: 8/13/2025 11:03:40 Type: Cal
Method: 20240718_NewIntStd(v103) Mode: IR Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ba4554	Be3130	Cd2144	Co2286	Cr2835	Fe2404	Mg2852	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3212	.44376	.10634	.0415	.0005	.0054	.0458	.0487
Stddev	.0010	.00026	.00018	.0001	.0000	.0002	.0004	.0001
%RSD	.3181	.05780	.16584	.2768	4.410	3.178	.8659	.2991
#1	.3200	.44367	.10648	.0417	.0005	.0054	.0459	.0488
#2	.3214	.44405	.10614	.0415	.0005	.0052	.0461	.0488
#3	.3220	.44356	.10639	.0415	.0005	.0055	.0453	.0486

Elem	Mo2020	Ni2316
Units	Cts/S	Cts/S
Avg	.0223	.0146
Stddev	.0001	.0001
%RSD	.5087	.7021
#1	.0222	.0145
#2	.0223	.0147
#3	.0224	.0147

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	741.76	11402.	122890.	4607.4
Stddev	2.53	11.	166.	34.3
%RSD	.34174	.09563	.13486	.74491
#1	738.84	11390.	123080.	4623.7
#2	742.99	11406.	122790.	4630.5
#3	743.44	11410.	122810.	4567.9

Sample Name: STD4:147688 Acquired: 8/13/2025 11:09:36 Type: Cal
Method: 20240718_NewIntStd(v103) Mode: IR Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ba4554	Be3130	Ca3158	Cd2144	Co2286	Cr2835	Fe2404	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.021**	**4.4709**	**.0835**	**1.0577**	**.4174**	**.0048**	**.0492**	**.0896**
Stddev	.022	.0179	.0000	.0011	.0003	.0000	.0001	.0034
%RSD	.7455	.39993	.0494	.10344	.0635	.4477	.2079	3.765
#1	3.018	4.4548	.0835	1.0586	.4176	.0048	.0493	.0913
#2	3.045	4.4677	.0836	1.0565	.4173	.0048	.0493	.0918
#3	3.000	4.4901	.0836	1.0580	.4171	.0048	.0491	.0857

Elem	Mg2852	Mn2576	Mo2020	Na5895	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.4540**	**.4789**	**.2220**	**.2654**	**.1465**
Stddev	.0026	.0002	.0006	.0028	.0002
%RSD	.5777	.0340	.2920	1.066	.1412
#1	.4533	.4789	.2214	.2683	.1463
#2	.4568	.4790	.2219	.2651	.1467
#3	.4517	.4787	.2227	.2627	.1464

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**738.89**	**11523.**	**124730.**	**4728.5**
Stddev	1.54	23.	400.	28.4
%RSD	.20842	.19534	.32028	.60036
#1	738.39	11509.	125120.	4758.3
#2	740.62	11549.	124750.	4701.8
#3	737.67	11510.	124320.	4725.3

Sample Name: STD5:147689 Acquired: 8/13/2025 11:15:31 Type: Cal
Method: 20240718_NewIntStd(v103) Mode: IR Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ba4554	Be3130	Ca3158	Cd2144	Co2286	Cr2835	Fe2404	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**15.11**	**21.061**	**.3998**	**5.1148**	**2.026**	**.0234**	**.2373**	**.4749**
Stddev	.11	.043	.0026	.0103	.004	.0000	.0012	.0044
%RSD	.7164	.20414	.6554	.20207	.1917	.1035	.4852	.9251
#1	15.22	21.109	.4022	5.1265	2.030	.0234	.2383	.4795
#2	15.08	21.026	.4002	5.1111	2.024	.0234	.2361	.4746
#3	15.01	21.049	.3970	5.1069	2.023	.0234	.2374	.4707

Elem	Mg2852	Mn2576	Mo2020	Na5895	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.185**	**2.267**	**1.083**	**1.256**	**.6985**
Stddev	.016	.015	.002	.006	.0022
%RSD	.7422	.6808	.2236	.4803	.3079
#1	2.204	2.274	1.085	1.263	.7008
#2	2.177	2.278	1.082	1.254	.6981
#3	2.175	2.250	1.081	1.252	.6965

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**686.95**	**11174.**	**121180.**	**4629.1**
Stddev	1.77	18.	236.	38.5
%RSD	.25837	.15848	.19506	.83191
#1	686.52	11159.	120950.	4584.7
#2	688.90	11194.	121420.	4653.9
#3	685.43	11170.	121170.	4648.7

Sample Name: STD6:147710 Acquired: 8/13/2025 11:21:25 Type: Cal
Method: 20240718_NewIntStd(v103) Mode: IR Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ba4554	Ca3158	Co2286	Cr2835	Fe2404	K_7664	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**30.12**	**.7951**	**4.047**	**.0473**	**.4702**	**.9618**	**4.318**	**4.449**	**2.164**
Stddev	.18	.0024	.004	.0001	.0025	.0105	.026	.021	.002
%RSD	.6019	.3056	.1031	.1670	.5285	1.087	.6053	.4830	.0921
#1	30.27	.7948	4.052	.0473	.4715	.9707	4.338	4.436	2.166
#2	30.17	.7977	4.045	.0472	.4717	.9645	4.328	4.437	2.165
#3	29.92	.7929	4.045	.0473	.4673	.9503	4.289	4.474	2.162

Elem	Na5895	Ni2316
Units	Cts/S	Cts/S
Avg	**2.505**	**1.393**
Stddev	.013	.001
%RSD	.5052	.0745
#1	2.506	1.393
#2	2.517	1.393
#3	2.492	1.392

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**648.81**	**10881.**	**118790.**	**4593.5**
Stddev	1.65	15.	164.	23.2
%RSD	.25430	.13765	.13813	.50420
#1	647.57	10891.	118910.	4578.5
#2	650.68	10889.	118870.	4581.9
#3	648.19	10864.	118600.	4620.2

Sample Name: ICV 111376 Acquired: 8/13/2025 11:27:38 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ba4554	Be3130	Ca3158	Cd2144	Co2286	Cr2835	Fe2404	K_7664	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.948**	**5.0689**	**5.026**	**4.9471**	**4.892**	**4.947**	**5.173**	**48.67**	**5.059**
Stddev	.014	.0625	.030	.1583	.158	.021	.054	.17	.011
%RSD	.2748	1.2331	.6016	3.1992	3.231	.4211	1.047	.3448	.2240
#1	4.952	5.1404	5.050	4.7644	4.710	4.971	5.235	48.79	5.071
#2	4.933	5.0248	5.035	5.0426	4.984	4.938	5.148	48.48	5.057
#3	4.959	5.0414	4.992	5.0342	4.983	4.932	5.135	48.74	5.049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm
Avg	**5.109**	**5.032**	**5.093**	**4.875**
Stddev	.066	.164	.015	.147
%RSD	1.296	3.255	.2963	3.015
#1	5.185	4.842	5.102	4.706
#2	5.072	5.126	5.075	4.961
#3	5.069	5.127	5.101	4.959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**694.36**	**11303.**	**119780.**	**4594.0**
Stddev	18.05	297.	957.	29.2
%RSD	2.5999	2.6259	.79867	.63605
#1	715.10	11645.	118680.	4563.4
#2	682.17	11109.	120260.	4596.9
#3	685.81	11156.	120410.	4621.7

Sample Name: ICV Ag Acquired: 8/13/2025 11:33:32 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ba4554	Be3130	Ca3158	Cd2144	Co2286	Cr2835	Fe2404	K_7664	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099	.00772	.0225	.00799	.0063	.0125	.0410	.8424	.0199
Stddev	.0028	.00106	.1154	.00290	.0037	.0063	.0542	.6413	.0054
%RSD	28.01	13.690	513.5	36.255	59.03	50.03	132.1	76.13	27.13
#1	.0093	.00873	.1320	.01090	.0106	.0164	-.0024	1.572	.0155
#2	.0075	.00778	.0334	.00798	.0035	.0053	.1018	.3696	.0183
#3	.0129	.00663	-.0980	.00510	.0049	.0159	.0238	.5853	.0259
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Elem	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm
Avg	.0109	.0420	.1628	.0028
Stddev	.0006	.0136	.0217	.0038
%RSD	5.374	32.35	13.34	136.3
#1	.0114	.0557	.1844	-.0003
#2	.0109	.0418	.1629	.0070
#3	.0103	.0285	.1410	.0016
Check ?	None	None	None	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	755.00	11491.	123440.	4668.3
Stddev	2.54	67.	598.	50.0
%RSD	.33576	.58375	.48410	1.0705
#1	757.25	11414.	122770.	4682.2
#2	755.51	11520.	123650.	4710.0
#3	752.25	11539.	123910.	4612.9

Sample Name: ICB Acquired: 8/13/2025 11:39:33 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ba4554	Be3130	Ca3158	Cd2144	Co2286	Cr2835	Fe2404	K_7664	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.00013	-.0076	.00015	-.0002	-.0014	-.0002	.0591	-.0001
Stddev	.0001	.00004	.0107	.00012	.0003	.0010	.0054	.0412	.0022
%RSD	200.1	32.220	141.4	81.457	190.6	73.77	2459.	69.67	2108.
#1	.0001	.00012	-.0199	.00028	.0002	-.0023	.0047	.0140	-.0023
#2	-.0001	.00017	.0002	.00010	-.0002	-.0016	.0006	.0947	-.0001
#3	-.0001	.00009	-.0032	.00006	-.0005	-.0003	-.0059	.0686	.0021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm
Avg	.0001	.0011	-.0009	-.0002
Stddev	.0001	.0005	.0037	.0007
%RSD	148.6	43.39	396.4	355.9
#1	.0000	.0016	.0033	-.0000
#2	.0002	.0009	-.0028	-.0009
#3	-.0000	.0007	-.0032	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	754.29	11565.	124540.	4682.4
Stddev	1.79	16.	582.	48.1
%RSD	.23744	.13822	.46738	1.0268
#1	753.67	11559.	124810.	4655.0
#2	756.31	11584.	123870.	4737.9
#3	752.90	11554.	124940.	4654.2

Sample Name: CRI 148480 Acquired: 8/13/2025 11:45:33 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ba4554	Be3130	Ca3158	Cd2144	Co2286	Cr2835	Fe2404	K_7664	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0098**	**.00417**	**.1931**	**.00521**	**.0099**	**.0114**	**.0934**	**1.009**	**.0228**
Stddev	.0004	.00005	.0073	.00011	.0001	.0018	.0087	.025	.0023
%RSD	4.027	1.3077	3.792	2.1570	.7492	15.48	9.353	2.502	10.25
#1	.0098	.00421	.1850	.00522	.0100	.0133	.0860	.9910	.0234
#2	.0101	.00419	.1993	.00533	.0099	.0099	.1031	.9974	.0248
#3	.0094	.00411	.1950	.00510	.0098	.0109	.0912	1.038	.0202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm
Avg	**.0043**	**.0106**	**1.395**	**.0100**
Stddev	.0001	.0001	.053	.0009
%RSD	1.627	1.353	3.781	8.829
#1	.0043	.0104	1.335	.0100
#2	.0044	.0106	1.430	.0108
#3	.0042	.0107	1.422	.0091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**759.72**	**11528.**	**124210.**	**4771.8**
Stddev	9.20	23.	956.	110.0
%RSD	1.2107	.20348	.76979	2.3044
#1	752.00	11510.	124320.	4845.3
#2	769.90	11521.	123210.	4645.4
#3	757.26	11555.	125110.	4824.7

Sample Name: ICSA 146315 Acquired: 8/13/2025 11:51:29 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ba4554	Be3130	Ca3158	Cd2144	Co2286	Cr2835	Fe2404	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	.00084	189.3	-.00186	-.0003	.0179	75.43	.1147
Stddev	.0001	.00002	1.9	.00009	.0002	.0004	.72	.0122
%RSD	5.356	2.7426	.9896	4.7071	82.30	1.981	.9569	10.64
#1	.0013	.00084	190.9	-.00180	-.0002	.0183	76.06	.1284
#2	.0014	.00082	187.2	-.00196	-.0001	.0177	74.64	.1104
#3	.0014	.00086	189.9	-.00182	-.0005	.0177	75.59	.1051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2852	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm
Avg	181.3	.0007	-.0001	.0910	-.0035
Stddev	1.6	.0000	.0003	.0161	.0002
%RSD	.8714	5.206	399.5	17.74	5.563
#1	182.7	.0007	-.0001	.0889	-.0033
#2	179.6	.0007	.0002	.1082	-.0035
#3	181.7	.0007	-.0004	.0761	-.0037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	632.54	10500.	111970.	4458.5
Stddev	2.95	20.	79.	40.6
%RSD	.46592	.18663	.07043	.91080
#1	631.73	10490.	112060.	4451.5
#2	630.09	10488.	111960.	4502.2
#3	635.81	10523.	111900.	4421.9

Sample Name: ICSAB 146308 Acquired: 8/13/2025 11:57:34 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ba4554	Be3130	Ca3158	Cd2144	Co2286	Cr2835	Fe2404	K_7664	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2382	.25955	187.8	.47019	.2316	.2562	74.74	.0614	179.4
Stddev	.0026	.00026	2.9	.00049	.0008	.0053	1.09	.0408	2.2
%RSD	1.080	.10172	1.555	.10449	.3666	2.084	1.461	66.46	1.238
#1	.2354	.25980	184.5	.47030	.2321	.2620	73.54	.0892	176.9
#2	.2404	.25958	190.2	.46966	.2321	.2514	75.68	.0145	181.1
#3	.2390	.25927	188.6	.47062	.2306	.2554	74.99	.0804	180.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm
Avg	.2434	.0001	.1185	.4530
Stddev	.0002	.0004	.0230	.0031
%RSD	.0779	499.1	19.38	.6844
#1	.2433	-.0001	.1234	.4540
#2	.2436	-.0002	.1385	.4554
#3	.2433	.0006	.0934	.4495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	631.69	10387.	111600.	4420.5
Stddev	3.02	5.	270.	74.9
%RSD	.47818	.04466	.24166	1.6948
#1	630.44	10381.	111320.	4505.5
#2	635.14	10389.	111640.	4364.1
#3	629.50	10390.	111850.	4391.9

Sample Name: CCV 158349 Acquired: 8/13/2025 12:03:34 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ba4554	Be3130	Ca3158	Cd2144	Co2286	Cr2835	Fe2404	K_7664	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.884**	**4.9888**	**9.848**	**4.9743**	**4.961**	**4.804**	**9.803**	**9.700**	**9.808**
Stddev	.015	.0326	.027	.0024	.002	.007	.050	.088	.035
%RSD	.3094	.65258	.2737	.04860	.0378	.1496	.5055	.9082	.3614
#1	4.894	5.0195	9.877	4.9739	4.960	4.811	9.784	9.668	9.807
#2	4.867	4.9923	9.823	4.9769	4.963	4.797	9.765	9.633	9.774
#3	4.892	4.9547	9.844	4.9721	4.961	4.804	9.859	9.800	9.844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm
Avg	**4.952**	**4.899**	**9.763**	**4.880**
Stddev	.025	.004	.005	.005
%RSD	.5074	.0705	.0517	.1055
#1	4.980	4.898	9.757	4.885
#2	4.947	4.897	9.766	4.875
#3	4.931	4.903	9.766	4.880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**694.88**	**11277.**	**121980.**	**4628.1**
Stddev	.72	19.	176.	8.6
%RSD	.10335	.16560	.14418	.18650
#1	694.35	11290.	121930.	4638.0
#2	695.70	11256.	121840.	4624.2
#3	694.59	11286.	122180.	4622.2

Sample Name: CCB Acquired: 8/13/2025 12:09:26 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ba4554	Be3130	Ca3158	Cd2144	Co2286	Cr2835	Fe2404	K_7664	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.00013	-.0024	.00014	.0001	-.0002	.0004	.0144	.0011
Stddev	.0001	.00000	.0039	.00002	.0000	.0004	.0004	.0056	.0007
%RSD	205.8	2.2524	166.5	12.333	80.85	188.9	94.16	39.08	58.60
#1	.0002	.00013	-.0057	.00012	.0000	-.0005	.0005	.0170	.0005
#2	-.0001	.00013	-.0033	.00015	.0001	-.0004	-.0000	.0182	.0011
#3	.0001	.00013	.0019	.00014	.0001	.0003	.0008	.0079	.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm
Avg	.0000	.0011	.0004	.0000
Stddev	.0000	.0004	.0044	.0001
%RSD	52.88	32.02	1028.	233.3
#1	.0001	.0015	-.0029	.0002
#2	.0000	.0011	-.0013	-.0000
#3	.0000	.0008	.0055	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	760.42	11596.	124790.	4682.9
Stddev	4.38	23.	266.	59.8
%RSD	.57619	.19815	.21317	1.2765
#1	760.66	11622.	124760.	4644.1
#2	755.93	11578.	125070.	4751.7
#3	764.68	11589.	124540.	4652.8

Sample Name: MB 620-51922/1-A Acquired: 8/13/2025 13:59:43 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**-.0005**	**.0003**	**-.0001**	**-.0001**	**-.00000**	**-.0019**	**-.00001**
Stddev	.0001	.0000	.0002	.0001	.0000	.00000	.0015	.00000
%RSD	12.04	2.294	61.47	73.90	77.58	47.715	78.23	27.911
#1	-.0005	-.0005	.0002	-.0001	-.0000	-.00000	-.0021	-.00001
#2	-.0004	-.0005	.0005	-.0000	-.0001	-.00000	-.0003	-.00001
#3	-.0004	-.0005	.0001	-.0001	-.0000	-.00000	-.0033	-.00001

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.0002**	**.0002**	**-.0017**	**.0041**	**-.0002**	**-.0002**	**-.0000**
Stddev	.0000	.0001	.0004	.0006	.0006	.0001	.0002	.0000
%RSD	110.2	44.01	171.8	34.67	14.17	24.87	120.8	13.85
#1	-.0000	-.0003	.0006	-.0013	.0036	-.0003	-.0000	-.0000
#2	-.0000	-.0002	.0003	-.0015	.0048	-.0003	-.0004	-.0000
#3	-.0000	-.0001	-.0002	-.0024	.0040	-.0002	-.0001	-.0000

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.0060**	**-.0001**	**-.0002**	**.0000**	**-.0011**	**.0000**	**.0000**
Stddev	.0000	.0019	.0000	.0001	.0001	.0002	.0000	.0002
%RSD	90.32	30.94	23.36	49.19	248.9	15.86	107.5	688.4
#1	-.0000	-.0039	-.0001	-.0003	.0000	-.0013	.0000	-.0000
#2	-.0001	-.0067	-.0001	-.0001	-.0000	-.0011	.0000	.0002
#3	-.0000	-.0074	-.0001	-.0002	.0001	-.0009	.0001	-.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0006**	**-.0002**	**.0000**	**.0000**	**-.0000**	**-.0000**	**-.0036**
Stddev	.0002	.0001	.0000	.0000	.0002	.0000	.0003
%RSD	27.11	34.75	681.6	112.2	842.0	27.60	7.490
#1	-.0006	-.0003	-.0000	.0000	-.0001	-.0001	-.0033
#2	-.0007	-.0002	-.0000	.0000	.0002	-.0000	-.0037
#3	-.0004	-.0001	.0000	-.0000	-.0001	-.0000	-.0037

Sample Name: MB 620-51922/1-A Acquired: 8/13/2025 13:59:43 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	771.91	11748.	127940.	4881.9
Stddev	3.54	23.	172.	24.4
%RSD	.45824	.19785	.13458	.49966
#1	773.49	11774.	127950.	4855.1
#2	774.39	11740.	128100.	4887.7
#3	767.86	11729.	127760.	4902.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.67%	100.93%	101.83%	104.13%
Range				

Sample Name: LCS 620-51922/2-A Acquired: 8/13/2025 14:05:43 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.379**	**1.407**	**1.475**	**1.480**	**1.443**	**1.5104**	**4.260**	**1.5285**
Stddev	.007	.004	.002	.006	.011	.0031	.037	.0010
%RSD	.5270	.2666	.1326	.3867	.7538	.20740	.8599	.06244
#1	1.372	1.406	1.475	1.475	1.431	1.5091	4.271	1.5289
#2	1.379	1.405	1.474	1.478	1.453	1.5081	4.290	1.5291
#3	1.386	1.412	1.477	1.486	1.446	1.5139	4.219	1.5274

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.486**	**1.384**	**1.340**	**1.309**	**13.91**	**1.443**	**1.421**	**1.450**
Stddev	.001	.004	.007	.023	.02	.005	.003	.002
%RSD	.0654	.2863	.5130	1.756	.1443	.3488	.1834	.1664
#1	1.484	1.383	1.348	1.289	13.90	1.448	1.421	1.449
#2	1.486	1.381	1.339	1.303	13.93	1.444	1.419	1.448
#3	1.486	1.389	1.334	1.334	13.90	1.438	1.424	1.453

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.439**	**4.286**	**1.376**	**1.422**	**1.441**	**5.786**	**1.455**	**1.473**
Stddev	.003	.014	.003	.002	.004	.030	.005	.004
%RSD	.2126	.3368	.2314	.1207	.2989	.5190	.3146	.3016
#1	1.436	4.270	1.372	1.420	1.437	5.754	1.450	1.468
#2	1.441	4.290	1.376	1.424	1.442	5.790	1.458	1.475
#3	1.441	4.297	1.379	1.422	1.446	5.814	1.458	1.477

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.631**	**1.519**	**1.412**	**1.459**	**1.401**	**1.385**	**1.086**
Stddev	.013	.003	.009	.002	.008	.003	.003
%RSD	.1886	.1908	.6290	.1619	.5624	.2387	.2795
#1	6.620	1.517	1.403	1.456	1.392	1.382	1.088
#2	6.630	1.523	1.421	1.459	1.403	1.384	1.087
#3	6.645	1.518	1.411	1.461	1.408	1.388	1.082

Sample Name: LCS 620-51922/2-A Acquired: 8/13/2025 14:05:43 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	736.07	11485.	124340.	4833.4
Stddev	.93	17.	433.	10.3
%RSD	.12690	.15198	.34819	.21342
#1	736.44	11502.	124750.	4845.2
#2	736.77	11486.	124400.	4826.4
#3	735.01	11467.	123890.	4828.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.945%	98.668%	98.973%	103.09%
Range				

Sample Name: 620-28471-A-1-A Acquired: 8/13/2025 14:11:35 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	.0075	.1123	7.008	.0001	.00065	-.0114	-.00003
Stddev	.0009	.0004	.0021	.020	.0001	.00006	.0084	.00017
%RSD	37.76	4.787	1.852	.2915	98.22	8.9404	73.35	553.27
#1	.0028	.0071	.1145	6.985	-.0000	.00069	-.0210	.00015
#2	.0027	.0077	.1120	7.015	.0001	.00068	-.0077	-.00007
#3	.0013	.0078	.1103	7.024	.0001	.00059	-.0056	-.00017

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0021	.0302	-.0065	36.92	.0007	-.0008	.0001
Stddev	.0003	.0012	.0044	.0013	.25	.0054	.0014	.0001
%RSD	175.8	57.38	14.45	20.41	.6654	791.4	173.2	142.4
#1	.0003	.0030	.0341	-.0079	37.21	.0003	-.0003	.0001
#2	.0003	.0026	.0311	-.0053	36.76	.0062	.0002	.0002
#3	-.0001	.0007	.0255	-.0062	36.80	-.0045	-.0025	-.0000

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.5805	.0178	.1182	.0008	3.321	.0013	-.0007
Stddev	.0004	.0161	.0005	.0019	.0003	.008	.0007	.0022
%RSD	40.84	2.775	2.669	1.580	37.10	.2489	59.27	303.0
#1	.0014	.5890	.0178	.1202	.0010	3.331	.0016	.0003
#2	.0009	.5906	.0182	.1179	.0005	3.317	.0004	-.0033
#3	.0006	.5619	.0173	.1165	.0009	3.316	.0018	.0008

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	-.0011	.0002	.0013	.0014	-.0001	-.0358
Stddev	.0013	.0003	.0000	.0002	.0013	.0002	.0091
%RSD	152.4	22.97	16.88	17.09	95.66	218.1	25.27
#1	.0015	-.0013	.0002	.0010	-.0001	-.0001	-.0442
#2	.0017	-.0012	.0002	.0015	.0022	.0001	-.0262
#3	-.0006	-.0008	.0003	.0013	.0021	-.0002	-.0371

Sample Name: 620-28471-A-1-A Acquired: 8/13/2025 14:11:35 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**736.84**	**11324.**	**123020.**	**4764.2**
Stddev	8.51	88.	918.	48.1
%RSD	1.1545	.77374	.74583	1.0093
#1	746.49	11419.	123980.	4807.9
#2	733.57	11308.	122950.	4772.1
#3	730.45	11246.	122140.	4712.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.045%	97.290%	97.923%	101.62%
Range				

Sample Name: 620-28471-A-1-B DU Acquired: 8/13/2025 14:17:33 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033	.0058	.1103	6.962	.0004	.00047	-.0176	-.00005
Stddev	.0007	.0012	.0013	.006	.0005	.00002	.0016	.00002
%RSD	22.13	19.99	1.157	.0856	127.7	3.4850	9.157	39.692
#1	.0025	.0071	.1091	6.955	.0010	.00046	-.0178	-.00004
#2	.0038	.0047	.1116	6.964	.0001	.00048	-.0190	-.00003
#3	.0037	.0057	.1102	6.967	.0001	.00049	-.0158	-.00007

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0000	.0025	.0331	-.0036	36.25	-.0016	-.0013	-.0001
Stddev	.0001	.0013	.0011	.0078	.06	.0020	.0017	.0001
%RSD	732.0	50.06	3.250	213.3	.1655	128.3	139.4	83.66
#1	-.0001	.0020	.0319	.0034	36.31	-.0035	-.0005	-.0002
#2	.0001	.0016	.0340	-.0023	36.24	.0005	-.0000	-.0001
#3	-.0001	.0040	.0334	-.0120	36.19	-.0017	-.0032	-.0000

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.5476	.0167	.1185	.0014	3.325	.0005	-.0027
Stddev	.0000	.0111	.0003	.0010	.0003	.026	.0008	.0021
%RSD	10.21	2.032	1.646	.8674	23.76	.7931	164.6	75.33
#1	.0003	.5370	.0165	.1194	.0015	3.317	-.0004	-.0051
#2	.0004	.5466	.0165	.1174	.0011	3.304	.0009	-.0021
#3	.0003	.5592	.0170	.1187	.0017	3.355	.0010	-.0011

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044	-.0010	.0001	.0007	.0012	-.0001	-.0239
Stddev	.0003	.0009	.0001	.0003	.0023	.0002	.0061
%RSD	5.791	96.66	175.2	43.35	189.6	273.4	25.39
#1	.0042	-.0019	.0001	.0011	.0028	.0002	-.0171
#2	.0044	-.0010	-.0001	.0004	.0022	-.0003	-.0259
#3	.0047	-.0000	.0001	.0008	-.0014	-.0002	-.0287

Sample Name: 620-28471-A-1-B DU Acquired: 8/13/2025 14:17:33 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	740.63	11253.	121990.	4728.1
Stddev	3.95	31.	598.	10.5
%RSD	.53343	.27206	.48988	.22224
#1	737.54	11224.	121940.	4719.2
#2	739.27	11285.	122610.	4739.7
#3	745.09	11251.	121410.	4725.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.546%	96.679%	97.097%	100.85%
Range				

Sample Name: 620-28471-A-1-C MS Acquired: 8/13/2025 14:23:32 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.427**	**1.496**	**1.639**	**9.390**	**1.474**	**1.5397**	**4.383**	**1.5710**
Stddev	.004	.006	.003	.031	.009	.0053	.011	.0031
%RSD	.2880	.4042	.1945	.3317	.6107	.34578	.2452	.19772
#1	1.423	1.492	1.635	9.356	1.477	1.5434	4.387	1.5736
#2	1.430	1.502	1.639	9.399	1.464	1.5336	4.371	1.5718
#3	1.429	1.492	1.641	9.417	1.481	1.5422	4.391	1.5676

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.511**	**1.414**	**1.372**	**1.373**	**56.02**	**1.493**	**1.459**	**1.491**
Stddev	.003	.014	.006	.013	.32	.003	.002	.000
%RSD	.1649	.9615	.4540	.9352	.5759	.1842	.1166	.0266
#1	1.510	1.402	1.366	1.388	56.09	1.495	1.457	1.490
#2	1.514	1.429	1.370	1.370	55.66	1.494	1.460	1.491
#3	1.509	1.411	1.378	1.363	56.30	1.490	1.459	1.491

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.495**	**5.138**	**1.447**	**1.601**	**1.477**	**9.726**	**1.503**	**1.515**
Stddev	.004	.007	.003	.005	.001	.026	.005	.005
%RSD	.3003	.1450	.2115	.3320	.0717	.2718	.3640	.3567
#1	1.491	5.134	1.444	1.606	1.476	9.696	1.497	1.511
#2	1.497	5.134	1.449	1.601	1.478	9.747	1.508	1.521
#3	1.499	5.147	1.449	1.595	1.478	9.734	1.504	1.513

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.848**	**1.553**	**1.448**	**1.509**	**1.441**	**1.437**	**1.154**
Stddev	.016	.006	.011	.001	.009	.001	.008
%RSD	.2378	.3603	.7886	.0945	.6382	.0970	.6892
#1	6.829	1.553	1.452	1.508	1.437	1.436	1.145
#2	6.859	1.558	1.435	1.509	1.451	1.439	1.158
#3	6.855	1.547	1.457	1.510	1.434	1.436	1.159

Sample Name: 620-28471-A-1-C MS Acquired: 8/13/2025 14:23:32 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	708.11	11168.	121300.	4672.0
Stddev	2.44	20.	544.	54.7
%RSD	.34453	.18343	.44887	1.1701
#1	706.10	11149.	120700.	4635.9
#2	707.42	11167.	121770.	4734.9
#3	710.83	11189.	121430.	4645.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.263%	95.948%	96.552%	99.652%
Range				

Sample Name: 620-28495-M-2-A Acquired: 8/13/2025 14:41:21 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0020**	**.0220**	**.0048**	**.1707**	**.0136**	**-.00008**	**2.272**	**-.00010**
Stddev	.0005	.0027	.0011	.0014	.0004	.00001	.020	.00008
%RSD	23.98	12.28	22.11	.7969	2.897	9.9454	.8887	79.889
#1	-.0019	.0244	.0050	.1715	.0133	-.00008	2.276	-.00005
#2	-.0025	.0225	.0057	.1714	.0135	-.00007	2.250	-.00005
#3	-.0016	.0191	.0036	.1691	.0140	-.00008	2.290	-.00019

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0015**	**.0291**	**.1797**	**1.442**	**.0083**	**3.598**	**.0198**
Stddev	.0001	.0015	.0053	.0078	.068	.0020	.009	.0001
%RSD	105.4	101.7	18.29	4.362	4.684	24.49	.2423	.5321
#1	-.0000	-.0033	.0266	.1876	1.518	.0063	3.590	.0198
#2	-.0001	-.0004	.0352	.1796	1.420	.0103	3.607	.0199
#3	-.0000	-.0008	.0254	.1719	1.389	.0084	3.596	.0197

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1421**	**47.99**	**.0001**	**.0246**	**.0013**	**.1310**	**.0001**	**-.0050**
Stddev	.0021	.35	.0006	.0020	.0005	.0051	.0010	.0011
%RSD	1.500	.7264	626.9	8.077	40.30	3.927	1049.	21.97
#1	.1400	48.12	.0003	.0247	.0008	.1360	-.0007	-.0040
#2	.1443	47.59	.0005	.0225	.0013	.1312	-.0002	-.0049
#3	.1419	48.24	-.0006	.0265	.0018	.1257	.0012	-.0062

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2832**	**-.0013**	**.0477**	**.0009**	**-.0004**	**-.0005**	**-.0213**
Stddev	.0055	.0010	.0001	.0004	.0012	.0003	.0028
%RSD	1.951	76.02	.3142	48.21	290.5	49.28	13.03
#1	.2777	-.0002	.0475	.0014	-.0013	-.0007	-.0226
#2	.2887	-.0021	.0477	.0006	-.0008	-.0002	-.0231
#3	.2832	-.0017	.0478	.0007	.0009	-.0006	-.0181

Sample Name: 620-28495-M-2-A Acquired: 8/13/2025 14:41:21 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	720.16	11149.	120230.	4667.0
Stddev	9.55	39.	788.	20.0
%RSD	1.3264	.34646	.65517	.42786
#1	710.41	11189.	121090.	4672.6
#2	729.51	11146.	120060.	4683.5
#3	720.56	11111.	119540.	4644.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.849%	95.782%	95.697%	99.545%
Range				

Sample Name: 620-28495-M-3-A Acquired: 8/13/2025 14:47:18 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0027**	**.3117**	**.0004**	**.2728**	**.0065**	**-.00010**	**2.096**	**-.00035**
Stddev	.0009	.0012	.0013	.0026	.0005	.00001	.043	.00005
%RSD	33.69	.3886	291.8	.9643	8.320	6.8865	2.073	14.202
#1	-.0024	.3130	.0017	.2751	.0071	-.00011	2.140	-.00029
#2	-.0038	.3114	-.0008	.2734	.0064	-.00010	2.095	-.00038
#3	-.0021	.3106	.0004	.2700	.0061	-.00010	2.053	-.00036

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**-.0020**	**.0231**	**.2319**	**1.730**	**.0088**	**.5174**	**.0373**
Stddev	.0001	.0031	.0023	.0084	.049	.0005	.0019	.0002
%RSD	25.06	155.2	9.840	3.617	2.803	6.012	.3582	.6391
#1	.0006	-.0011	.0213	.2223	1.709	.0093	.5193	.0373
#2	.0006	-.0055	.0224	.2354	1.786	.0088	.5156	.0371
#3	.0004	.0005	.0257	.2379	1.696	.0083	.5174	.0375

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4921**	**44.17**	**.0008**	**.0632**	**-.0009**	**.2240**	**-.0017**	**-.0013**
Stddev	.0071	1.04	.0007	.0018	.0007	.0032	.0002	.0009
%RSD	1.449	2.355	92.77	2.840	71.41	1.411	10.67	70.58
#1	.4926	45.24	-.0000	.0638	-.0006	.2223	-.0020	-.0012
#2	.4990	44.10	.0011	.0645	-.0005	.2277	-.0017	-.0023
#3	.4847	43.17	.0013	.0611	-.0017	.2222	-.0016	-.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.548**	**-.0011**	**.0147**	**.0075**	**-.0011**	**-.0010**	**-.0263**
Stddev	.034	.0004	.0002	.0006	.0007	.0003	.0049
%RSD	2.168	37.16	1.052	8.421	69.60	25.80	18.68
#1	1.558	-.0006	.0148	.0075	-.0014	-.0012	-.0252
#2	1.576	-.0014	.0149	.0069	-.0015	-.0007	-.0220
#3	1.511	-.0012	.0146	.0082	-.0002	-.0011	-.0316

Sample Name: 620-28495-M-3-A Acquired: 8/13/2025 14:47:18 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	724.91	11283.	121520.	4827.6
Stddev	10.52	13.	151.	92.3
%RSD	1.4507	.11238	.12431	1.9116
#1	725.32	11269.	121520.	4737.7
#2	735.22	11293.	121370.	4823.1
#3	714.20	11286.	121670.	4922.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.475%	96.932%	96.723%	102.97%
Range				

Sample Name: 620-28495-M-4-A Acquired: 8/13/2025 14:53:15 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0028**	**-.0049**	**.0016**	**.0102**	**.0001**	**-.00008**	**-.0147**	**-.00009**
Stddev	.0000	.0007	.0010	.0004	.0002	.00001	.0111	.00000
%RSD	1.507	13.41	61.84	4.136	410.8	6.9098	75.30	2.2420
#1	-.0028	-.0056	.0016	.0102	-.0002	-.00008	-.0100	-.00009
#2	-.0027	-.0050	.0025	.0098	.0003	-.00008	-.0067	-.00009
#3	-.0028	-.0042	.0006	.0106	.0001	-.00007	-.0273	-.00009

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0006**	**-.0023**	**-.0118**	**.0395**	**-.0029**	**-.0027**	**-.0002**
Stddev	.0001	.0002	.0020	.0098	.0450	.0015	.0009	.0001
%RSD	58.90	43.01	85.89	83.49	113.9	50.97	32.50	22.02
#1	-.0003	-.0007	-.0002	-.0041	.0802	-.0014	-.0017	-.0003
#2	-.0001	-.0003	-.0027	-.0083	.0472	-.0029	-.0032	-.0002
#3	-.0003	-.0007	-.0041	-.0229	-.0088	-.0043	-.0032	-.0002

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0358**	**-.0011**	**-.0012**	**.0011**	**-.0066**	**-.0006**	**-.0014**
Stddev	.0000	.0095	.0006	.0011	.0006	.0028	.0031	.0047
%RSD	8.699	26.68	60.64	93.51	60.71	42.64	486.6	331.5
#1	.0003	-.0258	-.0016	-.0024	.0018	-.0096	.0001	-.0046
#2	.0003	-.0366	-.0003	-.0007	.0009	-.0062	-.0041	.0040
#3	.0003	-.0449	-.0013	-.0004	.0005	-.0040	.0020	-.0037

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0087**	**-.0012**	**.0001**	**-.0001**	**.0000**	**-.0002**	**-.0310**
Stddev	.0005	.0004	.0001	.0001	.0030	.0002	.0108
%RSD	5.782	33.02	55.04	116.6	7834.	70.56	34.79
#1	-.0092	-.0014	.0001	-.0003	.0035	-.0003	-.0264
#2	-.0086	-.0007	.0000	-.0000	-.0015	-.0003	-.0232
#3	-.0082	-.0014	.0001	-.0001	-.0018	-.0000	-.0433

Sample Name: 620-28495-M-4-A Acquired: 8/13/2025 14:53:15 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	754.99	11513.	124390.	4709.0
Stddev	2.05	22.	327.	42.6
%RSD	.27092	.19355	.26294	.90414
#1	755.50	11511.	124040.	4756.2
#2	756.74	11536.	124680.	4673.6
#3	752.74	11491.	124460.	4697.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.436%	98.907%	99.011%	100.44%
Range				

Sample Name: CCV 158349 Acquired: 8/13/2025 14:59:17 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9837**	**9.895**	**4.890**	**4.951**	**4.824**	**4.9722**	**9.754**	**4.8863**
Stddev	.0027	.020	.009	.005	.014	.0174	.020	.0031
%RSD	.2754	.1970	.1773	.0936	.2951	.35003	.2068	.06247
#1	.9867	9.917	4.898	4.955	4.839	4.9772	9.767	4.8859
#2	.9828	9.886	4.891	4.946	4.821	4.9529	9.764	4.8835
#3	.9815	9.881	4.880	4.951	4.811	4.9866	9.730	4.8895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.934**	**4.823**	**5.002**	W **9.286**	**9.617**	**4.926**	**9.690**	**4.942**
Stddev	.001	.011	.041	.036	.023	.010	.038	.021
%RSD	.0264	.2242	.8176	.3868	.2425	.2098	.3951	.4299
#1	4.935	4.834	5.042	9.279	9.643	4.936	9.731	4.962
#2	4.933	4.812	5.004	9.325	9.598	4.925	9.685	4.945
#3	4.935	4.824	4.961	9.254	9.608	4.915	9.655	4.920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				10.00				
Range				-5.000%				

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.943**	**9.721**	**4.946**	**4.926**	**4.906**	**4.924**	**4.966**	**4.910**
Stddev	.002	.033	.015	.005	.012	.016	.008	.011
%RSD	.0487	.3371	.3081	.1082	.2520	.3221	.1602	.2315
#1	4.945	9.727	4.960	4.932	4.920	4.937	4.975	4.921
#2	4.942	9.750	4.947	4.923	4.898	4.930	4.959	4.899
#3	4.940	9.685	4.929	4.922	4.900	4.907	4.964	4.909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV 158349 Acquired: 8/13/2025 14:59:17 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.833**	**4.928**	**4.921**	**4.948**	**4.854**	**4.893**	**5.104**
Stddev	.043	.007	.017	.005	.018	.011	.017
%RSD	.4351	.1331	.3497	.1051	.3713	.2251	.3311
#1	9.787	4.934	4.939	4.952	4.861	4.903	5.114
#2	9.844	4.921	4.919	4.949	4.868	4.895	5.114
#3	9.870	4.929	4.905	4.942	4.834	4.882	5.085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**689.93**	**11158.**	**122150.**	**4681.1**
Stddev	1.80	19.	220.	9.6
%RSD	.26132	.17358	.17981	.20461
#1	688.26	11136.	122380.	4681.3
#2	689.67	11164.	121940.	4671.4
#3	691.84	11173.	122120.	4690.5

Sample Name: CCB Acquired: 8/13/2025 15:05:11 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0020**	**-.0031**	**.0009**	**.0176**	**-.0002**	**.00034**	**-.0034**	**.00029**
Stddev	.0007	.0007	.0010	.0032	.0007	.00001	.0108	.00014
%RSD	33.53	23.61	115.2	17.91	403.4	3.4384	314.8	49.764
#1	-.0024	-.0027	.0011	.0211	-.0000	.00033	-.0138	.00021
#2	-.0024	-.0026	.0018	.0169	.0004	.00033	-.0042	.00020
#3	-.0012	-.0039	-.0002	.0149	-.0009	.00035	.0077	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0002**	**.0022**	**.0004**	**.0644**	**.0038**	**.0012**	**.0002**
Stddev	.0002	.0034	.0058	.0081	.0306	.0055	.0004	.0000
%RSD	52.93	1890.	260.2	2134.	47.58	144.7	29.37	9.869
#1	.0003	-.0016	.0036	.0095	.0980	.0087	.0008	.0002
#2	.0005	.0041	.0073	-.0060	.0380	-.0022	.0015	.0002
#3	.0001	-.0020	-.0042	-.0024	.0571	.0049	.0014	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	**.0212**	**-.0004**	**-.0006**	**.0010**	**-.0001**	**-.0006**	**-.0018**
Stddev	.0008	.0211	.0001	.0007	.0001	.0015	.0015	.0016
%RSD	34.46	99.20	25.69	116.4	11.40	2204.	258.2	89.44
#1	.0032	.0068	-.0003	-.0001	.0009	.0013	.0002	-.0037
#2	.0023	.0115	-.0005	-.0014	.0011	-.0017	-.0023	-.0005
#3	.0016	.0454	-.0003	-.0003	.0009	.0002	.0004	-.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 8/13/2025 15:05:11 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0003	.0003	.0007	.0019	.0002	.0016
Stddev	.0008	.0009	.0002	.0002	.0012	.0001	.0027
%RSD	113.6	255.4	47.07	32.76	63.59	60.24	165.0
#1	-.0000	.0002	.0005	.0005	.0019	.0002	-.0012
#2	-.0015	-.0004	.0002	.0007	.0031	.0003	.0041
#3	-.0005	.0013	.0002	.0009	.0007	.0001	.0020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	756.23	11495.	125090.	4783.4
Stddev	8.20	1.	315.	76.4
%RSD	1.0848	.01284	.25154	1.5972
#1	753.34	11494.	125400.	4741.3
#2	749.87	11497.	125080.	4871.6
#3	765.49	11495.	124770.	4737.4

Sample Name: MB 620-51971/1-B Acquired: 8/13/2025 15:11:10 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0001**	**.0003**	**.0009**	**.0000**	**.00003**	**.0132**	**.00001**
Stddev	.0001	.0001	.0002	.0001	.0000	.00003	.0012	.00002
%RSD	186.5	105.4	49.75	13.27	168.2	101.21	8.758	197.63
#1	.0001	.0003	.0005	.0010	.0001	.00007	.0120	.00004
#2	-.0000	.0000	.0003	.0009	.0000	.00002	.0143	.00000
#3	.0000	.0001	.0002	.0008	-.0000	.00001	.0132	-.00001

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.0001**	**-.0001**	**-.0000**	**.0097**	**-.0000**	**.0023**	**.0001**
Stddev	.0000	.0000	.0005	.0005	.0014	.0001	.0001	.0000
%RSD	92.61	51.93	530.7	3760.	14.17	347.7	4.557	45.26
#1	.0001	-.0001	.0004	.0002	.0088	.0001	.0024	.0001
#2	.0000	-.0001	-.0001	-.0005	.0090	-.0001	.0022	.0001
#3	.0000	-.0001	-.0007	.0003	.0113	-.0000	.0024	.0001

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0757**	**.0000**	**.0003**	**.0002**	**.0080**	**-.0000**	**.0000**
Stddev	.0000	.0019	.0000	.0002	.0001	.0004	.0000	.0001
%RSD	104.9	2.531	75.19	61.13	65.33	5.471	45.50	423.4
#1	.0001	.0779	.0000	.0004	.0003	.0085	-.0000	.0001
#2	.0000	.0745	.0000	.0001	.0002	.0080	-.0000	-.0001
#3	.0000	.0746	.0000	.0003	.0000	.0076	-.0001	.0000

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0063**	**-.0001**	**.0001**	**.0000**	**.0002**	**.0000**	**-.0028**
Stddev	.0001	.0001	.0000	.0001	.0001	.0000	.0008
%RSD	1.609	80.76	23.40	208.3	48.92	321.1	29.26
#1	.0064	-.0000	.0002	.0001	.0002	.0001	-.0025
#2	.0064	-.0001	.0001	-.0000	.0001	.0000	-.0037
#3	.0062	-.0001	.0001	.0000	.0003	-.0000	-.0022

Sample Name: MB 620-51971/1-B Acquired: 8/13/2025 15:11:10 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	760.98	11544.	124600.	4780.4
Stddev	6.09	32.	134.	37.5
%RSD	.80030	.27819	.10765	.78370
#1	767.62	11545.	124670.	4790.7
#2	755.66	11511.	124450.	4738.9
#3	759.66	11575.	124690.	4811.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.23%	99.177%	99.179%	101.96%
Range				

Sample Name: 620-28495-L-2-B Acquired: 8/13/2025 15:17:11 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0170**	**.0015**	**.1539**	**.0091**	**-.00006**	**1.976**	**-.00007**
Stddev	.0003	.0006	.0013	.0011	.0004	.00001	.008	.00007
%RSD	69.12	3.597	84.19	.7204	4.422	24.326	.4197	104.72
#1	.0004	.0166	.0027	.1548	.0089	-.00007	1.971	.00000
#2	.0006	.0166	.0002	.1544	.0095	-.00005	1.985	-.00014
#3	.0001	.0177	.0016	.1527	.0088	-.00006	1.971	-.00007

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0007**	**.0278**	**-.0045**	**1.180**	**.0099**	**3.416**	**.0054**
Stddev	.0003	.0012	.0011	.0027	.066	.0017	.006	.0001
%RSD	115.3	173.2	3.805	60.31	5.616	17.14	.1694	1.335
#1	.0005	-.0021	.0266	-.0052	1.248	.0108	3.410	.0053
#2	-.0000	.0003	.0281	-.0069	1.115	.0079	3.422	.0055
#3	.0002	-.0003	.0286	-.0015	1.178	.0110	3.415	.0054

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1406**	**47.26**	**-.0007**	**.0572**	**.0001**	**.1083**	**-.0008**	**-.0013**
Stddev	.0005	.05	.0003	.0007	.0015	.0030	.0004	.0042
%RSD	.3559	.1162	49.61	1.197	1285.	2.782	58.62	313.5
#1	.1403	47.20	-.0007	.0576	.0008	.1083	-.0005	.0002
#2	.1403	47.31	-.0010	.0564	.0012	.1053	-.0013	-.0060
#3	.1411	47.25	-.0004	.0575	-.0016	.1113	-.0005	.0018

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2777**	**-.0005**	**.0421**	**.0001**	**-.0008**	**-.0002**	**-.0234**
Stddev	.0028	.0004	.0001	.0003	.0009	.0002	.0089
%RSD	1.010	89.76	.1975	329.2	103.4	70.33	37.84
#1	.2767	.0000	.0420	.0004	-.0017	-.0001	-.0188
#2	.2809	-.0008	.0422	-.0001	.0000	-.0003	-.0336
#3	.2755	-.0007	.0421	-.0001	-.0008	-.0004	-.0178

Sample Name: 620-28495-L-2-B Acquired: 8/13/2025 15:17:11 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**718.85**	**11318.**	**122510.**	**4753.8**
Stddev	3.80	21.	726.	43.9
%RSD	.52923	.18409	.59284	.92375
#1	722.88	11301.	122150.	4708.4
#2	718.35	11341.	123350.	4757.2
#3	715.32	11312.	122030.	4796.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.677%	97.236%	97.513%	101.40%
Range				

Sample Name: 620-28495-L-3-B Acquired: 8/13/2025 15:23:10 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0566	.0036	.2685	.0027	-.00010	1.862	-.00019
Stddev	.0002	.0008	.0009	.0018	.0004	.00003	.015	.00002
%RSD	19.59	1.494	24.59	.6772	13.13	26.445	.7772	12.428
#1	.0013	.0570	.0031	.2668	.0031	-.00011	1.856	-.00018
#2	.0009	.0572	.0031	.2683	.0025	-.00007	1.879	-.00022
#3	.0010	.0556	.0046	.2704	.0025	-.00010	1.852	-.00018

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0006	.0231	.0242	1.615	.0053	.3992	.0154
Stddev	.0001	.0019	.0077	.0083	.036	.0007	.0032	.0002
%RSD	22.67	328.6	33.09	34.11	2.222	13.20	.7987	1.121
#1	.0004	-.0011	.0150	.0165	1.653	.0055	.3955	.0152
#2	.0003	.0002	.0303	.0330	1.613	.0045	.4009	.0155
#3	.0003	.0027	.0242	.0233	1.581	.0058	.4012	.0156

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4972	44.38	-.0000	.0543	.0015	.2324	-.0009	-.0029
Stddev	.0033	.10	.0003	.0015	.0007	.0030	.0018	.0017
%RSD	.6540	.2334	2910.	2.846	51.37	1.280	205.0	59.41
#1	.4952	44.32	-.0002	.0526	.0023	.2309	.0003	-.0022
#2	.4955	44.31	.0004	.0545	.0008	.2305	.0000	-.0016
#3	.5010	44.50	-.0003	.0557	.0012	.2358	-.0029	-.0048

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.115	.0003	.0132	.0008	-.0004	-.0013	-.0326
Stddev	.004	.0005	.0001	.0001	.0020	.0002	.0018
%RSD	.3320	163.4	.6056	12.83	560.2	17.01	5.479
#1	1.114	.0004	.0132	.0009	.0007	-.0014	-.0312
#2	1.112	.0008	.0131	.0008	-.0026	-.0010	-.0346
#3	1.119	-.0002	.0132	.0007	.0008	-.0014	-.0321

Sample Name: 620-28495-L-3-B Acquired: 8/13/2025 15:23:10 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**724.14**	**11378.**	**123000.**	**4745.9**
Stddev	4.45	33.	691.	27.0
%RSD	.61448	.28792	.56210	.56885
#1	726.41	11414.	123740.	4772.5
#2	719.02	11369.	122870.	4746.6
#3	727.00	11350.	122380.	4718.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.374%	97.747%	97.901%	101.23%
Range				

Sample Name: 620-28495-L-4-B Acquired: 8/13/2025 15:29:07 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0022**	**-.0041**	**.0015**	**.0048**	**.0004**	**-.00009**	**.0234**	**-.00009**
Stddev	.0010	.0002	.0015	.0003	.0004	.00002	.0053	.00004
%RSD	43.57	5.686	102.1	5.442	106.3	18.313	22.54	43.528
#1	-.0029	-.0039	.0017	.0047	-.0001	-.00007	.0278	-.00006
#2	-.0026	-.0044	-.0001	.0045	.0006	-.00010	.0250	-.00008
#3	-.0011	-.0040	.0029	.0051	.0006	-.00010	.0176	-.00013

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0000**	**.0018**	**-.0016**	**.1160**	**.0002**	**.0040**	**.0007**
Stddev	.0002	.0013	.0021	.0055	.0450	.0026	.0010	.0000
%RSD	36.41	2853.	117.1	351.2	38.82	1534.	24.79	6.412
#1	.0005	.0008	-.0005	-.0071	.0663	.0011	.0050	.0007
#2	.0003	.0009	.0035	.0040	.1542	.0022	.0030	.0006
#3	.0005	-.0015	.0023	-.0017	.1276	-.0027	.0040	.0007

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0221**	**-.0005**	**.0043**	**.0008**	**.0030**	**-.0001**	**.0010**
Stddev	.0002	.0024	.0005	.0005	.0001	.0002	.0008	.0036
%RSD	11630.	10.87	89.69	11.90	14.69	4.947	1641.	349.9
#1	.0001	.0222	-.0005	.0045	.0007	.0032	.0009	.0018
#2	-.0002	.0196	-.0000	.0046	.0009	.0029	-.0008	.0042
#3	.0000	.0244	-.0010	.0037	.0009	.0030	-.0002	-.0029

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0034**	**-.0013**	**.0003**	**.0001**	**-.0012**	**-.0002**	**-.0215**
Stddev	.0005	.0001	.0001	.0003	.0002	.0001	.0061
%RSD	13.68	8.432	34.11	224.4	20.85	60.84	28.42
#1	-.0030	-.0014	.0002	.0005	-.0010	-.0002	-.0185
#2	-.0033	-.0014	.0004	.0001	-.0014	-.0001	-.0174
#3	-.0039	-.0012	.0002	-.0001	-.0011	-.0004	-.0285

Sample Name: 620-28495-L-4-B Acquired: 8/13/2025 15:29:07 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	743.21	11361.	122570.	4643.5
Stddev	1.59	10.	175.	51.3
%RSD	.21398	.08712	.14295	1.1045
#1	742.62	11372.	122480.	4702.7
#2	745.01	11352.	122770.	4612.8
#3	742.00	11359.	122450.	4614.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.885%	97.604%	97.559%	99.044%
Range				

Sample Name: 620-28500-H-1-D Acquired: 8/13/2025 16:04:42 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0018**	**.0052**	**.0468**	**.0157**	**.0212**	**-.00010**	**23.18**	**-.00032**
Stddev	.0005	.0006	.0008	.0006	.0007	.00001	.22	.00004
%RSD	27.32	11.36	1.637	3.982	3.214	5.6426	.9333	11.786
#1	-.0021	.0057	.0475	.0155	.0219	-.00010	23.28	-.00036
#2	-.0021	.0053	.0460	.0152	.0207	-.00011	23.34	-.00030
#3	-.0013	.0046	.0470	.0164	.0208	-.00010	22.94	-.00030

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035**	**.0101**	**-.0092**	**12.47**	**5.249**	**.0033**	**4.957**	**2.138**
Stddev	.0004	.0024	.0023	.05	.041	.0081	.010	.005
%RSD	10.74	24.19	25.24	.4376	.7824	247.9	.2074	.2215
#1	.0039	.0084	-.0068	12.41	5.202	-.0054	4.947	2.134
#2	.0032	.0089	-.0094	12.50	5.278	.0045	4.957	2.143
#3	.0034	.0128	-.0115	12.51	5.266	.0107	4.967	2.139

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**9.021**	**.0065**	**.0726**	**.0020**	**23.99**	**-.0007**	**-.0006**
Stddev	.0002	.020	.0004	.0007	.0013	.05	.0008	.0006
%RSD	12.52	.2225	5.391	.9375	65.66	.2051	104.3	91.87
#1	.0012	9.013	.0065	.0720	.0032	24.05	-.0014	.0000
#2	.0015	9.044	.0069	.0733	.0006	23.96	-.0008	-.0009
#3	.0014	9.006	.0062	.0726	.0021	23.97	.0001	-.0011

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.939**	**-.0008**	**.1436**	**-.0001**	**-.0036**	**.0014**	**-.0071**
Stddev	.013	.0003	.0004	.0002	.0009	.0002	.0067
%RSD	.1428	38.96	.2799	146.4	24.11	11.48	93.70
#1	8.925	-.0009	.1432	-.0002	-.0035	.0014	-.0007
#2	8.944	-.0005	.1440	-.0003	-.0044	.0014	-.0066
#3	8.949	-.0011	.1436	.0001	-.0027	.0012	-.0140

Sample Name: 620-28500-H-1-D Acquired: 8/13/2025 16:04:42 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	702.15	10793.	116160.	4409.8
Stddev	3.88	23.	860.	37.3
%RSD	.55304	.20956	.74017	.84633
#1	699.53	10796.	116730.	4389.1
#2	706.61	10769.	115170.	4387.5
#3	700.30	10814.	116580.	4452.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.477%	92.723%	92.457%	94.060%
Range				

Sample Name: CCV 158349 Acquired: 8/13/2025 16:10:38 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9762**	**9.919**	**4.890**	**4.927**	W **4.736**	**5.0601**	**9.716**	**4.9584**
Stddev	.0013	.029	.004	.014	.015	.0193	.058	.0027
%RSD	.1305	.2954	.0820	.2867	.3178	.38162	.5960	.05450
#1	.9760	9.911	4.886	4.911	4.719	5.0824	9.651	4.9585
#2	.9776	9.951	4.890	4.936	4.747	5.0477	9.763	4.9610
#3	.9750	9.894	4.894	4.935	4.744	5.0503	9.733	4.9556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value					5.000			
Range					-5.000%			

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.977**	W **4.697**	**5.062**	W **9.286**	W **9.427**	**4.955**	**9.627**	**4.988**
Stddev	.006	.023	.023	.024	.029	.010	.036	.016
%RSD	.1262	.4978	.4500	.2528	.3073	.2040	.3741	.3108
#1	4.975	4.694	5.048	9.286	9.443	4.943	9.589	5.002
#2	4.984	4.721	5.088	9.262	9.393	4.961	9.631	4.971
#3	4.972	4.674	5.049	9.309	9.444	4.960	9.661	4.990
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		5.000		10.00	10.00			
Range		-5.000%		-5.000%	-5.000%			

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.956**	**9.615**	**4.950**	**4.950**	**4.913**	**5.010**	**4.957**	**4.906**
Stddev	.006	.056	.007	.003	.009	.015	.008	.002
%RSD	.1309	.5809	.1340	.0515	.1816	.2901	.1575	.0400
#1	4.949	9.554	4.943	4.951	4.905	5.025	4.951	4.904
#2	4.958	9.627	4.950	4.952	4.922	5.008	4.966	4.908
#3	4.962	9.663	4.956	4.947	4.913	4.996	4.954	4.905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV 158349 Acquired: 8/13/2025 16:10:38 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.752**	**4.999**	**4.864**	**4.992**	**4.883**	**4.908**	**5.036**
Stddev	.036	.005	.013	.004	.017	.004	.010
%RSD	.3678	.1099	.2747	.0774	.3462	.0777	.1940
#1	9.711	4.993	4.848	4.990	4.874	4.904	5.027
#2	9.772	5.004	4.872	4.997	4.903	4.911	5.047
#3	9.774	4.999	4.871	4.991	4.873	4.909	5.035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**664.01**	**10766.**	**116710.**	**4407.4**
Stddev	1.35	12.	51.	18.3
%RSD	.20325	.11000	.04330	.41514
#1	665.29	10778.	116650.	4413.7
#2	662.60	10765.	116750.	4421.7
#3	664.14	10754.	116720.	4386.8

Sample Name: CCB Acquired: 8/13/2025 16:16:32 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0021**	**-.0021**	**.0018**	**.0154**	**.0000**	**.00022**	**-.0056**	**.00026**
Stddev	.0006	.0004	.0003	.0029	.0000	.00005	.0057	.00014
%RSD	26.45	20.45	14.54	18.99	233.5	23.332	100.8	54.157
#1	-.0023	-.0018	.0020	.0184	.0000	.00028	-.0101	.00039
#2	-.0025	-.0026	.0015	.0151	-.0000	.00021	-.0075	.00027
#3	-.0015	-.0020	.0018	.0126	.0000	.00018	.0007	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0005**	**.0005**	**-.0057**	**.0520**	**.0050**	**-.0007**	**.0002**
Stddev	.0001	.0022	.0001	.0044	.0515	.0021	.0008	.0000
%RSD	120.9	449.4	11.65	77.23	99.20	42.33	114.1	18.92
#1	-.0001	.0022	.0004	-.0068	.0003	.0070	-.0014	.0002
#2	.0000	-.0020	.0005	-.0093	.0522	.0028	.0001	.0002
#3	-.0002	.0013	.0005	-.0008	.1034	.0051	-.0007	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019**	**.0153**	**-.0007**	**-.0003**	**.0012**	**.0347**	**.0015**	**.0003**
Stddev	.0010	.0237	.0008	.0023	.0013	.0019	.0010	.0005
%RSD	50.49	154.7	114.8	816.2	106.9	5.519	66.19	155.4
#1	.0030	-.0101	-.0002	.0002	.0026	.0360	.0004	.0003
#2	.0016	.0194	-.0017	.0017	.0002	.0325	.0016	-.0002
#3	.0012	.0367	-.0003	-.0028	.0008	.0356	.0023	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 8/13/2025 16:16:32 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	.0015	.0003	.0005	-.0009	.0002	-.0017
Stddev	.0019	.0005	.0001	.0003	.0005	.0001	.0072
%RSD	92.33	34.76	16.60	70.96	58.85	40.86	408.8
#1	.0042	.0020	.0003	.0005	-.0014	.0002	.0046
#2	.0009	.0010	.0004	.0008	-.0010	.0001	-.0003
#3	.0010	.0017	.0003	.0001	-.0003	.0002	-.0095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	724.39	11041.	119290.	4517.6
Stddev	8.82	40.	304.	99.3
%RSD	1.2181	.36183	.25487	2.1982
#1	734.57	11086.	119240.	4536.5
#2	718.98	11026.	119620.	4606.1
#3	719.61	11011.	119020.	4410.2

Sample Name: 620-28500-H-2-B Acquired: 8/13/2025 16:22:31 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0027**	**-.0026**	**.0125**	**.0148**	**.0020**	**.00030**	**22.02**	**.00018**
Stddev	.0007	.0013	.0014	.0010	.0010	.00031	.24	.00019
%RSD	26.16	50.25	11.10	6.625	50.84	103.28	1.092	107.97
#1	-.0029	-.0014	.0109	.0159	.0027	.00065	22.12	.00039
#2	-.0020	-.0024	.0135	.0144	.0024	.00020	22.19	.00011
#3	-.0034	-.0041	.0130	.0140	.0008	.00005	21.74	.00003

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0009**	**.0348**	**.0008**	**5.293**	**.0030**	**4.811**	**.0004**
Stddev	.0004	.0006	.0029	.0050	.017	.0020	.022	.0004
%RSD	264.1	67.10	8.276	597.7	.3218	66.98	.4519	99.69
#1	.0005	-.0002	.0377	.0045	5.313	.0007	4.789	.0009
#2	.0002	-.0014	.0347	.0028	5.282	.0042	4.813	.0003
#3	-.0003	-.0011	.0320	-.0048	5.285	.0042	4.832	.0001

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**41.79**	**.0132**	**.0132**	**.0029**	**23.69**	**.0023**	**-.0028**
Stddev	.0004	.54	.0003	.0003	.0007	.09	.0026	.0010
%RSD	31.02	1.298	2.580	2.616	22.62	.3795	111.5	37.12
#1	.0019	42.19	.0136	.0132	.0034	23.59	.0031	-.0039
#2	.0011	42.02	.0129	.0129	.0022	23.73	-.0006	-.0018
#3	.0012	41.17	.0133	.0135	.0032	23.76	.0045	-.0027

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.977**	**-.0009**	**.1150**	**.0000**	**-.0003**	**.0002**	**-.0041**
Stddev	.026	.0014	.0000	.0003	.0009	.0003	.0087
%RSD	.3795	156.1	.0087	2505.	346.0	169.2	215.2
#1	6.948	.0007	.1150	.0003	.0002	.0004	.0043
#2	6.984	-.0018	.1150	.0001	-.0013	.0003	-.0033
#3	7.000	-.0016	.1150	-.0004	.0003	-.0002	-.0131

Sample Name: 620-28500-H-2-B Acquired: 8/13/2025 16:22:31 Type: Unk
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	701.51	10942.	117630.	4506.0
Stddev	8.98	21.	428.	63.2
%RSD	1.2805	.19082	.36417	1.4028
#1	711.88	10965.	118080.	4448.3
#2	696.11	10924.	117220.	4496.2
#3	696.54	10937.	117580.	4573.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.393%	94.004%	93.628%	96.111%
Range				

Sample Name: CCV 158349 Acquired: 8/13/2025 16:52:18 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.012**	**10.18**	**4.961**	**5.048**	**4.776**	**5.1261**	**9.891**	**4.9620**
Stddev	.002	.02	.002	.008	.014	.0202	.058	.0032
%RSD	.2399	.2404	.0412	.1650	.2933	.39379	.5854	.06447
#1	1.010	10.15	4.962	5.038	4.773	5.1045	9.825	4.9618
#2	1.014	10.19	4.958	5.051	4.763	5.1294	9.917	4.9589
#3	1.011	10.19	4.962	5.054	4.791	5.1444	9.932	4.9653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.016**	**4.789**	**5.130**	W **9.487**	**9.645**	**5.037**	**9.782**	**5.101**
Stddev	.003	.021	.036	.068	.089	.023	.028	.043
%RSD	.0612	.4326	.7065	.7206	.9267	.4492	.2846	.8485
#1	5.014	4.800	5.101	9.459	9.598	5.022	9.770	5.072
#2	5.014	4.802	5.171	9.436	9.589	5.026	9.762	5.151
#3	5.019	4.765	5.119	9.564	9.748	5.063	9.813	5.079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				10.00				
Range				-5.000%				

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.071**	**9.735**	**5.110**	**5.036**	**5.028**	**5.067**	**5.065**	**5.017**
Stddev	.005	.041	.010	.004	.008	.012	.013	.003
%RSD	.1010	.4242	.1932	.0740	.1567	.2444	.2521	.0625
#1	5.066	9.699	5.101	5.038	5.024	5.075	5.053	5.020
#2	5.075	9.727	5.120	5.032	5.037	5.073	5.078	5.018
#3	5.073	9.780	5.107	5.039	5.023	5.053	5.065	5.014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV 158349 Acquired: 8/13/2025 16:52:18 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.827**	**5.036**	**4.954**	**5.084**	**4.975**	**5.001**	**5.242**
Stddev	.055	.002	.017	.008	.004	.014	.019
%RSD	.5636	.0365	.3379	.1541	.0709	.2699	.3693
#1	9.766	5.034	4.943	5.076	4.971	4.985	5.227
#2	9.842	5.036	4.946	5.092	4.977	5.009	5.264
#3	9.874	5.037	4.973	5.086	4.977	5.008	5.236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**654.34**	**10583.**	**115700.**	**4362.1**
Stddev	1.12	21.	371.	42.6
%RSD	.17065	.20104	.32062	.97715
#1	653.08	10559.	115980.	4395.8
#2	655.21	10589.	115280.	4376.2
#3	654.73	10600.	115850.	4314.2

Sample Name: CCB Acquired: 8/13/2025 16:58:11 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Ag3280	Al3961-L	As1890	B_2088	Ba4554	Be3130	Ca3158	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**-.0017**	**.0012**	**.0150**	**.0003**	**.00027**	**.0122**	**.00031**
Stddev	.0011	.0006	.0016	.0027	.0003	.00002	.0271	.00004
%RSD	124.1	35.05	136.5	18.12	109.8	7.5991	222.0	12.928
#1	.0016	-.0011	-.0002	.0181	.0007	.00029	.0429	.00032
#2	.0015	-.0023	.0029	.0136	.0001	.00027	-.0081	.00026
#3	-.0004	-.0016	.0008	.0132	.0001	.00025	.0017	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2835	Cu3247	Fe2404	K_7664	Li6707	Mg2852	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0011**	**-.0007**	**.0014**	**.1557**	**.0012**	**-.0017**	**.0002**
Stddev	.0000	.0037	.0056	.0051	.0530	.0027	.0008	.0001
%RSD	19.45	322.2	841.9	365.3	34.06	215.4	48.72	42.20
#1	.0002	.0001	.0007	-.0044	.1846	.0032	-.0008	.0003
#2	.0002	.0052	.0041	.0034	.1879	.0024	-.0020	.0001
#3	.0003	-.0019	-.0068	.0051	.0945	-.0018	-.0024	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025**	**.0587**	**-.0007**	**-.0003**	**.0013**	**.0084**	**-.0002**	**-.0008**
Stddev	.0008	.0625	.0003	.0018	.0011	.0007	.0007	.0028
%RSD	32.97	106.6	40.48	575.6	81.50	8.458	461.7	359.9
#1	.0034	.1305	-.0004	.0004	.0023	.0090	.0006	.0008
#2	.0024	.0163	-.0009	.0010	.0002	.0076	-.0008	.0009
#3	.0017	.0292	-.0007	-.0024	.0015	.0085	-.0003	-.0040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 8/13/2025 16:58:11 Type: QC
Method: 20240718_NewIntStd(v103) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0019	.0006	.0005	-.0002	-.0002	-.0065
Stddev	.0012	.0005	.0006	.0001	.0013	.0002	.0026
%RSD	163.3	27.57	106.1	20.96	598.0	96.17	40.58
#1	-.0001	.0025	.0013	.0006	-.0005	-.0000	-.0076
#2	.0020	.0015	.0003	.0005	-.0014	-.0002	-.0035
#3	.0002	.0017	.0002	.0004	.0012	-.0004	-.0084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	739.40	11223.	121520.	4561.6
Stddev	6.56	9.	540.	63.1
%RSD	.88738	.08141	.44458	1.3843
#1	743.32	11232.	121070.	4630.0
#2	731.83	11214.	121370.	4505.6
#3	743.05	11224.	122120.	4549.0

METALS BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Batch Number: 51922 Batch Start Date: 08/11/25 17:03 Batch Analyst: Costa, Samuel R

Batch Method: 3005A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	Initial pH	InitialAmount	FinalAmount	MT_ICP_SPIKE 00130		
MB 620-51922/1		3005A, 6010D			7 SU	50 mL	50 mL			
LCS 620-51922/2		3005A, 6010D			7 SU	50 mL	50 mL	3 mL		
620-28471-A-1 DU		3005A, 6010D		T	<2 SU	50 mL	50 mL			
620-28471-A-1 MS		3005A, 6010D		T	<2 SU	50 mL	50 mL	3 mL		
620-28495-M-2	MW-100B/250811	3005A, 6010D	Water	T	<2 SU	50 mL	50 mL			
620-28495-M-3	MW-100E/250811	3005A, 6010D	Water	T	<2 SU	50 mL	50 mL			
620-28495-M-4	FB/250811	3005A, 6010D	Water	T	<2 SU	50 mL	50 mL			
MB 620-51971/1-A		3005A, 6010D			<2 SU	50 mL	50 mL			
620-28495-L-2-A	MW-100B/250811	3005A, 6010D	Water	D	<2 SU	50 mL	50 mL			
620-28495-L-3-A	MW-100E/250811	3005A, 6010D	Water	D	<2 SU	50 mL	50 mL			
620-28495-L-4-A	FB/250811	3005A, 6010D	Water	D	<2 SU	50 mL	50 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28495-1

SDG No.:

Batch Number: 51922 Batch Start Date: 08/11/25 17:03 Batch Analyst: Costa, Samuel R

Batch Method: 3005A Batch End Date:

Batch Notes	
pH Indicator ID	410503
Digestion Tube/Cup ID	627911
Pipette/Syringe/Dispenser ID	sb6
Analyst ID - Spike Analyst	way5
Analyst ID - Spike Witness Analyst	ybf9
Sufficient Volume for Batch QC	50
Hydrochloric Acid ID	628206
Nitric Acid ID	628203
Digestion Unit ID	hb1
Thermometer ID	6413
Temperature - Uncorrected - Start	90 Degrees C
Temperature - Corrected - Start	90 Degrees C
Digestion Start Time	08/12/2025 18:31
Digestion End Time	08/13/2025 05:15
Temperature - Uncorrected - End	90 Degrees C
Temperature - Corrected - End	90 Degrees C

Basis	Basis Description
T	Total/NA
D	Dissolved

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 Lancaster Laboratories Environment Testing, LLC Job Number: 620-28495-1

SDG No.:

Project: ESCO Steel Treaters Project

Client Sample ID	Lab Sample ID
MW-100B/250811	620-28495-2
MW-100E/250811	620-28495-3
FB/250811	620-28495-4

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-100B/250811 | Lab Sample ID: 620-28495-2

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 620-28495-1

SDG ID.:

Matrix: Water | Date Sampled: 08/11/2025 13:00

Reporting Basis: WET | Date Received: 08/12/2025 11:07

Preparation Batch Number: | Instrument ID: 19153

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Total Alkalinity	127	8.0	2.6	mg/L			1	2320B-2011

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-100E/250811
Lab Sample ID: 620-28495-3
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1
SDG ID.:
Matrix: Water
Date Sampled: 08/11/2025 15:05
Reporting Basis: WET
Date Received: 08/12/2025 11:07
Preparation Batch Number:
Instrument ID: 19153

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Total Alkalinity	101	8.0	2.6	mg/L			1	2320B-2011
7440-44-0	Total Organic Carbon	9.6	1.0	0.50	mg/L			1	5310 C-2014
	Total Inorganic Carbon	10.7	2.0	0.60	mg/L			1	5310 C-2014

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: FB/250811
Lab Sample ID: 620-28495-4
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28495-1
SDG ID.:
Matrix: Water
Date Sampled: 08/11/2025 15:15
Reporting Basis: WET
Date Received: 08/12/2025 11:07
Preparation Batch Number:
Instrument ID: 19153

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Total Alkalinity	8.0	8.0	2.6	mg/L	U		1	2320B-2011
7440-44-0	Total Organic Carbon	1.0	1.0	0.50	mg/L	U		1	5310 C-2014
	Total Inorganic Carbon	2.0	2.0	0.60	mg/L	U		1	5310 C-2014

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Analyst: DI9Q Batch Start Date: 08/13/2025

Reporting Units: mg/L Analytical Batch No.: 685556

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
3	CCV	18:05	Total Alkalinity	86.31	94.0	92	90-110		WC_Alk_LCS_00027
4	CCB	18:10	Total Alkalinity	8.0				U	
16	CCV	19:12	Total Alkalinity	84.27	94.0	90	90-110		WC_Alk_LCS_00027
17	CCB	19:16	Total Alkalinity	8.0				U	
27	CCV	19:56	Total Alkalinity	86.01	94.0	91	90-110		WC_Alk_LCS_00027
28	CCB	20:01	Total Alkalinity	8.0				U	
38	CCV	21:03	Total Alkalinity	87.48	94.0	93	90-110		WC_Alk_LCS_00027
39	CCB	21:08	Total Alkalinity	8.0				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 Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Analyst: P684 Batch Start Date: 08/15/2025

Reporting Units: mg/L Analytical Batch No.: 686490

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
28	CCVL	05:44	Total Organic Carbon	4.56	5.00	91			WC_TOC_QC_STD_00074
62	CCV	17:03	Total Organic Carbon	25.47	25.0	102	85-115		WC_TOC_QC_STD_00074
63	CCB	17:23	Total Organic Carbon	1.0				U	
74	CCVL	21:01	Total Organic Carbon	4.33	5.00	87			WC_TOC_QC_STD_00074
75	CCB	21:21	Total Organic Carbon	1.0				U	
84	CCV	00:18	Total Organic Carbon	25.33	25.0	101	85-115		WC_TOC_QC_STD_00074
85	CCB	00:38	Total Organic Carbon	1.0				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 Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Analyst: P684 Batch Start Date: 08/19/2025

Reporting Units: mg/L Analytical Batch No.: 688232

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
4	CCV	20:38	Total Organic Carbon	46.97	50.0	94	85-115		WC_TOC_QC_STD_00075
5	CCB	20:58	Total Organic Carbon	1.0				U	
16	CCV	00:37	Total Organic Carbon	23.41	25.0	94	85-115		WC_TOC_QC_STD_00075
17	CCB	00:57	Total Organic Carbon	1.0				U	
28	CCVL	04:35	Total Organic Carbon	4.80	5.00	96			WC_TOC_QC_STD_00075

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 Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 685556 Date: 08/13/2025 18:14							
2320B-2011	MB 410-685556/5	Total Alkalinity	8.0	U	mg/L	8.0	1
Batch ID: 686490 Date: 08/15/2025 19:21							
5310 C-2014	MB 410-686490/69	Total Organic Carbon	1.0	U	mg/L	1.0	1
Batch ID: 688232 Date: 08/19/2025 21:37							
5310 C-2014	MB 410-688232/7	Total Organic Carbon	1.0	U	mg/L	1.0	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 685556 Date: 08/13/2025 18:47											
2320B-2011	410-235979-K-1	Total Alkalinity	217		mg/L						
2320B-2011	410-235979-K-1 MS	Total Alkalinity	396.6		mg/L	189	95	80-110			
Batch ID: 686490 Date: 08/15/2025 20:21											
5310 C-2014	410-234924-D-4	Total Organic Carbon	3.6		mg/L						
5310 C-2014	410-234924-D-4 MS	Total Organic Carbon	12.82		mg/L	10.0	92	90-110			
Batch ID: 688232 Date: 08/19/2025 22:38											
5310 C-2014	620-28495-3	Total Organic Carbon	9.6		mg/L						
5310 C-2014	620-28495-3 MS	Total Organic Carbon	19.73		mg/L	10.0	101	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 685556 Date: 08/13/2025 18:54								
2320B-2011		410-235979-F-1	Total Alkalinity	217	mg/L			
2320B-2011		410-235979-F-1 DU	Total Alkalinity	218.2	mg/L	0.4	10	
Batch ID: 686490 Date: 08/15/2025 20:02								
5310 C-2014		410-234924-D-4	Total Organic Carbon	3.6	mg/L			
5310 C-2014		410-234924-D-4 DU	Total Organic Carbon	3.99	mg/L	10	15	
Batch ID: 688232 Date: 08/19/2025 22:18								
5310 C-2014	MW-100E/250811	620-28495-3	Total Organic Carbon	9.6	mg/L			
5310 C-2014	MW-100E/250811	620-28495-3 DU	Total Organic Carbon	9.77	mg/L	2	15	

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 Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 685556 Date: 08/13/2025 18:27											
						LCS Source: WC_Alk_LCS_00025					
2320B-2011	LCS 410-685556/8	Total Alkalinity	169.6		mg/L	189	90	80-110	1	10	
Batch ID: 686490 Date: 08/15/2025 19:02											
						LCS Source: WC_TOC_QC_STD_00074					
5310C-2014	LCS 410-686490/68	Total Organic Carbon	51.02		mg/L	50.0	102	90-110			
Batch ID: 688232 Date: 08/19/2025 21:18											
						LCS Source: WC_TOC_QC_STD_00075					
5310C-2014	LCS 410-688232/6	Total Organic Carbon	47.15		mg/L	50.0	94	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 685556 Date: 08/13/2025 18:34											
						LCSD Source: WC_Alk_LCS_00025					
2320B-2011	LCSD 410-685556/9	Total Alkalinity	171.9		mg/L	189	91	80-110	1	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
METHOD REPORTING LIMIT CHECK
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 686490 Date: 08/14/2025 20:30											
						LCS Source: WC_TOC_QC_STD_00074					
5310 C-2014	MRL 410-686490/1	Total Organic Carbon	1.09		mg/L	1.00	109	50-150			
Batch ID: 688232 Date: 08/19/2025 19:19											
						LCS Source: WC_TOC_QC_STD_00075					
5310 C-2014	MRL 410-688232/1	Total Organic Carbon	0.939	J	mg/L	1.00	94	50-150			

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 Lancaster Laboratories Environment Testing, LLC Job Number: 620-28495-1

SDG Number:

Matrix: Water Instrument ID: 19153

Method: 2320B-2011 MDL Date: 06/03/2019 10:35

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Alkalinity		8	2.6

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 620-28495-1

SDG Number:

Matrix: Water Instrument ID: 19153

Method: 2320B-2011 XMDL Date: 06/03/2019 08:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Alkalinity		8	2.6

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 620-28495-1

SDG Number:

Matrix: Water Instrument ID: 8742

Method: 5310 C-2014 MDL Date: 11/29/2018 18:05

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Organic Carbon		1	0.5

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 620-28495-1

SDG Number:

Matrix: Water Instrument ID: 8742

Method: 5310 C-2014 XMDL Date: 11/21/2018 10:17

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Organic Carbon		1	0.5

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 620-28495-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 5310 C-2014 MDL Date: 11/29/2018 18:05

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Inorganic Carbon		2	0.6

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 620-28495-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 5310 C-2014 XMDL Date: 11/21/2018 10:17

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Inorganic Carbon		2	0.6

11-IN
LINEAR RANGES
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No: 620-28495-1

SDG No.:

Instrument ID: 8742 Date: 11/20/2023 16:41

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Total Organic Carbon		100	5310 C-2014

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Instrument ID: 19153 Method: 2320B-2011

Start Date: 08/13/2025 17:55 End Date: 08/14/2025 11:18

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			17:55																				
ZZZZZZ			17:59																				
CCV 410-685556/3	1		18:05	X																			
CCB 410-685556/4	1		18:10	X																			
MB 410-685556/5	1	T	18:14	X																			
ZZZZZZ			18:17																				
ZZZZZZ			18:21																				
LCS 410-685556/8	1	T	18:27	X																			
LCSD 410-685556/9	1	T	18:34	X																			
ZZZZZZ (Client)			18:41																				
410-235979-K-1 MS	1	T	18:47	X																			
410-235979-F-1 DU	1	T	18:54	X																			
ZZZZZZ (Client)			18:58																				
ZZZZZZ (Client)			19:02																				
ZZZZZZ			19:05																				
CCV 410-685556/16	1		19:12	X																			
CCB 410-685556/17	1		19:16	X																			
ZZZZZZ (Client)			19:20																				
ZZZZZZ (Client)			19:24																				
ZZZZZZ (Client)			19:27																				
ZZZZZZ (Client)			19:31																				
ZZZZZZ (Client)			19:35																				
ZZZZZZ (Client)			19:38																				
ZZZZZZ (Client)			19:42																				
ZZZZZZ (Client)			19:46																				
ZZZZZZ			19:50																				
CCV 410-685556/27	1		19:56	X																			
CCB 410-685556/28	1		20:01	X																			
620-28495-4	1	T	20:06	X																			
ZZZZZZ (Client)			20:13																				
620-28495-3	1	T	20:20	X																			
620-28495-2	1	T	20:27	X																			
ZZZZZZ (Client)			20:34																				
ZZZZZZ (Client)			20:40																				
ZZZZZZ (Client)			20:46																				
ZZZZZZ (Client)			20:53																				
ZZZZZZ			20:57																				
CCV 410-685556/38	1		21:03	X																			
CCB 410-685556/39	1		21:08	X																			
ZZZZZZ (QC)			21:12																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Instrument ID: 19153 Method: 2320B-2011

Start Date: 08/13/2025 17:55 End Date: 08/14/2025 11:18

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ (QC)			21:20																				
ZZZZZZ (QC)			21:28																				
ZZZZZZ (Client)			21:35																				
ZZZZZZ (QC)			21:44																				
ZZZZZZ (QC)			21:51																				
ZZZZZZ (Client)			21:59																				
ZZZZZZ (Client)			22:06																				
ZZZZZZ (Client)			22:15																				
ZZZZZZ (Client)			22:22																				
CCV 410-685556/50			22:29																				
CCB 410-685556/51			22:34																				
ZZZZZZ (Client)			22:43																				
ZZZZZZ (Client)			22:49																				
ZZZZZZ (Client)			22:57																				
ZZZZZZ (Client)			23:05																				
ZZZZZZ (Client)			23:11																				
ZZZZZZ (Client)			23:18																				
ZZZZZZ (Client)			23:24																				
ZZZZZZ (Client)			23:31																				
ZZZZZZ (Client)			23:37																				
ZZZZZZ (Client)			23:43																				
CCV 410-685556/62			23:50																				
CCB 410-685556/63			23:55																				
ZZZZZZ (Client)			00:01																				
ZZZZZZ (Client)			00:08																				
ZZZZZZ (Client)			00:15																				
ZZZZZZ (Client)			00:21																				
ZZZZZZ (Client)			00:28																				
ZZZZZZ			00:32																				
CCV 410-685556/70			00:38																				
CCB 410-685556/71			00:43																				
ZZZZZZ (QC)			00:48																				
ZZZZZZ			00:52																				
ZZZZZZ			00:55																				
ZZZZZZ (QC)			01:02																				
ZZZZZZ (QC)			01:09																				
ZZZZZZ (Client)			01:16																				
ZZZZZZ (QC)			01:25																				
ZZZZZZ (QC)			01:32																				
ZZZZZZ (Client)			01:38																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Instrument ID: 19153 Method: 2320B-2011

Start Date: 08/13/2025 17:55 End Date: 08/14/2025 11:18

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ (Client)			01:44																				
ZZZZZZ			01:48																				
CCV 410-685556/83			01:55																				
CCB 410-685556/84			02:00																				
ZZZZZZ (Client)			02:07																				
ZZZZZZ (Client)			02:13																				
ZZZZZZ (Client)			02:20																				
ZZZZZZ (Client)			02:26																				
ZZZZZZ (Client)			02:33																				
ZZZZZZ (Client)			02:39																				
ZZZZZZ (Client)			02:45																				
ZZZZZZ (Client)			02:51																				
ZZZZZZ (Client)			02:57																				
ZZZZZZ (Client)			03:03																				
ZZZZZZ			03:07																				
CCV 410-685556/96			03:15																				
CCB 410-685556/97			03:20																				
ZZZZZZ (Client)			03:26																				
ZZZZZZ (Client)			03:32																				
ZZZZZZ (Client)			03:38																				
ZZZZZZ (Client)			03:45																				
ZZZZZZ (Client)			03:51																				
ZZZZZZ (Client)			03:58																				
ZZZZZZ (Client)			04:05																				
ZZZZZZ			04:09																				
CCV 410-685556/106			04:16																				
CCB 410-685556/107			04:21																				
ZZZZZZ (QC)			04:26																				
ZZZZZZ			04:29																				
ZZZZZZ			04:33																				
ZZZZZZ (QC)			04:39																				
ZZZZZZ (QC)			04:46																				
ZZZZZZ (Client)			04:52																				
ZZZZZZ (QC)			04:58																				
ZZZZZZ (QC)			05:05																				
ZZZZZZ (Client)			05:12																				
ZZZZZZ (Client)			05:19																				
ZZZZZZ (Client)			05:26																				
ZZZZZZ (Client)			05:32																				
ZZZZZZ			05:36																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Instrument ID: 19153 Method: 2320B-2011

Start Date: 08/13/2025 17:55 End Date: 08/14/2025 11:18

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
CCV 410-685556/121			05:43																				
CCB 410-685556/122			05:48																				
ZZZZZZ (Client)			05:55																				
ZZZZZZ (Client)			06:02																				
ZZZZZZ (Client)			06:09																				
ZZZZZZ (Client)			06:17																				
ZZZZZZ (Client)			06:24																				
ZZZZZZ (Client)			06:32																				
ZZZZZZ (Client)			06:38																				
ZZZZZZ (Client)			06:45																				
ZZZZZZ (Client)			06:54																				
ZZZZZZ (Client)			07:02																				
ZZZZZZ			07:06																				
CCV 410-685556/134			07:12																				
CCB 410-685556/135			07:18																				
ZZZZZZ (Client)			07:26																				
ZZZZZZ (Client)			07:33																				
ZZZZZZ (Client)			07:42																				
ZZZZZZ (Client)			07:49																				
ZZZZZZ			07:53																				
CCV 410-685556/141			08:00																				
CCB 410-685556/142			08:05																				
ZZZZZZ (QC)			08:10																				
ZZZZZZ			08:14																				
ZZZZZZ			08:17																				
ZZZZZZ (QC)			08:24																				
ZZZZZZ (QC)			08:31																				
ZZZZZZ (Client)			08:38																				
ZZZZZZ (Client)			08:47																				
ZZZZZZ (Client)			08:55																				
ZZZZZZ (Client)			09:07																				
ZZZZZZ (Client)			09:17																				
ZZZZZZ			09:21																				
CCV 410-685556/154			09:28																				
CCB 410-685556/155			09:33																				
ZZZZZZ (Client)			09:39																				
ZZZZZZ (Client)			09:45																				
ZZZZZZ (Client)			09:51																				
ZZZZZZ (Client)			09:57																				
ZZZZZZ (Client)			10:04																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Instrument ID: 19153 Method: 2320B-2011

Start Date: 08/13/2025 17:55 End Date: 08/14/2025 11:18

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ (Client)			10:10																				
ZZZZZZ (Client)			10:16																				
ZZZZZZ (Client)			10:22																				
ZZZZZZ (Client)			10:28																				
ZZZZZZ (Client)			10:34																				
ZZZZZZ			10:38																				
CCV 410-685556/167			10:45																				
CCB 410-685556/168			10:51																				
ZZZZZZ (Client)			10:57																				
ZZZZZZ (Client)			11:02																				
ZZZZZZ			11:06																				
CCV 410-685556/172			11:12																				
CCB 410-685556/173			11:18																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Instrument ID: 8742 Method: 5310 C-2014

Start Date: 08/14/2025 20:30 End Date: 08/16/2025 00:38

Lab Sample ID	D / F	Type	Time	Analytes																			
				TOC																			
MRL 410-686490/1	1	T	20:30	X																			
ZZZZZZ (Client)			20:51																				
ZZZZZZ			21:10																				
CCV 410-686490/4			21:49																				
CCB 410-686490/5			22:09																				
ZZZZZZ (QC)			22:30																				
ZZZZZZ (QC)			22:49																				
ZZZZZZ (Client)			23:08																				
ZZZZZZ (QC)			23:28																				
ZZZZZZ (QC)			23:47																				
ZZZZZZ (Client)			00:09																				
ZZZZZZ (Client)			00:28																				
ZZZZZZ (Client)			00:47																				
ZZZZZZ (Client)			01:07																				
ZZZZZZ (Client)			01:26																				
CCV 410-686490/16			01:46																				
CCB 410-686490/17			02:06																				
ZZZZZZ (Client)			02:26																				
ZZZZZZ (Client)			02:46																				
ZZZZZZ (Client)			03:05																				
ZZZZZZ (Client)			03:26																				
ZZZZZZ (Client)			03:44																				
ZZZZZZ (QC)			04:04																				
ZZZZZZ (QC)			04:24																				
ZZZZZZ (Client)			04:45																				
ZZZZZZ (Client)			05:05																				
ZZZZZZ (Client)			05:25																				
CCVL 410-686490/28	1		05:44	X																			
CCB 410-686490/29			06:04																				
ZZZZZZ (Client)			06:25																				
ZZZZZZ (Client)			06:46																				
ZZZZZZ (Client)			07:05																				
ZZZZZZ (Client)			07:24																				
ZZZZZZ (Client)			07:44																				
ZZZZZZ (Client)			08:04																				
ZZZZZZ (QC)			08:24																				
ZZZZZZ (QC)			08:44																				
CCV 410-686490/38			09:04																				
CCB 410-686490/39			09:24																				
ZZZZZZ (Client)			09:43																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Instrument ID: 8742 Method: 5310 C-2014

Start Date: 08/14/2025 20:30 End Date: 08/16/2025 00:38

Lab Sample ID	D / F	Type	Time	Analytes																			
				TOC																			
ZZZZZZ (QC)			10:03																				
ZZZZZZ (QC)			10:23																				
ZZZZZZ (Client)			10:43																				
ZZZZZZ (Client)			11:03																				
ZZZZZZ (Client)			11:22																				
ZZZZZZ (Client)			11:42																				
ZZZZZZ (Client)			12:02																				
ZZZZZZ (Client)			12:21																				
ZZZZZZ (Client)			12:41																				
CCV 410-686490/50			13:02																				
CCB 410-686490/51			13:21																				
ZZZZZZ (Client)			13:42																				
ZZZZZZ (Client)			14:02																				
ZZZZZZ (Client)			14:23																				
ZZZZZZ (QC)			14:43																				
ZZZZZZ (QC)			15:04																				
ZZZZZZ (Client)			15:23																				
ZZZZZZ (Client)			15:43																				
ZZZZZZ (Client)			16:03																				
ZZZZZZ (Client)			16:23																				
ZZZZZZ (Client)			16:43																				
CCV 410-686490/62	1		17:03	X																			
CCB 410-686490/63	1		17:23	X																			
ZZZZZZ (Client)			17:42																				
ZZZZZZ (Client)			18:02																				
ZZZZZZ (Client)			18:21																				
ZZZZZZ (Client)			18:41																				
LCS 410-686490/68	1	T	19:02	X																			
MB 410-686490/69	1	T	19:21	X																			
ZZZZZZ (Client)			19:41																				
410-234924-D-4 DU	1	T	20:02	X																			
410-234924-D-4 MS	1	T	20:21	X																			
ZZZZZZ (Client)			20:42																				
CCVL 410-686490/74	1		21:01	X																			
CCB 410-686490/75	1		21:21	X																			
ZZZZZZ (Client)			21:40																				
ZZZZZZ (Client)			22:00																				
ZZZZZZ (Client)			22:19																				
620-28495-4	1	T	22:39	X																			
ZZZZZZ (Client)			22:59																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Instrument ID: 8742 Method: 5310 C-2014

Start Date: 08/14/2025 20:30 End Date: 08/16/2025 00:38

Lab Sample ID	D / F	Type	Time	Analytes																			
				TOC																			
ZZZZZZ (Client)			23:18																				
ZZZZZZ (Client)			23:38																				
ZZZZZZ (Client)			23:58																				
CCV 410-686490/84	1		00:18	X																			
CCB 410-686490/85	1		00:38	X																			

Prep Types

T = Total/NA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Instrument ID: 8742 Method: 5310 C-2014

Start Date: 08/19/2025 19:19 End Date: 08/20/2025 13:52

Lab Sample ID	D / F	Type	Time	Analytes																			
				TOC																			
MRL 410-688232/1	1	T	19:19	X																			
ZZZZZZ (Client)			19:39																				
ZZZZZZ			19:58																				
CCV 410-688232/4	1		20:38	X																			
CCB 410-688232/5	1		20:58	X																			
LCS 410-688232/6	1	T	21:18	X																			
MB 410-688232/7	1	T	21:37	X																			
620-28495-3	1	T	21:57	X																			
620-28495-3 DU	1	T	22:18	X																			
620-28495-3 MS	1	T	22:38	X																			
ZZZZZZ (Client)			22:59																				
ZZZZZZ (Client)			23:18																				
ZZZZZZ (Client)			23:38																				
ZZZZZZ (Client)			23:58																				
ZZZZZZ (Client)			00:18																				
CCV 410-688232/16	1		00:37	X																			
CCB 410-688232/17	1		00:57	X																			
ZZZZZZ (Client)			01:17																				
ZZZZZZ (Client)			01:37																				
ZZZZZZ (Client)			01:57																				
ZZZZZZ (Client)			02:17																				
ZZZZZZ (Client)			02:36																				
ZZZZZZ (QC)			02:57																				
ZZZZZZ (QC)			03:16																				
ZZZZZZ (Client)			03:37																				
ZZZZZZ (Client)			03:56																				
ZZZZZZ (Client)			04:16																				
CCVL 410-688232/28	1		04:35	X																			
CCB 410-688232/29			04:55																				
ZZZZZZ (Client)			05:15																				
ZZZZZZ (Client)			05:35																				
ZZZZZZ (Client)			05:55																				
ZZZZZZ (Client)			06:14																				
ZZZZZZ (Client)			06:34																				
ZZZZZZ (Client)			06:53																				
ZZZZZZ (QC)			07:14																				
ZZZZZZ (QC)			07:33																				
CCV 410-688232/38			07:53																				
CCB 410-688232/39			08:13																				
ZZZZZZ (Client)			08:34																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Instrument ID: 8742 Method: 5310 C-2014

Start Date: 08/19/2025 19:19 End Date: 08/20/2025 13:52

Lab Sample ID	D / F	Type	Time	Analytes																			
				TOC																			
ZZZZZZ (QC)			08:54																				
ZZZZZZ (QC)			09:15																				
ZZZZZZ (Client)			09:34																				
ZZZZZZ (Client)			09:54																				
ZZZZZZ (Client)			10:14																				
ZZZZZZ (Client)			10:34																				
ZZZZZZ (Client)			10:54																				
ZZZZZZ (Client)			11:13																				
ZZZZZZ (Client)			11:34																				
CCV 410-688232/50			11:54																				
CCB 410-688232/51			12:13																				
ZZZZZZ (Client)			12:33																				
ZZZZZZ (Client)			12:53																				
ZZZZZZ (Client)			13:12																				
ZZZZZZ (QC)			13:32																				
ZZZZZZ (QC)			13:52																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28495-1

SDG No.:

Instrument ID: NOEQUIP Method: 5310 C-2014

Start Date: 08/19/2025 14:47 End Date: 08/20/2025 06:14

Lab Sample ID	D / F	Type	Time	Analytes																			
				TIC																			
620-28495-4	1	T	14:47	X																			
ZZZZZZ (Client)			15:08																				
620-28495-3	1	T	21:57	X																			
ZZZZZZ (Client)			22:59																				
ZZZZZZ (Client)			23:18																				
ZZZZZZ (Client)			23:38																				
ZZZZZZ (Client)			23:58																				
ZZZZZZ (Client)			00:18																				
ZZZZZZ (Client)			05:35																				
ZZZZZZ (Client)			05:55																				
ZZZZZZ (Client)			06:14																				

Prep Types
T = Total/NA

General Chemistry Raw Data Report

Job ID: 620-28495-1

Batch: 688387 **Analyst Initials: P684**

Method: 5310 C-2014 **Instrument: NONE**

Lab Sample ID: 620-28495-A-4 **Analysis Date: Aug 19, 2025 14:47**

Analyte	Detector	Dilution	Raw Result	Unit
Total Inorganic Carbon	None	1	0	mg/L

Lab Sample ID: 620-28495-A-3 **Analysis Date: Aug 19, 2025 21:57**

Analyte	Detector	Dilution	Raw Result	Unit
Total Inorganic Carbon	None	1	10.7	mg/L

MANTECH INC.

Water Analysis Report

Run Number 15351 **Order Number** 20250813-6

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb ppm	carb ppm	hydr ppm	Al4.5	Al8.3	Al4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
Tap	8/13/2025	5:55 PM	23.96	-1.00	7.78	.00	240.93	240.93	.00	.00	5.55	.00	-1.00	-1.00	148.64	-1.00	-1.00	-1.00	
ICVpH	8/13/2025	5:59 PM	23.96	-1.00	7.08	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	536.34	-1.00	-1.00	-1.00	
CCV	8/13/2025	6:05 PM	20.16	-1.00	10.08	36.51	86.31	13.30	73.01	.00	1.99	.84	-1.00	-1.00	767.36	-1.00	-1.00	-1.00	
CCB	8/13/2025	6:10 PM	23.54	-1.00	4.23	.00	-.01	-.01	.00	.00	.00	.00	.00	-1.00	1,136.28	-1.00	-1.00	-1.00	
MB	8/13/2025	6:14 PM	23.80	-1.00	4.15	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	1,403.09	-1.00	-1.00	-1.00	
LCSpH	8/13/2025	6:17 PM	23.76	-1.00	7.08	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	1,658.16	-1.00	-1.00	-1.00	
LCSDpH	8/13/2025	6:21 PM	23.31	-1.00	7.07	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	1,879.55	-1.00	-1.00	-1.00	
LCS	8/13/2025	6:27 PM	21.43	-1.00	10.36	87.03	169.58	.00	165.10	4.48	3.91	2.01	-1.00	-1.00	2,087.95	-1.00	-1.00	-1.00	
LCSD	8/13/2025	6:34 PM	22.07	-1.00	10.36	82.49	171.91	6.94	164.98	.00	3.96	1.90	-1.00	-1.00	2,439.67	-1.00	-1.00	-1.00	
410-235979-K-1	8/13/2025	6:41 PM	23.49	-1.00	7.35	.00	217.26	217.26	.00	.00	5.01	.00	-1.00	-1.00	2,856.66	-1.00	-1.00	-1.00	
410-235979-K-1	8/13/2025	6:47 PM	23.68	-1.00	9.03	64.51	396.59	267.58	129.01	.00	9.14	1.49	-1.00	-1.00	3,279.36	-1.00	-1.00	-1.00	
410-235979-F-1	8/13/2025	6:54 PM	23.64	-1.00	7.78	.00	218.18	218.18	.00	.00	5.03	.00	-1.00	-1.00	3,670.81	-1.00	-1.00	-1.00	
410-236793-I-1	8/13/2025	6:58 PM	23.86	-1.00	7.30	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	4,058.99	-1.00	-1.00	-1.00	
410-236942-W-1	8/13/2025	7:02 PM	23.88	-1.00	8.06	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	4,290.28	-1.00	-1.00	-1.00	
ccvpH	8/13/2025	7:05 PM	23.54	-1.00	7.09	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	4,521.70	-1.00	-1.00	-1.00	
CCV	8/13/2025	7:12 PM	22.64	-1.00	10.04	34.67	84.27	14.92	69.35	.00	1.94	.80	-1.00	-1.00	4,753.52	-1.00	-1.00	-1.00	
CCB	8/13/2025	7:16 PM	23.25	-1.00	4.35	.00	-.70	-.70	.00	.00	.00	.00	.02	-1.00	5,122.47	-1.00	-1.00	-1.00	
410-236887-D-2	8/13/2025	7:20 PM	23.73	-1.00	7.53	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	5,400.95	-1.00	-1.00	-1.00	
410-236887-W-1	8/13/2025	7:24 PM	23.68	-1.00	7.68	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	5,631.38	-1.00	-1.00	-1.00	
410-236649-D-1	8/13/2025	7:27 PM	23.62	-1.00	11.25	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	5,862.13	-1.00	-1.00	-1.00	
410-236946-F-1	8/13/2025	7:31 PM	23.72	-1.00	7.07	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	6,044.72	-1.00	-1.00	-1.00	
410-236855-R-1	8/13/2025	7:35 PM	23.73	-1.00	8.22	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	6,275.69	-1.00	-1.00	-1.00	
410-236855-G-2	8/13/2025	7:38 PM	23.78	-1.00	8.24	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	6,506.81	-1.00	-1.00	-1.00	
410-236977-I-3	8/13/2025	7:42 PM	23.78	-1.00	7.77	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	6,738.14	-1.00	-1.00	-1.00	
410-236977-I-1	8/13/2025	7:46 PM	23.75	-1.00	7.73	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	6,969.56	-1.00	-1.00	-1.00	
ccvpH	8/13/2025	7:50 PM	23.65	-1.00	7.11	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	7,201.27	-1.00	-1.00	-1.00	
CCV	8/13/2025	7:56 PM	23.64	-1.00	10.21	38.66	86.01	8.69	77.32	.00	1.98	.89	-1.00	-1.00	7,433.28	-1.00	-1.00	-1.00	

Run Number 15351 **Order Number** 20250813-6

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb ppm	carb ppm	hydr ppm	Al4.5	Al8.3	Al4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
CCB	8/13/2025	8:01 PM	23.80	-1.00	4.47	.00	-1.03	-1.03	.00	.00	.00	.00	.02	-1.00	7,819.42	-1.00	-1.00	-1.00	
620-28495-N-4	8/13/2025	8:06 PM	23.65	-1.00	4.29	.00	-.33	-.33	.00	.00	.00	.00	.01	-1.00	8,109.28	-1.00	-1.00	-1.00	
620-28484-N-1	8/13/2025	8:13 PM	23.56	-1.00	7.83	.00	163.30	163.30	.00	.00	3.76	.00	-1.00	-1.00	8,375.77	-1.00	-1.00	-1.00	
620-28495-N-3	8/13/2025	8:20 PM	23.59	-1.00	9.81	32.63	100.93	35.67	65.26	.00	2.33	.75	-1.00	-1.00	8,791.80	-1.00	-1.00	-1.00	
620-28495-N-2	8/13/2025	8:27 PM	23.72	-1.00	9.46	26.38	127.22	74.47	52.75	.00	2.93	.61	-1.00	-1.00	9,238.69	-1.00	-1.00	-1.00	
620-28485-N-1	8/13/2025	8:34 PM	23.62	-1.00	7.86	.00	74.57	74.57	.00	.00	1.72	.00	-1.00	-1.00	9,676.03	-1.00	-1.00	-1.00	
620-28483-N-1	8/13/2025	8:40 PM	23.76	-1.00	6.94	.00	45.17	45.17	.00	.00	1.04	.00	-1.00	-1.00	10,066.58	-1.00	-1.00	-1.00	
460-332409-J-2	8/13/2025	8:46 PM	23.86	-1.00	7.66	.00	199.05	199.05	.00	.00	4.59	.00	-1.00	-1.00	10,415.97	-1.00	-1.00	-1.00	
460-332409-J-3	8/13/2025	8:53 PM	23.84	-1.00	7.70	.00	294.01	294.01	.00	.00	6.77	.00	-1.00	-1.00	10,795.06	-1.00	-1.00	-1.00	
ccvpH	8/13/2025	8:57 PM	23.76	-1.00	7.11	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	11,193.94	-1.00	-1.00	-1.00	
CCV	8/13/2025	9:03 PM	23.68	-1.00	10.16	40.49	87.48	6.51	80.98	.00	2.02	.93	-1.00	-1.00	11,425.67	-1.00	-1.00	-1.00	
CCB	8/13/2025	9:08 PM	23.78	-1.00	4.40	.00	-.82	-.82	.00	.00	.00	.00	.02	-1.00	11,818.67	-1.00	-1.00	-1.00	
MB	8/13/2025	9:12 PM	23.70	-1.00	4.25	.00	-.15	-.15	.00	.00	.00	.00	.00	-1.00	12,097.14	-1.00	-1.00	-1.00	
LCS	8/13/2025	9:20 PM	23.60	-1.00	10.36	83.11	178.46	12.24	166.22	.00	4.11	1.92	-1.00	-1.00	12,363.86	-1.00	-1.00	-1.00	
LCSD	8/13/2025	9:28 PM	23.49	-1.00	10.35	83.29	174.88	8.29	166.59	.00	4.03	1.92	-1.00	-1.00	12,846.02	-1.00	-1.00	-1.00	
410-235950-M-1	8/13/2025	9:35 PM	23.64	-1.00	6.99	.00	503.13	503.13	.00	.00	11.59	.00	-1.00	-1.00	13,293.27	-1.00	-1.00	-1.00	
410-235950-M-1	8/13/2025	9:44 PM	23.81	-1.00	7.48	.00	671.78	671.78	.00	.00	15.48	.00	-1.00	-1.00	13,730.92	-1.00	-1.00	-1.00	
410-235950-M-1	8/13/2025	9:51 PM	23.92	-1.00	7.00	.00	508.10	508.10	.00	.00	11.71	.00	-1.00	-1.00	14,262.50	-1.00	-1.00	-1.00	
280-210961-F-3	8/13/2025	9:59 PM	23.75	-1.00	7.74	.00	539.71	539.71	.00	.00	12.44	.00	-1.00	-1.00	14,700.45	-1.00	-1.00	-1.00	
280-210961-F-2	8/13/2025	10:06 PM	23.72	-1.00	8.05	.00	331.17	331.17	.00	.00	7.63	.00	-1.00	-1.00	15,201.66	-1.00	-1.00	-1.00	
280-210961-F-1	8/13/2025	10:15 PM	23.84	-1.00	8.06	.00	421.46	421.46	.00	.00	9.71	.00	-1.00	-1.00	15,619.89	-1.00	-1.00	-1.00	
280-210961-F-5	8/13/2025	10:22 PM	23.86	-1.00	8.27	.00	460.91	460.91	.00	.00	10.62	.00	-1.00	-1.00	16,102.28	-1.00	-1.00	-1.00	
CCV	8/13/2025	10:29 PM	23.88	-1.00	10.22	38.66	87.18	9.85	77.33	.00	2.01	.89	-1.00	-1.00	16,559.45	-1.00	-1.00	-1.00	
CCB	8/13/2025	10:34 PM	23.88	-1.00	4.56	.00	-1.37	-1.37	.00	.00	.00	.00	.04	-1.00	16,996.64	-1.00	-1.00	-1.00	
280-210961-F-4	8/13/2025	10:43 PM	23.89	-1.00	8.01	.00	515.06	515.06	.00	.00	11.87	.00	-1.00	-1.00	17,286.98	-1.00	-1.00	-1.00	
280-210961-H-8	8/13/2025	10:49 PM	23.99	-1.00	7.86	.00	162.29	162.29	.00	.00	3.74	.00	-1.00	-1.00	17,788.75	-1.00	-1.00	-1.00	
280-210961-H-6	8/13/2025	10:57 PM	24.02	-1.00	8.22	.00	480.47	480.47	.00	.00	11.07	.00	-1.00	-1.00	18,177.41	-1.00	-1.00	-1.00	
280-210961-H-7	8/13/2025	11:05 PM	24.10	-1.00	7.82	.00	405.52	405.52	.00	.00	9.34	.00	-1.00	-1.00	18,635.28	-1.00	-1.00	-1.00	
280-210961-H-9	8/13/2025	11:11 PM	24.17	-1.00	7.65	.00	205.31	205.31	.00	.00	4.73	.00	-1.00	-1.00	19,108.28	-1.00	-1.00	-1.00	
280-210961-H-11	8/13/2025	11:18 PM	24.27	-1.00	8.17	.00	343.36	343.36	.00	.00	7.91	.00	-1.00	-1.00	19,487.67	-1.00	-1.00	-1.00	
280-210961-H-10	8/13/2025	11:24 PM	24.30	-1.00	7.91	.00	160.57	160.57	.00	.00	3.70	.00	-1.00	-1.00	19,906.59	-1.00	-1.00	-1.00	

Run Number 15351 **Order Number** 20250813-6

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb ppm	carb ppm	hydr ppm	Al4.5	Al8.3	Al4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
620-28508-F-2	8/13/2025	11:31 PM	24.24	-1.00	7.16	.00	249.00	249.00	.00	.00	5.74	.00	-1.00	-1.00	20,294.69	-1.00	-1.00	-1.00	
620-28508-D-1	8/13/2025	11:37 PM	24.17	-1.00	7.22	.00	154.94	154.94	.00	.00	3.57	.00	-1.00	-1.00	20,663.30	-1.00	-1.00	-1.00	
410-236183-B-1	8/13/2025	11:43 PM	23.99	-1.00	7.64	.00	61.13	61.13	.00	.00	1.41	.00	-1.00	-1.00	21,077.44	-1.00	-1.00	-1.00	
CCV	8/13/2025	11:50 PM	23.86	-1.00	10.19	38.75	88.30	10.80	77.51	.00	2.03	.89	-1.00	-1.00	21,400.31	-1.00	-1.00	-1.00	
CCB	8/13/2025	11:55 PM	23.68	-1.00	4.63	.00	-1.17	-1.17	.00	.00	.01	.00	.04	-1.00	21,847.53	-1.00	-1.00	-1.00	
410-236183-B-2	8/14/2025	12:01 AM	23.68	-1.00	7.51	.00	55.87	55.87	.00	.00	1.29	.00	-1.00	-1.00	22,149.94	-1.00	-1.00	-1.00	
460-332409-F-1	8/14/2025	12:08 AM	23.84	-1.00	7.71	.00	252.29	252.29	.00	.00	5.81	.00	-1.00	-1.00	22,519.11	-1.00	-1.00	-1.00	
10-236858-A-2^10(	8/14/2025	12:15 AM	23.97	-1.00	8.08	.00	107.49	107.49	.00	.00	2.48	.00	-1.00	-1.00	22,908.00	-1.00	-1.00	-1.00	
10-236858-A-3^10(	8/14/2025	12:21 AM	24.04	-1.00	8.01	.00	106.82	106.82	.00	.00	2.46	.00	-1.00	-1.00	23,306.91	-1.00	-1.00	-1.00	
10-236858-A-4^10(	8/14/2025	12:28 AM	24.10	-1.00	7.98	.00	104.37	104.37	.00	.00	2.40	.00	-1.00	-1.00	23,705.78	-1.00	-1.00	-1.00	
ccvpH	8/14/2025	12:32 AM	24.05	-1.00	7.10	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	24,103.73	-1.00	-1.00	-1.00	
CCV	8/14/2025	12:38 AM	23.96	-1.00	10.01	36.83	87.99	14.33	73.67	.00	2.03	.85	-1.00	-1.00	24,335.30	-1.00	-1.00	-1.00	
CCB	8/14/2025	12:43 AM	24.04	-1.00	4.55	.00	-1.12	-1.12	.00	.00	.00	.00	.03	-1.00	24,742.34	-1.00	-1.00	-1.00	
MB	8/14/2025	12:48 AM	24.02	-1.00	4.38	.00	-.73	-.73	.00	.00	.00	.00	.02	-1.00	25,032.88	-1.00	-1.00	-1.00	
LCSpH	8/14/2025	12:52 AM	24.04	-1.00	7.09	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	25,311.58	-1.00	-1.00	-1.00	
LCSDpH	8/14/2025	12:55 AM	24.00	-1.00	7.08	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	25,533.34	-1.00	-1.00	-1.00	
LCS	8/14/2025	1:02 AM	24.04	-1.00	10.18	77.91	176.43	20.61	155.82	.00	4.07	1.80	-1.00	-1.00	25,717.13	-1.00	-1.00	-1.00	
LCSD	8/14/2025	1:09 AM	24.17	-1.00	10.22	78.01	177.59	21.58	156.02	.00	4.09	1.80	-1.00	-1.00	26,173.77	-1.00	-1.00	-1.00	
410-236915-T-1	8/14/2025	1:16 AM	24.25	-1.00	7.23	.00	465.87	465.87	.00	.00	10.73	.00	-1.00	-1.00	26,563.50	-1.00	-1.00	-1.00	
410-236915-T-1	8/14/2025	1:25 AM	24.35	-1.00	7.77	.00	624.59	624.59	.00	.00	14.39	.00	-1.00	-1.00	26,992.00	-1.00	-1.00	-1.00	
410-236915-R-1	8/14/2025	1:32 AM	24.30	-1.00	7.34	.00	467.34	467.34	.00	.00	10.77	.00	-1.00	-1.00	27,514.00	-1.00	-1.00	-1.00	
410-236331-B-1-K	8/14/2025	1:38 AM	24.24	-1.00	7.55	.00	26.22	26.22	.00	.00	.60	.00	-1.00	-1.00	27,941.91	-1.00	-1.00	-1.00	
410-235964-F-1	8/14/2025	1:44 AM	24.22	-1.00	7.67	.00	73.11	73.11	.00	.00	1.68	.00	-1.00	-1.00	28,322.59	-1.00	-1.00	-1.00	
ccvpH	8/14/2025	1:48 AM	24.20	-1.00	7.11	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	28,691.44	-1.00	-1.00	-1.00	
CCV	8/14/2025	1:55 AM	24.17	-1.00	10.00	34.86	88.62	18.89	69.73	.00	2.04	.80	-1.00	-1.00	28,923.30	-1.00	-1.00	-1.00	
CCB	8/14/2025	2:00 AM	24.22	-1.00	4.63	.00	-.89	-.89	.00	.00	.01	.00	.04	-1.00	29,326.34	-1.00	-1.00	-1.00	
410-235964-F-2	8/14/2025	2:07 AM	24.22	-1.00	7.59	.00	119.63	119.63	.00	.00	2.76	.00	-1.00	-1.00	29,629.00	-1.00	-1.00	-1.00	
410-235964-F-3	8/14/2025	2:13 AM	24.27	-1.00	7.86	.00	121.32	121.32	.00	.00	2.80	.00	-1.00	-1.00	30,052.52	-1.00	-1.00	-1.00	
410-235964-F-4	8/14/2025	2:20 AM	24.32	-1.00	7.75	.00	132.93	132.93	.00	.00	3.06	.00	-1.00	-1.00	30,441.89	-1.00	-1.00	-1.00	
410-235964-F-5	8/14/2025	2:26 AM	24.32	-1.00	7.94	.00	135.25	135.25	.00	.00	3.12	.00	-1.00	-1.00	30,821.47	-1.00	-1.00	-1.00	
410-235984-I-1	8/14/2025	2:33 AM	24.07	-1.00	7.71	.00	158.34	158.34	.00	.00	3.65	.00	-1.00	-1.00	31,210.09	-1.00	-1.00	-1.00	

Run Number 15351 **Order Number** 20250813-6

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb ppm	carb ppm	hydr ppm	Al4.5	Al8.3	Al4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
410-235984-I-2	8/14/2025	2:39 AM	23.84	-1.00	7.73	.00	88.70	88.70	.00	.00	2.04	.00	-1.00	-1.00	31,588.9	-1.00	-1.00	-1.00	
410-236109-K-1	8/14/2025	2:45 AM	23.89	-1.00	7.26	.00	59.42	59.42	.00	.00	1.37	.00	-1.00	-1.00	31,967.9	-1.00	-1.00	-1.00	
410-236104-K-1	8/14/2025	2:51 AM	23.94	-1.00	7.87	.00	97.39	97.39	.00	.00	2.24	.00	-1.00	-1.00	32,317.5	-1.00	-1.00	-1.00	
410-236111-K-1	8/14/2025	2:57 AM	23.92	-1.00	7.43	.00	64.22	64.22	.00	.00	1.48	.00	-1.00	-1.00	32,706.5	-1.00	-1.00	-1.00	
410-236102-K-1	8/14/2025	3:03 AM	23.92	-1.00	7.80	.00	95.39	95.39	.00	.00	2.20	.00	-1.00	-1.00	33,056.3	-1.00	-1.00	-1.00	
ccvpH	8/14/2025	3:07 AM	23.96	-1.00	7.11	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	33,435.4	-1.00	-1.00	-1.00	
CCV	8/14/2025	3:15 AM	23.96	-1.00	9.96	33.66	88.11	20.79	67.32	.00	2.03	.78	-1.00	-1.00	33,667.7	-1.00	-1.00	-1.00	
CCB	8/14/2025	3:20 AM	24.09	-1.00	4.61	.00	-1.13	-1.13	.00	.00	.01	.00	.04	-1.00	34,115.6	-1.00	-1.00	-1.00	
410-236699-K-1	8/14/2025	3:26 AM	24.15	-1.00	7.59	.00	81.01	81.01	.00	.00	1.87	.00	-1.00	-1.00	34,418.7	-1.00	-1.00	-1.00	
410-236701-K-1	8/14/2025	3:32 AM	24.17	-1.00	7.59	.00	92.93	92.93	.00	.00	2.14	.00	-1.00	-1.00	34,787.7	-1.00	-1.00	-1.00	
410-236700-K-1	8/14/2025	3:38 AM	24.17	-1.00	7.70	.00	78.72	78.72	.00	.00	1.81	.00	-1.00	-1.00	35,156.9	-1.00	-1.00	-1.00	
410-236703-K-1	8/14/2025	3:45 AM	24.12	-1.00	7.78	.00	96.19	96.19	.00	.00	2.22	.00	-1.00	-1.00	35,536.1	-1.00	-1.00	-1.00	
410-236260-C-3	8/14/2025	3:51 AM	24.09	-1.00	7.90	.00	123.46	123.46	.00	.00	2.84	.00	-1.00	-1.00	35,915.8	-1.00	-1.00	-1.00	
410-236241-D-2	8/14/2025	3:58 AM	24.05	-1.00	8.67	33.04	451.23	385.16	66.07	.00	10.40	.76	-1.00	-1.00	36,304.9	-1.00	-1.00	-1.00	
410-236241-D-1	8/14/2025	4:05 AM	23.99	-1.00	9.53	64.48	248.77	119.82	128.95	.00	5.73	1.49	-1.00	-1.00	36,735.9	-1.00	-1.00	-1.00	
ccvpH	8/14/2025	4:09 AM	24.04	-1.00	7.11	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	37,159.4	-1.00	-1.00	-1.00	
CCV	8/14/2025	4:16 AM	23.96	-1.00	9.93	32.77	87.88	22.35	65.54	.00	2.02	.76	-1.00	-1.00	37,391.8	-1.00	-1.00	-1.00	
CCB	8/14/2025	4:21 AM	24.07	-1.00	4.72	.00	-.91	-.91	.00	.00	.01	.00	.04	-1.00	37,780.9	-1.00	-1.00	-1.00	
MB	8/14/2025	4:26 AM	24.19	-1.00	4.49	.00	-1.29	-1.29	.00	.00	.00	.00	.03	-1.00	38,084.3	-1.00	-1.00	-1.00	
LCSpH	8/14/2025	4:29 AM	24.14	-1.00	7.10	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	38,375.1	-1.00	-1.00	-1.00	
LCSDpH	8/14/2025	4:33 AM	24.07	-1.00	7.09	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	38,599.2	-1.00	-1.00	-1.00	
LCS	8/14/2025	4:39 AM	24.02	-1.00	10.10	72.25	178.18	33.68	144.50	.00	4.11	1.66	-1.00	-1.00	38,789.8	-1.00	-1.00	-1.00	
LCSD	8/14/2025	4:46 AM	24.04	-1.00	10.13	72.33	178.29	33.63	144.66	.00	4.11	1.67	-1.00	-1.00	39,188.6	-1.00	-1.00	-1.00	
410-236191-H-3	8/14/2025	4:52 AM	24.05	-1.00	7.96	.00	111.59	111.59	.00	.00	2.57	.00	-1.00	-1.00	39,578.4	-1.00	-1.00	-1.00	
410-236191-H-3	8/14/2025	4:58 AM	24.02	-1.00	9.61	60.62	232.19	110.95	121.23	.00	5.35	1.40	-1.00	-1.00	39,948.8	-1.00	-1.00	-1.00	
410-236191-H-3	8/14/2025	5:05 AM	24.07	-1.00	8.16	.00	115.81	115.81	.00	.00	2.67	.00	-1.00	-1.00	40,328.8	-1.00	-1.00	-1.00	
410-235733-U-11	8/14/2025	5:12 AM	24.12	-1.00	8.08	.00	276.29	276.29	.00	.00	6.37	.00	-1.00	-1.00	40,753.0	-1.00	-1.00	-1.00	
410-235733-U-10	8/14/2025	5:19 AM	24.15	-1.00	7.90	.00	264.53	264.53	.00	.00	6.10	.00	-1.00	-1.00	41,162.2	-1.00	-1.00	-1.00	
410-235733-U-9	8/14/2025	5:26 AM	24.30	-1.00	8.27	.00	121.25	121.25	.00	.00	2.79	.00	-1.00	-1.00	41,561.8	-1.00	-1.00	-1.00	
410-235735-U-1	8/14/2025	5:32 AM	24.27	-1.00	7.93	.00	183.10	183.10	.00	.00	4.22	.00	-1.00	-1.00	41,970.3	-1.00	-1.00	-1.00	
ccvpH	8/14/2025	5:36 AM	24.27	-1.00	7.10	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	42,359.0	-1.00	-1.00	-1.00	

Run Number 15351 **Order Number** 20250813-6

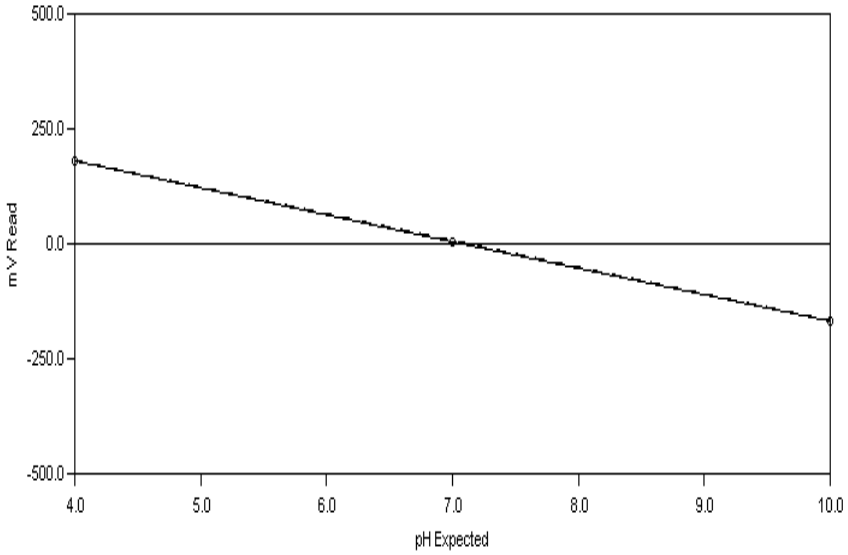
SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb ppm	carb ppm	hydr ppm	Al4.5	Al8.3	Al4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
CCV	8/14/2025	5:43 AM	24.17	-1.00	9.87	31.34	88.42	25.74	62.68	.00	2.04	.72	-1.00	-1.00	42,591.31	-1.00	-1.00	-1.00	
CCB	8/14/2025	5:48 AM	24.15	-1.00	4.77	.00	-.55	-.55	.00	.00	.02	.00	.04	-1.00	42,984.67	-1.00	-1.00	-1.00	
410-235733-U-7	8/14/2025	5:55 AM	24.15	-1.00	7.57	.00	323.88	323.88	.00	.00	7.46	.00	-1.00	-1.00	43,287.59	-1.00	-1.00	-1.00	
410-235733-U-8	8/14/2025	6:02 AM	24.15	-1.00	7.89	.00	311.95	311.95	.00	.00	7.19	.00	-1.00	-1.00	43,731.19	-1.00	-1.00	-1.00	
410-235733-U-12	8/14/2025	6:09 AM	24.15	-1.00	7.61	.00	325.49	325.49	.00	.00	7.50	.00	-1.00	-1.00	44,140.36	-1.00	-1.00	-1.00	
410-235735-U-2	8/14/2025	6:17 AM	24.20	-1.00	7.98	.00	422.67	422.67	.00	.00	9.74	.00	-1.00	-1.00	44,549.45	-1.00	-1.00	-1.00	
410-235733-U-6	8/14/2025	6:24 AM	24.25	-1.00	7.95	.00	390.07	390.07	.00	.00	8.99	.00	-1.00	-1.00	45,033.03	-1.00	-1.00	-1.00	
410-235733-U-2	8/14/2025	6:32 AM	24.34	-1.00	7.98	.00	395.08	395.08	.00	.00	9.10	.00	-1.00	-1.00	45,462.23	-1.00	-1.00	-1.00	
410-235733-U-5	8/14/2025	6:38 AM	24.34	-1.00	8.03	.00	155.72	155.72	.00	.00	3.59	.00	-1.00	-1.00	45,934.17	-1.00	-1.00	-1.00	
410-235733-U-1	8/14/2025	6:45 AM	24.25	-1.00	7.77	.00	283.14	283.14	.00	.00	6.52	.00	-1.00	-1.00	46,323.59	-1.00	-1.00	-1.00	
410-235734-L-3	8/14/2025	6:54 AM	24.22	-1.00	7.78	.00	792.25	792.25	.00	.00	18.25	.00	-1.00	-1.00	46,723.06	-1.00	-1.00	-1.00	
410-235734-L-4	8/14/2025	7:02 AM	24.24	-1.00	7.97	.00	451.99	451.99	.00	.00	10.41	.00	-1.00	-1.00	47,293.52	-1.00	-1.00	-1.00	
ccvpH	8/14/2025	7:06 AM	24.10	-1.00	7.11	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	47,731.89	-1.00	-1.00	-1.00	
CCV	8/14/2025	7:12 AM	23.92	-1.00	9.84	29.76	87.65	28.13	59.52	.00	2.02	.69	-1.00	-1.00	47,964.66	-1.00	-1.00	-1.00	
CCB	8/14/2025	7:18 AM	23.81	-1.00	4.94	.00	-.59	-.59	.00	.00	.02	.00	.05	-1.00	48,363.84	-1.00	-1.00	-1.00	
410-235734-L-2	8/14/2025	7:26 AM	23.96	-1.00	7.92	.00	478.38	478.38	.00	.00	11.02	.00	-1.00	-1.00	48,690.59	-1.00	-1.00	-1.00	
410-235733-U-4	8/14/2025	7:33 AM	24.07	-1.00	7.96	.00	401.07	401.07	.00	.00	9.24	.00	-1.00	-1.00	49,173.09	-1.00	-1.00	-1.00	
410-235734-L-1	8/14/2025	7:42 AM	24.29	-1.00	7.62	.00	751.68	751.68	.00	.00	17.32	.00	-1.00	-1.00	49,602.28	-1.00	-1.00	-1.00	
410-235733-U-3	8/14/2025	7:49 AM	24.32	-1.00	7.73	.00	420.89	420.89	.00	.00	9.70	.00	-1.00	-1.00	50,153.86	-1.00	-1.00	-1.00	
ccvpH	8/14/2025	7:53 AM	24.27	-1.00	7.11	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	50,582.42	-1.00	-1.00	-1.00	
CCV	8/14/2025	8:00 AM	24.25	-1.00	9.82	28.57	89.86	32.71	57.15	.00	2.07	.66	-1.00	-1.00	50,815.05	-1.00	-1.00	-1.00	
CCB	8/14/2025	8:05 AM	24.22	-1.00	5.07	.00	-.59	-.59	.00	.00	.02	.00	.06	-1.00	51,213.30	-1.00	-1.00	-1.00	
MB	8/14/2025	8:10 AM	24.05	-1.00	4.68	.00	-.92	-.92	.00	.00	.01	.00	.04	-1.00	51,539.89	-1.00	-1.00	-1.00	
LCSpH	8/14/2025	8:14 AM	23.92	-1.00	7.10	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	51,842.98	-1.00	-1.00	-1.00	
LCSDpH	8/14/2025	8:17 AM	23.83	-1.00	7.08	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	52,072.42	-1.00	-1.00	-1.00	
LCS	8/14/2025	8:24 AM	23.97	-1.00	10.01	67.91	177.68	41.85	135.83	.00	4.09	1.56	-1.00	-1.00	52,257.02	-1.00	-1.00	-1.00	
LCSD	8/14/2025	8:31 AM	24.22	-1.00	10.04	67.47	178.35	43.42	134.93	.00	4.11	1.55	-1.00	-1.00	52,667.86	-1.00	-1.00	-1.00	
410-235908-L-4	8/14/2025	8:38 AM	24.49	-1.00	7.43	.00	448.41	448.41	.00	.00	10.33	.00	-1.00	-1.00	53,072.22	-1.00	-1.00	-1.00	
410-235908-L-5	8/14/2025	8:47 AM	24.60	-1.00	7.78	.00	757.13	757.13	.00	.00	17.45	.00	-1.00	-1.00	53,501.00	-1.00	-1.00	-1.00	
410-235908-L-2	8/14/2025	8:55 AM	24.42	-1.00	8.45	50.70	756.35	654.94	101.40	.00	17.43	1.17	-1.00	-1.00	54,062.33	-1.00	-1.00	-1.00	
410-235908-L-1	8/14/2025	9:07 AM	24.09	-1.00	9.15	401.54	1,269.54	466.45	803.09	.00	29.25	9.25	-1.00	-1.00	54,531.09	-1.00	-1.00	-1.00	

Run Number 15351 **Order Number** 20250813-6

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb ppm	carb ppm	hydr ppm	Al4.5	Al8.3	Al4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
410-235908-L-3	8/14/2025	9:17 AM	24.12	-1.00	8.71	172.40	1,185.77	840.98	344.79	.00	27.32	3.97	-1.00	-1.00	55,235.8	-1.00	-1.00	-1.00	
ccvpH	8/14/2025	9:21 AM	24.35	-1.00	7.10	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	55,867.67	-1.00	-1.00	-1.00	
CCV	8/14/2025	9:28 AM	24.27	-1.00	9.75	28.60	90.04	32.83	57.21	.00	2.07	.66	-1.00	-1.00	56,090.47	-1.00	-1.00	-1.00	
CCB	8/14/2025	9:33 AM	24.15	-1.00	5.42	.00	-.33	-.33	.00	.00	.03	.00	.06	-1.00	56,482.42	-1.00	-1.00	-1.00	
410-235921-Q-9	8/14/2025	9:39 AM	24.07	-1.00	6.06	.00	15.61	15.61	.00	.00	.39	.00	.42	-1.00	56,821.22	-1.00	-1.00	-1.00	
410-235921-Q-22	8/14/2025	9:45 AM	24.05	-1.00	6.76	.00	22.46	22.46	.00	.00	.52	.00	-1.00	-1.00	57,154.3	-1.00	-1.00	-1.00	
410-235921-Q-17	8/14/2025	9:51 AM	24.15	-1.00	7.90	.00	111.22	111.22	.00	.00	2.56	.00	-1.00	-1.00	57,505.2	-1.00	-1.00	-1.00	
410-235921-R-5	8/14/2025	9:57 AM	24.35	-1.00	7.19	.00	81.06	81.06	.00	.00	1.87	.00	-1.00	-1.00	57,884.8	-1.00	-1.00	-1.00	
410-235921-Q-15	8/14/2025	10:04 AM	24.54	-1.00	6.53	.00	4.20	4.20	.00	.00	.12	.00	.15	-1.00	58,235.11	-1.00	-1.00	-1.00	
410-235921-Q-11	8/14/2025	10:10 AM	24.55	-1.00	7.90	.00	129.67	129.67	.00	.00	2.99	.00	-1.00	-1.00	58,667.25	-1.00	-1.00	-1.00	
410-235921-Q-19	8/14/2025	10:16 AM	24.35	-1.00	5.31	.00	-.23	-.23	.00	.00	.04	.00	.08	-1.00	59,056.8	-1.00	-1.00	-1.00	
410-235921-Q-1	8/14/2025	10:22 AM	24.25	-1.00	7.38	.00	37.55	37.55	.00	.00	.87	.00	-1.00	-1.00	59,407.23	-1.00	-1.00	-1.00	
410-235921-Q-13	8/14/2025	10:28 AM	24.19	-1.00	6.49	.00	36.46	36.46	.00	.00	.84	.00	-1.00	-1.00	59,767.6	-1.00	-1.00	-1.00	
410-235921-Q-3	8/14/2025	10:34 AM	24.19	-1.00	7.40	.00	107.76	107.76	.00	.00	2.48	.00	-1.00	-1.00	60,098.64	-1.00	-1.00	-1.00	
ccvpH	8/14/2025	10:38 AM	24.12	-1.00	7.10	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	60,478.6	-1.00	-1.00	-1.00	
CCV	8/14/2025	10:45 AM	24.12	-1.00	9.73	27.18	89.02	34.65	54.37	.00	2.05	.63	-1.00	-1.00	60,711.80	-1.00	-1.00	-1.00	
CCB	8/14/2025	10:51 AM	24.25	-1.00	5.49	.00	.00	.00	.00	.00	.03	.00	.06	-1.00	61,119.84	-1.00	-1.00	-1.00	
410-235921-Q-7	8/14/2025	10:57 AM	24.25	-1.00	6.71	.00	30.61	30.61	.00	.00	.71	.00	-1.00	-1.00	61,470.0	-1.00	-1.00	-1.00	
410-235921-Q-20	8/14/2025	11:02 AM	24.29	-1.00	6.75	.00	36.71	36.71	.00	.00	.85	.00	-1.00	-1.00	61,834.7	-1.00	-1.00	-1.00	
ccvpH	8/14/2025	11:06 AM	24.22	-1.00	7.10	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	62,155.3	-1.00	-1.00	-1.00	
CCV	8/14/2025	11:12 AM	24.17	-1.00	9.65	25.89	95.11	43.32	51.78	.00	2.19	.60	-1.00	-1.00	62,382.8	-1.00	-1.00	-1.00	
CCB	8/14/2025	11:18 AM	24.22	-1.00	5.91	.00	.42	.42	.00	.00	.04	.00	.07	-1.00	62,741.44	-1.00	-1.00	-1.00	

Calibration Report

Calibration Record # 7363



Calibration Settings

Calibration ID	PH	Date	8/13/2025	
Channel	1	Time	5:23 PM	
Probe Type	pH	Temperature	297.27 K	24.12 C
Probe ID	PH ELECTRODE	Analysis Type	Single Line Fit	

Calibration Results

Slope	-58.083	CorrCoeff	1.0000
Intercept	6.063	Equation:	Y = (-58.083) X + (6.063)

Calibration Validity **True** Operator

	Result	Minimum	Maximum
Slope	-58.083	-60.00	-54.00
Intercept	6.063	-100.00	100.00
Correlation Coefficient	1.0000	0.99	1.00

Note: "True" means the calibration was within the specified ranges
"False" means the calibration was NOT within the specified ranges

Calibration Data	Standard	Reading
	4.00	181.15
	7.00	4.39
	10.00	-167.35

Method:	5310C_TC, SM5310_TC
Analyte:	Total Carbon
Calibration Date and Time:	8/18/2025 1822
Run Name:	25230TCCALG07
Instrument:	26070
RF:	0.1493
Volume:	1
Offset/RB area	7024

Curve Type: Linear

CAL PT	Xi = True Value	Units	Area Ct	Corrected Area Ct (Area Ct - Offset/RB area)	X'I = Measured Value	Percent Error (X'i - (Xi / Xi)) x 100	Criteria	Pass/Fail
1	1	mg/L	12829	5805	0.87	-13%	50%	PASS
2	10	mg/L	74021	66997	10.00	0%	10%	PASS
3	25	mg/L	173808	166784	24.90	0%	10%	PASS
4	50	mg/L	345508	338484	50.54	1%	10%	PASS
5	75	mg/L	507037	500013	74.65	0%	10%	PASS

Calculation spreadsheet based off of NELAC Calculation Spreadsheet https://nelac-institute.org/news.php?id=2847

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Cust ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	1	METHOD BLANK	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	QC Blank	1 : 1	00000000	TC	6 297	0.000	0.000	0	0.00	
3	2	TC-RW	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	7 075	0.000	0.000	0	0.00	
4	3	TC-Std#1-1.000 PPM	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	12 829	1.000	1.000	0	0.00	
5	4	TC-Std#2-10.000 PPM	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	74 021	10.000	10.000	0	0.00	
6	5	TC-Std#3-25.000 PPM	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	173 808	25.000	25.000	0	0.00	
7	6	TC-Std#4-50.000 PPM	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	345 508	50.000	50.000	0	0.00	
8	7	TC-Std#5-75.000 PPM	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	507 037	75.000	75.000	0	0.00	
9	8	RINSE	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	7 945	0.138	0.138	0	0.00	Pass
10	9	ICV	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	176 833	25.358	25.357	0	0.00	Pass
11	10	ICB	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	6 164	0.000	0.000	0	0.00	Pass

Sample Results

Spl #: 1 **Sample ID :** METHOD BLANK **Type :** QC Blank **Date:** 08/18/2025 **Status:**
Vial #: 1 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	4:22 pm	-	-	-	6 297	0.000	0.000
		Avg.	-	-	-	6 297	0.000	0.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 3 **Sample ID :** TC-RW **Type :** Std **Date:** 08/18/2025 **Status:**
Vial #: 2 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	5:36 pm	-	-	-	7 075	0.000	0.000
		Avg.	-	-	-	7 075	0.000	0.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 4 **Sample ID :** TC-Std#1-1.000 PPM **Type :** Std **Date:** 08/18/2025 **Status:**
Vial #: 3 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	5:48 pm	-	-	-	12 829	1.000	1.000
		Avg.	-	-	-	12 829	1.000	1.000
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 By: TOC

Date Approved: By:

Spl #: 5 Sample ID : TC-Std#2-10.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 4 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	5:56 pm	-	-	-	74 021	10.000	10.000
		Avg.	-	-	-	74 021	10.000	10.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 6 Sample ID : TC-Std#3-25.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 5 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:04 pm	-	-	-	173 808	25.000	25.000
		Avg.	-	-	-	173 808	25.000	25.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 7 Sample ID : TC-Std#4-50.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 6 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:12 pm	-	-	-	345 508	50.000	50.000
		Avg.	-	-	-	345 508	50.000	50.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 8 Sample ID : TC-Std#5-75.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 7 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:22 pm	-	-	-	507 037	75.000	75.000
		Avg.	-	-	-	507 037	75.000	75.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 9 Sample ID : RINSE Type : Sample Date: 08/18/2025 Status: Pass
Vial #: 8 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:33 pm	-	-	-	7 945	0.138	0.138
		Avg.	-	-	-	7 945	0.138	0.138
		Std.Dev.						
		% RSD.				0.00		

Spl #: 10 Sample ID : ICV Type : Sample Date: 08/18/2025 Status: Pass
Vial #: 9 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:41 pm	-	-	-	176 833	25.358	25.357
		Avg.	-	-	-	176 833	25.358	25.357
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Spl #:	11	**Sample ID :**	ICB	**Type :**	Sample	**Date:**	08/18/2025	**Status:**	Pass
Vial #:	10	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:49 pm	-	-	-	6 164	0.000	0.000
		Avg.	-	-	-	6 164	0.000	0.000
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Method Summary

Method Details

Method Name:	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM
Date Created:	02/06/2024
Time Created:	6:01
Created By:	TOC

Analysis Mode: TC Only

Sparging Mode:	n/a
Pre-Acid Volume (mL):	n/a
Sparge Time (mm:ss):	n/a

Volumes

Sample Volume (mL):	1.000
Acid Volume (mL):	0.000
Persulfate Volume (mL):	2.500

Other

SysPressure:	20.00

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1

Times

	React	Detect
TIC	02:30	04:00
TOC	03:00	04:00

Temp

	React	Detect
TIC	70	70
TOC	98	98

Outlier Removal Criteria

Enabled:	No
Additional Replicates:	1
Max. % RSD.	10.00

Rinses

Rinse Volume (mL):	15.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Max. Std. Dev. 100 Use Modified Oxidant: No

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Mode

Primary Mode:	TC
User for ALL Modes:	Enabled

Calibration Pass/Fail Criteria

Parameter	Enabled	Low	High	Failure
R² (ugC/K-cts)	Yes	0.1000	0.3000	Continue
	Yes	0.950	1.000	Continue
Offset (area) (cts)	No	-	-	-
Offset (mass) (ugC)	No	-	-	-
QC Blank(cts)	No	-	-	-

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10.00	Re-run	Continue
QC #1	0.000	10.00	Re-run	Continue
QC #2	0.000	10.00	Re-run	Continue
QC #3	0.000	10.00	Re-run	Continue
QC #4	0.000	10.00	Re-run	Continue
SST	0.000	15.00	Abort	Abort

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TC
Date Calibrated:	07/25/2025
Time Calibrated:	6:39 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.5674
R2:	0.9986
R:	0.9993
QC Blank(cts):	0
Offset (cts):	6470
Offset (ugC):	-3.671
Reagent Blank (cts):	3 164
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

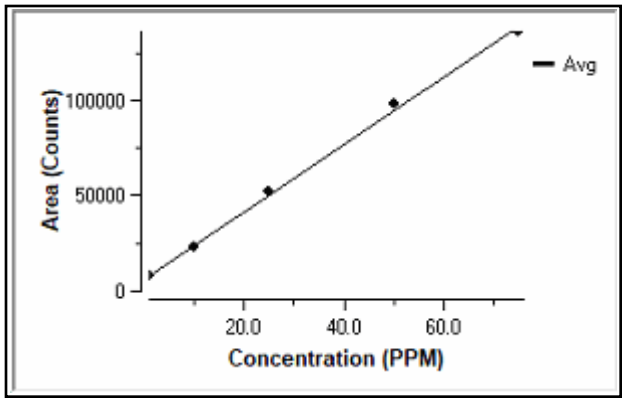
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TC
Date Calibrated:	08/18/2025
Time Calibrated:	6:22 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.1493
R2:	0.9999
R:	1.0000
QC Blank(cts):	0
Offset (cts):	7024
Offset (ugC):	-1.049
Reagent Blank (cts):	2 598
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

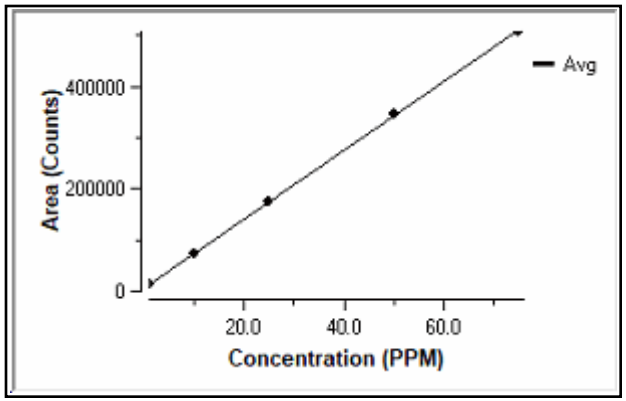
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Cust ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	-	Clean Up	2	2	DefaultCleanUpMethod	Clean Up	1 : 1	00000000	TC	60 910	0.000	0.000	13 334	21.89	
2	1	MRL	3	3	LLTOC JULY 21 21 - Jul 21, 2021; 01-45-27 PM	Sample	1 : 1	00000000	TOC	11 542	1.710	0.855	329	2.85	Pass
3	2	100 CHECK	3	3	LLTOC JULY 21 21 - Jul 21, 2021; 01-45-27 PM	Sample	1 : 1	00000000	TOC	528 266	198.475	99.238	14 123	2.67	RANGE
4	3	CO CHECK	3	3	LLTOC JULY 21 21 - Jul 21, 2021; 01-45-27 PM	Sample	1 : 1	00000000	TOC	6 070	0.000	0.000	582	9.59	Pass
5	4	25 TIC CHECK	3	3	LLTOC JULY 21 21 - Jul 21, 2021; 01-45-27 PM	Sample	1 : 1	00000000	TOC	143 188	51.840	25.920	3 151	2.20	Pass
6	5	CCV	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	176 692	25.337	25.337	2 463	1.39	Pass
7	6	CCB	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	4 478	0.000	0.000	1 558	34.78	Pass
8	7	LCS	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	175 727	25.193	25.193	5 596	3.18	Pass
9	8	MB	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	4 208	0.000	0.000	1 283	30.48	Pass
10	9	620-28495-f-3	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	142 674	20.257	20.257	4 705	3.30	Pass
11	10	620-28495-g-3 DU	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	141 832	20.131	20.131	4 623	3.26	Pass
12	11	620-28495-g-3 MS	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	165 618	23.683	23.683	1 618	0.98	Pass
13	12	620-28495-f-4	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	5 511	0.004	0.004	1 392	25.26	Pass
14	13	860-108645-d-1	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	172 786	24.754	24.754	9 916	5.74	Pass
15	14	620-28538-f-4	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	296 940	43.294	43.294	14 647	4.93	Pass
16	15	620-28538-q-5	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	187 232	26.911	26.911	2 163	1.15	Pass
17	16	620-28538-f-7	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	86 730	11.903	11.903	6 562	7.57	Pass
18	17	CCV	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	173 985	24.933	24.933	5 357	3.08	Pass
19	18	CCB	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	4 098	0.000	0.000	1 206	29.43	Pass
20	19	620-28538-f-8	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	277 729	40.425	40.425	17 468	6.29	Pass
21	20	620-28538-f-9	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	5 212	0.000	0.000	1 104	21.19	Pass
22	21	620-28577-g-4	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	303 444	44.265	44.265	14 722	4.85	Pass
23	22	620-28577-f-7	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	5 292	0.000	0.000	1 266	23.92	Pass

24	23	620-28577-j-6	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	281 653	41.011	41.011	12 147	4.31	Pass
25	24	620-28577-k-6 DU	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	300 793	43.869	43.869	5 894	1.96	Pass
26	25	620-28577-k-6 MS	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	243 405	35.299	35.299	11 089	4.56	Pass
27	26	MDL	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	11 444	0.660	0.660	1 401	12.25	Pass
28	27	CCV	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	166 456	23.808	23.808	2 357	1.42	Pass
29	28	CCB	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	4 493	0.000	0.000	1 292	28.76	Pass

Sample Results

Spl #: 1 **Sample ID :** Clean Up **Type :** Clean Up **Date:** 08/19/2025 **Status:**
Vial #: - **Method :** DefaultCleanUpMethod **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	10:19 am	-	-	-	51 481	0.000	0.000
2	08/19/2025	10:26 am	-	-	-	70 338	0.000	0.000
		Avg.	-	-	-	60 910	0.000	0.000
		Std.Dev.						
		% RSD.				21.89		

Spl #: 2 **Sample ID :** MRL **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 1 **Method :** LLTOC JULY 21 21 - Jul 21, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	10:35 am	-	-	-	11 717	1.777	0.888
2	08/19/2025	10:43 am	-	-	-	11 747	1.788	0.894
3	08/19/2025	10:52 am	-	-	-	11 162	1.565	0.783
		Avg.	-	-	-	11 542	1.710	0.855
		Std.Dev.						
		% RSD.				2.85		

Spl #: 3 Sample ID : 100 CHECK Type : Sample Date: 08/19/2025 Status: RANGE
Vial #: 2 Method : LLTOC JULY 21 21 - Jul 21, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:02 am	-	-	-	542 925	204.057	102.029
2	08/19/2025	11:11 am	-	-	-	514 748	193.328	96.664
3	08/19/2025	11:20 am	-	-	-	527 123	198.040	99.020
		Avg.	-	-	-	528 266	198.475	99.238
		Std.Dev.						
		% RSD.				2.67		

Spl #: 4 Sample ID : CO CHECK Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 3 Method : LLTOC JULY 21 21 - Jul 21, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:29 am	-	-	-	6 740	0.000	0.000
2	08/19/2025	11:37 am	-	-	-	5 690	0.000	0.000
3	08/19/2025	11:45 am	-	-	-	5 779	0.000	0.000
		Avg.	-	-	-	6 070	0.000	0.000
		Std.Dev.						
		% RSD.				9.59		

Spl #: 5 Sample ID : 25 TIC CHECK Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 4 Method : LLTOC JULY 21 21 - Jul 21, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:55 am	-	-	-	140 371	50.767	25.384
2	08/19/2025	12:03 pm	-	-	-	146 591	53.136	26.568
3	08/19/2025	12:11 pm	-	-	-	142 600	51.616	25.807
		Avg.	-	-	-	143 188	51.840	25.920
		Std.Dev.						
		% RSD.				2.20		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	6	**Sample ID :**	CCV	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	5	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	12:19 pm	-	-	-	178 562	25.616	25.616
2	08/19/2025	12:26 pm	-	-	-	177 614	25.475	25.475
3	08/19/2025	12:33 pm	-	-	-	173 901	24.920	24.920
		Avg.	-	-	-	176 692	25.337	25.337
		Std.Dev.						
		% RSD.				1.39		

Spl #:	7	**Sample ID :**	CCB	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	6	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	12:41 pm	-	-	-	6 276	0.000	0.000
2	08/19/2025	12:48 pm	-	-	-	3 540	0.000	0.000
3	08/19/2025	12:54 pm	-	-	-	3 617	0.000	0.000
		Avg.	-	-	-	4 478	0.000	0.000
		Std.Dev.						
		% RSD.				34.78		

Spl #: 8 **Sample ID :** LCS **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 7 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	1:02 pm	-	-	-	181 212	26.012	26.012
2	08/19/2025	1:09 pm	-	-	-	170 027	24.342	24.342
3	08/19/2025	1:16 pm	-	-	-	175 944	25.225	25.225
		Avg.	-	-	-	175 727	25.193	25.193
		Std.Dev.						
		% RSD.				3.18		

Spl #: 9 **Sample ID :** MB **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 8 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	1:24 pm	-	-	-	5 687	0.000	0.000
2	08/19/2025	1:31 pm	-	-	-	3 400	0.000	0.000
3	08/19/2025	1:37 pm	-	-	-	3 536	0.000	0.000
		Avg.	-	-	-	4 208	0.000	0.000
		Std.Dev.						
		% RSD.				30.48		

Spl #: 10 **Sample ID :** 620-28495-f-3 **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 9 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	1:45 pm	-	-	-	141 586	20.094	20.094
2	08/19/2025	1:51 pm	-	-	-	147 827	21.026	21.026
3	08/19/2025	1:58 pm	-	-	-	138 608	19.650	19.650
		Avg.	-	-	-	142 674	20.257	20.257
		Std.Dev.						
		% RSD.				3.30		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	11	**Sample ID :**	620-28495-g-3 DU	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	10	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	2:06 pm	-	-	-	146 682	20.855	20.855
2	08/19/2025	2:12 pm	-	-	-	137 476	19.481	19.481
3	08/19/2025	2:18 pm	-	-	-	141 339	20.058	20.058
		Avg.	-	-	-	141 832	20.131	20.131
		Std.Dev.						
		% RSD.				3.26		

Spl #:	12	**Sample ID :**	620-28495-g-3 MS	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	11	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	2:26 pm	-	-	-	167 407	23.950	23.950
2	08/19/2025	2:33 pm	-	-	-	164 257	23.480	23.480
3	08/19/2025	2:39 pm	-	-	-	165 190	23.619	23.619
		Avg.	-	-	-	165 618	23.683	23.683
		Std.Dev.						
		% RSD.				0.98		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 By: TOC

Date Approved: By:

Spl #: 13 **Sample ID :** 620-28495-f-4 **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 12 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	2:47 pm	-	-	-	7 111	0.013	0.012
2	08/19/2025	2:54 pm	-	-	-	4 852	0.000	0.000
3	08/19/2025	3:00 pm	-	-	-	4 572	0.000	0.000
		Avg.	-	-	-	5 511	0.004	0.004
		Std.Dev.						
		% RSD.				25.26		

Spl #: 14 **Sample ID :** 860-108645-d-1 **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 13 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	3:08 pm	-	-	-	162 975	23.288	23.288
2	08/19/2025	3:14 pm	-	-	-	182 803	26.250	26.250
3	08/19/2025	3:20 pm	-	-	-	172 579	24.723	24.723
		Avg.	-	-	-	172 786	24.754	24.754
		Std.Dev.						
		% RSD.				5.74		

Spl #: 15 **Sample ID :** 620-28538-f-4 **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 14 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	3:28 pm	-	-	-	280 349	40.816	40.816
2	08/19/2025	3:35 pm	-	-	-	302 393	44.108	44.108
3	08/19/2025	3:41 pm	-	-	-	308 078	44.957	44.957
		Avg.	-	-	-	296 940	43.294	43.294
		Std.Dev.						
		% RSD.				4.93		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	16	**Sample ID :**	620-28538-q-5	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	15	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	3:49 pm	-	-	-	184 754	26.541	26.541
2	08/19/2025	3:55 pm	-	-	-	188 206	27.056	27.056
3	08/19/2025	4:01 pm	-	-	-	188 737	27.136	27.136
		Avg.	-	-	-	187 232	26.911	26.911
		Std.Dev.						
		% RSD.				1.15		

Spl #:	17	**Sample ID :**	620-28538-f-7	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	16	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	4:09 pm	-	-	-	94 262	13.027	13.027
2	08/19/2025	4:15 pm	-	-	-	83 686	11.448	11.448
3	08/19/2025	4:22 pm	-	-	-	82 243	11.233	11.233
		Avg.	-	-	-	86 730	11.903	11.903
		Std.Dev.						
		% RSD.				7.57		

Spl #: 18 **Sample ID :** CCV **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 17 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	4:30 pm	-	-	-	167 827	24.013	24.013
2	08/19/2025	4:37 pm	-	-	-	177 564	25.467	25.467
3	08/19/2025	4:43 pm	-	-	-	176 565	25.318	25.318
		Avg.	-	-	-	173 985	24.933	24.933
		Std.Dev.						
		% RSD.				3.08		

Spl #: 19 **Sample ID :** CCB **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 18 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	4:51 pm	-	-	-	5 471	0.000	0.000
2	08/19/2025	4:58 pm	-	-	-	3 615	0.000	0.000
3	08/19/2025	5:05 pm	-	-	-	3 209	0.000	0.000
		Avg.	-	-	-	4 098	0.000	0.000
		Std.Dev.						
		% RSD.				29.43		

Spl #: 20 **Sample ID :** 620-28538-f-8 **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 19 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	5:13 pm	-	-	-	270 175	39.297	39.297
2	08/19/2025	5:19 pm	-	-	-	297 703	43.408	43.408
3	08/19/2025	5:25 pm	-	-	-	265 308	38.570	38.570
		Avg.	-	-	-	277 729	40.425	40.425
		Std.Dev.						
		% RSD.				6.29		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	21	**Sample ID :**	620-28538-f-9	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	20	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	5:33 pm	-	-	-	6 476	0.000	0.000
2	08/19/2025	5:39 pm	-	-	-	4 726	0.000	0.000
3	08/19/2025	5:46 pm	-	-	-	4 433	0.000	0.000
		Avg.	-	-	-	5 212	0.000	0.000
		Std.Dev.						
		% RSD.				21.19		

Spl #:	22	**Sample ID :**	620-28577-g-4	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	21	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	5:53 pm	-	-	-	294 995	43.003	43.003
2	08/19/2025	6:00 pm	-	-	-	294 893	42.988	42.988
3	08/19/2025	6:06 pm	-	-	-	320 444	46.804	46.804
		Avg.	-	-	-	303 444	44.265	44.265
		Std.Dev.						
		% RSD.				4.85		

Spl #: 23 Sample ID : 620-28577-f-7 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 22 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	6:14 pm	-	-	-	6 743	0.000	0.000
2	08/19/2025	6:20 pm	-	-	-	4 717	0.000	0.000
3	08/19/2025	6:26 pm	-	-	-	4 415	0.000	0.000
		Avg.	-	-	-	5 292	0.000	0.000
		Std.Dev.						
		% RSD.				23.92		

Spl #: 24 Sample ID : 620-28577-j-6 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 23 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	6:34 pm	-	-	-	285 855	41.638	41.638
2	08/19/2025	6:40 pm	-	-	-	291 141	42.428	42.428
3	08/19/2025	6:47 pm	-	-	-	267 962	38.967	38.967
		Avg.	-	-	-	281 653	41.011	41.011
		Std.Dev.						
		% RSD.				4.31		

Spl #: 25 Sample ID : 620-28577-k-6 DU Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 24 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	6:54 pm	-	-	-	297 981	43.449	43.449
2	08/19/2025	7:01 pm	-	-	-	296 831	43.277	43.277
3	08/19/2025	7:07 pm	-	-	-	307 566	44.881	44.881
		Avg.	-	-	-	300 793	43.869	43.869
		Std.Dev.						
		% RSD.				1.96		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	26	**Sample ID :**	620-28577-k-6 MS	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	25	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	7:15 pm	-	-	-	245 152	35.560	35.560
2	08/19/2025	7:21 pm	-	-	-	231 545	33.528	33.528
3	08/19/2025	7:27 pm	-	-	-	253 516	36.809	36.809
		Avg.	-	-	-	243 405	35.299	35.299
		Std.Dev.						
		% RSD.				4.56		

Spl #:	27	**Sample ID :**	MDL	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	26	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	7:35 pm	-	-	-	13 032	0.897	0.897
2	08/19/2025	7:42 pm	-	-	-	10 917	0.581	0.581
3	08/19/2025	7:48 pm	-	-	-	10 382	0.502	0.502
		Avg.	-	-	-	11 444	0.660	0.660
		Std.Dev.						
		% RSD.				12.25		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 28 **Sample ID :** CCV **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 27 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	7:57 pm	-	-	-	166 785	23.857	23.857
2	08/19/2025	8:03 pm	-	-	-	163 953	23.435	23.435
3	08/19/2025	8:10 pm	-	-	-	168 631	24.133	24.133
		Avg.	-	-	-	166 456	23.808	23.808
		Std.Dev.						
		% RSD.				1.42		

Spl #: 29 **Sample ID :** CCB **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 28 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	8:18 pm	-	-	-	5 715	0.000	0.000
2	08/19/2025	8:25 pm	-	-	-	4 625	0.000	0.000
3	08/19/2025	8:31 pm	-	-	-	3 140	0.000	0.000
		Avg.	-	-	-	4 493	0.000	0.000
		Std.Dev.						
		% RSD.				28.76		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Method Summary

Method Details

Method Name:	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM
Date Created:	02/06/2024
Time Created:	6:01
Created By:	TOC

Analysis Mode: TC Only

Sparging Mode:	n/a
Pre-Acid Volume (mL):	n/a
Sparge Time (mm:ss):	n/a

Volumes

Sample Volume (mL):	1.000
Acid Volume (mL):	0.000
Persulfate Volume (mL):	2.500

Other

SysPressure:	20.00

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1

Times

	React	Detect
TIC	02:30	04:00
TOC	03:00	04:00

Temp

	React	Detect
TIC	70	70
TOC	98	98

Outlier Removal Criteria

Enabled:	No
Additional Replicates:	1
Max. % RSD.	10.00

Rinses

Rinse Volume (mL):	15.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Max. Std. Dev. 100 Use Modified Oxidant: No

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Mode

Primary Mode:	TC
User for ALL Modes:	Enabled

Calibration Pass/Fail Criteria

Parameter	Enabled	Low	High	Failure
R² (ugC/K-cts)	Yes	0.1000	0.3000	Continue
	Yes	0.950	1.000	Continue
Offset (area) (cts)	No	-	-	-
Offset (mass) (ugC)	No	-	-	-
QC Blank(cts)	No	-	-	-

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10.00	Re-run	Continue
QC #1	0.000	10.00	Re-run	Continue
QC #2	0.000	10.00	Re-run	Continue
QC #3	0.000	10.00	Re-run	Continue
QC #4	0.000	10.00	Re-run	Continue
SST	0.000	15.00	Abort	Abort

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TC
Date Calibrated:	08/18/2025
Time Calibrated:	6:22 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.1493
R2:	0.9999
R:	1.0000
QC Blank(cts):	0
Offset (cts):	7024
Offset (ugC):	-1.049
Reagent Blank (cts):	2 598
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

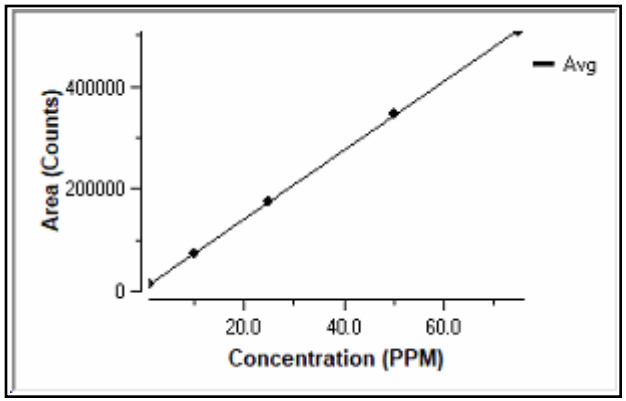
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Method Summary

Method Details

Method Name:	LLTOC JULY 21 21 - Jul 21, 2021; 01-45-27 PM
Date Created:	07/21/2021
Time Created:	13:51
Created By:	toc

Analysis Mode: NPOC Only

Sparging Mode:	Internal
Pre-Acid Volume (mL):	1.000
Sparge Time (mm:ss):	02:00

Volumes

Sample Volume (mL):	2.000
Acid Volume (mL):	0.500
Persulfate Volume (mL):	2.500

Other

SysPressure:	20.00

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1

Times

	React	Detect
TIC	01:30	03:00
TOC	02:00	03:00

Temp

	React	Detect
TIC	70	70
TOC	98	98

Outlier Removal Criteria

Enabled:	No
Additional Replicates:	1
Max. % RSD.	10.00

Rinses

Rinse Volume (mL):	15.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Max. Std. Dev. 100 Use Modified Oxidant: No

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Mode

Primary Mode:	TOC
User for ALL Modes:	Enabled

Calibration Pass/Fail Criteria

Parameter	Enabled	Low	High	Failure
R² (ugC/K-cts)	Yes	0.1000	0.3000	Continue
	Yes	0.950	1.000	Continue
Offset (area) (cts)	No	-	-	-
Offset (mass) (ugC)	No	-	-	-
QC Blank(cts)	No	-	-	-

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10.00	Re-run	Continue
QC #1	0.000	10.00	Re-run	Continue
QC #2	0.000	10.00	Re-run	Continue
QC #3	0.000	10.00	Re-run	Continue
QC #4	0.000	10.00	Re-run	Continue
SST	0.000	15.00	Abort	Abort

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TOC
Date Calibrated:	07/24/2025
Time Calibrated:	3:50 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.3808
R2:	0.9991
R:	0.9995
QC Blank(cts):	0
Offset (cts):	7052
Offset (ugC):	-2.685
Reagent Blank (cts):	3 058
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		2
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

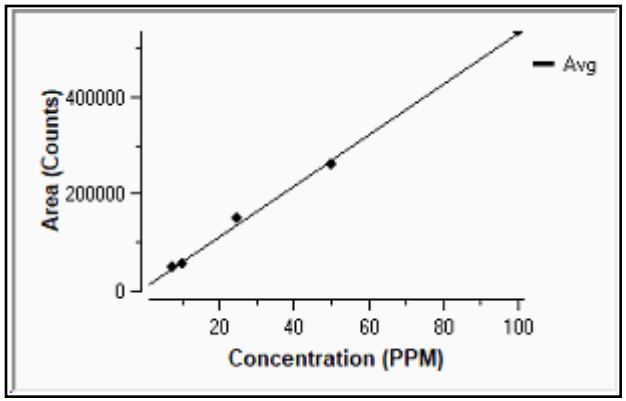
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

Method:	5310C/9060/415.1
Analyte:	Total Organic Carbon
Calibration Date and Time:	7/17/2025 1424
Run Name:	25198CALG05
Instrument:	8742
RF:	0.4641
Volume:	2
Offset/RB area	1126

Curve Type: Linear

CAL PT	Xi = True Value	Units	Area Ct	Corrected Area Ct (Area Ct - Offset/RB area)	X'I = Measured Value	Percent Error (X'i - (Xi / Xi)) x 100	Criteria	Pass/Fail
1	1	mg/L	5479	4353	1.01	1.0%	50%	PASS
2	7.5	mg/L	32315	31189	7.24	-3.5%	10%	PASS
3	10	mg/L	42867	41741	9.69	-3.1%	10%	PASS
4	25	mg/L	112247	111121	25.79	3.1%	10%	PASS
5	50	mg/L	216137	215011	49.89	-0.2%	10%	PASS
6	100	mg/L	431729	430603	99.92	-0.1%	10%	PASS

Calculation spreadsheet based off of NELAC Calculation Spreadsheet https://nelac-institute.org/news.php?id=2847

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 07/17/2025 **By:** TOC

Date Approved: **By:**

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Cust ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	-	Clean Up	2	2	DefaultCleanUpMethod	Clean Up	1 : 1	00000000	TC	9 043	0.000	0.000	147	1.62	
2	1	RINSE	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 021	0.082	0.041	0	0.00	Pass
3	2	METHOD BLANK	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	QC Blank	1 : 1	00000000	TOC	880	0.000	0.000	0	0.00	
5	3	TOC-RW	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	1 066	0.000	0.000	0	0.00	
6	4	TOC-Std#1-1.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	5 479	2.000	1.000	0	0.00	
7	5	TOC-Std#2-7.500 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	32 315	15.000	7.500	0	0.00	
8	6	TOC-Std#3-10.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	42 867	20.000	10.000	0	0.00	
9	7	TOC-Std#4-25.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	112 247	50.000	25.000	0	0.00	
10	8	TOC-Std#5-50.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	216 137	100.000	50.000	0	0.00	
11	9	TOC-Std#6-100.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	431 729	200.000	100.000	0	0.00	
12	10	RINSE	2	2	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 158	0.070	0.035	383	33.11	Pass
13	11	ICV	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	108 431	49.795	24.898	0	0.00	Pass
14	12	ICB	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 134	0.004	0.002	0	0.00	Pass

Sample Results

Spl #: 1 Sample ID : Clean Up Type : Clean Up Date: 07/17/2025 Status:
Vial #: - Method : DefaultCleanUpMethod Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	07/17/2025	12:38 pm	-	-	-	8 939	0.000	0.000
2	07/17/2025	12:42 pm	-	-	-	9 146	0.000	0.000
		Avg.	-	-	-	9 043	0.000	0.000
		Std.Dev.						
		% RSD.				1.62		

Spl #: 2 Sample ID : RINSE Type : Sample Date: 07/17/2025 Status: Pass
Vial #: 1 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	07/17/2025	12:49 pm	-	-	-	1 021	0.082	0.041
		Avg.	-	-	-	1 021	0.082	0.041
		Std.Dev.						
		% RSD.				0.00		

Spl #: 3 Sample ID : METHOD BLANK Type : QC Blank Date: 07/17/2025 Status:
Vial #: 2 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	07/17/2025	12:55 pm	-	-	-	880	0.000	0.000
		Avg.	-	-	-	880	0.000	0.000
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 07/17/2025 **By:** TOC

Date Approved: **By:**

Spl #: 5 **Sample ID :** TOC-RW **Type :** Std **Date:** 07/17/2025 **Status:**
Vial #: 3 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	07/17/2025	1:31 pm	-	-	-	1 066	0.000	0.000
		Avg.	-	-	-	1 066	0.000	0.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 6 **Sample ID :** TOC-Std#1-1.000 PPM **Type :** Std **Date:** 07/17/2025 **Status:**
Vial #: 4 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	07/17/2025	1:42 pm	-	-	-	5 479	2.000	1.000
		Avg.	-	-	-	5 479	2.000	1.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 7 **Sample ID :** TOC-Std#2-7.500 PPM **Type :** Std **Date:** 07/17/2025 **Status:**
Vial #: 5 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	07/17/2025	1:50 pm	-	-	-	32 315	15.000	7.500
		Avg.	-	-	-	32 315	15.000	7.500
		Std.Dev.						
		% RSD.				0.00		

Spl #: 8 Sample ID : TOC-Std#3-10.000 PPM Type : Std Date: 07/17/2025 Status:
Vial #: 6 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	07/17/2025	1:59 pm	-	-	-	42 867	20.000	10.000
		Avg.	-	-	-	42 867	20.000	10.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 9 Sample ID : TOC-Std#4-25.000 PPM Type : Std Date: 07/17/2025 Status:
Vial #: 7 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	07/17/2025	2:07 pm	-	-	-	112 247	50.000	25.000
		Avg.	-	-	-	112 247	50.000	25.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 10 Sample ID : TOC-Std#5-50.000 PPM Type : Std Date: 07/17/2025 Status:
Vial #: 8 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	07/17/2025	2:16 pm	-	-	-	216 137	100.000	50.000
		Avg.	-	-	-	216 137	100.000	50.000
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 07/17/2025 **By:** TOC

Date Approved: **By:**

Spl #: 11 **Sample ID :** TOC-Std#6-100.000 PPM **Type :** Std **Date:** 07/17/2025 **Status:**
Vial #: 9 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	07/17/2025	2:24 pm	-	-	-	431 729	200.000	100.000
		Avg.	-	-	-	431 729	200.000	100.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 12 **Sample ID :** RINSE **Type :** Sample **Date:** 07/17/2025 **Status:** Pass
Vial #: 10 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	07/17/2025	2:34 pm	-	-	-	887	0.000	0.000
2	07/17/2025	2:40 pm	-	-	-	1 429	0.141	0.070
		Avg.	-	-	-	1 158	0.070	0.035
		Std.Dev.						
		% RSD.				33.11		

Spl #: 13 **Sample ID :** ICV **Type :** Sample **Date:** 07/17/2025 **Status:** Pass
Vial #: 11 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	07/17/2025	2:49 pm	-	-	-	108 431	49.795	24.898
		Avg.	-	-	-	108 431	49.795	24.898
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 07/17/2025 **By:** TOC

Date Approved: **By:**

Spl #:	14	**Sample ID :**	ICB	**Type :**	Sample	**Date:**	07/17/2025	**Status:**	Pass
Vial #:	12	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	07/17/2025	2:57 pm	-	-	-	1 134	0.004	0.002
		Avg.	-	-	-	1 134	0.004	0.002
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 07/17/2025 **By:** TOC

Date Approved: **By:**

Method Summary

Method Details

Method Name:	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM
Date Created:	03/10/2021
Time Created:	11:46
Created By:	toc

Analysis Mode: NPOC Only

Sparging Mode:	Internal
Pre-Acid Volume (mL):	1.000
Sparge Time (mm:ss):	02:00

Volumes

Sample Volume (mL):	2.000
Acid Volume (mL):	0.500
Persulfate Volume (mL):	2.500

Other

SysPressure:	20.00

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1

Times

	React	Detect
TIC	01:30	03:00
TOC	02:00	03:00

Temp

	React	Detect
TIC	70	70
TOC	98	98

Outlier Removal Criteria

Enabled:	No
Additional Replicates:	1
Max. % RSD.	10.00

Rinses

Rinse Volume (mL):	15.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Max. Std. Dev. 100 Use Modified Oxidant: No

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Mode

Primary Mode:	TOC
User for ALL Modes:	Enabled

Calibration Pass/Fail Criteria

Parameter	Enabled	Low	High	Failure
R² (ugC/K-cts)	Yes	0.1000	0.3000	Continue
	Yes	0.950	1.000	Continue
Offset (area) (cts)	No	-	-	-
Offset (mass) (ugC)	No	-	-	-
QC Blank(cts)	No	-	-	-

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10.00	Re-run	Continue
QC #1	0.000	10.00	Re-run	Continue
QC #2	0.000	10.00	Re-run	Continue
QC #3	0.000	10.00	Re-run	Continue
QC #4	0.000	10.00	Re-run	Continue
SST	0.000	15.00	Abort	Abort

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 07/17/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TOC
Date Calibrated:	06/17/2025
Time Calibrated:	10:51 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.4448
R2:	0.9999
R:	1.0000
QC Blank(cts):	0
Offset (cts):	837
Offset (ugC):	-0.372
Reagent Blank (cts):	1 667
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

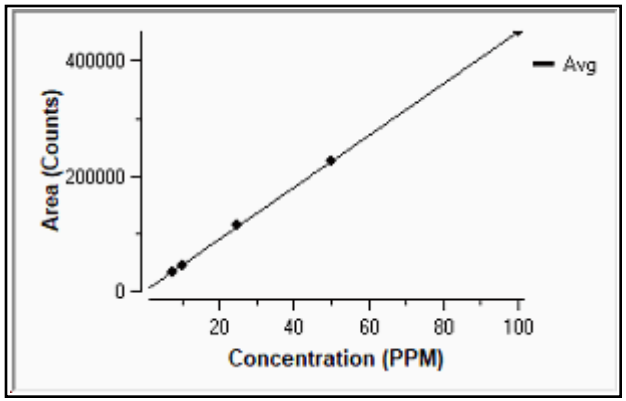
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 07/17/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TOC
Date Calibrated:	07/17/2025
Time Calibrated:	2:24 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.4641
R2:	0.9999
R:	0.9999
QC Blank(cts):	0
Offset (cts):	1126
Offset (ugC):	-0.523
Reagent Blank (cts):	562
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

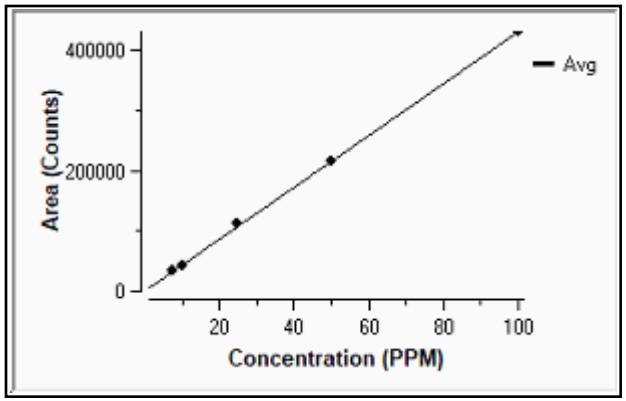
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Cust ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	-	Clean Up	2	2	DefaultCleanUpMethod	Clean Up	1 : 1	00000000	TC	9 743	0.000	0.000	38	0.39	
2	1	MRL	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 836	2.186	1.093	110	1.89	Pass
3	2	100 CHECK	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	418 763	193.806	96.903	6 850	1.64	Pass
4	3	CO CHECK	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 366	0.111	0.056	159	11.62	Pass
5	4	25 TIC CHECK	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	111 745	51.333	25.667	2 037	1.82	Pass
6	5	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	220 977	102.022	51.011	837	0.38	Pass
7	6	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 380	0.118	0.059	142	10.28	Pass
8	7	LCS	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	222 356	102.663	51.331	3 063	1.38	Pass
9	8	MB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 157	0.070	0.035	364	31.51	Pass
10	9	410-236543-b-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	3 118	0.924	0.462	90	2.88	Pass
11	10	410-236543-b-1 du	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	3 090	0.911	0.456	34	1.11	Pass
12	11	410-236543-b-1 ms	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	43 900	19.850	9.925	371	0.85	Pass
13	12	410-235752-a-8^50	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	297 222	137.405	68.702	4 607	1.55	Pass
14	13	680-266382-g-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	2 367	0.576	0.288	138	5.82	Pass
15	14	680-266382-g-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	2 019	0.414	0.207	181	8.94	Pass
16	15	680-266382-h-3	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 599	1.612	0.806	83	1.80	Pass
17	16	680-266382-h-4	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	3 849	1.264	0.632	118	3.07	Pass
18	17	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	111 674	51.300	25.650	1 611	1.44	Pass
19	18	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 104	0.050	0.025	303	27.41	Pass
20	19	680-266382-h-5	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	3 305	1.011	0.506	245	7.43	Pass
21	20	680-266382-h-6	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	23 596	10.427	5.214	343	1.45	Pass
22	21	680-266382-h-14	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 979	1.788	0.894	176	3.53	Pass
23	22	860-108645-g-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	20 122	8.815	4.408	437	2.17	Pass

24	23	410-236543-b-19	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 628	2.089	1.045	130	2.32	Pass
25	24	410-236543-b-19 du	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 498	2.029	1.014	156	2.84	Pass
26	25	410-236543-b-19 ms	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	45 898	20.777	10.389	601	1.31	Pass
27	26	410-235771-d-2^50	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	283 033	130.820	65.410	4 257	1.50	Pass
28	27	410-235771-d-8^10	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	316 626	146.409	73.205	3 202	1.01	Pass
29	28	410-235982-d-2^50	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	166 969	76.960	38.480	2 244	1.34	Pass
30	29	CCVL	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	20 786	9.123	4.562	201	0.97	Pass
31	30	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 147	0.040	0.020	205	17.85	Pass
32	31	410-235982-d-6^10	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	80 412	36.793	18.397	941	1.17	Pass
33	32	410-235982-d-22^10	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	496 499	229.880	114.940	8 154	1.64	RANGE
34	33	410-236543-b-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	2 537	0.655	0.327	310	12.23	Pass
35	34	410-236543-b-3	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	2 343	0.565	0.282	73	3.14	Pass
36	35	410-236543-b-4	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	12 054	5.071	2.536	444	3.68	Pass
37	36	410-236543-b-5	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	3 162	0.945	0.472	130	4.10	Pass
38	37	LCS	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	223 144	103.028	51.514	4 160	1.86	Pass
39	38	MB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 063	0.029	0.015	218	20.48	Pass
40	39	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	110 453	50.734	25.367	1 640	1.48	Pass
41	40	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 056	0.044	0.022	309	29.23	Pass
42	41	410-236543-b-23	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	3 388	1.050	0.525	62	1.83	Pass
43	42	410-236543-b-23 du	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	3 285	1.002	0.501	125	3.82	Pass
44	43	410-236543-b-23 ms	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	43 496	19.662	9.831	450	1.03	Pass
45	44	410-236543-b-6	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	11 859	4.981	2.491	387	3.26	Pass
46	45	410-236543-b-7	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	7 442	2.931	1.466	115	1.55	Pass
47	46	410-236543-b-8	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	6 845	2.654	1.327	293	4.28	Pass
48	47	410-236543-b-10	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 359	1.964	0.982	357	6.66	Pass

49	48	410-236543-b-11	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	7 733	3.066	1.533	390	5.04	Pass
50	49	410-236543-b-13	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	2 455	0.617	0.308	89	3.61	Pass
51	50	410-236543-b-14	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	68 424	31.230	15.615	3 094	4.52	Pass
52	51	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	222 545	102.751	51.375	4 691	2.11	Pass
53	52	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 424	0.138	0.069	221	15.55	Pass
54	53	410-236543-b-15	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	69 048	31.520	15.760	3 545	5.13	Pass
55	54	410-236543-b-16	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	10 439	4.322	2.161	1 209	11.58	Pass
56	55	410-234924-c-3	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	75 856	34.679	17.340	1 680	2.21	Pass
57	56	410-234924-d-3 DU	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	75 191	34.370	17.185	1 677	2.23	Pass
58	57	410-234924-d-3 MS	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	117 977	54.225	27.113	1 537	1.30	Pass
59	58	410-236543-b-17	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 827	1.717	0.859	290	6.01	Pass
60	59	410-236543-b-18	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	7 218	2.827	1.414	398	5.51	Pass
61	60	410-236543-b-20	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 561	2.058	1.029	165	2.96	Pass
62	61	410-236543-b-24	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	2 918	0.832	0.416	117	4.02	Pass
63	62	410-236543-b-25	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 499	2.029	1.015	186	3.38	Pass
64	63	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	110 911	50.946	25.473	1 680	1.51	Pass
65	64	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 180	0.059	0.029	285	24.18	Pass
66	65	410-236543-b-27	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	3 294	1.006	0.503	166	5.05	Pass
67	66	410-236543-b-29	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	6 159	2.336	1.168	131	2.12	Pass
68	67	410-236543-b-32	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	7 013	2.732	1.366	263	3.74	Pass
69	68	410-236543-b-34	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	8 146	3.258	1.629	368	4.51	Pass
70	69	LCS	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	221 007	102.037	51.018	3 221	1.46	Pass
71	70	MB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 198	0.048	0.024	211	17.58	Pass
72	71	410-234924-c-4	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	16 726	7.239	3.620	425	2.54	Pass
73	72	410-234924-d-4 DU	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	18 341	7.989	3.995	292	1.59	Pass

74	73	410-234924-d-4 MS	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	56 379	25.640	12.820	609	1.08	Pass
75	74	410-236543-b-36	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	3 559	1.129	0.565	174	4.90	Pass
76	75	CCVL	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	19 805	8.668	4.334	178	0.90	Pass
77	76	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 172	0.038	0.019	166	14.18	Pass
78	77	410-236543-b-37	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	3 433	1.071	0.535	228	6.65	Pass
79	78	410-236543-b-39	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	2 622	0.694	0.347	287	10.93	Pass
80	79	410-236543-b-41	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	3 084	0.909	0.454	80	2.61	Pass
81	80	620-28495-d-4	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 237	0.051	0.025	131	10.60	Pass
82	81	410-234924-c-5	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 178	1.416	0.708	82	1.96	Pass
83	82	410-234924-c-6	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	3 759	1.222	0.611	125	3.32	Pass
84	83	410-236213-g-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	3 771	1.227	0.614	44	1.16	Pass
85	84	410-236213-g-4	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	3 495	1.099	0.550	120	3.43	Pass
86	85	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	110 280	50.653	25.326	1 331	1.21	Pass
87	86	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 193	0.050	0.025	221	18.52	Pass

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Sample Results

Spl #: 1 **Sample ID :** Clean Up **Type :** Clean Up **Date:** 08/14/2025 **Status:**
Vial #: - **Method :** DefaultCleanUpMethod **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/14/2025	8:19 pm	-	-	-	9 716	0.000	0.000
2	08/14/2025	8:23 pm	-	-	-	9 770	0.000	0.000
		Avg.	-	-	-	9 743	0.000	0.000
		Std.Dev.						
		% RSD.				0.39		

Spl #: 2 **Sample ID :** MRL **Type :** Sample **Date:** 08/14/2025 **Status:** Pass
Vial #: 1 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/14/2025	8:30 pm	-	-	-	5 931	2.230	1.115
2	08/14/2025	8:36 pm	-	-	-	5 715	2.130	1.065
3	08/14/2025	8:41 pm	-	-	-	5 864	2.199	1.099
		Avg.	-	-	-	5 836	2.186	1.093
		Std.Dev.						
		% RSD.				1.89		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 3 **Sample ID :** 100 CHECK **Type :** Sample **Date:** 08/14/2025 **Status:** Pass
Vial #: 2 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/14/2025	8:51 pm	-	-	-	414 420	191.790	95.895
2	08/14/2025	8:56 pm	-	-	-	426 660	197.471	98.735
3	08/14/2025	9:02 pm	-	-	-	415 210	192.158	96.079
		Avg.	-	-	-	418 763	193.806	96.903
		Std.Dev.						
		% RSD.				1.64		

Spl #: 4 **Sample ID :** CO CHECK **Type :** Sample **Date:** 08/14/2025 **Status:** Pass
Vial #: 3 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/14/2025	9:10 pm	-	-	-	1 528	0.187	0.093
2	08/14/2025	9:15 pm	-	-	-	1 358	0.108	0.054
3	08/14/2025	9:21 pm	-	-	-	1 211	0.039	0.020
		Avg.	-	-	-	1 366	0.111	0.056
		Std.Dev.						
		% RSD.				11.62		

Spl #: 5 **Sample ID :** 25 TIC CHECK **Type :** Sample **Date:** 08/14/2025 **Status:** Pass
Vial #: 4 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/14/2025	9:30 pm	-	-	-	110 139	50.588	25.294
2	08/14/2025	9:35 pm	-	-	-	114 036	52.396	26.198
3	08/14/2025	9:41 pm	-	-	-	111 060	51.015	25.508
		Avg.	-	-	-	111 745	51.333	25.667
		Std.Dev.						
		% RSD.				1.82		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 6 **Sample ID :** CCV **Type :** Sample **Date:** 08/14/2025 **Status:** Pass
Vial #: 5 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/14/2025	9:49 pm	-	-	-	220 986	102.027	51.013
2	08/14/2025	9:55 pm	-	-	-	220 135	101.632	50.816
3	08/14/2025	10:01 pm	-	-	-	221 809	102.409	51.204
		Avg.	-	-	-	220 977	102.022	51.011
		Std.Dev.						
		% RSD.				0.38		

Spl #: 7 **Sample ID :** CCB **Type :** Sample **Date:** 08/14/2025 **Status:** Pass
Vial #: 6 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/14/2025	10:09 pm	-	-	-	1 217	0.042	0.021
2	08/14/2025	10:15 pm	-	-	-	1 474	0.162	0.081
3	08/14/2025	10:20 pm	-	-	-	1 448	0.150	0.075
		Avg.	-	-	-	1 380	0.118	0.059
		Std.Dev.						
		% RSD.				10.28		

Spl #: 8 Sample ID : LCS Type : Sample Date: 08/14/2025 Status: Pass
Vial #: 7 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/14/2025	10:30 pm	-	-	-	221 308	102.176	51.088
2	08/14/2025	10:35 pm	-	-	-	219 954	101.548	50.774
3	08/14/2025	10:40 pm	-	-	-	225 805	104.263	52.132
		Avg.	-	-	-	222 356	102.663	51.331
		Std.Dev.						
		% RSD.				1.38		

Spl #: 9 Sample ID : MB Type : Sample Date: 08/14/2025 Status: Pass
Vial #: 8 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/14/2025	10:49 pm	-	-	-	935	0.000	0.000
2	08/14/2025	10:54 pm	-	-	-	1 577	0.209	0.105
3	08/14/2025	11:00 pm	-	-	-	958	0.000	0.000
		Avg.	-	-	-	1 157	0.070	0.035
		Std.Dev.						
		% RSD.				31.51		

Spl #: 10 Sample ID : 410-236543-b-1 Type : Sample Date: 08/14/2025 Status: Pass
Vial #: 9 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/14/2025	11:08 pm	-	-	-	3 189	0.958	0.479
2	08/14/2025	11:14 pm	-	-	-	3 017	0.878	0.439
3	08/14/2025	11:19 pm	-	-	-	3 147	0.938	0.468
		Avg.	-	-	-	3 118	0.924	0.462
		Std.Dev.						
		% RSD.				2.88		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 11 **Sample ID :** 410-236543-b-1 du **Type :** Sample **Date:** 08/14/2025 **Status:** Pass
Vial #: 10 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/14/2025	11:28 pm	-	-	-	3 072	0.903	0.452
2	08/14/2025	11:33 pm	-	-	-	3 130	0.930	0.465
3	08/14/2025	11:39 pm	-	-	-	3 068	0.901	0.451
		Avg.	-	-	-	3 090	0.911	0.456
		Std.Dev.						
		% RSD.				1.11		

Spl #: 12 **Sample ID :** 410-236543-b-1 ms **Type :** Sample **Date:** 08/14/2025 **Status:** Pass
Vial #: 11 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/14/2025	11:47 pm	-	-	-	43 811	19.808	9.904
2	08/14/2025	11:53 pm	-	-	-	43 582	19.702	9.851
3	08/14/2025	11:58 pm	-	-	-	44 308	20.039	10.019
		Avg.	-	-	-	43 900	19.850	9.925
		Std.Dev.						
		% RSD.				0.85		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 By: TOC

Date Approved: By:

Spl #: 13 **Sample ID :** 410-235752-a-8^50 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 12 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	12:09 am	-	-	-	294 320	136.058	68.028
2	08/15/2025	12:14 am	-	-	-	302 534	139.870	69.935
3	08/15/2025	12:20 am	-	-	-	294 812	136.286	68.143
		Avg.	-	-	-	297 222	137.405	68.702
		Std.Dev.						
		% RSD.				1.55		

Spl #: 14 **Sample ID :** 680-266382-g-1 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 13 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	12:28 am	-	-	-	2 432	0.606	0.303
2	08/15/2025	12:33 am	-	-	-	2 209	0.503	0.251
3	08/15/2025	12:39 am	-	-	-	2 460	0.619	0.310
		Avg.	-	-	-	2 367	0.576	0.288
		Std.Dev.						
		% RSD.				5.82		

Spl #: 15 **Sample ID :** 680-266382-g-2 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 14 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	12:47 am	-	-	-	1 963	0.388	0.194
2	08/15/2025	12:53 am	-	-	-	2 221	0.508	0.254
3	08/15/2025	12:58 am	-	-	-	1 873	0.347	0.173
		Avg.	-	-	-	2 019	0.414	0.207
		Std.Dev.						
		% RSD.				8.94		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 16 **Sample ID :** 680-266382-h-3 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 15 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	1:07 am	-	-	-	4 654	1.637	0.819
2	08/15/2025	1:12 am	-	-	-	4 504	1.567	0.784
3	08/15/2025	1:18 am	-	-	-	4 640	1.631	0.815
		Avg.	-	-	-	4 599	1.612	0.806
		Std.Dev.						
		% RSD.				1.80		

Spl #: 17 **Sample ID :** 680-266382-h-4 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 16 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	1:26 am	-	-	-	3 726	1.207	0.603
2	08/15/2025	1:32 am	-	-	-	3 962	1.316	0.658
3	08/15/2025	1:37 am	-	-	-	3 859	1.268	0.634
		Avg.	-	-	-	3 849	1.264	0.632
		Std.Dev.						
		% RSD.				3.07		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 18 **Sample ID :** CCV **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 17 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	1:46 am	-	-	-	111 071	51.020	25.510
2	08/15/2025	1:52 am	-	-	-	110 452	50.733	25.367
3	08/15/2025	1:57 am	-	-	-	113 500	52.148	26.074
		Avg.	-	-	-	111 674	51.300	25.650
		Std.Dev.						
		% RSD.				1.44		

Spl #: 19 **Sample ID :** CCB **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 18 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	2:06 am	-	-	-	946	0.000	0.000
2	08/15/2025	2:12 am	-	-	-	1 452	0.151	0.076
3	08/15/2025	2:17 am	-	-	-	913	0.000	0.000
		Avg.	-	-	-	1 104	0.050	0.025
		Std.Dev.						
		% RSD.				27.41		

Spl #: 20 **Sample ID :** 680-266382-h-5 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 19 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	2:26 am	-	-	-	3 473	1.089	0.545
2	08/15/2025	2:31 am	-	-	-	3 023	0.880	0.440
3	08/15/2025	2:37 am	-	-	-	3 418	1.064	0.532
		Avg.	-	-	-	3 305	1.011	0.506
		Std.Dev.						
		% RSD.				7.43		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 21 **Sample ID :** 680-266382-h-6 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 20 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	2:46 am	-	-	-	23 200	10.243	5.122
2	08/15/2025	2:51 am	-	-	-	23 798	10.521	5.261
3	08/15/2025	2:57 am	-	-	-	23 789	10.517	5.259
		Avg.	-	-	-	23 596	10.427	5.214
		Std.Dev.						
		% RSD.				1.45		

Spl #: 22 **Sample ID :** 680-266382-h-14 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 21 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	3:05 am	-	-	-	5 158	1.871	0.936
2	08/15/2025	3:10 am	-	-	-	4 807	1.708	0.853
3	08/15/2025	3:16 am	-	-	-	4 972	1.785	0.893
		Avg.	-	-	-	4 979	1.788	0.894
		Std.Dev.						
		% RSD.				3.53		

Spl #: 23 Sample ID : 860-108645-g-1 Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 22 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	3:26 am	-	-	-	19 902	8.713	4.357
2	08/15/2025	3:30 am	-	-	-	20 626	9.049	4.524
3	08/15/2025	3:36 am	-	-	-	19 839	8.684	4.342
		Avg.	-	-	-	20 122	8.815	4.408
		Std.Dev.						
		% RSD.				2.17		

Spl #: 24 Sample ID : 410-236543-b-19 Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 23 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	3:44 am	-	-	-	5 702	2.123	1.062
2	08/15/2025	3:50 am	-	-	-	5 477	2.019	1.010
3	08/15/2025	3:56 am	-	-	-	5 704	2.124	1.062
		Avg.	-	-	-	5 628	2.089	1.045
		Std.Dev.						
		% RSD.				2.32		

Spl #: 25 Sample ID : 410-236543-b-19 du Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 24 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	4:04 am	-	-	-	5 337	1.954	0.977
2	08/15/2025	4:10 am	-	-	-	5 648	2.099	1.049
3	08/15/2025	4:15 am	-	-	-	5 508	2.034	1.017
		Avg.	-	-	-	5 498	2.029	1.014
		Std.Dev.						
		% RSD.				2.84		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 26 **Sample ID :** 410-236543-b-19 ms **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 25 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	4:24 am	-	-	-	45 611	20.643	10.322
2	08/15/2025	4:29 am	-	-	-	45 495	20.590	10.295
3	08/15/2025	4:35 am	-	-	-	46 589	21.097	10.549
		Avg.	-	-	-	45 898	20.777	10.389
		Std.Dev.						
		% RSD.				1.31		

Spl #: 27 **Sample ID :** 410-235771-d-2^50 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 26 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	4:45 am	-	-	-	278 236	128.594	64.297
2	08/15/2025	4:50 am	-	-	-	286 362	132.365	66.183
3	08/15/2025	4:56 am	-	-	-	284 500	131.501	65.750
		Avg.	-	-	-	283 033	130.820	65.410
		Std.Dev.						
		% RSD.				1.50		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #:	28	**Sample ID :**	410-235771-d-8^10	**Type :**	Sample	**Date:**	08/15/2025	**Status:**	Pass
Vial #:	27	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	5:05 am	-	-	-	314 043	145.210	72.605
2	08/15/2025	5:11 am	-	-	-	315 626	145.945	72.973
3	08/15/2025	5:17 am	-	-	-	320 209	148.072	74.036
		Avg.	-	-	-	316 626	146.409	73.205
		Std.Dev.						
		% RSD.				1.01		

Spl #:	29	**Sample ID :**	410-235982-d-2^50	**Type :**	Sample	**Date:**	08/15/2025	**Status:**	Pass
Vial #:	28	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	5:25 am	-	-	-	164 773	75.941	37.971
2	08/15/2025	5:30 am	-	-	-	169 258	78.022	39.011
3	08/15/2025	5:37 am	-	-	-	166 874	76.916	38.458
		Avg.	-	-	-	166 969	76.960	38.480
		Std.Dev.						
		% RSD.				1.34		

Spl #:	30	**Sample ID :**	CCVL	**Type :**	Sample	**Date:**	08/15/2025	**Status:**	Pass
Vial #:	29	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	5:44 am	-	-	-	21 004	9.225	4.612
2	08/15/2025	5:50 am	-	-	-	20 746	9.105	4.553
3	08/15/2025	5:56 am	-	-	-	20 609	9.041	4.521
		Avg.	-	-	-	20 786	9.123	4.562
		Std.Dev.						
		% RSD.				0.97		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 31 **Sample ID :** CCB **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 30 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	6:04 am	-	-	-	1 013	0.000	0.000
2	08/15/2025	6:10 am	-	-	-	1 383	0.119	0.060
3	08/15/2025	6:16 am	-	-	-	1 047	0.000	0.000
		Avg.	-	-	-	1 147	0.040	0.020
		Std.Dev.						
		% RSD.				17.85		

Spl #: 32 **Sample ID :** 410-235982-d-6^10 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 31 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	6:25 am	-	-	-	80 322	36.751	18.376
2	08/15/2025	6:30 am	-	-	-	79 519	36.379	18.189
3	08/15/2025	6:36 am	-	-	-	81 395	37.249	18.625
		Avg.	-	-	-	80 412	36.793	18.397
		Std.Dev.						
		% RSD.				1.17		

Spl #: 33 Sample ID : 410-235982-d-22^10 Type : Sample Date: 08/15/2025 Status: RANGE
Vial #: 32 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	6:46 am	-	-	-	488 508	226.172	113.086
2	08/15/2025	6:51 am	-	-	-	504 807	233.735	116.868
3	08/15/2025	6:57 am	-	-	-	496 181	229.732	114.866
		Avg.	-	-	-	496 499	229.880	114.940
		Std.Dev.						
		% RSD.				1.64		

Spl #: 34 Sample ID : 410-236543-b-2 Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 33 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	7:05 am	-	-	-	2 855	0.802	0.401
2	08/15/2025	7:11 am	-	-	-	2 521	0.647	0.324
3	08/15/2025	7:16 am	-	-	-	2 235	0.515	0.257
		Avg.	-	-	-	2 537	0.655	0.327
		Std.Dev.						
		% RSD.				12.23		

Spl #: 35 Sample ID : 410-236543-b-3 Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 34 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	7:24 am	-	-	-	2 360	0.573	0.286
2	08/15/2025	7:30 am	-	-	-	2 406	0.594	0.297
3	08/15/2025	7:36 am	-	-	-	2 262	0.527	0.264
		Avg.	-	-	-	2 343	0.565	0.282
		Std.Dev.						
		% RSD.				3.14		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 36 **Sample ID :** 410-236543-b-4 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 35 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	7:44 am	-	-	-	11 745	4.928	2.464
2	08/15/2025	7:50 am	-	-	-	11 855	4.979	2.489
3	08/15/2025	7:55 am	-	-	-	12 562	5.307	2.654
		Avg.	-	-	-	12 054	5.071	2.536
		Std.Dev.						
		% RSD.				3.68		

Spl #: 37 **Sample ID :** 410-236543-b-5 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 36 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	8:04 am	-	-	-	3 092	0.913	0.456
2	08/15/2025	8:10 am	-	-	-	3 311	1.014	0.506
3	08/15/2025	8:15 am	-	-	-	3 081	0.907	0.454
		Avg.	-	-	-	3 162	0.945	0.472
		Std.Dev.						
		% RSD.				4.10		

Spl #: 38 **Sample ID :** LCS **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 37 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	8:24 am	-	-	-	220 220	101.671	50.836
2	08/15/2025	8:31 am	-	-	-	221 306	102.175	51.088
3	08/15/2025	8:36 am	-	-	-	227 907	105.239	52.619
		Avg.	-	-	-	223 144	103.028	51.514
		Std.Dev.						
		% RSD.				1.86		

Spl #: 39 **Sample ID :** MB **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 38 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	8:44 am	-	-	-	948	0.000	0.000
2	08/15/2025	8:50 am	-	-	-	1 315	0.087	0.044
3	08/15/2025	8:55 am	-	-	-	928	0.000	0.000
		Avg.	-	-	-	1 063	0.029	0.015
		Std.Dev.						
		% RSD.				20.48		

Spl #: 40 **Sample ID :** CCV **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 39 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	9:04 am	-	-	-	109 609	50.342	25.171
2	08/15/2025	9:10 am	-	-	-	109 407	50.248	25.124
3	08/15/2025	9:15 am	-	-	-	112 343	51.610	25.805
		Avg.	-	-	-	110 453	50.734	25.367
		Std.Dev.						
		% RSD.				1.48		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 41 **Sample ID :** CCB **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 40 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	9:24 am	-	-	-	897	0.000	0.000
2	08/15/2025	9:30 am	-	-	-	1 412	0.133	0.066
3	08/15/2025	9:35 am	-	-	-	860	0.000	0.000
		Avg.	-	-	-	1 056	0.044	0.022
		Std.Dev.						
		% RSD.				29.23		

Spl #: 42 **Sample ID :** 410-236543-b-23 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 41 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	9:43 am	-	-	-	3 459	1.083	0.541
2	08/15/2025	9:49 am	-	-	-	3 345	1.030	0.515
3	08/15/2025	9:55 am	-	-	-	3 360	1.037	0.518
		Avg.	-	-	-	3 388	1.050	0.525
		Std.Dev.						
		% RSD.				1.83		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 By: TOC

Date Approved: By:

Spl #: 43 **Sample ID :** 410-236543-b-23 du **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 42 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	10:03 am	-	-	-	3 140	0.935	0.467
2	08/15/2025	10:09 am	-	-	-	3 356	1.035	0.518
3	08/15/2025	10:14 am	-	-	-	3 359	1.036	0.518
		Avg.	-	-	-	3 285	1.002	0.501
		Std.Dev.						
		% RSD.				3.82		

Spl #: 44 **Sample ID :** 410-236543-b-23 ms **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 43 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	10:23 am	-	-	-	43 134	19.494	9.747
2	08/15/2025	10:28 am	-	-	-	43 355	19.597	9.798
3	08/15/2025	10:34 am	-	-	-	44 000	19.896	9.948
		Avg.	-	-	-	43 496	19.662	9.831
		Std.Dev.						
		% RSD.				1.03		

Spl #: 45 **Sample ID :** 410-236543-b-6 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 44 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	10:43 am	-	-	-	11 468	4.799	2.400
2	08/15/2025	10:48 am	-	-	-	12 242	5.158	2.579
3	08/15/2025	10:55 am	-	-	-	11 868	4.985	2.493
		Avg.	-	-	-	11 859	4.981	2.491
		Std.Dev.						
		% RSD.				3.26		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 46 **Sample ID :** 410-236543-b-7 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 45 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	11:03 am	-	-	-	7 448	2.934	1.467
2	08/15/2025	11:08 am	-	-	-	7 324	2.876	1.438
3	08/15/2025	11:14 am	-	-	-	7 555	2.983	1.492
		Avg.	-	-	-	7 442	2.931	1.466
		Std.Dev.						
		% RSD.				1.55		

Spl #: 47 **Sample ID :** 410-236543-b-8 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 46 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	11:22 am	-	-	-	6 520	2.503	1.252
2	08/15/2025	11:28 am	-	-	-	7 091	2.768	1.383
3	08/15/2025	11:34 am	-	-	-	6 925	2.691	1.345
		Avg.	-	-	-	6 845	2.654	1.327
		Std.Dev.						
		% RSD.				4.28		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 By: TOC

Date Approved: By:

Spl #: 48 **Sample ID :** 410-236543-b-10 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 47 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	11:42 am	-	-	-	5 447	2.005	1.003
2	08/15/2025	11:48 am	-	-	-	4 966	1.782	0.891
3	08/15/2025	11:53 am	-	-	-	5 663	2.106	1.053
		Avg.	-	-	-	5 359	1.964	0.982
		Std.Dev.						
		% RSD.				6.66		

Spl #: 49 **Sample ID :** 410-236543-b-11 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 48 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	12:02 pm	-	-	-	7 371	2.898	1.449
2	08/15/2025	12:07 pm	-	-	-	8 146	3.257	1.629
3	08/15/2025	12:13 pm	-	-	-	7 682	3.042	1.521
		Avg.	-	-	-	7 733	3.066	1.533
		Std.Dev.						
		% RSD.				5.04		

Spl #: 50 **Sample ID :** 410-236543-b-13 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 49 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	12:21 pm	-	-	-	2 527	0.650	0.325
2	08/15/2025	12:27 pm	-	-	-	2 356	0.571	0.285
3	08/15/2025	12:32 pm	-	-	-	2 482	0.629	0.315
		Avg.	-	-	-	2 455	0.617	0.308
		Std.Dev.						
		% RSD.				3.61		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 51 **Sample ID :** 410-236543-b-14 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 50 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	12:41 pm	-	-	-	65 203	29.735	14.868
2	08/15/2025	12:47 pm	-	-	-	71 372	32.598	16.299
3	08/15/2025	12:53 pm	-	-	-	68 696	31.356	15.678
		Avg.	-	-	-	68 424	31.230	15.615
		Std.Dev.						
		% RSD.				4.52		

Spl #: 52 **Sample ID :** CCV **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 51 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	1:02 pm	-	-	-	222 730	102.836	51.418
2	08/15/2025	1:08 pm	-	-	-	217 765	100.532	50.266
3	08/15/2025	1:13 pm	-	-	-	227 141	104.883	52.442
		Avg.	-	-	-	222 545	102.751	51.375
		Std.Dev.						
		% RSD.				2.11		

Spl #: 53 Sample ID : CCB Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 52 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	1:21 pm	-	-	-	1 418	0.136	0.068
2	08/15/2025	1:27 pm	-	-	-	1 648	0.242	0.121
3	08/15/2025	1:33 pm	-	-	-	1 205	0.037	0.018
		Avg.	-	-	-	1 424	0.138	0.069
		Std.Dev.						
		% RSD.				15.55		

Spl #: 54 Sample ID : 410-236543-b-15 Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 53 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	1:42 pm	-	-	-	69 242	31.609	15.805
2	08/15/2025	1:47 pm	-	-	-	65 411	29.832	14.916
3	08/15/2025	1:53 pm	-	-	-	72 492	33.118	16.559
		Avg.	-	-	-	69 048	31.520	15.760
		Std.Dev.						
		% RSD.				5.13		

Spl #: 55 Sample ID : 410-236543-b-16 Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 54 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	2:02 pm	-	-	-	9 795	4.023	2.011
2	08/15/2025	2:08 pm	-	-	-	11 835	4.969	2.485
3	08/15/2025	2:13 pm	-	-	-	9 689	3.974	1.987
		Avg.	-	-	-	10 439	4.322	2.161
		Std.Dev.						
		% RSD.				11.58		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 56 **Sample ID :** 410-234924-c-3 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 55 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	2:23 pm	-	-	-	75 477	34.503	17.252
2	08/15/2025	2:28 pm	-	-	-	74 397	34.002	17.001
3	08/15/2025	2:34 pm	-	-	-	77 693	35.531	17.766
		Avg.	-	-	-	75 856	34.679	17.340
		Std.Dev.						
		% RSD.				2.21		

Spl #: 57 **Sample ID :** 410-234924-d-3 DU **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 56 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	2:43 pm	-	-	-	73 496	33.584	16.792
2	08/15/2025	2:49 pm	-	-	-	76 850	35.140	17.570
3	08/15/2025	2:54 pm	-	-	-	75 226	34.386	17.193
		Avg.	-	-	-	75 191	34.370	17.185
		Std.Dev.						
		% RSD.				2.23		

Spl #: 58 Sample ID : 410-234924-d-3 MS Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 57 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	3:04 pm	-	-	-	117 492	54.000	27.000
2	08/15/2025	3:10 pm	-	-	-	116 741	53.652	26.826
3	08/15/2025	3:15 pm	-	-	-	119 698	55.024	27.512
		Avg.	-	-	-	117 977	54.225	27.113
		Std.Dev.						
		% RSD.				1.30		

Spl #: 59 Sample ID : 410-236543-b-17 Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 58 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	3:23 pm	-	-	-	4 716	1.666	0.833
2	08/15/2025	3:29 pm	-	-	-	5 156	1.870	0.935
3	08/15/2025	3:35 pm	-	-	-	4 609	1.616	0.808
		Avg.	-	-	-	4 827	1.717	0.859
		Std.Dev.						
		% RSD.				6.01		

Spl #: 60 Sample ID : 410-236543-b-18 Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 59 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	3:43 pm	-	-	-	7 498	2.957	1.479
2	08/15/2025	3:49 pm	-	-	-	6 763	2.616	1.308
3	08/15/2025	3:54 pm	-	-	-	7 394	2.909	1.454
		Avg.	-	-	-	7 218	2.827	1.414
		Std.Dev.						
		% RSD.				5.51		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 61 **Sample ID :** 410-236543-b-20 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 60 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	4:03 pm	-	-	-	5 378	1.973	0.987
2	08/15/2025	4:09 pm	-	-	-	5 696	2.121	1.060
3	08/15/2025	4:14 pm	-	-	-	5 608	2.080	1.040
		Avg.	-	-	-	5 561	2.058	1.029
		Std.Dev.						
		% RSD.				2.96		

Spl #: 62 **Sample ID :** 410-236543-b-24 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 61 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	4:23 pm	-	-	-	2 988	0.864	0.432
2	08/15/2025	4:28 pm	-	-	-	2 783	0.769	0.385
3	08/15/2025	4:34 pm	-	-	-	2 985	0.863	0.431
		Avg.	-	-	-	2 918	0.832	0.416
		Std.Dev.						
		% RSD.				4.02		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 63 **Sample ID :** 410-236543-b-25 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 62 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	4:43 pm	-	-	-	5 314	1.943	0.972
2	08/15/2025	4:48 pm	-	-	-	5 686	2.116	1.058
3	08/15/2025	4:54 pm	-	-	-	5 498	2.029	1.015
		Avg.	-	-	-	5 499	2.029	1.015
		Std.Dev.						
		% RSD.				3.38		

Spl #: 64 **Sample ID :** CCV **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 63 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	5:03 pm	-	-	-	110 360	50.691	25.345
2	08/15/2025	5:08 pm	-	-	-	109 575	50.326	25.163
3	08/15/2025	5:14 pm	-	-	-	112 797	51.821	25.911
		Avg.	-	-	-	110 911	50.946	25.473
		Std.Dev.						
		% RSD.				1.51		

Spl #: 65 **Sample ID :** CCB **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 64 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	5:23 pm	-	-	-	978	0.000	0.000
2	08/15/2025	5:28 pm	-	-	-	1 507	0.177	0.088
3	08/15/2025	5:34 pm	-	-	-	1 056	0.000	0.000
		Avg.	-	-	-	1 180	0.059	0.029
		Std.Dev.						
		% RSD.				24.18		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 66 **Sample ID :** 410-236543-b-27 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 65 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	5:42 pm	-	-	-	3 374	1.043	0.522
2	08/15/2025	5:48 pm	-	-	-	3 102	0.917	0.459
3	08/15/2025	5:53 pm	-	-	-	3 404	1.057	0.529
		Avg.	-	-	-	3 294	1.006	0.503
		Std.Dev.						
		% RSD.				5.05		

Spl #: 67 **Sample ID :** 410-236543-b-29 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 66 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	6:02 pm	-	-	-	6 167	2.339	1.170
2	08/15/2025	6:07 pm	-	-	-	6 286	2.394	1.197
3	08/15/2025	6:13 pm	-	-	-	6 025	2.273	1.137
		Avg.	-	-	-	6 159	2.336	1.168
		Std.Dev.						
		% RSD.				2.12		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 By: TOC

Date Approved: By:

Spl #: 68 **Sample ID :** 410-236543-b-32 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 67 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	6:21 pm	-	-	-	7 080	2.763	1.382
2	08/15/2025	6:27 pm	-	-	-	6 724	2.598	1.299
3	08/15/2025	6:33 pm	-	-	-	7 236	2.835	1.418
		Avg.	-	-	-	7 013	2.732	1.366
		Std.Dev.						
		% RSD.				3.74		

Spl #: 69 **Sample ID :** 410-236543-b-34 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 68 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	6:41 pm	-	-	-	7 905	3.146	1.573
2	08/15/2025	6:47 pm	-	-	-	8 569	3.454	1.727
3	08/15/2025	6:53 pm	-	-	-	7 964	3.173	1.587
		Avg.	-	-	-	8 146	3.258	1.629
		Std.Dev.						
		% RSD.				4.51		

Spl #: 70 **Sample ID :** LCS **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 69 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	7:02 pm	-	-	-	217 819	100.557	50.279
2	08/15/2025	7:08 pm	-	-	-	220 941	102.006	51.003
3	08/15/2025	7:13 pm	-	-	-	224 261	103.546	51.773
		Avg.	-	-	-	221 007	102.037	51.018
		Std.Dev.						
		% RSD.				1.46		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 71 **Sample ID :** MB **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 70 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	7:21 pm	-	-	-	1 045	0.000	0.000
2	08/15/2025	7:27 pm	-	-	-	1 439	0.145	0.073
3	08/15/2025	7:33 pm	-	-	-	1 112	0.000	0.000
		Avg.	-	-	-	1 198	0.048	0.024
		Std.Dev.						
		% RSD.				17.58		

Spl #: 72 **Sample ID :** 410-234924-c-4 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 71 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	7:41 pm	-	-	-	16 675	7.216	3.608
2	08/15/2025	7:47 pm	-	-	-	16 329	7.055	3.528
3	08/15/2025	7:52 pm	-	-	-	17 174	7.447	3.724
		Avg.	-	-	-	16 726	7.239	3.620
		Std.Dev.						
		% RSD.				2.54		

Spl #: 73 Sample ID : 410-234924-d-4 DU Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 72 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	8:02 pm	-	-	-	18 036	7.847	3.924
2	08/15/2025	8:07 pm	-	-	-	18 616	8.117	4.058
3	08/15/2025	8:13 pm	-	-	-	18 372	8.003	4.002
		Avg.	-	-	-	18 341	7.989	3.995
		Std.Dev.						
		% RSD.				1.59		

Spl #: 74 Sample ID : 410-234924-d-4 MS Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 73 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	8:21 pm	-	-	-	56 071	25.497	12.749
2	08/15/2025	8:27 pm	-	-	-	55 986	25.458	12.729
3	08/15/2025	8:33 pm	-	-	-	57 080	25.966	12.983
		Avg.	-	-	-	56 379	25.640	12.820
		Std.Dev.						
		% RSD.				1.08		

Spl #: 75 Sample ID : 410-236543-b-36 Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 74 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	8:42 pm	-	-	-	3 361	1.037	0.519
2	08/15/2025	8:47 pm	-	-	-	3 688	1.189	0.594
3	08/15/2025	8:53 pm	-	-	-	3 628	1.161	0.581
		Avg.	-	-	-	3 559	1.129	0.565
		Std.Dev.						
		% RSD.				4.90		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 76 **Sample ID :** CCVL **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 75 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	9:01 pm	-	-	-	19 927	8.725	4.362
2	08/15/2025	9:07 pm	-	-	-	19 601	8.574	4.287
3	08/15/2025	9:12 pm	-	-	-	19 888	8.706	4.353
		Avg.	-	-	-	19 805	8.668	4.334
		Std.Dev.						
		% RSD.				0.90		

Spl #: 77 **Sample ID :** CCB **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 76 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	9:21 pm	-	-	-	1 152	0.012	0.006
2	08/15/2025	9:26 pm	-	-	-	1 347	0.102	0.051
3	08/15/2025	9:32 pm	-	-	-	1 016	0.000	0.000
		Avg.	-	-	-	1 172	0.038	0.019
		Std.Dev.						
		% RSD.				14.18		

Spl #: 78 Sample ID : 410-236543-b-37 Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 77 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	9:40 pm	-	-	-	3 328	1.022	0.511
2	08/15/2025	9:46 pm	-	-	-	3 275	0.997	0.499
3	08/15/2025	9:51 pm	-	-	-	3 695	1.192	0.596
		Avg.	-	-	-	3 433	1.071	0.535
		Std.Dev.						
		% RSD.				6.65		

Spl #: 79 Sample ID : 410-236543-b-39 Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 78 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	10:00 pm	-	-	-	2 418	0.600	0.300
2	08/15/2025	10:05 pm	-	-	-	2 950	0.846	0.423
3	08/15/2025	10:11 pm	-	-	-	2 498	0.637	0.318
		Avg.	-	-	-	2 622	0.694	0.347
		Std.Dev.						
		% RSD.				10.93		

Spl #: 80 Sample ID : 410-236543-b-41 Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 79 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	10:19 pm	-	-	-	3 053	0.894	0.447
2	08/15/2025	10:25 pm	-	-	-	3 024	0.881	0.440
3	08/15/2025	10:31 pm	-	-	-	3 175	0.951	0.476
		Avg.	-	-	-	3 084	0.909	0.454
		Std.Dev.						
		% RSD.				2.61		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #: 81 **Sample ID :** 620-28495-d-4 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 80 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	10:39 pm	-	-	-	1 156	0.014	0.006
2	08/15/2025	10:45 pm	-	-	-	1 388	0.122	0.061
3	08/15/2025	10:50 pm	-	-	-	1 166	0.019	0.009
		Avg.	-	-	-	1 237	0.051	0.025
		Std.Dev.						
		% RSD.				10.60		

Spl #: 82 **Sample ID :** 410-234924-c-5 **Type :** Sample **Date:** 08/15/2025 **Status:** Pass
Vial #: 81 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	10:59 pm	-	-	-	4 090	1.375	0.688
2	08/15/2025	11:04 pm	-	-	-	4 194	1.424	0.712
3	08/15/2025	11:10 pm	-	-	-	4 251	1.450	0.725
		Avg.	-	-	-	4 178	1.416	0.708
		Std.Dev.						
		% RSD.				1.96		

Spl #: 83 Sample ID : 410-234924-c-6 Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 82 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	11:18 pm	-	-	-	3 648	1.170	0.585
2	08/15/2025	11:24 pm	-	-	-	3 894	1.284	0.642
3	08/15/2025	11:30 pm	-	-	-	3 735	1.211	0.605
		Avg.	-	-	-	3 759	1.222	0.611
		Std.Dev.						
		% RSD.				3.32		

Spl #: 84 Sample ID : 410-236213-g-2 Type : Sample Date: 08/15/2025 Status: Pass
Vial #: 83 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	11:38 pm	-	-	-	3 809	1.245	0.623
2	08/15/2025	11:44 pm	-	-	-	3 723	1.205	0.603
3	08/15/2025	11:49 pm	-	-	-	3 781	1.232	0.616
		Avg.	-	-	-	3 771	1.227	0.614
		Std.Dev.						
		% RSD.				1.16		

Spl #: 85 Sample ID : 410-236213-g-4 Type : Sample Date: 08/16/2025 Status: Pass
Vial #: 84 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/15/2025	11:58 pm	-	-	-	3 386	1.049	0.525
2	08/16/2025	12:03 am	-	-	-	3 624	1.159	0.580
3	08/16/2025	12:09 am	-	-	-	3 475	1.090	0.545
		Avg.	-	-	-	3 495	1.099	0.550
		Std.Dev.						
		% RSD.				3.43		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Spl #:	86	**Sample ID :**	CCV	**Type :**	Sample	**Date:**	08/16/2025	**Status:**	Pass
Vial #:	85	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/16/2025	12:18 am	-	-	-	109 860	50.459	25.229
2	08/16/2025	12:23 am	-	-	-	109 209	50.156	25.078
3	08/16/2025	12:29 am	-	-	-	111 769	51.344	25.672
		Avg.	-	-	-	110 280	50.653	25.326
		Std.Dev.						
		% RSD.				1.21		

Spl #:	87	**Sample ID :**	CCB	**Type :**	Sample	**Date:**	08/16/2025	**Status:**	Pass
Vial #:	86	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/16/2025	12:38 am	-	-	-	1 095	0.000	0.000
2	08/16/2025	12:43 am	-	-	-	1 446	0.149	0.074
3	08/16/2025	12:49 am	-	-	-	1 038	0.000	0.000
		Avg.	-	-	-	1 193	0.050	0.025
		Std.Dev.						
		% RSD.				18.52		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Method Summary

Method Details

Method Name:	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM
Date Created:	03/10/2021
Time Created:	11:46
Created By:	toc

Analysis Mode: NPOC Only

Sparging Mode:	Internal
Pre-Acid Volume (mL):	1.000
Sparge Time (mm:ss):	02:00

Volumes

Sample Volume (mL):	2.000
Acid Volume (mL):	0.500
Persulfate Volume (mL):	2.500

Other

SysPressure:	20.00

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1

Times

	React	Detect
TIC	01:30	03:00
TOC	02:00	03:00

Temp

	React	Detect
TIC	70	70
TOC	98	98

Outlier Removal Criteria

Enabled:	No
Additional Replicates:	1
Max. % RSD.	10.00

Rinses

Rinse Volume (mL):	15.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Max. Std. Dev. 100 Use Modified Oxidant: No

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Mode

Primary Mode:	TOC
User for ALL Modes:	Enabled

Calibration Pass/Fail Criteria

Parameter	Enabled	Low	High	Failure
R² (ugC/K-cts)	Yes	0.1000	0.3000	Continue
	Yes	0.950	1.000	Continue
Offset (area) (cts)	No	-	-	-
Offset (mass) (ugC)	No	-	-	-
QC Blank(cts)	No	-	-	-

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10.00	Re-run	Continue
QC #1	0.000	10.00	Re-run	Continue
QC #2	0.000	10.00	Re-run	Continue
QC #3	0.000	10.00	Re-run	Continue
QC #4	0.000	10.00	Re-run	Continue
SST	0.000	15.00	Abort	Abort

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/16/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TOC
Date Calibrated:	07/17/2025
Time Calibrated:	2:24 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.4641
R2:	0.9999
R:	0.9999
QC Blank(cts):	0
Offset (cts):	1126
Offset (ugC):	-0.523
Reagent Blank (cts):	562
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

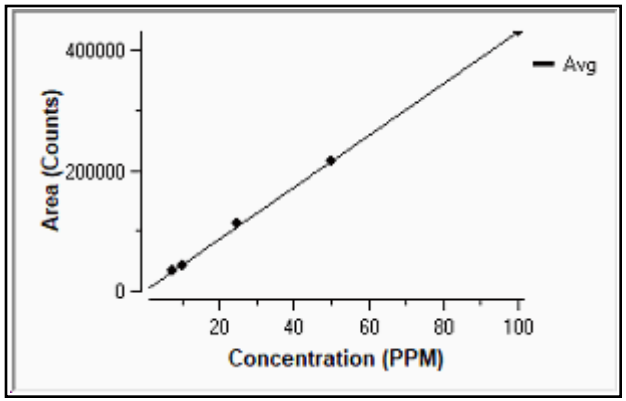
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

Method:	5310C/9060/415.1
Analyte:	Total Organic Carbon
Calibration Date and Time:	8/18/2025 1753
Run Name:	25230CALG03
Instrument:	80742
RF:	0.4535
Volume:	2
Offset/RB area	992

Curve Type: Linear

CAL PT	Xi = True Value	Units	Area Ct	Corrected Area Ct (Area Ct - Offset/RB area)	X'I = Measured Value	Percent Error (X'i - (Xi / Xi)) x 100	Criteria	Pass/Fail
1	1	mg/L	6166	5174	1.17	17.3%	50%	PASS
2	7.5	mg/L	33542	32550	7.38	-1.6%	10%	PASS
3	10	mg/L	43006	42014	9.53	-4.7%	10%	PASS
4	25	mg/L	112747	111755	25.34	1.4%	10%	PASS
5	50	mg/L	220497	219505	49.77	-0.5%	10%	PASS
6	100	mg/L	442383	441391	100.09	0.1%	10%	PASS

Calculation spreadsheet based off of NELAC Calculation Spreadsheet https://nelac-institute.org/news.php?id=2847

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Cust ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	-	Clean Up	2	2	DefaultCleanUpMethod	Clean Up	1 : 1	00000000	TC	30 413	0.000	0.000	177	0.58	
2	1	RINSE	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	2 216	0.506	0.252	0	0.00	Pass
3	2	METHOD BLANK	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	QC Blank	1 : 1	00000000	TOC	1 655	0.000	0.000	0	0.00	
5	3	TOC-RW	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	1 980	0.000	0.000	0	0.00	
6	4	TOC-Std#1-1.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	6 166	2.000	1.000	0	0.00	
7	5	TOC-Std#2-7.500 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	33 542	15.000	7.500	0	0.00	
8	6	TOC-Std#3-10.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	43 006	20.000	10.000	0	0.00	
9	7	TOC-Std#4-25.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	112 747	50.000	25.000	0	0.00	
10	8	TOC-Std#5-50.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	220 497	100.000	50.000	0	0.00	
11	9	TOC-Std#6-100.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	442 383	200.000	100.000	0	0.00	
12	10	RINSE	2	2	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	2 194	0.545	0.273	1 033	47.09	Pass
13	11	ICV	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	112 752	50.682	25.341	0	0.00	Pass
14	12	ICB	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 769	0.353	0.176	0	0.00	Pass

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 By: TOC

Date Approved: By:

Sample Results

Spl #: 1 Sample ID : Clean Up Type : Clean Up Date: 08/18/2025 Status:
Vial #: - Method : DefaultCleanUpMethod Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	3:51 pm	-	-	-	30 538	0.000	0.000
2	08/18/2025	3:55 pm	-	-	-	30 288	0.000	0.000
		Avg.	-	-	-	30 413	0.000	0.000
		Std.Dev.						
		% RSD.				0.58		

Spl #: 2 Sample ID : RINSE Type : Sample Date: 08/18/2025 Status: Pass
Vial #: 1 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	4:02 pm	-	-	-	2 216	0.506	0.252
		Avg.	-	-	-	2 216	0.506	0.252
		Std.Dev.						
		% RSD.				0.00		

Spl #: 3 Sample ID : METHOD BLANK Type : QC Blank Date: 08/18/2025 Status:
Vial #: 2 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	4:09 pm	-	-	-	1 655	0.000	0.000
		Avg.	-	-	-	1 655	0.000	0.000
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 By: TOC

Date Approved: By:

Spl #: 5 Sample ID : TOC-RW Type : Std Date: 08/18/2025 Status:
Vial #: 3 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	4:46 pm	-	-	-	1 980	0.000	0.000
		Avg.	-	-	-	1 980	0.000	0.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 6 Sample ID : TOC-Std#1-1.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 4 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	4:56 pm	-	-	-	6 166	2.000	1.000
		Avg.	-	-	-	6 166	2.000	1.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 7 Sample ID : TOC-Std#2-7.500 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 5 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:04 pm	-	-	-	33 542	15.000	7.500
		Avg.	-	-	-	33 542	15.000	7.500
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 By: TOC

Date Approved: By:

Spl #: 8 Sample ID : TOC-Std#3-10.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 6 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:13 pm	-	-	-	43 006	20.000	10.000
		Avg.	-	-	-	43 006	20.000	10.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 9 Sample ID : TOC-Std#4-25.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 7 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:21 pm	-	-	-	112 747	50.000	25.000
		Avg.	-	-	-	112 747	50.000	25.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 10 Sample ID : TOC-Std#5-50.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 8 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:30 pm	-	-	-	220 497	100.000	50.000
		Avg.	-	-	-	220 497	100.000	50.000
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Spl #: 11 **Sample ID :** TOC-Std#6-100.000 PPM **Type :** Std **Date:** 08/18/2025 **Status:**
Vial #: 9 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:38 pm	-	-	-	442 383	200.000	100.000
		Avg.	-	-	-	442 383	200.000	100.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 12 **Sample ID :** RINSE **Type :** Sample **Date:** 08/18/2025 **Status:** Pass
Vial #: 10 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:48 pm	-	-	-	1 463	0.214	0.107
2	08/18/2025	5:54 pm	-	-	-	2 924	0.876	0.438
		Avg.	-	-	-	2 194	0.545	0.273
		Std.Dev.						
		% RSD.				47.09		

Spl #: 13 **Sample ID :** ICV **Type :** Sample **Date:** 08/18/2025 **Status:** Pass
Vial #: 11 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	6:03 pm	-	-	-	112 752	50.682	25.341
		Avg.	-	-	-	112 752	50.682	25.341
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Spl #:	14	**Sample ID :**	ICB	**Type :**	Sample	**Date:**	08/18/2025	**Status:**	Pass
Vial #:	12	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	6:10 pm	-	-	-	1 769	0.353	0.176
		Avg.	-	-	-	1 769	0.353	0.176
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Method Summary

Method Details

Method Name:	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM
Date Created:	03/10/2021
Time Created:	11:46
Created By:	toc

Analysis Mode: NPOC Only

Sparging Mode:	Internal
Pre-Acid Volume (mL):	1.000
Sparge Time (mm:ss):	02:00

Volumes

Sample Volume (mL):	2.000
Acid Volume (mL):	0.500
Persulfate Volume (mL):	2.500

Other

SysPressure:	20.00

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1

Times

	React	Detect
TIC	01:30	03:00
TOC	02:00	03:00

Temp

	React	Detect
TIC	70	70
TOC	98	98

Outlier Removal Criteria

Enabled:	No
Additional Replicates:	1
Max. % RSD.	10.00

Rinses

Rinse Volume (mL):	15.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Max. Std. Dev. 100 Use Modified Oxidant: No

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Mode

Primary Mode:	TOC
User for ALL Modes:	Enabled

Calibration Pass/Fail Criteria

Parameter	Enabled	Low	High	Failure
R² (ugC/K-cts)	Yes	0.1000	0.3000	Continue
	Yes	0.950	1.000	Continue
Offset (area) (cts)	No	-	-	-
Offset (mass) (ugC)	No	-	-	-
QC Blank(cts)	No	-	-	-

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10.00	Re-run	Continue
QC #1	0.000	10.00	Re-run	Continue
QC #2	0.000	10.00	Re-run	Continue
QC #3	0.000	10.00	Re-run	Continue
QC #4	0.000	10.00	Re-run	Continue
SST	0.000	15.00	Abort	Abort

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TOC
Date Calibrated:	07/17/2025
Time Calibrated:	2:24 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.4641
R2:	0.9999
R:	0.9999
QC Blank(cts):	0
Offset (cts):	1126
Offset (ugC):	-0.523
Reagent Blank (cts):	562
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

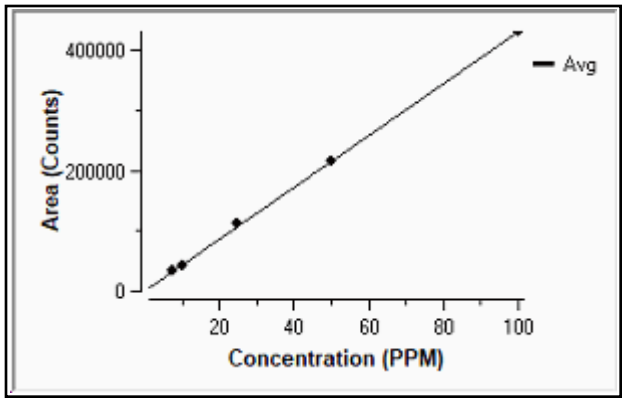
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TOC
Date Calibrated:	08/18/2025
Time Calibrated:	5:38 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.4535
R2:	0.9999
R:	1.0000
QC Blank(cts):	0
Offset (cts):	992
Offset (ugC):	-0.450
Reagent Blank (cts):	1 282
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

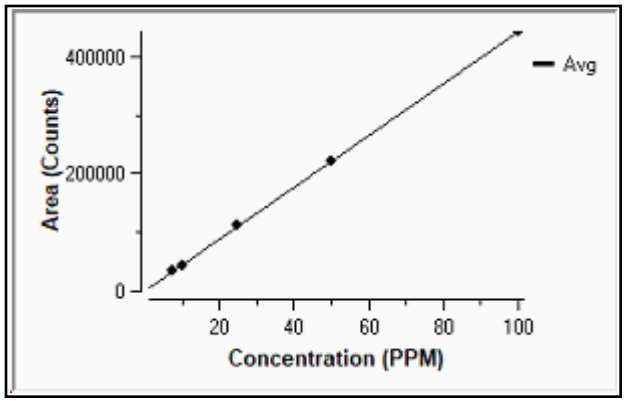
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Cust ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	-	Clean Up	2	2	DefaultCleanUpMethod	Clean Up	1 : 1	00000000	TC	19 048	0.000	0.000	36	0.19	
2	1	MRL	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 133	1.878	0.939	156	3.04	Pass
3	2	100 CHECK	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	431 911	195.418	97.709	6 563	1.52	Pass
4	3	CO CHECK	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 960	0.439	0.220	150	7.65	Pass
5	4	25 TIC CHECK	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	106 101	47.666	23.833	1 902	1.79	Pass
6	5	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	208 126	93.934	46.967	1 381	0.66	Pass
7	6	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 734	0.337	0.168	263	15.17	Pass
8	7	LCS	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	208 950	94.307	47.154	2 390	1.14	Pass
9	8	MB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 571	0.263	0.132	394	25.07	Pass
10	9	620-28495-d-3	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	43 346	19.207	9.604	1 078	2.49	Pass
11	10	620-28495-e-3 DU	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	44 098	19.548	9.774	1 131	2.57	Pass
12	11	620-28495-e-3 MS	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	88 011	39.462	19.731	1 506	1.71	Pass
13	12	620-28538-d-4	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	25 906	11.298	5.649	935	3.61	Pass
14	13	620-28538-o-5	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	16 579	7.069	3.534	301	1.82	Pass
15	14	620-28538-d-7	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	11 203	4.631	2.315	553	4.94	Pass
16	15	620-28538-d-8	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	26 494	11.565	5.783	829	3.13	Pass
17	16	620-28538-d-9	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	2 612	0.735	0.367	269	10.29	Pass
18	17	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	104 257	46.830	23.415	1 720	1.65	Pass
19	18	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 656	0.301	0.151	399	24.08	Pass
20	19	620-28555-d-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 473	2.032	1.016	144	2.64	Pass
21	20	620-28555-d-4	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 410	2.004	1.002	242	4.47	Pass
22	21	620-28555-d-6	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	8 386	3.353	1.677	119	1.42	Pass
23	22	620-28555-d-8	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	13 618	5.726	2.863	305	2.24	Pass

24	23	620-28556-d-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 478	1.581	0.791	191	4.25	Pass
25	24	620-28556-e-2 DU	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 231	1.469	0.735	167	3.95	Pass
26	25	620-28556-e-2 MS	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	48 627	21.602	10.801	550	1.13	Pass
27	26	620-28556-d-4	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 032	1.378	0.689	253	6.28	Pass
28	27	620-28556-d-6	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 192	1.451	0.725	162	3.86	Pass
29	28	620-28556-d-8	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	6 126	2.328	1.164	175	2.86	Pass
30	29	CCVL	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	22 165	9.602	4.801	148	0.67	Pass
31	30	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 467	0.215	0.108	182	12.42	Pass
32	31	410-235982-d-22^50	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	98 275	44.117	22.059	2 662	2.71	Pass
33	32	620-28577-d-4	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	13 710	5.767	2.883	302	2.20	Pass
34	33	620-28577-h-6	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	13 922	5.864	2.932	211	1.52	Pass
35	34	620-28577-d-7	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 842	0.386	0.193	142	7.71	Pass
36	35	410-234907-h-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	6 316	2.414	1.207	125	1.98	Pass
37	36	410-234907-h-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	11 884	4.939	2.470	150	1.26	Pass
38	37	LCS	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	227 232	102.598	51.299	2 308	1.02	Pass
39	38	MB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 460	0.212	0.106	302	20.68	Pass
40	39	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	107 189	48.159	24.079	571	0.53	Pass
41	40	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 420	0.194	0.097	235	16.58	Pass
42	41	410-236298-g-3^10	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	95 113	42.683	21.342	1 417	1.49	Pass
43	42	410-236298-h-3 DU^10	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	104 958	47.148	23.573	1 623	1.55	Pass
44	43	410-236298-h-3 MS^10	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	135 302	60.908	30.454	2 089	1.54	Pass
45	44	410-236298-g-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 796	0.364	0.182	237	13.23	Pass
46	45	410-236298-g-4^25	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	41 152	18.212	9.106	606	1.47	Pass
47	46	410-236320-a-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 551	2.068	1.034	157	2.83	Pass
48	47	410-236320-a-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 524	1.602	0.801	27	0.59	Pass

49	48	410-236320-a-3	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 359	1.980	0.990	120	2.23	Pass
50	49	410-236683-a-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	38 459	16.991	8.496	795	2.07	Pass
51	50	410-236741-b-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	18 276	7.838	3.919	728	3.99	Pass
52	51	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	210 964	95.220	47.611	1 722	0.82	Pass
53	52	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 718	0.329	0.164	357	20.79	Pass
54	53	410-236750-b-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	11 386	4.714	2.357	183	1.61	Pass
55	54	410-236750-b-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	6 992	2.721	1.361	198	2.83	Pass
56	55	680-266382-g-5	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	3 711	1.233	0.616	28	0.74	Pass
57	56	680-266382-G-5 ms	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	49 137	21.833	10.917	697	1.42	Pass

Sample Results

Spl #: 1 Sample ID : Clean Up Type : Clean Up Date: 08/19/2025 Status:
Vial #: - Method : DefaultCleanUpMethod Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	7:08 pm	-	-	-	19 074	0.000	0.000
2	08/19/2025	7:12 pm	-	-	-	19 023	0.000	0.000
		Avg.	-	-	-	19 048	0.000	0.000
		Std.Dev.						
		% RSD.				0.19		

Spl #: 2 Sample ID : MRL Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 1 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	7:19 pm	-	-	-	5 186	1.902	0.951
2	08/19/2025	7:24 pm	-	-	-	4 957	1.798	0.899
3	08/19/2025	7:30 pm	-	-	-	5 254	1.933	0.967
		Avg.	-	-	-	5 133	1.878	0.939
		Std.Dev.						
		% RSD.				3.04		

Spl #: 3 Sample ID : 100 CHECK Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 2 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	7:39 pm	-	-	-	427 795	193.552	96.776
2	08/19/2025	7:45 pm	-	-	-	439 480	198.851	99.425
3	08/19/2025	7:51 pm	-	-	-	428 458	193.852	96.926
		Avg.	-	-	-	431 911	195.418	97.709
		Std.Dev.						
		% RSD.				1.52		

Spl #: 4 Sample ID : CO CHECK Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 3 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	7:58 pm	-	-	-	1 787	0.360	0.180
2	08/19/2025	8:04 pm	-	-	-	2 049	0.479	0.240
3	08/19/2025	8:10 pm	-	-	-	2 044	0.477	0.239
		Avg.	-	-	-	1 960	0.439	0.220
		Std.Dev.						
		% RSD.				7.65		

Spl #: 5 Sample ID : 25 TIC CHECK Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 4 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	8:19 pm	-	-	-	104 035	46.729	23.365
2	08/19/2025	8:24 pm	-	-	-	107 782	48.428	24.214
3	08/19/2025	8:30 pm	-	-	-	106 486	47.841	23.920
		Avg.	-	-	-	106 101	47.666	23.833
		Std.Dev.						
		% RSD.				1.79		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	6	**Sample ID :**	CCV	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	5	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	8:38 pm	-	-	-	207 476	93.639	46.819
2	08/19/2025	8:44 pm	-	-	-	207 191	93.509	46.755
3	08/19/2025	8:49 pm	-	-	-	209 712	94.653	47.326
		Avg.	-	-	-	208 126	93.934	46.967
		Std.Dev.						
		% RSD.				0.66		

Spl #:	7	**Sample ID :**	CCB	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	6	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	8:58 pm	-	-	-	1 556	0.256	0.128
2	08/19/2025	9:03 pm	-	-	-	2 036	0.474	0.237
3	08/19/2025	9:09 pm	-	-	-	1 610	0.280	0.140
		Avg.	-	-	-	1 734	0.337	0.168
		Std.Dev.						
		% RSD.				15.17		

Spl #: 8 Sample ID : LCS Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 7 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	9:18 pm	-	-	-	207 471	93.637	46.818
2	08/19/2025	9:24 pm	-	-	-	207 671	93.727	46.864
3	08/19/2025	9:29 pm	-	-	-	211 706	95.557	47.779
		Avg.	-	-	-	208 950	94.307	47.154
		Std.Dev.						
		% RSD.				1.14		

Spl #: 9 Sample ID : MB Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 8 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	9:37 pm	-	-	-	1 244	0.114	0.057
2	08/19/2025	9:43 pm	-	-	-	2 008	0.461	0.231
3	08/19/2025	9:49 pm	-	-	-	1 462	0.213	0.107
		Avg.	-	-	-	1 571	0.263	0.132
		Std.Dev.						
		% RSD.				25.07		

Spl #: 10 Sample ID : 620-28495-d-3 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 9 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	9:57 pm	-	-	-	42 765	18.944	9.472
2	08/19/2025	10:03 pm	-	-	-	42 682	18.906	9.453
3	08/19/2025	10:09 pm	-	-	-	44 589	19.771	9.886
		Avg.	-	-	-	43 346	19.207	9.604
		Std.Dev.						
		% RSD.				2.49		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 11 **Sample ID :** 620-28495-e-3 DU **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 10 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	10:18 pm	-	-	-	43 086	19.089	9.545
2	08/19/2025	10:23 pm	-	-	-	45 319	20.102	10.051
3	08/19/2025	10:29 pm	-	-	-	43 889	19.454	9.727
		Avg.	-	-	-	44 098	19.548	9.774
		Std.Dev.						
		% RSD.				2.57		

Spl #: 12 **Sample ID :** 620-28495-e-3 MS **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 11 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	10:38 pm	-	-	-	87 731	39.335	19.668
2	08/19/2025	10:44 pm	-	-	-	86 664	38.852	19.426
3	08/19/2025	10:49 pm	-	-	-	89 637	40.200	20.100
		Avg.	-	-	-	88 011	39.462	19.731
		Std.Dev.						
		% RSD.				1.71		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 By: TOC

Date Approved: By:

Spl #: 13 **Sample ID :** 620-28538-d-4 **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 12 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	10:59 pm	-	-	-	25 020	10.896	5.448
2	08/19/2025	11:04 pm	-	-	-	26 884	11.742	5.871
3	08/19/2025	11:10 pm	-	-	-	25 813	11.256	5.628
		Avg.	-	-	-	25 906	11.298	5.649
		Std.Dev.						
		% RSD.				3.61		

Spl #: 14 **Sample ID :** 620-28538-o-5 **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 13 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:18 pm	-	-	-	16 276	6.931	3.466
2	08/19/2025	11:24 pm	-	-	-	16 582	7.070	3.535
3	08/19/2025	11:29 pm	-	-	-	16 879	7.205	3.602
		Avg.	-	-	-	16 579	7.069	3.534
		Std.Dev.						
		% RSD.				1.82		

Spl #: 15 **Sample ID :** 620-28538-d-7 **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 14 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:38 pm	-	-	-	10 568	4.343	2.171
2	08/19/2025	11:44 pm	-	-	-	11 582	4.803	2.401
3	08/19/2025	11:50 pm	-	-	-	11 459	4.746	2.373
		Avg.	-	-	-	11 203	4.631	2.315
		Std.Dev.						
		% RSD.				4.94		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	16	**Sample ID :**	620-28538-d-8	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	15	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:58 pm	-	-	-	26 292	11.473	5.737
2	08/20/2025	12:04 am	-	-	-	25 785	11.243	5.622
3	08/20/2025	12:09 am	-	-	-	27 406	11.978	5.989
		Avg.	-	-	-	26 494	11.565	5.783
		Std.Dev.						
		% RSD.				3.13		

Spl #:	17	**Sample ID :**	620-28538-d-9	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	16	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:18 am	-	-	-	2 665	0.759	0.379
2	08/20/2025	12:23 am	-	-	-	2 851	0.843	0.422
3	08/20/2025	12:29 am	-	-	-	2 321	0.603	0.301
		Avg.	-	-	-	2 612	0.735	0.367
		Std.Dev.						
		% RSD.				10.29		

Spl #: 18 Sample ID : CCV Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 17 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:37 am	-	-	-	103 067	46.290	23.145
2	08/20/2025	12:43 am	-	-	-	103 474	46.475	23.237
3	08/20/2025	12:49 am	-	-	-	106 230	47.725	23.862
		Avg.	-	-	-	104 257	46.830	23.415
		Std.Dev.						
		% RSD.				1.65		

Spl #: 19 Sample ID : CCB Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 18 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:57 am	-	-	-	1 378	0.175	0.088
2	08/20/2025	1:03 am	-	-	-	2 113	0.509	0.254
3	08/20/2025	1:09 am	-	-	-	1 478	0.220	0.110
		Avg.	-	-	-	1 656	0.301	0.151
		Std.Dev.						
		% RSD.				24.08		

Spl #: 20 Sample ID : 620-28555-d-2 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 19 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	1:17 am	-	-	-	5 533	2.059	1.030
2	08/20/2025	1:23 am	-	-	-	5 309	1.958	0.979
3	08/20/2025	1:28 am	-	-	-	5 578	2.080	1.039
		Avg.	-	-	-	5 473	2.032	1.016
		Std.Dev.						
		% RSD.				2.64		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	21	**Sample ID :**	620-28555-d-4	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	20	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	1:37 am	-	-	-	5 203	1.909	0.955
2	08/20/2025	1:43 am	-	-	-	5 676	2.124	1.062
3	08/20/2025	1:48 am	-	-	-	5 352	1.977	0.989
		Avg.	-	-	-	5 410	2.004	1.002
		Std.Dev.						
		% RSD.				4.47		

Spl #:	22	**Sample ID :**	620-28555-d-6	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	21	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	1:57 am	-	-	-	8 507	3.408	1.704
2	08/20/2025	2:02 am	-	-	-	8 268	3.300	1.650
3	08/20/2025	2:08 am	-	-	-	8 382	3.351	1.676
		Avg.	-	-	-	8 386	3.353	1.677
		Std.Dev.						
		% RSD.				1.42		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 By: TOC

Date Approved: By:

Spl #: 23 **Sample ID :** 620-28555-d-8 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 22 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	2:17 am	-	-	-	13 284	5.574	2.787
2	08/20/2025	2:22 am	-	-	-	13 881	5.845	2.923
3	08/20/2025	2:28 am	-	-	-	13 690	5.758	2.879
		Avg.	-	-	-	13 618	5.726	2.863
		Std.Dev.						
		% RSD.				2.24		

Spl #: 24 **Sample ID :** 620-28556-d-2 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 23 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	2:36 am	-	-	-	4 474	1.579	0.790
2	08/20/2025	2:42 am	-	-	-	4 290	1.496	0.748
3	08/20/2025	2:48 am	-	-	-	4 671	1.668	0.834
		Avg.	-	-	-	4 478	1.581	0.791
		Std.Dev.						
		% RSD.				4.25		

Spl #: 25 **Sample ID :** 620-28556-e-2 DU **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 24 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	2:57 am	-	-	-	4 042	1.383	0.692
2	08/20/2025	3:02 am	-	-	-	4 297	1.499	0.749
3	08/20/2025	3:08 am	-	-	-	4 356	1.525	0.763
		Avg.	-	-	-	4 231	1.469	0.735
		Std.Dev.						
		% RSD.				3.95		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	26	**Sample ID :**	620-28556-e-2 MS	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	25	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	3:16 am	-	-	-	48 252	21.432	10.716
2	08/20/2025	3:22 am	-	-	-	48 372	21.486	10.743
3	08/20/2025	3:28 am	-	-	-	49 259	21.889	10.944
		Avg.	-	-	-	48 627	21.602	10.801
		Std.Dev.						
		% RSD.				1.13		

Spl #:	27	**Sample ID :**	620-28556-d-4	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	26	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	3:37 am	-	-	-	3 811	1.278	0.639
2	08/20/2025	3:42 am	-	-	-	4 308	1.504	0.752
3	08/20/2025	3:48 am	-	-	-	3 976	1.353	0.677
		Avg.	-	-	-	4 032	1.378	0.689
		Std.Dev.						
		% RSD.				6.28		

Spl #: 28 Sample ID : 620-28556-d-6 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 27 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	3:56 am	-	-	-	4 221	1.464	0.732
2	08/20/2025	4:02 am	-	-	-	4 017	1.372	0.686
3	08/20/2025	4:07 am	-	-	-	4 336	1.517	0.758
		Avg.	-	-	-	4 192	1.451	0.725
		Std.Dev.						
		% RSD.				3.86		

Spl #: 29 Sample ID : 620-28556-d-8 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 28 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	4:16 am	-	-	-	5 929	2.239	1.120
2	08/20/2025	4:21 am	-	-	-	6 265	2.391	1.196
3	08/20/2025	4:27 am	-	-	-	6 184	2.355	1.177
		Avg.	-	-	-	6 126	2.328	1.164
		Std.Dev.						
		% RSD.				2.86		

Spl #: 30 Sample ID : CCVL Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 29 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	4:35 am	-	-	-	22 077	9.562	4.781
2	08/20/2025	4:41 am	-	-	-	22 081	9.564	4.781
3	08/20/2025	4:46 am	-	-	-	22 336	9.679	4.840
		Avg.	-	-	-	22 165	9.602	4.801
		Std.Dev.						
		% RSD.				0.67		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	31	**Sample ID :**	CCB	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	30	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	4:55 am	-	-	-	1 319	0.148	0.074
2	08/20/2025	5:01 am	-	-	-	1 670	0.308	0.154
3	08/20/2025	5:06 am	-	-	-	1 410	0.190	0.095
		Avg.	-	-	-	1 467	0.215	0.108
		Std.Dev.						
		% RSD.				12.42		

Spl #:	32	**Sample ID :**	410-235982-d-22^50	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	31	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	5:15 am	-	-	-	98 556	44.244	22.122
2	08/20/2025	5:21 am	-	-	-	95 484	42.851	21.426
3	08/20/2025	5:27 am	-	-	-	100 786	45.256	22.628
		Avg.	-	-	-	98 275	44.117	22.059
		Std.Dev.						
		% RSD.				2.71		

Spl #: 33 Sample ID : 620-28577-d-4 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 32 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	5:35 am	-	-	-	13 364	5.611	2.805
2	08/20/2025	5:41 am	-	-	-	13 839	5.826	2.912
3	08/20/2025	5:47 am	-	-	-	13 926	5.865	2.933
		Avg.	-	-	-	13 710	5.767	2.883
		Std.Dev.						
		% RSD.				2.20		

Spl #: 34 Sample ID : 620-28577-h-6 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 33 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	5:55 am	-	-	-	13 678	5.753	2.877
2	08/20/2025	6:00 am	-	-	-	14 060	5.926	2.963
3	08/20/2025	6:06 am	-	-	-	14 027	5.911	2.956
		Avg.	-	-	-	13 922	5.864	2.932
		Std.Dev.						
		% RSD.				1.52		

Spl #: 35 Sample ID : 620-28577-d-7 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 34 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	6:14 am	-	-	-	1 823	0.377	0.188
2	08/20/2025	6:20 am	-	-	-	1 993	0.454	0.227
3	08/20/2025	6:25 am	-	-	-	1 711	0.326	0.163
		Avg.	-	-	-	1 842	0.386	0.193
		Std.Dev.						
		% RSD.				7.71		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 36 **Sample ID :** 410-234907-h-1 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 35 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	6:34 am	-	-	-	6 225	2.373	1.187
2	08/20/2025	6:39 am	-	-	-	6 264	2.391	1.195
3	08/20/2025	6:45 am	-	-	-	6 458	2.479	1.239
		Avg.	-	-	-	6 316	2.414	1.207
		Std.Dev.						
		% RSD.				1.98		

Spl #: 37 **Sample ID :** 410-234907-h-2 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 36 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	6:53 am	-	-	-	11 739	4.874	2.437
2	08/20/2025	6:59 am	-	-	-	11 874	4.935	2.467
3	08/20/2025	7:05 am	-	-	-	12 039	5.010	2.505
		Avg.	-	-	-	11 884	4.939	2.470
		Std.Dev.						
		% RSD.				1.26		

Spl #: 38 **Sample ID :** LCS **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 37 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	7:14 am	-	-	-	228 639	103.236	51.618
2	08/20/2025	7:20 am	-	-	-	224 568	101.390	50.695
3	08/20/2025	7:25 am	-	-	-	228 488	103.168	51.584
		Avg.	-	-	-	227 232	102.598	51.299
		Std.Dev.						
		% RSD.				1.02		

Spl #: 39 **Sample ID :** MB **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 38 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	7:33 am	-	-	-	1 219	0.103	0.051
2	08/20/2025	7:39 am	-	-	-	1 799	0.366	0.183
3	08/20/2025	7:45 am	-	-	-	1 363	0.168	0.084
		Avg.	-	-	-	1 460	0.212	0.106
		Std.Dev.						
		% RSD.				20.68		

Spl #: 40 **Sample ID :** CCV **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 39 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	7:53 am	-	-	-	106 711	47.943	23.971
2	08/20/2025	7:59 am	-	-	-	107 035	48.090	24.045
3	08/20/2025	8:05 am	-	-	-	107 821	48.446	24.222
		Avg.	-	-	-	107 189	48.159	24.079
		Std.Dev.						
		% RSD.				0.53		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	41	**Sample ID :**	CCB	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	40	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	8:13 am	-	-	-	1 258	0.121	0.060
2	08/20/2025	8:19 am	-	-	-	1 690	0.317	0.158
3	08/20/2025	8:24 am	-	-	-	1 312	0.145	0.073
		Avg.	-	-	-	1 420	0.194	0.097
		Std.Dev.						
		% RSD.				16.58		

Spl #:	42	**Sample ID :**	410-236298-g-3^10	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	41	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	8:34 am	-	-	-	94 280	42.305	21.153
2	08/20/2025	8:39 am	-	-	-	94 310	42.319	21.160
3	08/20/2025	8:45 am	-	-	-	96 750	43.425	21.713
		Avg.	-	-	-	95 113	42.683	21.342
		Std.Dev.						
		% RSD.				1.49		

Spl #: 43 Sample ID : 410-236298-h-3 DU^10 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 42 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	8:54 am	-	-	-	103 183	46.343	23.171
2	08/20/2025	9:00 am	-	-	-	106 367	47.787	23.893
3	08/20/2025	9:06 am	-	-	-	105 325	47.314	23.656
		Avg.	-	-	-	104 958	47.148	23.573
		Std.Dev.						
		% RSD.				1.55		

Spl #: 44 Sample ID : 410-236298-h-3 MS^10 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 43 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	9:15 am	-	-	-	134 285	60.447	30.224
2	08/20/2025	9:21 am	-	-	-	133 915	60.280	30.140
3	08/20/2025	9:26 am	-	-	-	137 704	61.998	30.998
		Avg.	-	-	-	135 302	60.908	30.454
		Std.Dev.						
		% RSD.				1.54		

Spl #: 45 Sample ID : 410-236298-g-1 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 44 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	9:34 am	-	-	-	1 926	0.424	0.212
2	08/20/2025	9:40 am	-	-	-	1 939	0.430	0.215
3	08/20/2025	9:45 am	-	-	-	1 521	0.240	0.120
		Avg.	-	-	-	1 796	0.364	0.182
		Std.Dev.						
		% RSD.				13.23		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	46	**Sample ID :**	410-236298-g-4^25	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	45	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	9:54 am	-	-	-	41 303	18.281	9.140
2	08/20/2025	10:00 am	-	-	-	40 486	17.910	8.955
3	08/20/2025	10:05 am	-	-	-	41 669	18.447	9.223
		Avg.	-	-	-	41 152	18.212	9.106
		Std.Dev.						
		% RSD.				1.47		

Spl #:	47	**Sample ID :**	410-236320-a-1	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	46	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	10:14 am	-	-	-	5 448	2.021	1.011
2	08/20/2025	10:20 am	-	-	-	5 733	2.150	1.075
3	08/20/2025	10:26 am	-	-	-	5 473	2.032	1.016
		Avg.	-	-	-	5 551	2.068	1.034
		Std.Dev.						
		% RSD.				2.83		

Spl #: 48 Sample ID : 410-236320-a-2 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 47 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	10:34 am	-	-	-	4 518	1.599	0.800
2	08/20/2025	10:40 am	-	-	-	4 500	1.591	0.796
3	08/20/2025	10:45 am	-	-	-	4 553	1.615	0.808
		Avg.	-	-	-	4 524	1.602	0.801
		Std.Dev.						
		% RSD.				0.59		

Spl #: 49 Sample ID : 410-236320-a-3 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 48 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	10:54 am	-	-	-	5 273	1.941	0.971
2	08/20/2025	10:59 am	-	-	-	5 495	2.042	1.021
3	08/20/2025	11:05 am	-	-	-	5 308	1.957	0.979
		Avg.	-	-	-	5 359	1.980	0.990
		Std.Dev.						
		% RSD.				2.23		

Spl #: 50 Sample ID : 410-236683-a-1 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 49 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	11:13 am	-	-	-	37 997	16.781	8.391
2	08/20/2025	11:19 am	-	-	-	38 003	16.784	8.392
3	08/20/2025	11:25 am	-	-	-	39 378	17.408	8.704
		Avg.	-	-	-	38 459	16.991	8.496
		Std.Dev.						
		% RSD.				2.07		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 51 **Sample ID :** 410-236741-b-1 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 50 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	11:34 am	-	-	-	17 692	7.573	3.787
2	08/20/2025	11:39 am	-	-	-	19 092	8.208	4.104
3	08/20/2025	11:45 am	-	-	-	18 043	7.733	3.866
		Avg.	-	-	-	18 276	7.838	3.919
		Std.Dev.						
		% RSD.				3.99		

Spl #: 52 **Sample ID :** CCV **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 51 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	11:54 am	-	-	-	211 296	95.371	47.686
2	08/20/2025	12:00 pm	-	-	-	209 100	94.375	47.188
3	08/20/2025	12:05 pm	-	-	-	212 496	95.915	47.958
		Avg.	-	-	-	210 964	95.220	47.611
		Std.Dev.						
		% RSD.				0.82		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 53 **Sample ID :** CCB **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 52 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:13 pm	-	-	-	1 501	0.231	0.115
2	08/20/2025	12:19 pm	-	-	-	2 130	0.516	0.258
3	08/20/2025	12:25 pm	-	-	-	1 523	0.241	0.120
		Avg.	-	-	-	1 718	0.329	0.164
		Std.Dev.						
		% RSD.				20.79		

Spl #: 54 **Sample ID :** 410-236750-b-1 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 53 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:33 pm	-	-	-	11 384	4.713	2.356
2	08/20/2025	12:39 pm	-	-	-	11 204	4.631	2.315
3	08/20/2025	12:44 pm	-	-	-	11 570	4.797	2.399
		Avg.	-	-	-	11 386	4.714	2.357
		Std.Dev.						
		% RSD.				1.61		

Spl #: 55 **Sample ID :** 410-236750-b-2 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 54 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:53 pm	-	-	-	6 812	2.639	1.320
2	08/20/2025	12:58 pm	-	-	-	7 203	2.817	1.408
3	08/20/2025	1:04 pm	-	-	-	6 961	2.707	1.354
		Avg.	-	-	-	6 992	2.721	1.361
		Std.Dev.						
		% RSD.				2.83		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 56 **Sample ID :** 680-266382-g-5 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 55 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	1:12 pm	-	-	-	3 705	1.230	0.615
2	08/20/2025	1:18 pm	-	-	-	3 686	1.222	0.611
3	08/20/2025	1:23 pm	-	-	-	3 741	1.246	0.623
		Avg.	-	-	-	3 711	1.233	0.616
		Std.Dev.						
		% RSD.				0.74		

Spl #: 57 **Sample ID :** 680-266382-G-5 ms **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 56 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	1:32 pm	-	-	-	48 454	21.524	10.762
2	08/20/2025	1:37 pm	-	-	-	49 847	22.155	11.078
3	08/20/2025	1:43 pm	-	-	-	49 109	21.821	10.910
		Avg.	-	-	-	49 137	21.833	10.917
		Std.Dev.						
		% RSD.				1.42		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Method Summary

Method Details

Method Name:	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM
Date Created:	03/10/2021
Time Created:	11:46
Created By:	toc

Analysis Mode: NPOC Only

Sparging Mode:	Internal
Pre-Acid Volume (mL):	1.000
Sparge Time (mm:ss):	02:00

Volumes

Sample Volume (mL):	2.000
Acid Volume (mL):	0.500
Persulfate Volume (mL):	2.500

Other

SysPressure:	20.00

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1

Times

	React	Detect
TIC	01:30	03:00
TOC	02:00	03:00

Temp

	React	Detect
TIC	70	70
TOC	98	98

Outlier Removal Criteria

Enabled:	No
Additional Replicates:	1
Max. % RSD.	10.00

Rinses

Rinse Volume (mL):	15.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Max. Std. Dev. 100 Use Modified Oxidant: No

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Mode

Primary Mode:	TOC
User for ALL Modes:	Enabled

Calibration Pass/Fail Criteria

Parameter	Enabled	Low	High	Failure
R² (ugC/K-cts)	Yes	0.1000	0.3000	Continue
	Yes	0.950	1.000	Continue
Offset (area) (cts)	No	-	-	-
Offset (mass) (ugC)	No	-	-	-
QC Blank(cts)	No	-	-	-

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10.00	Re-run	Continue
QC #1	0.000	10.00	Re-run	Continue
QC #2	0.000	10.00	Re-run	Continue
QC #3	0.000	10.00	Re-run	Continue
QC #4	0.000	10.00	Re-run	Continue
SST	0.000	15.00	Abort	Abort

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TOC
Date Calibrated:	08/18/2025
Time Calibrated:	5:38 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.4535
R2:	0.9999
R:	1.0000
QC Blank(cts):	0
Offset (cts):	992
Offset (ugC):	-0.450
Reagent Blank (cts):	1 282
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

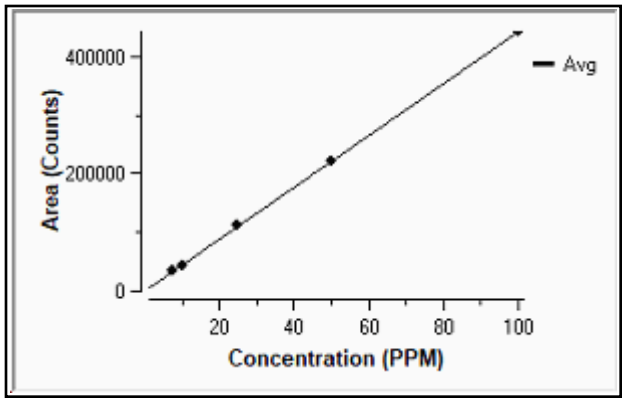
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28495-1

SDG No.:

Batch Number: 685556 Batch Start Date: 08/13/25 17:55 Batch Analyst: Bolf, Jeremy

Batch Method: 2320B-2011 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	CalcMsg	FinalAmount	WC_Alk_LCS 00025	WC_Alk_LCS 00027	WC_Alk_Std 00025	
CCV 410-685556/3		2320B-2011			InitialAmount is blank			# mL		
CCB 410-685556/4		2320B-2011			InitialAmount is blank					
MB 410-685556/5		2320B-2011			InitialAmount is blank					
LCS 410-685556/8		2320B-2011			InitialAmount is blank		# mL			
LCSD 410-685556/9		2320B-2011			InitialAmount is blank		# mL			
410-235979-K-1 MS		2320B-2011		T	InitialAmount is blank	50 mL			1 mL	
410-235979-F-1 DU		2320B-2011		T	InitialAmount is blank					
CCV 410-685556/16		2320B-2011			InitialAmount is blank			# mL		
CCB 410-685556/17		2320B-2011			InitialAmount is blank					
CCV 410-685556/27		2320B-2011			InitialAmount is blank			# mL		
CCB 410-685556/28		2320B-2011			InitialAmount is blank					
620-28495-N-4	FB/250811	2320B-2011	Water	T	InitialAmount is blank					
620-28495-N-3	MW-100E/250811	2320B-2011	Water	T	InitialAmount is blank					
620-28495-N-2	MW-100B/250811	2320B-2011	Water	T	InitialAmount is blank					
CCV 410-685556/38		2320B-2011			InitialAmount is blank			# mL		
CCB 410-685556/39		2320B-2011			InitialAmount is blank					

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 Lancaster Laboratorie Job No.: 620-28495-1

SDG No.:

Batch Number: 685556 Batch Start Date: 08/13/25 17:55 Batch Analyst: Bolf, Jeremy

Batch Method: 2320B-2011 Batch End Date:

Batch Notes	
Nominal Amount Used	25 mL
pH Meter ID	19153
Acid ID	8158428
Normality of First Titrant	0.0217 N
Titrant Standardization Date	07/31/2025
pH Buffer 1 ID	7077197
pH Buffer 2 ID	7077207
pH Buffer 3 ID	7077221

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 Lancaster Laboratorie Job No.: 620-28495-1

SDG No.:

Batch Number: 686490 Batch Start Date: 08/14/25 20:30 Batch Analyst: Cornelius, Ashlynn M

Batch Method: 5310 C-2014 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Res1&2RPD	RPDOK	WC_TOC_QC_STD 00074	
MRL 410-686490/1		5310 C-2014			100 mL	100 mL	5 %	TOC Pass	0.2 mL	
CCVL 410-686490/28		5310 C-2014			500 mL	500 mL	1 %	TOC Pass	5 mL	
CCV 410-686490/62		5310 C-2014			500 mL	500 mL	1 %	TOC Pass	25 mL	
CCB 410-686490/63		5310 C-2014					200 %	TOC Fail		
LCS 410-686490/68		5310 C-2014			500 mL	500 mL	1 %	TOC Pass	50 mL	
MB 410-686490/69		5310 C-2014					200 %	TOC Fail		
410-234924-D-4 DU		5310 C-2014		T			3 %	TOC Pass		
410-234924-D-4 MS		5310 C-2014		T	25 mL	25 mL	0 %	TOC Pass	0.5 mL	
CCVL 410-686490/74		5310 C-2014			500 mL	500 mL	2 %	TOC Pass	5 mL	
CCB 410-686490/75		5310 C-2014					158 %	TOC Fail		
620-28495-D-4	FB/250811	5310 C-2014	Water	T			164 %	TOC Fail		
CCV 410-686490/84		5310 C-2014			500 mL	500 mL	1 %	TOC Pass	25 mL	
CCB 410-686490/85		5310 C-2014					200 %	TOC Fail		

Batch Notes	
Phosphoric Acid ID	7867358
Sodium Persulfate ID	7867359
Pipette/Syringe/Dispenser ID	TOC
Vial Lot Number	2816
Pipette Tip Lot ID	N217836P

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 Lancaster Laboratorie Job No.: 620-28495-1

SDG No.:

Batch Number: 688231 Batch Start Date: 08/19/25 10:35 Batch Analyst: Cornelius, Ashlynn M

Batch Method: 5310 C-2014 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	WC_TIC_QC 00067	WC_TOC_QC_STD 00075		
MRL 410-688231/1		5310 C-2014			100 mL	100 mL		0.2 mL		
CCV 410-688231/4		5310 C-2014			200 mL	200 mL	5 mL	5 mL		
LCS 410-688231/6		5310 C-2014			200 mL	200 mL	5 mL	5 mL		
620-28495-G-3 MS	MW-100E/250811	5310 C-2014		T	25 mL	25 mL		0.25 mL		
CCV 410-688231/16		5310 C-2014			200 mL	200 mL	5 mL	5 mL		

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28495-1

SDG No.:

Batch Number: 688232 Batch Start Date: 08/19/25 19:19 Batch Analyst: Cornelius, Ashlynn M

Batch Method: 5310 C-2014 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Res1&2RPD	RPDOK	WC_TOC_QC_STD 00075	
MRL 410-688232/1		5310 C-2014			100 mL	100 mL	6 %	TOC Pass	0.2 mL	
CCV 410-688232/4		5310 C-2014			500 mL	500 mL	0 %	TOC Pass	50 mL	
CCB 410-688232/5		5310 C-2014					60 %	TOC Fail		
LCS 410-688232/6		5310 C-2014			500 mL	500 mL	0 %	TOC Pass	50 mL	
MB 410-688232/7		5310 C-2014					121 %	TOC Fail		
620-28495-D-3	MW-100E/250811	5310 C-2014	Water	T			0 %	TOC Pass		
620-28495-E-3 DU	MW-100E/250811	5310 C-2014		T			5 %	TOC Pass		
620-28495-E-3 MS	MW-100E/250811	5310 C-2014		T	25 mL	25 mL	1 %	TOC Pass	0.5 mL	
CCV 410-688232/16		5310 C-2014			500 mL	500 mL	0 %	TOC Pass	25 mL	
CCB 410-688232/17		5310 C-2014					97 %	TOC Fail		
CCVL 410-688232/28		5310 C-2014			500 mL	500 mL	0 %	TOC Pass	5 mL	

Batch Notes	
Phosphoric Acid ID	7867358
Sodium Persulfate ID	7867359
Pipette/Syringe/Dispenser ID	TOC
Vial Lot Number	2816
Pipette Tip Lot ID	K199109P

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.

Eurofins Rhode Island
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018 Fax: 413-506-3830

28495

Chain of Custody Record

Albany #224

eurofins | Environment Testing

Client Information	Sampler: KW/NH/JC	Lab PM: Scott, Krishnan F	Carrier Tracking No(s):	COC No: 620-26652-4191 2
Client Contact: ~~Mr. Patrick Sommer~~ Kyle Walker	Phone:	E-Mail: Krishnan Scott@et.eurofinsus com	State of Origin:	Page: ~~Page 2 of 5~~ 1 of 1
Company: Ramboll Americas Engineering Solutions	PWSID:	Analysis Requested		Job #:

Address: 100 Pearl Street East Tower, Third Floor 101 Carnegie Ctr Ste 206	Due Date Requested:	Preservation Codes: A - HCL; N - None; D - HNO3; AA - PhosphorAc
City: ~~Hartford~~ Princeton	TAT Requested (days): Std	
State, Zip: CT, 06103 NJ 08540	Compliance Project: Δ Yes Δ No	
Phone: jscnawles@ramboll com	PO #: 1690000663	
Email: ~~psommer@ramboll com~~ kwalker@ramboll com	WO #:	
Project Name: ESCO Steel Treaters Project	Project #: 62002339	Other:
Site:	SSOW#:	

Samples to be shipped to Eurofins Rhode Island

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Volatile Organic Compounds (GC/MS)	2320B - Total Alkalinity	9056A_ORGFM_28D, 9056A_ORGFM_48H	8270D_SIM_MS_ID - 1,4-Dioxane	6010D - Dissolved Iron (ICP-Trace) - Lab Filter	6010D - Total Ca, Mg, Na and K (ICP-Trace)	SM5310_TC_TIC - Total Inorganic Carbon (TIC)	5310C - Total Organic Carbon	Total Number of containers	Special Instructions/Note:
				Preservation Code:			A	N	N	N	N	D	N	AA		
MW-11/250811	8/11/25	1315	G	Water			X								3	
MW-100B/250811		1300		Water			X	X	X	X	X	X			9	
MW-100E/250811		1505		Water			X	X	X	X	X	X	X	X	15	
FB/250811		1515		Water			X	X	X	X	X	X	X	X	13	
TB/250811	8/11/25	TB	~~TB~~	~~TB~~ Water			X								2	
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

8-11-25

620-28495 COC

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

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	8-11-25 1600	RAMBOLL		8-11-25 1600	EETW
Relinquished by:	8-11-25 1630	EETW	Received by: Nathan W	8/12/25 1107	ERI
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	1.8+0.2 = 2.0 °C #6 iced

Ver: 10/10/2024

Page 1056 of 1058

8/20/2025 8:44:38 PM

28495

ORIGIN ID:DSVA (518) 438-8140
TIM KNOLLMEYER
TESTAMERICA LAB INC
25 KRAFT AVE

ALBANY, NY 12205
UNITED STATES US

SHIP DATE: 11AUG25
ACTWGT: 50.95 LB
CAD: 0930656/CAFE3908
DIMS: 26x15x14 IN

BILL RECIPIENT

TO **SAMPLE RECEIPT**
EUROFINS ENV NEW ENGLAND
646 CAMP AVENUE

NORTH KINGSTOWN RI 02852
(413) 789-9016
REF: RAMBOLL ESCO STEEL

SRCC4/ARES/FF2B

FedEx Express

J2510241114O1uv

TRK# 0201 **4561 8694 5469**

TUE - 12 AUG 10:30A
PRIORITY OVERNIGHT

ED NCOA

02852
RI - US PVD

Part # 156148-434 MTW EXP 01/26

Eurofins Rhode Island
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018 Fax: 413-506-3830

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Scott, Krishnan F	Carrier Tracking No(s): N/A	COC No: 620-23436.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Krishnan.Scott@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New York		Job #: 620-28495-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 8/18/2025			Preservation Codes: -
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: ESCO Steel Treaters Project	Project #: 62002339			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	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)	9056A_ORGFM_48HNitrate (IC)	9056A_ORGFM_28DChloride and Sulfate (IC)	2320BTotal Alkalinity	SM5310_TC_TICTotal Inorganic Carbon (TIC)	5310CTotal Organic Carbon	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
MW-100B/250811 (620-28495-2)	8/11/25	13:00 Eastern	G	Water			X	X	X			3	
MW-100E/250811 (620-28495-3)	8/11/25	15:05 Eastern	G	Water			X	X	X	X	X	5	
FB/250811 (620-28495-4)	8/11/25	15:15 Eastern	G	Water			X	X	X	X	X	5	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	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]	8/12/25 1700	ERI	[signature]	8/12/25 1700	ERI
2	[signature]	8/12/25 2015	ERI	[signature]		
3				[signature]	8/13/25 0815	[illegible]

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 22.2 C23

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Patrick Sommer
Ramboll Americas Engineering Solutions
100 Pearl Street
East Tower, Third Floor
Hartford, Connecticut 06103

Generated 8/20/2025 8:39:03 PM

JOB DESCRIPTION

ESCO Steel Treaters Project

JOB NUMBER

620-28495-1

Eurofins Rhode Island
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

Generated
8/20/2025 8:39:03 PM

Authorized for release by
Michael Chang, Project Manager II
Michael.Chang@et.eurofinsus.com
Designee for
Krishnan Scott, Project Manager I
Krishnan.Scott@et.eurofinsus.com
(401)267-4375

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 6
Detection Summary 7
Client Sample Results 8
Surrogate Summary 19
Isotope Dilution Summary 20
QC Sample Results 21
QC Association Summary 31
Lab Chronicle 34
Certification Summary 36
Method Summary 38
Sample Summary 39
Chain of Custody 40
Receipt Checklists 43

Definitions/Glossary

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28495-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	MS or MSD is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J	Sample result is greater than the MDL but below the CRDL
U	Indicates analyzed for but not detected.

Glossary

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

Glossary (Continued)

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

Job ID: 620-28495-1 Eurofins Rhode Island

Job Narrative
620-28495-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 8/12/2025 11:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

GC/MS VOA
Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 620-51995 recovered outside control limits for the following analyte: Styrene. This analyte was biased high in the LCSD and was not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The large number of analytes included in the continuing calibration verification ((CCVIS 620-51995/3)) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased low): Bromomethane. Affected analytes (biased high): Styrene.

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

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

HPLC/IC
Method 9056A_ORGFM_48H: The continuing calibration verification (CCV) associated with batch 410-684514 recovered above the upper control limit for nitrate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Method 9056A_ORGFM_48H: The laboratory control sample (LCS) for analytical batch 410-684514 recovered outside control limit for nitrate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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

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

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

Detection Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28495-1

Client Sample ID: MW-11/250811 — Lab Sample ID: 620-28495-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.0	J B	10	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	0.39	J	1.0	0.36	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.5		1.0	0.30	ug/L	1		8260C	Total/NA
Trichloroethene	3.1		1.0	0.36	ug/L	1		8260C	Total/NA
Trichlorofluoromethane (Freon 11)	0.23	J	1.0	0.23	ug/L	1		8260C	Total/NA

Client Sample ID: MW-100B/250811 — Lab Sample ID: 620-28495-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.8	J B	10	0.90	ug/L	1		8260C	Total/NA
Benzene	0.39	J	1.0	0.25	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1.2		1.0	0.36	ug/L	1		8260C	Total/NA
1,4-Dioxane	1.6		0.20	0.19	ug/L	1		8270D SIM ID	Total/NA
Chloride	8.82		1.50	0.60	mg/L	1		9056A	Total/NA
Calcium	2.3		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	3.6		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	1.4		1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	48.0		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	127		8.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: MW-100E/250811 — Lab Sample ID: 620-28495-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.5	J B	10	0.90	ug/L	1		8260C	Total/NA
Benzene	0.27	J	1.0	0.25	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	5.9		1.0	0.30	ug/L	1		8260C	Total/NA
Trichloroethene	2.0		1.0	0.36	ug/L	1		8260C	Total/NA
1,4-Dioxane	2.0		0.21	0.20	ug/L	1		8270D SIM ID	Total/NA
Chloride	8.73		1.50	0.60	mg/L	1		9056A	Total/NA
Sulfate	0.65	J	1.50	0.50	mg/L	1		9056A	Total/NA
Calcium	2.1		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	0.52		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	1.7		1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	44.2		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	101		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Organic Carbon	9.6		1.0	0.50	mg/L	1		5310 C-2014	Total/NA
Total Inorganic Carbon	10.7		2.0	0.60	mg/L	1		5310 C-2014	Total/NA

Client Sample ID: FB/250811 — Lab Sample ID: 620-28495-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15	B	10	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: TB/250811 — Lab Sample ID: 620-28495-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.5	J B	10	0.90	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28495-1

Client Sample ID: MW-11/250811

Date Collected: 08/11/25 13:15
Date Received: 08/12/25 11:07

Lab Sample ID: 620-28495-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/13/25 15:29	1
Acetone	**5.0**	**J B**	10	0.90	ug/L			08/13/25 15:29	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/13/25 15:29	1
Benzene	1.0	U	1.0	0.25	ug/L			08/13/25 15:29	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/13/25 15:29	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/13/25 15:29	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 15:29	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/13/25 15:29	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/13/25 15:29	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/13/25 15:29	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 15:29	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 15:29	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 15:29	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/13/25 15:29	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/13/25 15:29	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/13/25 15:29	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/13/25 15:29	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/13/25 15:29	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/13/25 15:29	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/13/25 15:29	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/13/25 15:29	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/13/25 15:29	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 15:29	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/13/25 15:29	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/13/25 15:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/13/25 15:29	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/13/25 15:29	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/13/25 15:29	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/13/25 15:29	1
1,1-Dichloroethane	**0.39**	**J**	1.0	0.36	ug/L			08/13/25 15:29	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/13/25 15:29	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/13/25 15:29	1
cis-1,2-Dichloroethene	**3.5**		1.0	0.30	ug/L			08/13/25 15:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/13/25 15:29	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/13/25 15:29	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/13/25 15:29	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/13/25 15:29	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/13/25 15:29	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/13/25 15:29	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/13/25 15:29	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 15:29	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/13/25 15:29	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/13/25 15:29	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/13/25 15:29	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/13/25 15:29	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 15:29	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/13/25 15:29	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/13/25 15:29	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/13/25 15:29	1

Client Sample ID: MW-11/250811
Lab Sample ID: 620-28495-1

Date Collected: 08/11/25 13:15
Matrix: Water
Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 15:29	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/13/25 15:29	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/13/25 15:29	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/13/25 15:29	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 15:29	1
Toluene	1.0	U	1.0	0.28	ug/L			08/13/25 15:29	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/13/25 15:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/13/25 15:29	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/13/25 15:29	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/13/25 15:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/13/25 15:29	1
Trichloroethene	**3.1**		1.0	0.36	ug/L			08/13/25 15:29	1
Trichlorofluoromethane (Freon 11)	**0.23**	**J**	1.0	0.23	ug/L			08/13/25 15:29	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/13/25 15:29	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/13/25 15:29	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 15:29	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/13/25 15:29	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/13/25 15:29	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/13/25 15:29	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/13/25 15:29	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/13/25 15:29	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 15:29	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/13/25 15:29	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 15:29	1
tert-Butanol	10	U	10	8.5	ug/L			08/13/25 15:29	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/13/25 15:29	1
Ethanol	200	U	200	9.1	ug/L			08/13/25 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*08/13/25 15:29*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/13/25 15:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*08/13/25 15:29*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*08/13/25 15:29*	*1*

Client Sample ID: MW-100B/250811
Lab Sample ID: 620-28495-2

Date Collected: 08/11/25 13:00
Matrix: Water
Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/13/25 15:53	1
Acetone	**5.8**	**J B**	10	0.90	ug/L			08/13/25 15:53	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/13/25 15:53	1
Benzene	**0.39**	**J**	1.0	0.25	ug/L			08/13/25 15:53	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/13/25 15:53	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/13/25 15:53	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 15:53	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/13/25 15:53	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/13/25 15:53	1

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28495-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: MW-100B/250811
Lab Sample ID: 620-28495-2
Date Collected: 08/11/25 13:00
Matrix: Water
Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/13/25 15:53	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 15:53	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 15:53	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 15:53	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/13/25 15:53	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/13/25 15:53	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/13/25 15:53	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/13/25 15:53	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/13/25 15:53	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/13/25 15:53	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/13/25 15:53	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/13/25 15:53	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/13/25 15:53	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 15:53	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/13/25 15:53	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/13/25 15:53	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/13/25 15:53	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/13/25 15:53	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/13/25 15:53	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/13/25 15:53	1
1,1-Dichloroethane	**1.2**		1.0	0.36	ug/L			08/13/25 15:53	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/13/25 15:53	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/13/25 15:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/13/25 15:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/13/25 15:53	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/13/25 15:53	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/13/25 15:53	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/13/25 15:53	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/13/25 15:53	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/13/25 15:53	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/13/25 15:53	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 15:53	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/13/25 15:53	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/13/25 15:53	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/13/25 15:53	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/13/25 15:53	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 15:53	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/13/25 15:53	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/13/25 15:53	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/13/25 15:53	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 15:53	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/13/25 15:53	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/13/25 15:53	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/13/25 15:53	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 15:53	1
Toluene	1.0	U	1.0	0.28	ug/L			08/13/25 15:53	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/13/25 15:53	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/13/25 15:53	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/13/25 15:53	1

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28495-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: MW-100B/250811
Lab Sample ID: 620-28495-2
Date Collected: 08/11/25 13:00
Matrix: Water
Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/13/25 15:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/13/25 15:53	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 15:53	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/13/25 15:53	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/13/25 15:53	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/13/25 15:53	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 15:53	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/13/25 15:53	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/13/25 15:53	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/13/25 15:53	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/13/25 15:53	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/13/25 15:53	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 15:53	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/13/25 15:53	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 15:53	1
tert-Butanol	10	U	10	8.5	ug/L			08/13/25 15:53	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/13/25 15:53	1
Ethanol	200	U	200	9.1	ug/L			08/13/25 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/13/25 15:53*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/13/25 15:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*08/13/25 15:53*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*08/13/25 15:53*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.6**		0.20	0.19	ug/L		08/18/25 18:42	08/20/25 11:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*11*		*10 - 150*	*08/18/25 18:42*	*08/20/25 11:56*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.82**		1.50	0.60	mg/L			08/13/25 09:16	1
Nitrate as N	0.11	U *	0.11	0.050	mg/L			08/13/25 09:16	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/13/25 09:16	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**2.3**		0.50	0.19	mg/L		08/12/25 10:08	08/13/25 14:41	1
Magnesium	**3.6**		0.040	0.038	mg/L		08/12/25 10:08	08/13/25 14:41	1
Potassium	**1.4**		1.0	0.34	mg/L		08/12/25 10:08	08/13/25 14:41	1
Sodium	**48.0**		1.5	0.28	mg/L		08/12/25 10:08	08/13/25 14:41	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/12/25 10:08	08/13/25 15:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	**127**		8.0	2.6	mg/L			08/13/25 20:27	1

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28495-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: MW-100E/250811
Lab Sample ID: 620-28495-3

Date Collected: 08/11/25 15:05
Matrix: Water
Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/13/25 16:17	1
Acetone	**7.5**	**J B**	10	0.90	ug/L			08/13/25 16:17	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/13/25 16:17	1
Benzene	**0.27**	**J**	1.0	0.25	ug/L			08/13/25 16:17	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/13/25 16:17	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/13/25 16:17	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 16:17	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/13/25 16:17	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/13/25 16:17	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/13/25 16:17	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 16:17	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 16:17	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 16:17	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/13/25 16:17	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/13/25 16:17	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/13/25 16:17	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/13/25 16:17	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/13/25 16:17	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/13/25 16:17	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/13/25 16:17	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/13/25 16:17	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/13/25 16:17	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 16:17	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/13/25 16:17	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/13/25 16:17	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/13/25 16:17	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/13/25 16:17	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/13/25 16:17	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/13/25 16:17	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/13/25 16:17	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/13/25 16:17	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/13/25 16:17	1
cis-1,2-Dichloroethene	**5.9**		1.0	0.30	ug/L			08/13/25 16:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/13/25 16:17	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/13/25 16:17	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/13/25 16:17	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/13/25 16:17	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/13/25 16:17	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/13/25 16:17	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/13/25 16:17	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 16:17	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/13/25 16:17	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/13/25 16:17	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/13/25 16:17	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/13/25 16:17	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 16:17	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/13/25 16:17	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/13/25 16:17	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/13/25 16:17	1

Client Sample ID: MW-100E/250811
Lab Sample ID: 620-28495-3
Date Collected: 08/11/25 15:05
Matrix: Water
Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 16:17	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/13/25 16:17	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/13/25 16:17	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/13/25 16:17	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 16:17	1
Toluene	1.0	U	1.0	0.28	ug/L			08/13/25 16:17	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/13/25 16:17	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/13/25 16:17	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/13/25 16:17	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/13/25 16:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/13/25 16:17	1
Trichloroethene	**2.0**		1.0	0.36	ug/L			08/13/25 16:17	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/13/25 16:17	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/13/25 16:17	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/13/25 16:17	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 16:17	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/13/25 16:17	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/13/25 16:17	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/13/25 16:17	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/13/25 16:17	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/13/25 16:17	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 16:17	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/13/25 16:17	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 16:17	1
tert-Butanol	10	U	10	8.5	ug/L			08/13/25 16:17	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/13/25 16:17	1
Ethanol	200	U	200	9.1	ug/L			08/13/25 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*08/13/25 16:17*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/13/25 16:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*08/13/25 16:17*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*08/13/25 16:17*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**2.0**		0.21	0.20	ug/L		08/18/25 18:42	08/20/25 12:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*14*		*10 - 150*	*08/18/25 18:42*	*08/20/25 12:13*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.73**		1.50	0.60	mg/L			08/13/25 09:26	1
Nitrate as N	0.11	U *	0.11	0.050	mg/L			08/13/25 09:26	1
Sulfate	**0.65**	**J**	1.50	0.50	mg/L			08/13/25 09:26	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**2.1**		0.50	0.19	mg/L		08/12/25 10:08	08/13/25 14:47	1
Magnesium	**0.52**		0.040	0.038	mg/L		08/12/25 10:08	08/13/25 14:47	1

Client Sample ID: MW-100E/250811
Lab Sample ID: 620-28495-3
Date Collected: 08/11/25 15:05
Matrix: Water
Date Received: 08/12/25 11:07

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**1.7**		1.0	0.34	mg/L		08/12/25 10:08	08/13/25 14:47	1
Sodium	**44.2**		1.5	0.28	mg/L		08/12/25 10:08	08/13/25 14:47	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/12/25 10:08	08/13/25 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	**101**		8.0	2.6	mg/L			08/13/25 20:20	1
Total Organic Carbon (SM 5310 C-2014)	**9.6**		1.0	0.50	mg/L			08/19/25 21:57	1
Total Inorganic Carbon (SM 5310 C-2014)	**10.7**		2.0	0.60	mg/L			08/19/25 21:57	1

Client Sample ID: FB/250811
Lab Sample ID: 620-28495-4
Date Collected: 08/11/25 15:15
Matrix: Water
Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/13/25 16:41	1
Acetone	**15**	**B**	10	0.90	ug/L			08/13/25 16:41	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/13/25 16:41	1
Benzene	1.0	U	1.0	0.25	ug/L			08/13/25 16:41	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/13/25 16:41	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/13/25 16:41	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 16:41	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/13/25 16:41	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/13/25 16:41	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/13/25 16:41	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 16:41	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 16:41	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 16:41	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/13/25 16:41	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/13/25 16:41	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/13/25 16:41	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/13/25 16:41	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/13/25 16:41	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/13/25 16:41	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/13/25 16:41	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/13/25 16:41	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/13/25 16:41	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 16:41	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/13/25 16:41	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/13/25 16:41	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/13/25 16:41	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/13/25 16:41	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/13/25 16:41	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/13/25 16:41	1

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28495-1

Client Sample ID: FB/250811

Date Collected: 08/11/25 15:15
Date Received: 08/12/25 11:07

Lab Sample ID: 620-28495-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/13/25 16:41	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/13/25 16:41	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/13/25 16:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/13/25 16:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/13/25 16:41	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/13/25 16:41	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/13/25 16:41	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/13/25 16:41	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/13/25 16:41	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/13/25 16:41	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/13/25 16:41	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 16:41	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/13/25 16:41	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/13/25 16:41	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/13/25 16:41	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/13/25 16:41	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 16:41	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/13/25 16:41	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/13/25 16:41	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/13/25 16:41	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 16:41	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/13/25 16:41	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/13/25 16:41	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/13/25 16:41	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 16:41	1
Toluene	1.0	U	1.0	0.28	ug/L			08/13/25 16:41	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/13/25 16:41	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/13/25 16:41	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/13/25 16:41	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/13/25 16:41	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/13/25 16:41	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 16:41	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/13/25 16:41	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/13/25 16:41	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/13/25 16:41	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 16:41	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/13/25 16:41	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/13/25 16:41	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/13/25 16:41	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/13/25 16:41	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/13/25 16:41	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 16:41	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/13/25 16:41	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 16:41	1
tert-Butanol	10	U	10	8.5	ug/L			08/13/25 16:41	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/13/25 16:41	1
Ethanol	200	U	200	9.1	ug/L			08/13/25 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/13/25 16:41*	*1*

Client Sample ID: FB/250811
Lab Sample ID: 620-28495-4
Date Collected: 08/11/25 15:15
Matrix: Water
Date Received: 08/12/25 11:07

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/13/25 16:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*08/13/25 16:41*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*08/13/25 16:41*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.19	ug/L		08/18/25 18:42	08/20/25 12:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*10*		*10 - 150*	*08/18/25 18:42*	*08/20/25 12:31*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.50	U	1.50	0.60	mg/L			08/13/25 09:57	1
Nitrate as N	0.11	U *	0.11	0.050	mg/L			08/13/25 09:57	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/13/25 09:57	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.50	U	0.50	0.19	mg/L		08/12/25 10:08	08/13/25 14:53	1
Magnesium	0.040	U	0.040	0.038	mg/L		08/12/25 10:08	08/13/25 14:53	1
Potassium	1.0	U	1.0	0.34	mg/L		08/12/25 10:08	08/13/25 14:53	1
Sodium	1.5	U	1.5	0.28	mg/L		08/12/25 10:08	08/13/25 14:53	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/12/25 10:08	08/13/25 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	8.0	U	8.0	2.6	mg/L			08/13/25 20:06	1
Total Organic Carbon (SM 5310 C-2014)	1.0	U	1.0	0.50	mg/L			08/15/25 22:39	1
Total Inorganic Carbon (SM 5310 C-2014)	2.0	U	2.0	0.60	mg/L			08/19/25 14:47	1

Client Sample ID: TB/250811
Lab Sample ID: 620-28495-5
Date Collected: 08/11/25 00:00
Matrix: Water
Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/13/25 11:11	1
Acetone	**4.5**	**J B**	10	0.90	ug/L			08/13/25 11:11	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/13/25 11:11	1
Benzene	1.0	U	1.0	0.25	ug/L			08/13/25 11:11	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/13/25 11:11	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/13/25 11:11	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 11:11	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/13/25 11:11	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/13/25 11:11	1

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28495-1

Client Sample ID: TB/250811
Date Collected: 08/11/25 00:00
Date Received: 08/12/25 11:07

Lab Sample ID: 620-28495-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/13/25 11:11	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 11:11	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 11:11	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 11:11	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/13/25 11:11	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/13/25 11:11	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/13/25 11:11	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/13/25 11:11	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/13/25 11:11	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/13/25 11:11	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/13/25 11:11	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/13/25 11:11	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/13/25 11:11	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 11:11	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/13/25 11:11	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/13/25 11:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/13/25 11:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/13/25 11:11	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/13/25 11:11	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/13/25 11:11	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/13/25 11:11	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/13/25 11:11	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/13/25 11:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/13/25 11:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/13/25 11:11	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/13/25 11:11	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/13/25 11:11	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/13/25 11:11	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/13/25 11:11	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/13/25 11:11	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/13/25 11:11	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 11:11	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/13/25 11:11	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/13/25 11:11	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/13/25 11:11	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/13/25 11:11	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 11:11	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/13/25 11:11	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/13/25 11:11	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/13/25 11:11	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 11:11	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/13/25 11:11	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/13/25 11:11	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/13/25 11:11	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 11:11	1
Toluene	1.0	U	1.0	0.28	ug/L			08/13/25 11:11	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/13/25 11:11	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/13/25 11:11	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/13/25 11:11	1

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28495-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: TB/250811
Lab Sample ID: 620-28495-5
Date Collected: 08/11/25 00:00
Matrix: Water
Date Received: 08/12/25 11:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/13/25 11:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/13/25 11:11	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 11:11	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/13/25 11:11	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/13/25 11:11	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/13/25 11:11	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 11:11	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/13/25 11:11	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/13/25 11:11	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/13/25 11:11	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/13/25 11:11	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/13/25 11:11	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 11:11	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/13/25 11:11	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 11:11	1
tert-Butanol	10	U	10	8.5	ug/L			08/13/25 11:11	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/13/25 11:11	1
Ethanol	200	U	200	9.1	ug/L			08/13/25 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*08/13/25 11:11*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/13/25 11:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*08/13/25 11:11*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*08/13/25 11:11*	*1*

Surrogate Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28495-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-28495-1	MW-11/250811	101	100	103	101
620-28495-2	MW-100B/250811	99	98	103	101
620-28495-3	MW-100E/250811	101	99	105	102
620-28495-4	FB/250811	100	100	107	105
620-28495-5	TB/250811	101	99	102	102
LCS 620-51995/4	Lab Control Sample	100	100	96	101
LCSD 620-51995/5	Lab Control Sample Dup	100	100	94	99
MB 620-51995/7	Method Blank	97	98	97	100

Surrogate Legend

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

Isotope Dilution Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28495-1
Project/Site: ESCO Steel Treaters Project

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

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

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DXE (10-150)						
620-28495-2	MW-100B/250811	11						
620-28495-3	MW-100E/250811	14						
620-28495-4	FB/250811	10						
LCS 620-52299/2-A	Lab Control Sample	12						
LCSD 620-52299/3-A	Lab Control Sample Dup	12						
MB 620-52299/1-A	Method Blank	14						

Surrogate Legend

DXE = 1,4-Dioxane-d8

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

Lab Sample ID: MB 620-51995/7
Matrix: Water
Analysis Batch: 51995

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/13/25 10:03	1
Acetone	1.12	J	10	0.90	ug/L			08/13/25 10:03	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/13/25 10:03	1
Benzene	1.0	U	1.0	0.25	ug/L			08/13/25 10:03	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/13/25 10:03	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/13/25 10:03	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 10:03	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/13/25 10:03	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/13/25 10:03	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/13/25 10:03	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 10:03	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 10:03	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/13/25 10:03	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/13/25 10:03	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/13/25 10:03	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/13/25 10:03	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/13/25 10:03	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/13/25 10:03	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/13/25 10:03	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/13/25 10:03	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/13/25 10:03	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/13/25 10:03	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/13/25 10:03	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/13/25 10:03	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/13/25 10:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/13/25 10:03	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/13/25 10:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/13/25 10:03	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/13/25 10:03	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/13/25 10:03	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/13/25 10:03	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/13/25 10:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/13/25 10:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/13/25 10:03	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/13/25 10:03	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/13/25 10:03	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/13/25 10:03	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/13/25 10:03	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/13/25 10:03	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/13/25 10:03	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 10:03	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/13/25 10:03	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/13/25 10:03	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/13/25 10:03	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/13/25 10:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 10:03	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/13/25 10:03	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/13/25 10:03	1

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

Lab Sample ID: MB 620-51995/7
Matrix: Water
Analysis Batch: 51995

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	2.0	U	2.0	0.70	ug/L			08/13/25 10:03	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/13/25 10:03	1
Styrene	1.0	U	1.0	0.42	ug/L			08/13/25 10:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/13/25 10:03	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/13/25 10:03	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 10:03	1
Toluene	1.0	U	1.0	0.28	ug/L			08/13/25 10:03	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/13/25 10:03	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/13/25 10:03	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/13/25 10:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/13/25 10:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/13/25 10:03	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/13/25 10:03	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/13/25 10:03	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/13/25 10:03	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/13/25 10:03	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/13/25 10:03	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/13/25 10:03	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/13/25 10:03	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/13/25 10:03	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/13/25 10:03	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/13/25 10:03	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 10:03	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/13/25 10:03	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/13/25 10:03	1
tert-Butanol	10	U	10	8.5	ug/L			08/13/25 10:03	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/13/25 10:03	1
Ethanol	200	U	200	9.1	ug/L			08/13/25 10:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/13/25 10:03*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/13/25 10:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*08/13/25 10:03*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*08/13/25 10:03*	*1*

Lab Sample ID: LCS 620-51995/4
Matrix: Water
Analysis Batch: 51995

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-Trichlorotrifluoroethane (Freon 113)	20.0	18.0		ug/L		90	72 - 120
Acetone	20.0	14.5		ug/L		72	19 - 144
Acrylonitrile	20.0	20.2		ug/L		101	67 - 141
Benzene	20.0	18.5		ug/L		92	82 - 120
Bromobenzene	20.0	20.0		ug/L		100	80 - 115
Bromochloromethane	20.0	20.5		ug/L		102	84 - 119
Bromodichloromethane	20.0	20.6		ug/L		103	77 - 118
Bromoform	20.0	20.4		ug/L		102	68 - 130

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

Lab Sample ID: LCS 620-51995/4
Matrix: Water
Analysis Batch: 51995

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	8.33		ug/L		42	27 - 151
2-Butanone (MEK)	20.0	13.6		ug/L		68	32 - 126
n-Butylbenzene	20.0	23.4		ug/L		117	81 - 129
sec-Butylbenzene	20.0	21.0		ug/L		105	81 - 124
tert-Butylbenzene	20.0	21.7		ug/L		109	80 - 128
Carbon disulfide	20.0	21.2		ug/L		106	67 - 136
Carbon tetrachloride	20.0	19.2		ug/L		96	70 - 129
Chlorobenzene	20.0	20.3		ug/L		102	82 - 112
Chloroethane	20.0	17.2		ug/L		86	47 - 142
Chloroform	20.0	19.6		ug/L		98	77 - 126
Chloromethane	20.0	13.0		ug/L		65	26 - 159
2-Chlorotoluene	20.0	21.1		ug/L		106	82 - 122
4-Chlorotoluene	20.0	20.8		ug/L		104	79 - 123
1,2-Dibromo-3-Chloropropane	20.0	19.6		ug/L		98	64 - 117
Dibromochloromethane	20.0	18.6		ug/L		93	71 - 126
1,2-Dibromoethane (EDB)	20.0	20.6		ug/L		103	83 - 122
Dibromomethane	20.0	20.2		ug/L		101	83 - 117
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	87 - 118
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	83 - 122
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	81 - 115
Dichlorodifluoromethane (Freon 12)	20.0	11.4		ug/L		57	21 - 147
1,1-Dichloroethane	20.0	19.7		ug/L		99	84 - 122
1,2-Dichloroethane	20.0	18.2		ug/L		91	69 - 121
1,1-Dichloroethene	20.0	18.7		ug/L		93	83 - 123
cis-1,2-Dichloroethene	20.0	20.9		ug/L		104	85 - 122
trans-1,2-Dichloroethene	20.0	20.0		ug/L		100	84 - 123
1,2-Dichloropropane	20.0	20.3		ug/L		102	80 - 124
1,3-Dichloropropane	20.0	20.1		ug/L		100	80 - 118
2,2-Dichloropropane	20.0	21.4		ug/L		107	74 - 125
1,1-Dichloropropene	20.0	21.0		ug/L		105	76 - 120
cis-1,3-Dichloropropene	20.0	21.0		ug/L		105	76 - 125
trans-1,3-Dichloropropene	20.0	22.0		ug/L		110	77 - 132
Ethylbenzene	20.0	21.4		ug/L		107	85 - 116
Hexachlorobutadiene	20.0	19.3		ug/L		97	70 - 127
2-Hexanone (MBK)	20.0	16.0		ug/L		80	40 - 130
Isopropylbenzene	20.0	19.4		ug/L		97	78 - 122
4-Isopropyltoluene	20.0	21.9		ug/L		109	80 - 121
Methyl tert-butyl ether	20.0	20.6		ug/L		103	72 - 126
4-Methyl-2-pentanone (MIBK)	20.0	17.1		ug/L		86	59 - 130
Methylene Chloride	20.0	19.7		ug/L		99	77 - 124
Naphthalene	20.0	18.4		ug/L		92	57 - 133
N-Propylbenzene	20.0	19.7		ug/L		98	86 - 124
Styrene	20.0	23.7		ug/L		119	80 - 121
1,1,1,2-Tetrachloroethane	20.0	19.5		ug/L		98	81 - 113
1,1,2,2-Tetrachloroethane	20.0	19.0		ug/L		95	74 - 115
Tetrachloroethene	20.0	20.2		ug/L		101	78 - 124
Toluene	20.0	19.4		ug/L		97	83 - 114
1,2,3-Trichlorobenzene	20.0	20.8		ug/L		104	73 - 128

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

Lab Sample ID: LCS 620-51995/4
Matrix: Water
Analysis Batch: 51995

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	20.0	21.3		ug/L		107	74 - 128
1,3,5-Trichlorobenzene	20.0	21.2		ug/L		106	81 - 124
1,1,1-Trichloroethane	20.0	20.1		ug/L		101	76 - 124
1,1,2-Trichloroethane	20.0	20.5		ug/L		102	83 - 120
Trichloroethene	20.0	20.1		ug/L		100	79 - 113
Trichlorofluoromethane (Freon 11)	20.0	18.7		ug/L		93	68 - 130
1,2,3-Trichloropropane	20.0	19.4		ug/L		97	74 - 116
1,2,4-Trimethylbenzene	20.0	22.0		ug/L		110	83 - 121
1,3,5-Trimethylbenzene	20.0	21.4		ug/L		107	82 - 125
Vinyl chloride	20.0	15.7		ug/L		78	49 - 145
m,p-Xylene	40.0	45.9		ug/L		115	82 - 128
o-Xylene	20.0	21.2		ug/L		106	83 - 122
Tetrahydrofuran	20.0	20.5		ug/L		102	59 - 134
Ethyl ether	20.0	18.5		ug/L		93	74 - 119
Tert-amyl methyl ether	20.0	19.4		ug/L		97	70 - 122
Ethyl tert-butyl ether	20.0	20.3		ug/L		102	72 - 122
di-Isopropyl ether	20.0	19.8		ug/L		99	66 - 130
tert-Butanol	200	220		ug/L		110	60 - 146
trans-1,4-Dichloro-2-butene	20.0	19.7		ug/L		98	57 - 146
Ethanol	400	425		ug/L		106	53 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 620-51995/5
Matrix: Water
Analysis Batch: 51995

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
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.0		ug/L		90	72 - 120	0	20
Acetone	20.0	14.0		ug/L		70	19 - 144	3	20
Acrylonitrile	20.0	20.7		ug/L		103	67 - 141	3	20
Benzene	20.0	18.9		ug/L		95	82 - 120	2	20
Bromobenzene	20.0	20.3		ug/L		102	80 - 115	2	20
Bromochloromethane	20.0	21.0		ug/L		105	84 - 119	2	20
Bromodichloromethane	20.0	21.6		ug/L		108	77 - 118	4	20
Bromoform	20.0	21.0		ug/L		105	68 - 130	3	20
Bromomethane	20.0	9.25		ug/L		46	27 - 151	10	20
2-Butanone (MEK)	20.0	13.1		ug/L		66	32 - 126	4	20
n-Butylbenzene	20.0	24.2		ug/L		121	81 - 129	3	20
sec-Butylbenzene	20.0	21.7		ug/L		108	81 - 124	3	20
tert-Butylbenzene	20.0	22.0		ug/L		110	80 - 128	1	20
Carbon disulfide	20.0	21.4		ug/L		107	67 - 136	1	20
Carbon tetrachloride	20.0	19.3		ug/L		97	70 - 129	1	20

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

Lab Sample ID: LCSD 620-51995/5
Matrix: Water
Analysis Batch: 51995

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
Chlorobenzene			20.0	20.8		ug/L		104	82 - 112	3	20
Chloroethane			20.0	15.9		ug/L		80	47 - 142	8	20
Chloroform			20.0	20.0		ug/L		100	77 - 126	2	20
Chloromethane			20.0	12.8		ug/L		64	26 - 159	2	20
2-Chlorotoluene			20.0	21.4		ug/L		107	82 - 122	1	20
4-Chlorotoluene			20.0	21.1		ug/L		106	79 - 123	2	20
1,2-Dibromo-3-Chloropropane			20.0	19.5		ug/L		97	64 - 117	0	20
Dibromochloromethane			20.0	18.8		ug/L		94	71 - 126	1	20
1,2-Dibromoethane (EDB)			20.0	21.2		ug/L		106	83 - 122	3	20
Dibromomethane			20.0	20.4		ug/L		102	83 - 117	1	20
1,2-Dichlorobenzene			20.0	20.8		ug/L		104	87 - 118	2	20
1,3-Dichlorobenzene			20.0	20.6		ug/L		103	83 - 122	4	20
1,4-Dichlorobenzene			20.0	19.7		ug/L		98	81 - 115	2	20
Dichlorodifluoromethane (Freon 12)			20.0	11.6		ug/L		58	21 - 147	2	20
1,1-Dichloroethane			20.0	19.8		ug/L		99	84 - 122	0	20
1,2-Dichloroethane			20.0	18.5		ug/L		92	69 - 121	2	20
1,1-Dichloroethene			20.0	19.3		ug/L		96	83 - 123	3	20
cis-1,2-Dichloroethene			20.0	21.2		ug/L		106	85 - 122	2	20
trans-1,2-Dichloroethene			20.0	20.8		ug/L		104	84 - 123	4	20
1,2-Dichloropropane			20.0	21.2		ug/L		106	80 - 124	4	20
1,3-Dichloropropane			20.0	20.5		ug/L		103	80 - 118	2	20
2,2-Dichloropropane			20.0	21.7		ug/L		108	74 - 125	1	20
1,1-Dichloropropene			20.0	21.8		ug/L		109	76 - 120	4	20
cis-1,3-Dichloropropene			20.0	21.3		ug/L		106	76 - 125	1	20
trans-1,3-Dichloropropene			20.0	22.4		ug/L		112	77 - 132	2	20
Ethylbenzene			20.0	22.1		ug/L		111	85 - 116	4	20
Hexachlorobutadiene			20.0	19.8		ug/L		99	70 - 127	2	20
2-Hexanone (MBK)			20.0	15.6		ug/L		78	40 - 130	3	20
Isopropylbenzene			20.0	19.9		ug/L		99	78 - 122	3	20
4-Isopropyltoluene			20.0	22.4		ug/L		112	80 - 121	2	20
Methyl tert-butyl ether			20.0	21.1		ug/L		105	72 - 126	2	20
4-Methyl-2-pentanone (MIBK)			20.0	18.0		ug/L		90	59 - 130	5	20
Methylene Chloride			20.0	20.1		ug/L		100	77 - 124	2	20
Naphthalene			20.0	19.4		ug/L		97	57 - 133	5	20
N-Propylbenzene			20.0	20.3		ug/L		101	86 - 124	3	20
Styrene			20.0	24.3	*	ug/L		122	80 - 121	2	20
1,1,1,2-Tetrachloroethane			20.0	20.1		ug/L		100	81 - 113	3	20
1,1,2,2-Tetrachloroethane			20.0	19.5		ug/L		97	74 - 115	2	20
Tetrachloroethene			20.0	20.7		ug/L		103	78 - 124	2	20
Toluene			20.0	19.9		ug/L		99	83 - 114	2	20
1,2,3-Trichlorobenzene			20.0	21.7		ug/L		109	73 - 128	5	20
1,2,4-Trichlorobenzene			20.0	21.8		ug/L		109	74 - 128	2	20
1,3,5-Trichlorobenzene			20.0	22.2		ug/L		111	81 - 124	4	20
1,1,1-Trichloroethane			20.0	20.7		ug/L		104	76 - 124	3	20
1,1,2-Trichloroethane			20.0	20.7		ug/L		103	83 - 120	1	20
Trichloroethene			20.0	19.9		ug/L		100	79 - 113	1	20
Trichlorofluoromethane (Freon 11)			20.0	19.0		ug/L		95	68 - 130	1	20

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

Lab Sample ID: LCSD 620-51995/5
Matrix: Water
Analysis Batch: 51995

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
1,2,3-Trichloropropane			20.0	19.9		ug/L		100	74 - 116	3	20
1,2,4-Trimethylbenzene			20.0	22.6		ug/L		113	83 - 121	3	20
1,3,5-Trimethylbenzene			20.0	22.1		ug/L		110	82 - 125	3	20
Vinyl chloride			20.0	15.8		ug/L		79	49 - 145	1	20
m,p-Xylene			40.0	47.4		ug/L		119	82 - 128	3	20
o-Xylene			20.0	21.9		ug/L		110	83 - 122	3	20
Tetrahydrofuran			20.0	20.3		ug/L		102	59 - 134	1	20
Ethyl ether			20.0	19.0		ug/L		95	74 - 119	3	20
Tert-amyl methyl ether			20.0	19.8		ug/L		99	70 - 122	2	20
Ethyl tert-butyl ether			20.0	20.8		ug/L		104	72 - 122	3	20
di-Isopropyl ether			20.0	20.2		ug/L		101	66 - 130	2	20
tert-Butanol			200	235		ug/L		118	60 - 146	7	20
trans-1,4-Dichloro-2-butene			20.0	19.6		ug/L		98	57 - 146	0	20
Ethanol			400	373		ug/L		93	53 - 150	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 620-52299/1-A
Matrix: Water
Analysis Batch: 52418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.19	ug/L		08/18/25 18:42	08/20/25 11:03	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*14*		*10 - 150*	*08/18/25 18:42*	*08/20/25 11:03*	*1*

Lab Sample ID: LCS 620-52299/2-A
Matrix: Water
Analysis Batch: 52418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52299

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane			4.00	5.57		ug/L		139	40 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*12*		*10 - 150*

Lab Sample ID: LCSD 620-52299/3-A
Matrix: Water
Analysis Batch: 52418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 52299

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			4.00	4.98		ug/L		125	40 - 140	11	30

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

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Dioxane-d8	12		10 - 150

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 410-684514/5
Matrix: Water
Analysis Batch: 684514

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/13/25 00:30	1

Lab Sample ID: LCS 410-684514/3
Matrix: Water
Analysis Batch: 684514

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.750	0.851	*	mg/L		113	90 - 110

Lab Sample ID: LCSD 410-684514/4
Matrix: Water
Analysis Batch: 684514

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
Nitrate as N	0.750	0.803		mg/L		107	90 - 110	NaN	20

Lab Sample ID: 620-28495-3 MS
Matrix: Water
Analysis Batch: 684514

Client Sample ID: MW-100E/250811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.11	U *	0.500	1.173	*	mg/L		235	90 - 110

Lab Sample ID: 620-28495-3 DU
Matrix: Water
Analysis Batch: 684514

Client Sample ID: MW-100E/250811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.11	U *	0.11	U *	mg/L		NC	15

Lab Sample ID: MB 410-684515/5
Matrix: Water
Analysis Batch: 684515

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.50	U	1.50	0.60	mg/L			08/13/25 00:30	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/13/25 00:30	1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 410-684515/3
Matrix: Water
Analysis Batch: 684515

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			3.00	3.047		mg/L		102	90 - 110		
Sulfate			7.50	7.369		mg/L		98	90 - 110		

Lab Sample ID: LCSD 410-684515/4
Matrix: Water
Analysis Batch: 684515

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
Chloride			3.00	3.041		mg/L		101	90 - 110	0	20
Sulfate			7.50	7.126		mg/L		95	90 - 110	3	20

Lab Sample ID: 620-28495-3 MS
Matrix: Water
Analysis Batch: 684515

Client Sample ID: MW-100E/250811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	8.73		2.00	11.03	*	mg/L		115	90 - 110		
Sulfate	0.65	J	5.00	7.670	*	mg/L		140	90 - 110		

Lab Sample ID: 620-28495-3 DU
Matrix: Water
Analysis Batch: 684515

Client Sample ID: MW-100E/250811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	8.73			8.776		mg/L				0.5	15
Sulfate	0.65	J		0.586	J	mg/L				10	15

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 620-51922/1-A
Matrix: Water
Analysis Batch: 52051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 51922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.50	U	0.50	0.19	mg/L		08/11/25 17:03	08/13/25 13:59	1
Magnesium	0.040	U	0.040	0.038	mg/L		08/11/25 17:03	08/13/25 13:59	1
Potassium	1.0	U	1.0	0.34	mg/L		08/11/25 17:03	08/13/25 13:59	1
Sodium	1.5	U	1.5	0.28	mg/L		08/11/25 17:03	08/13/25 13:59	1

Lab Sample ID: LCS 620-51922/2-A
Matrix: Water
Analysis Batch: 52051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51922

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			4.50	4.26		mg/L		95	80 - 120		
Iron			1.50	1.31		mg/L		87	80 - 120		
Magnesium			1.50	1.42		mg/L		95	80 - 120		
Potassium			15.0	13.91		mg/L		93	80 - 120		
Sodium			4.50	4.29		mg/L		95	80 - 120		

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

Lab Sample ID: MB 620-51971/1-B
Matrix: Water
Analysis Batch: 52051

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 51922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.010	U	0.010	0.0056	mg/L		08/12/25 10:08	08/13/25 15:11	0.1

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-685556/5
Matrix: Water
Analysis Batch: 685556

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	8.0	U	8.0	2.6	mg/L			08/13/25 18:14	1

Lab Sample ID: LCS 410-685556/8
Matrix: Water
Analysis Batch: 685556

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	189	169.6		mg/L		90	80 - 110

Lab Sample ID: LCSD 410-685556/9
Matrix: Water
Analysis Batch: 685556

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
Total Alkalinity	189	171.9		mg/L		91	80 - 110	1	10

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 410-686490/69
Matrix: Water
Analysis Batch: 686490

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.50	mg/L			08/15/25 19:21	1

Lab Sample ID: LCS 410-686490/68
Matrix: Water
Analysis Batch: 686490

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	50.0	51.02		mg/L		102	90 - 110

Lab Sample ID: MRL 410-686490/1
Matrix: Water
Analysis Batch: 686490

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	1.00	1.09		mg/L		109	50 - 150

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav (Continued)

Lab Sample ID: MB 410-688232/7
Matrix: Water
Analysis Batch: 688232

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.50	mg/L			08/19/25 21:37	1

Lab Sample ID: LCS 410-688232/6
Matrix: Water
Analysis Batch: 688232

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			50.0	47.15		mg/L		94	90 - 110		

Lab Sample ID: MRL 410-688232/1
Matrix: Water
Analysis Batch: 688232

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			1.00	0.939	J	mg/L		94	50 - 150		

Lab Sample ID: 620-28495-3 MS
Matrix: Water
Analysis Batch: 688232

Client Sample ID: MW-100E/250811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon	9.6		10.0	19.73		mg/L		101	90 - 110		

Lab Sample ID: 620-28495-3 DU
Matrix: Water
Analysis Batch: 688232

Client Sample ID: MW-100E/250811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon	9.6			9.77		mg/L				2	15

GC/MS VOA

Analysis Batch: 51995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-1	MW-11/250811	Total/NA	Water	8260C	
620-28495-2	MW-100B/250811	Total/NA	Water	8260C	
620-28495-3	MW-100E/250811	Total/NA	Water	8260C	
620-28495-4	FB/250811	Total/NA	Water	8260C	
620-28495-5	TB/250811	Total/NA	Water	8260C	
MB 620-51995/7	Method Blank	Total/NA	Water	8260C	
LCS 620-51995/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-51995/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 52299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-2	MW-100B/250811	Total/NA	Water	3510C	
620-28495-3	MW-100E/250811	Total/NA	Water	3510C	
620-28495-4	FB/250811	Total/NA	Water	3510C	
MB 620-52299/1-A	Method Blank	Total/NA	Water	3510C	
LCS 620-52299/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 620-52299/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 52418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-2	MW-100B/250811	Total/NA	Water	8270D SIM ID	52299
620-28495-3	MW-100E/250811	Total/NA	Water	8270D SIM ID	52299
620-28495-4	FB/250811	Total/NA	Water	8270D SIM ID	52299
MB 620-52299/1-A	Method Blank	Total/NA	Water	8270D SIM ID	52299
LCS 620-52299/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	52299
LCSD 620-52299/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM ID	52299

HPLC/IC

Analysis Batch: 684514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-2	MW-100B/250811	Total/NA	Water	9056A	
620-28495-3	MW-100E/250811	Total/NA	Water	9056A	
620-28495-4	FB/250811	Total/NA	Water	9056A	
MB 410-684514/5	Method Blank	Total/NA	Water	9056A	
LCS 410-684514/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 410-684514/4	Lab Control Sample Dup	Total/NA	Water	9056A	
620-28495-3 MS	MW-100E/250811	Total/NA	Water	9056A	
620-28495-3 DU	MW-100E/250811	Total/NA	Water	9056A	

Analysis Batch: 684515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-2	MW-100B/250811	Total/NA	Water	9056A	
620-28495-3	MW-100E/250811	Total/NA	Water	9056A	
620-28495-4	FB/250811	Total/NA	Water	9056A	
MB 410-684515/5	Method Blank	Total/NA	Water	9056A	
LCS 410-684515/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 410-684515/4	Lab Control Sample Dup	Total/NA	Water	9056A	
620-28495-3 MS	MW-100E/250811	Total/NA	Water	9056A	
620-28495-3 DU	MW-100E/250811	Total/NA	Water	9056A	

Metals

Prep Batch: 51922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-2	MW-100B/250811	Dissolved	Water	3005A	51971
620-28495-2	MW-100B/250811	Total/NA	Water	3005A	
620-28495-3	MW-100E/250811	Dissolved	Water	3005A	51971
620-28495-3	MW-100E/250811	Total/NA	Water	3005A	
620-28495-4	FB/250811	Dissolved	Water	3005A	51971
620-28495-4	FB/250811	Total/NA	Water	3005A	
MB 620-51922/1-A	Method Blank	Total/NA	Water	3005A	
MB 620-51971/1-B	Method Blank	Dissolved	Water	3005A	51971
LCS 620-51922/2-A	Lab Control Sample	Total/NA	Water	3005A	

Filtration Batch: 51971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-2	MW-100B/250811	Dissolved	Water	Filtration	
620-28495-3	MW-100E/250811	Dissolved	Water	Filtration	
620-28495-4	FB/250811	Dissolved	Water	Filtration	
MB 620-51971/1-B	Method Blank	Dissolved	Water	Filtration	

Analysis Batch: 52051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-2	MW-100B/250811	Dissolved	Water	6010D	51922
620-28495-2	MW-100B/250811	Total/NA	Water	6010D	51922
620-28495-3	MW-100E/250811	Dissolved	Water	6010D	51922
620-28495-3	MW-100E/250811	Total/NA	Water	6010D	51922
620-28495-4	FB/250811	Dissolved	Water	6010D	51922
620-28495-4	FB/250811	Total/NA	Water	6010D	51922
MB 620-51922/1-A	Method Blank	Total/NA	Water	6010D	51922
MB 620-51971/1-B	Method Blank	Dissolved	Water	6010D	51922
LCS 620-51922/2-A	Lab Control Sample	Total/NA	Water	6010D	51922

General Chemistry

Analysis Batch: 685556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-2	MW-100B/250811	Total/NA	Water	2320B-2011	
620-28495-3	MW-100E/250811	Total/NA	Water	2320B-2011	
620-28495-4	FB/250811	Total/NA	Water	2320B-2011	
MB 410-685556/5	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-685556/8	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 410-685556/9	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 686490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-4	FB/250811	Total/NA	Water	5310 C-2014	
MB 410-686490/69	Method Blank	Total/NA	Water	5310 C-2014	
LCS 410-686490/68	Lab Control Sample	Total/NA	Water	5310 C-2014	
MRL 410-686490/1	Lab Control Sample	Total/NA	Water	5310 C-2014	

Analysis Batch: 688232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-3	MW-100E/250811	Total/NA	Water	5310 C-2014	
MB 410-688232/7	Method Blank	Total/NA	Water	5310 C-2014	

General Chemistry (Continued)

Analysis Batch: 688232 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-688232/6	Lab Control Sample	Total/NA	Water	5310 C-2014	
MRL 410-688232/1	Lab Control Sample	Total/NA	Water	5310 C-2014	
620-28495-3 MS	MW-100E/250811	Total/NA	Water	5310 C-2014	
620-28495-3 DU	MW-100E/250811	Total/NA	Water	5310 C-2014	

Analysis Batch: 688387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28495-3	MW-100E/250811	Total/NA	Water	5310 C-2014	
620-28495-4	FB/250811	Total/NA	Water	5310 C-2014	

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28495-1

Client Sample ID: MW-11/250811
Date Collected: 08/11/25 13:15
Date Received: 08/12/25 11:07

Lab Sample ID: 620-28495-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	51995	CLR	EET RI	08/13/25 15:29

Client Sample ID: MW-100B/250811
Date Collected: 08/11/25 13:00
Date Received: 08/12/25 11:07

Lab Sample ID: 620-28495-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	51995	CLR	EET RI	08/13/25 15:53
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 11:56
Total/NA	Analysis	9056A		1	684514	L4QM	ELLE	08/13/25 09:16
Total/NA	Analysis	9056A		1	684515	L4QM	ELLE	08/13/25 09:16
Dissolved	Prep	3005A			51922	SRC	EET RI	08/12/25 10:08
Dissolved	Filtration	Filtration			51971	DJW	EET RI	08/12/25 12:45
Dissolved	Analysis	6010D		1	52051	JPC	EET RI	08/13/25 15:17
Total/NA	Prep	3005A			51922	SRC	EET RI	08/12/25 10:08
Total/NA	Analysis	6010D		1	52051	JPC	EET RI	08/13/25 14:41
Total/NA	Analysis	2320B-2011		1	685556	DI9Q	ELLE	08/13/25 20:27

Client Sample ID: MW-100E/250811
Date Collected: 08/11/25 15:05
Date Received: 08/12/25 11:07

Lab Sample ID: 620-28495-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	51995	CLR	EET RI	08/13/25 16:17
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 12:13
Total/NA	Analysis	9056A		1	684514	L4QM	ELLE	08/13/25 09:26
Total/NA	Analysis	9056A		1	684515	L4QM	ELLE	08/13/25 09:26
Dissolved	Prep	3005A			51922	SRC	EET RI	08/12/25 10:08
Dissolved	Filtration	Filtration			51971	DJW	EET RI	08/12/25 12:45
Dissolved	Analysis	6010D		1	52051	JPC	EET RI	08/13/25 15:23
Total/NA	Prep	3005A			51922	SRC	EET RI	08/12/25 10:08
Total/NA	Analysis	6010D		1	52051	JPC	EET RI	08/13/25 14:47
Total/NA	Analysis	2320B-2011		1	685556	DI9Q	ELLE	08/13/25 20:20
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/19/25 21:57
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/19/25 21:57

Client Sample ID: FB/250811
Date Collected: 08/11/25 15:15
Date Received: 08/12/25 11:07

Lab Sample ID: 620-28495-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	51995	CLR	EET RI	08/13/25 16:41

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28495-1

Client Sample ID: FB/250811

Date Collected: 08/11/25 15:15
Date Received: 08/12/25 11:07

Lab Sample ID: 620-28495-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 12:31
Total/NA	Analysis	9056A		1	684514	L4QM	ELLE	08/13/25 09:57
Total/NA	Analysis	9056A		1	684515	L4QM	ELLE	08/13/25 09:57
Dissolved	Prep	3005A			51922	SRC	EET RI	08/12/25 10:08
Dissolved	Filtration	Filtration			51971	DJW	EET RI	08/12/25 12:45
Dissolved	Analysis	6010D		1	52051	JPC	EET RI	08/13/25 15:29
Total/NA	Prep	3005A			51922	SRC	EET RI	08/12/25 10:08
Total/NA	Analysis	6010D		1	52051	JPC	EET RI	08/13/25 14:53
Total/NA	Analysis	2320B-2011		1	685556	DI9Q	ELLE	08/13/25 20:06
Total/NA	Analysis	5310 C-2014		1	686490	P684	ELLE	08/15/25 22:39
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/19/25 14:47

Client Sample ID: TB/250811

Date Collected: 08/11/25 00:00
Date Received: 08/12/25 11:07

Lab Sample ID: 620-28495-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	51995	CLR	EET RI	08/13/25 11:11

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28495-1
Project/Site: ESCO Steel Treaters Project

Laboratory: Eurofins Rhode Island

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11393	03-31-26

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

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C		Water	1,2,3-Trichlorobenzene
8260C		Water	1,3,5-Trichlorobenzene
8260C		Water	4-Isopropyltoluene
8260C		Water	Chloromethane
8260C		Water	di-Isopropyl ether
8260C		Water	Ethyl tert-butyl ether
8260C		Water	Isopropylbenzene
8270D SIM ID	3510C	Water	1,4-Dioxane

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-26
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-26
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-26
Connecticut	State	PH-0746	06-30-27
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	07-01-26
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-26
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-26
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-26
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-26
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-31-26
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28495-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET RI
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET RI
9056A	Anions, Ion Chromatography	SW846	ELLE
6010D	Metals (ICP)	SW846	EET RI
2320B-2011	Alkalinity, Total	SM	ELLE
5310 C-2014	Total Organic Carbon/Persulfate - Ultrav	SM	ELLE
3005A	Preparation, Total Metals	SW846	EET RI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET RI
5030C	Purge and Trap	SW846	EET RI
Filtration	Sample Filtration	None	EET RI

Protocol References:

None = None

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

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

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28495-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
620-28495-1	MW-11/250811	Water	08/11/25 13:15	08/12/25 11:07	New York
620-28495-2	MW-100B/250811	Water	08/11/25 13:00	08/12/25 11:07	New York
620-28495-3	MW-100E/250811	Water	08/11/25 15:05	08/12/25 11:07	New York
620-28495-4	FB/250811	Water	08/11/25 15:15	08/12/25 11:07	New York
620-28495-5	TB/250811	Water	08/11/25 00:00	08/12/25 11:07	New York

Eurofins Rhode Island
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018 Fax: 413-506-3830

28495

Chain of Custody Record

Albany #224

eurofins | Environment Testing

Client Information	Sampler: KW/NH/JC	Lab PM: Scott, Krishnan F	Carrier Tracking No(s):	COC No: 620-26652-4191 2
Client Contact: ~~Mr. Patrick Sommer~~ Kyle Walker	Phone:	E-Mail: Krishnan Scott@et.eurofinsus com	State of Origin:	Page: ~~Page 2 of 5~~ 1 of 1
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 100 Pearl Street East Tower, Third Floor 101 Carnegie Ctr Ste 206	Due Date Requested:			
City: ~~Hartford~~ Princeton	TAT Requested (days): Std			
State, Zip: CT, 06103 NJ 08540	Compliance Project: Δ Yes Δ No			
Phone: jscranles@ramboll.com	PO #: 1690000663			
Email: ~~psommer@ramboll.com~~ kwalker@ramboll.com	WO #:			
Project Name: ESCO Steel Treaters Project	Project #: 62002339			
Site:	SSOW#:			

Samples to be shipped to Eurofins Rhode Island

Analysis Requested

Preservation Codes:
A - HCL
N - None
D - HNO3
AA - PhosphorAc
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, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Volatile Organic Compounds (GC/MS)	2320B - Total Alkalinity	9056A_ORGFM_28D, 9056A_ORGFM_48H	8270D_SIM_MS_ID - 1,4-Dioxane	6010D - Dissolved Iron (ICP-Trace) - Lab Filter	6010D - Total Ca, Mg, Na and K (ICP-Trace)	SM5310_TC_TIC - Total Inorganic Carbon (TIC)	5310C - Total Organic Carbon	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	N	N	N	N	D	N	AA		
1 MW-11/250811	8/11/25	1315	G	Water			X								3	
2 MW-100B/250811		1300		Water			X	X	X	X	X	X			9	
3 MW-100E/250811		1505		Water			X	X	X	X	X	X	X	X	15	
4 FB/250811		1515		Water			X	X	X	X	X	X	X	X	13	
5 TB/250811	8/11/25	TB	TB	~~TB~~ Water			X								2	
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

620-28495 COC

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

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	8-11-25 1600	RAMBOLL		8-11-25 1600	EETW
	8-11-25 1630	EETW	Nathan W	8/12/25 1107	ERI

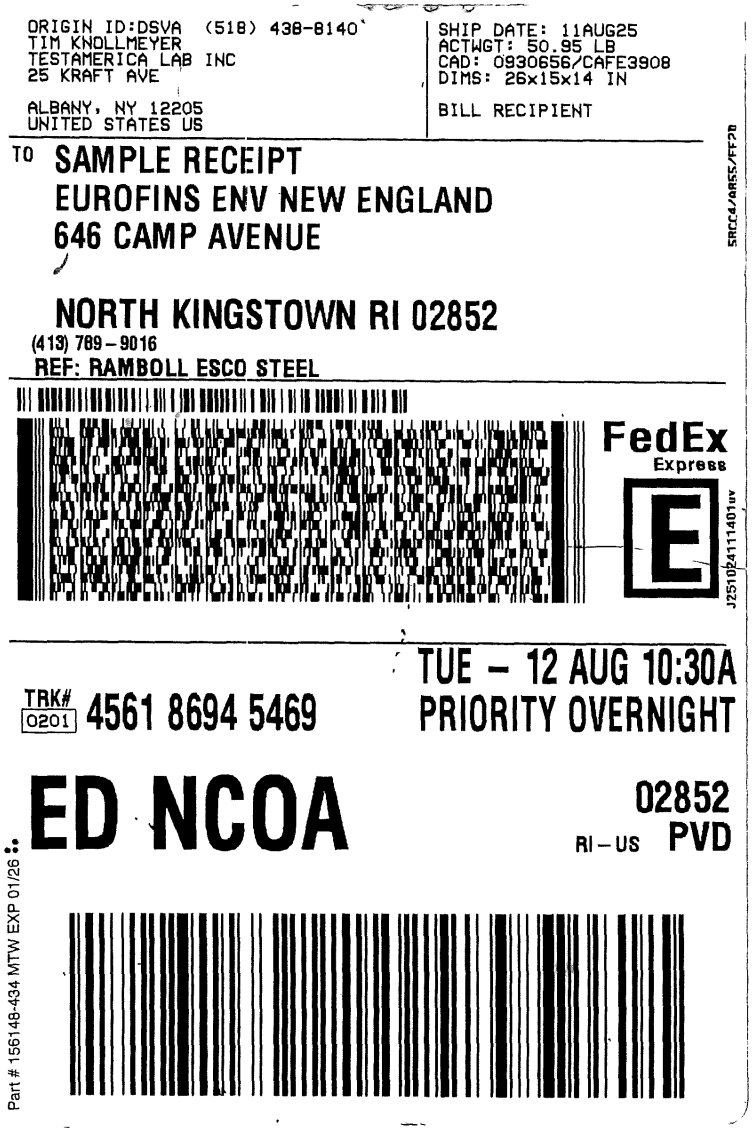
Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		1.8+0.2 = 2.0°C #6 iced

Ver: 10/10/2024

Page 40 of 44

1 2 3 4 5

8/20/2025



ORIGIN ID:DSVA (518) 438-8140
TIM KNOLLMEYER
TESTAMERICA LAB INC
25 KRAFT AVE

ALBANY, NY 12205
UNITED STATES US

SHIP DATE: 11AUG25
ACTWGT: 50.95 LB
CAD: 0930656/CAFE3908
DIMS: 26x15x14 IN

BILL RECIPIENT

TO SAMPLE RECEIPT
EUROFINS ENV NEW ENGLAND
646 CAMP AVENUE

NORTH KINGSTOWN RI 02852
(413) 789-9016
REF: RAMBOLL ESCO STEEL

FedEx Express

TRK# 0201 4561 8694 5469

TUE - 12 AUG 10:30A
PRIORITY OVERNIGHT

ED NCOA

02852
RI-US PVD

Part # 156148-434 MTW EXP 01/26

SRCC4/0855/FF2B

J2510241114011uv

28495

Eurofins Rhode Island
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018 Fax: 413-506-3830

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Scott, Krishnan F	Carrier Tracking No(s): N/A	COC No: 620-23436.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Krishnan.Scott@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New York		Job #: 620-28495-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 8/18/2025			Preservation Codes: -
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: ESCO Steel Treaters Project	Project #: 62002339			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	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)	9056A_ORGFM_48HNitrate (IC)	9056A_ORGFM_28DChloride and Sulfate (IC)	2320BTotal Alkalinity	SM5310_TC_TICTotal Inorganic Carbon (TIC)	5310CTotal Organic Carbon	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
MW-100B/250811 (620-28495-2)	8/11/25	13:00 Eastern	G	Water			X	X	X			2	
MW-100E/250811 (620-28495-3)	8/11/25	15:05 Eastern	G	Water			X	X	X	X	X	2	
FB/250811 (620-28495-4)	8/11/25	15:15 Eastern	G	Water			X	X	X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Nathan H.	8/12/25 1700	ERI		8/12/25 1700	ERI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/12/25 2015	ERI			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				8/13/25 0815	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s)°C and Other Remarks: 22.2 C2.3

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 620-28495-1

Login Number: 28495
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins Rhode Island

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 620-28495-1

Login Number: 28495
List Number: 2
Creator: Cyms, Carolyn M

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 08/13/25 07:55 AM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Patrick Sommer
Ramboll Americas Engineering Solutions
100 Pearl Street
East Tower, Third Floor
Hartford CT 06103

Generated 09/09/2025

JOB DESCRIPTION

ESCO Steel Treaters Project

JOB NUMBER

620-28538-1

Eurofins Rhode Island
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

myEOL

Eurofins Rhode Island

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

Generated
09/09/2025

Authorized for release by
Krishnan F Scott, Project Manager I
Krishnan.Scott@et.eurofinsus.com
401 267-4375

Table of Contents

Cover Page 1
Data Summaries 6
Report Narrative 6
Sample Summary 8
Detection Summary 9
Method Summary 13
Client Sample Results 14
Surrogate Summary 43
Isotope Dilution Summary 44
QC Sample Results 45
Definitions 62
QC Association 64
Chronicle 68
Certification Summary 72
Reagent Traceability 74
COAs 85
Organic Sample Data 173
GC/MS VOA 173
Method 8260C 173
Method 8260C QC Summary 174
Method 8260C Sample Data 191
Standards Data 427
Method 8260C ICAL Data 427
Method 8260C CCAL Data 610
Raw QC Data 649
Method 8260C Tune Data 649
Method 8260C Blank Data 661
Method 8260C LCS/LCSD Data 681
Method 8260C Run Logs 722
Method 8260C Prep Data 725
GC/MS Semi VOA 731
8270D_SIM_MS_ID 731
8270D_SIM_MS_ID QC Summary 732
8270D_SIM_MS_ID Sample Data 740
Standards Data 777
8270D_SIM_MS_ID ICAL Data 777
8270D_SIM_MS_ID CCAL Data 799
Raw QC Data 807
8270D_SIM_MS_ID Tune Data 807
8270D_SIM_MS_ID Blank Data 825
8270D_SIM_MS_ID LCS/LCSD Data 829

Table of Contents

8270D_SIM_MS_ID Run Logs 838
8270D_SIM_MS_ID Prep Data 840
HPLC/IC 843
9056A_ORGFM_28D 843
9056A_ORGFM_28D QC Summary 844
9056A_ORGFM_28D Sample Data 853
Standards Data 874
9056A_ORGFM_28D ICAL Data 874
9056A_ORGFM_28D CCAL Data 936
Raw QC Data 988
9056A_ORGFM_28D Blank Data 988
9056A_ORGFM_28D LCS/LCSD Data 1025
9056A_ORGFM_28D MS/MSD Data 1037
9056A_ORGFM_28D Duplicate/Triplicate Data 1046
9056A_ORGFM_28D Run Logs 1052
9056A_ORGFM_28D Prep Data 1058
9056A_ORGFM_28D 1062
9056A_ORGFM_48H 1063
9056A_ORGFM_48H QC Summary 1064
9056A_ORGFM_48H Sample Data 1068
Standards Data 1090
9056A_ORGFM_48H ICAL Data 1090
9056A_ORGFM_48H CCAL Data 1113
Raw QC Data 1131
9056A_ORGFM_48H Blank Data 1131
9056A_ORGFM_48H LCS/LCSD Data 1146
9056A_ORGFM_48H MS/MSD Data 1152
9056A_ORGFM_48H Duplicate/Triplicate Data 1155
9056A_ORGFM_48H Run Logs 1158
9056A_ORGFM_48H Prep Data 1161
Inorganic Sample Data 1164
Metals Data 1164
Met Cover Page 1165
Met Sample Data 1166
Met QC Data 1178
Met ICV/CCV 1178
Met CRQL 1180
Met Blanks 1181
Met ICSA/ICSAB 1184
Met MS/MSD/PDS 1186
Met Dup/Trip 1187

Table of Contents

Met LCS/LCSD 1188
Met MDL 1189
Met Linear Ranges 1193
Met Preparation Log 1194
Met Analysis Run Log 1195
Met ICP/MS Int Stds 1197
Met Prep Data 1198
General Chemistry Data 1201
Gen Chem Cover Page 1202
Gen Chem Sample Data 1203
Gen Chem QC Data 1209
Gen Chem ICV/CCV 1209
Gen Chem Blanks 1211
Gen Chem MS/MSD/PDS 1212
Gen Chem Duplicates 1213
Gen Chem LCS/LCSD 1214
Gen Chem MDL 1217
Gen Chem Linear Ranges 1223
Gen Chem Analysis Run Log 1224
Gen Chem Raw Data 1232
Gen Chem Prep Data 1306
Subcontracted Data 1310
Shipping and Receiving Documents 1311
Client Chain of Custody 1312
Sample Receipt Checklist 1315

Job Narrative
620-28538-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 8/13/2025 11:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

GC/MS VOA
Method 8260C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 620-52091 recovered outside control limits for the following analyte: Carbon tetrachloride. This analyte was biased high in the LCS and was not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-52091 recovered outside n-house control limits for the following analytes: Bromodichloromethane and Styrene. These analytes were biased high in the LCS but recovered within 70-130%. According to 8260C requirements, analytes are allowed to recover outside in-house control limits as long as recovery is within the method limit of 70-130%; therefore, the data have been reported.

Method 8260C: The large number of analytes included in the continuing calibration verification ((CCVIS 620-52091/3)) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased high): tert-Butylbenzene, Carbon tetrachloride, Styrene, 1,2,4-Trimethylbenzene, m,p-Xylene and o-Xylene.

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 620-52137 recovered outside control limits for the following analyte: Acetone.

Method 8260C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 620-52137 recovered outside control limits for the following analytes: Carbon tetrachloride. This analyte was biased high in the LCS and was not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-52137 recovered outside in-house control limits for the following analytes: Bromodichloromethane. This analyte was biased high in the LCS but recovered within 70-130%. According to 8260C requirements, analytes are allowed to recover outside in-house control limits as long as recovery is within the method limit of 70-130%; therefore, the data have been reported.

Method 8260C: The large number of analytes included in the continuing calibration verification ((CCVIS 620-52137/3)) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased high): Carbon tetrachloride. Affected analytes (biased low): Naphthalene.

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

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary

page.

HPLC/IC
Method 9056A_ORGFM_48H: The following sample(s) was received with less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: DUP/250812 (620-28538-8).

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

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

General Chemistry
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
Job ID: 620-28538-1
Project/Site: ESCO Steel Treaters Project

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
620-28538-1	MW-104I/250812	Water	08/12/25 10:00	08/13/25 11:01	New York
620-28538-2	MW-104E/250812	Water	08/12/25 12:50	08/13/25 11:01	New York
620-28538-3	MW-101I/250812	Water	08/12/25 11:35	08/13/25 11:01	New York
620-28538-4	MW-100I/250812	Water	08/12/25 12:15	08/13/25 11:01	New York
620-28538-5	MW-103ER/250812	Water	08/12/25 13:05	08/13/25 11:01	New York
620-28538-6	MW-103B/250812	Water	08/12/25 14:30	08/13/25 11:01	New York
620-28538-7	MW-102ER/250812	Water	08/12/25 14:45	08/13/25 11:01	New York
620-28538-8	DUP/250812	Water	08/12/25 00:00	08/13/25 11:01	New York
620-28538-9	FB/250812	Water	08/12/25 15:00	08/13/25 11:01	New York
620-28538-10	TB/250812	Water	08/12/25 00:00	08/13/25 11:01	New York

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28538-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: MW-104I/250812 — Lab Sample ID: 620-28538-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.6	J	10	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	9.3		1.0	0.36	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	2.0		1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	120	E	1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	3.9		1.0	0.19	ug/L	1		8260C	Total/NA
Trichloroethene	16		1.0	0.36	ug/L	1		8260C	Total/NA
Vinyl chloride	26		1.0	0.26	ug/L	1		8260C	Total/NA
1,1-Dichloroethane - DL	8.1	J	10	3.6	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene - DL	98		10	3.0	ug/L	10		8260C	Total/NA
trans-1,2-Dichloroethene - DL	2.8	J	10	1.9	ug/L	10		8260C	Total/NA
Trichloroethene - DL	13		10	3.6	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	22		10	2.6	ug/L	10		8260C	Total/NA

Client Sample ID: MW-104E/250812 — Lab Sample ID: 620-28538-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.4		1.0	0.36	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	4.4		1.0	0.30	ug/L	1		8260C	Total/NA
Ethylbenzene	0.65	J	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	0.63	J	1.0	0.36	ug/L	1		8260C	Total/NA
Vinyl chloride	5.6		1.0	0.26	ug/L	1		8260C	Total/NA

Client Sample ID: MW-101I/250812 — Lab Sample ID: 620-28538-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.9	J	10	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.86	J	1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	22		1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.5		1.0	0.19	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	0.87	J	1.0	0.33	ug/L	1		8260C	Total/NA
Trichloroethene	170	E	1.0	0.36	ug/L	1		8260C	Total/NA
Vinyl chloride	4.1		1.0	0.26	ug/L	1		8260C	Total/NA
Acetone - DL	11	J *	100	9.0	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene - DL	18		10	3.0	ug/L	10		8260C	Total/NA
Trichloroethene - DL	140		10	3.6	ug/L	10		8260C	Total/NA

Client Sample ID: MW-100I/250812 — Lab Sample ID: 620-28538-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.0	J	10	0.90	ug/L	1		8260C	Total/NA
Bromodichloromethane	2.9	*	0.50	0.33	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	6.7		1.0	0.36	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	4.6		1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	340	E	1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	6.5		1.0	0.19	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.9		1.0	0.36	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	2.5		1.0	0.33	ug/L	1		8260C	Total/NA
Trichloroethene	340	E	1.0	0.36	ug/L	1		8260C	Total/NA
Vinyl chloride	110	E	1.0	0.26	ug/L	1		8260C	Total/NA
Acetone - DL	9.0	J *	100	9.0	ug/L	10		8260C	Total/NA
1,1-Dichloroethane - DL	5.7	J	10	3.6	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene - DL	290		10	3.0	ug/L	10		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-100I/250812 (Continued)
Lab Sample ID: 620-28538-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene - DL	3.5	J	10	1.9	ug/L	10		8260C	Total/NA
Trichloroethene - DL	270		10	3.6	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	91		10	2.6	ug/L	10		8260C	Total/NA
1,4-Dioxane	2.3		0.20	0.19	ug/L	1		8270D SIM ID	Total/NA
Chloride	6.10		1.50	0.60	mg/L	1		9056A	Total/NA
Sulfate	14.2		1.50	0.50	mg/L	1		9056A	Total/NA
Calcium	46.0		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	6.9		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	0.72	J	1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	41.0		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	238		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Organic Carbon	5.6		1.0	0.50	mg/L	1		5310 C-2014	Total/NA
Total Inorganic Carbon	37.7		2.0	0.60	mg/L	1		5310 C-2014	Total/NA

Client Sample ID: MW-103ER/250812
Lab Sample ID: 620-28538-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.4	J	10	0.90	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.8		1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	0.30	J	1.0	0.19	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.79	J	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	6.5		1.0	0.36	ug/L	1		8260C	Total/NA
1,4-Dioxane	3.4		0.22	0.21	ug/L	1		8270D SIM ID	Total/NA
Chloride	4.06		1.50	0.60	mg/L	1		9056A	Total/NA
Sulfate	2.75		1.50	0.50	mg/L	1		9056A	Total/NA
Calcium	33.7		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	3.8		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	2.0		1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	7.7		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	130		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Organic Carbon	3.5		1.0	0.50	mg/L	1		5310 C-2014	Total/NA
Total Inorganic Carbon	23.4		2.0	0.60	mg/L	1		5310 C-2014	Total/NA

Client Sample ID: MW-103B/250812
Lab Sample ID: 620-28538-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12		10	0.90	ug/L	1		8260C	Total/NA
Benzene	0.57	J	1.0	0.25	ug/L	1		8260C	Total/NA
Chloroethane	4.5		2.0	0.41	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	80		1.0	0.36	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	0.75	J	1.0	0.26	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.67	J	1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	46		1.0	0.30	ug/L	1		8260C	Total/NA
Toluene	0.32	J	1.0	0.28	ug/L	1		8260C	Total/NA
Vinyl chloride	29		1.0	0.26	ug/L	1		8260C	Total/NA
1,4-Dioxane	24		0.98	0.93	ug/L	5		8270D SIM ID	Total/NA
Chloride	18.8		7.50	3.00	mg/L	5		9056A	Total/NA
Calcium	4.5		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	8.8		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	1.9		1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	42.6		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	120		8.0	2.6	mg/L	1		2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28538-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: MW-102ER/250812 — Lab Sample ID: 620-28538-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3		1.0	0.25	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	10		1.0	0.30	ug/L	1		8260C	Total/NA
Toluene	0.63	J	1.0	0.28	ug/L	1		8260C	Total/NA
1,4-Dioxane	1.5		0.22	0.21	ug/L	1		8270D SIM ID	Total/NA
Chloride	2.96		1.50	0.60	mg/L	1		9056A	Total/NA
Calcium	5.6		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	5.4		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	1.2		1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	12.1		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	64.9		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Organic Carbon	2.3		1.0	0.50	mg/L	1		5310 C-2014	Total/NA
Total Inorganic Carbon	9.6		2.0	0.60	mg/L	1		5310 C-2014	Total/NA

Client Sample ID: DUP/250812 — Lab Sample ID: 620-28538-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.0	J	10	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	6.9		1.0	0.36	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	0.42	J	1.0	0.26	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	4.8		1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	350	E	1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	6.7		1.0	0.19	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.9		1.0	0.36	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	2.4		1.0	0.33	ug/L	1		8260C	Total/NA
Trichloroethene	330	E	1.0	0.36	ug/L	1		8260C	Total/NA
Vinyl chloride	120	E	1.0	0.26	ug/L	1		8260C	Total/NA
Acetone - DL	19	J *	100	9.0	ug/L	10		8260C	Total/NA
1,1-Dichloroethane - DL	5.4	J	10	3.6	ug/L	10		8260C	Total/NA
1,1-Dichloroethene - DL	3.7	J	10	3.4	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene - DL	300		10	3.0	ug/L	10		8260C	Total/NA
trans-1,2-Dichloroethene - DL	3.6	J	10	1.9	ug/L	10		8260C	Total/NA
Trichloroethene - DL	270		10	3.6	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	99		10	2.6	ug/L	10		8260C	Total/NA
1,4-Dioxane	2.2		0.19	0.18	ug/L	1		8270D SIM ID	Total/NA
Chloride	6.13		1.50	0.60	mg/L	1		9056A	Total/NA
Sulfate	13.9		1.50	0.50	mg/L	1		9056A	Total/NA
Calcium	48.8		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	7.3		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	0.82	J	1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	43.3		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	234		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Organic Carbon	5.8		1.0	0.50	mg/L	1		5310 C-2014	Total/NA
Total Inorganic Carbon	34.6		2.0	0.60	mg/L	1		5310 C-2014	Total/NA

Client Sample ID: FB/250812 — Lab Sample ID: 620-28538-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.3	J	10	0.90	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28538-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: TB/250812
Lab Sample ID: 620-28538-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.7	J	10	0.90	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28538-1
Project/Site: ESCO Steel Treaters Project

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET RI
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET RI
9056A	Anions, Ion Chromatography	SW846	ELLE
6010D	Metals (ICP)	SW846	EET RI
2320B-2011	Alkalinity, Total	SM	ELLE
5310 C-2014	Total Organic Carbon/Persulfate - Ultrav	SM	ELLE
3005A	Preparation, Total Metals	SW846	EET RI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET RI
5030C	Purge and Trap	SW846	EET RI
Filtration	Sample Filtration	None	EET RI

Protocol References:

None = None

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

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

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Client Sample ID: MW-104I/250812
Lab Sample ID: 620-28538-1

Date Collected: 08/12/25 10:00
Matrix: Water

Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 20:15	1
Acetone	**5.6**	**J**	10	0.90	ug/L			08/14/25 20:15	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 20:15	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 20:15	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 20:15	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 20:15	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 20:15	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 20:15	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 20:15	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 20:15	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 20:15	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 20:15	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 20:15	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 20:15	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 20:15	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 20:15	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 20:15	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 20:15	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 20:15	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 20:15	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 20:15	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 20:15	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 20:15	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 20:15	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 20:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 20:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 20:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 20:15	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 20:15	1
1,1-Dichloroethane	**9.3**		1.0	0.36	ug/L			08/14/25 20:15	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 20:15	1
1,1-Dichloroethene	**2.0**		1.0	0.34	ug/L			08/14/25 20:15	1
cis-1,2-Dichloroethene	**120**	**E**	1.0	0.30	ug/L			08/14/25 20:15	1
trans-1,2-Dichloroethene	**3.9**		1.0	0.19	ug/L			08/14/25 20:15	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 20:15	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 20:15	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 20:15	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 20:15	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 20:15	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 20:15	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 20:15	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 20:15	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 20:15	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 20:15	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 20:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 20:15	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 20:15	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 20:15	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 20:15	1

Client Sample ID: MW-104I/250812
Lab Sample ID: 620-28538-1

Date Collected: 08/12/25 10:00
Matrix: Water

Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 20:15	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 20:15	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 20:15	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 20:15	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 20:15	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 20:15	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 20:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 20:15	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 20:15	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/14/25 20:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 20:15	1
Trichloroethene	**16**		1.0	0.36	ug/L			08/14/25 20:15	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 20:15	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 20:15	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 20:15	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 20:15	1
Vinyl chloride	**26**		1.0	0.26	ug/L			08/14/25 20:15	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 20:15	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 20:15	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 20:15	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 20:15	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 20:15	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 20:15	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 20:15	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 20:15	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 20:15	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*08/14/25 20:15*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/14/25 20:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/14/25 20:15*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*08/14/25 20:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	10	U	10	2.0	ug/L			08/15/25 10:01	10
Acetone	100	U *	100	9.0	ug/L			08/15/25 10:01	10
Acrylonitrile	10	U	10	3.6	ug/L			08/15/25 10:01	10
Benzene	10	U	10	2.5	ug/L			08/15/25 10:01	10
Bromobenzene	10	U	10	4.0	ug/L			08/15/25 10:01	10
Bromochloromethane	10	U	10	3.9	ug/L			08/15/25 10:01	10
Bromodichloromethane	5.0	U *	5.0	3.3	ug/L			08/15/25 10:01	10
Bromoform	10	U	10	4.5	ug/L			08/15/25 10:01	10
Bromomethane	20	U	20	6.3	ug/L			08/15/25 10:01	10
2-Butanone (MEK)	20	U	20	5.8	ug/L			08/15/25 10:01	10
n-Butylbenzene	10	U	10	4.5	ug/L			08/15/25 10:01	10
sec-Butylbenzene	10	U	10	4.0	ug/L			08/15/25 10:01	10
tert-Butylbenzene	10	U	10	4.0	ug/L			08/15/25 10:01	10

Client Sample ID: MW-104I/250812
Lab Sample ID: 620-28538-1

Date Collected: 08/12/25 10:00
Matrix: Water
Date Received: 08/13/25 11:01

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	20	U	20	4.4	ug/L			08/15/25 10:01	10
Carbon tetrachloride	10	U *	10	2.5	ug/L			08/15/25 10:01	10
Chlorobenzene	10	U	10	4.2	ug/L			08/15/25 10:01	10
Chloroethane	20	U	20	4.1	ug/L			08/15/25 10:01	10
Chloroform	10	U	10	3.0	ug/L			08/15/25 10:01	10
Chloromethane	20	U	20	4.9	ug/L			08/15/25 10:01	10
2-Chlorotoluene	10	U	10	4.3	ug/L			08/15/25 10:01	10
4-Chlorotoluene	10	U	10	4.2	ug/L			08/15/25 10:01	10
1,2-Dibromo-3-Chloropropane	20	U	20	5.1	ug/L			08/15/25 10:01	10
Dibromochloromethane	5.0	U	5.0	3.3	ug/L			08/15/25 10:01	10
1,2-Dibromoethane (EDB)	5.0	U	5.0	3.4	ug/L			08/15/25 10:01	10
Dibromomethane	10	U	10	3.6	ug/L			08/15/25 10:01	10
1,2-Dichlorobenzene	10	U	10	4.8	ug/L			08/15/25 10:01	10
1,3-Dichlorobenzene	10	U	10	5.0	ug/L			08/15/25 10:01	10
1,4-Dichlorobenzene	10	U	10	4.9	ug/L			08/15/25 10:01	10
Dichlorodifluoromethane (Freon 12)	20	U	20	2.9	ug/L			08/15/25 10:01	10
1,1-Dichloroethane	**8.1**	**J**	10	3.6	ug/L			08/15/25 10:01	10
1,2-Dichloroethane	10	U	10	2.6	ug/L			08/15/25 10:01	10
1,1-Dichloroethene	10	U	10	3.4	ug/L			08/15/25 10:01	10
cis-1,2-Dichloroethene	**98**		10	3.0	ug/L			08/15/25 10:01	10
trans-1,2-Dichloroethene	**2.8**	**J**	10	1.9	ug/L			08/15/25 10:01	10
1,2-Dichloropropane	10	U	10	3.6	ug/L			08/15/25 10:01	10
1,3-Dichloropropane	10	U	10	3.2	ug/L			08/15/25 10:01	10
2,2-Dichloropropane	10	U	10	4.9	ug/L			08/15/25 10:01	10
1,1-Dichloropropene	10	U	10	2.9	ug/L			08/15/25 10:01	10
cis-1,3-Dichloropropene	5.0	U	5.0	3.0	ug/L			08/15/25 10:01	10
trans-1,3-Dichloropropene	5.0	U	5.0	3.7	ug/L			08/15/25 10:01	10
Ethylbenzene	10	U	10	3.6	ug/L			08/15/25 10:01	10
Hexachlorobutadiene	10	U	10	2.4	ug/L			08/15/25 10:01	10
2-Hexanone (MBK)	20	U	20	6.9	ug/L			08/15/25 10:01	10
Isopropylbenzene	10	U	10	3.8	ug/L			08/15/25 10:01	10
4-Isopropyltoluene	10	U	10	4.3	ug/L			08/15/25 10:01	10
Methyl tert-butyl ether	10	U	10	2.6	ug/L			08/15/25 10:01	10
4-Methyl-2-pentanone (MIBK)	20	U	20	3.5	ug/L			08/15/25 10:01	10
Methylene Chloride	20	U	20	5.4	ug/L			08/15/25 10:01	10
Naphthalene	20	U	20	7.0	ug/L			08/15/25 10:01	10
N-Propylbenzene	10	U	10	3.6	ug/L			08/15/25 10:01	10
Styrene	10	U	10	4.2	ug/L			08/15/25 10:01	10
1,1,1,2-Tetrachloroethane	10	U	10	3.7	ug/L			08/15/25 10:01	10
1,1,2,2-Tetrachloroethane	5.0	U	5.0	4.6	ug/L			08/15/25 10:01	10
Tetrachloroethene	10	U	10	3.6	ug/L			08/15/25 10:01	10
Toluene	10	U	10	2.8	ug/L			08/15/25 10:01	10
1,2,3-Trichlorobenzene	10	U	10	7.4	ug/L			08/15/25 10:01	10
1,2,4-Trichlorobenzene	10	U	10	7.0	ug/L			08/15/25 10:01	10
1,3,5-Trichlorobenzene	10	U	10	5.4	ug/L			08/15/25 10:01	10
1,1,1-Trichloroethane	10	U	10	3.3	ug/L			08/15/25 10:01	10
1,1,2-Trichloroethane	10	U	10	3.5	ug/L			08/15/25 10:01	10
Trichloroethene	**13**		10	3.6	ug/L			08/15/25 10:01	10
Trichlorofluoromethane (Freon 11)	10	U	10	2.3	ug/L			08/15/25 10:01	10

Client Sample ID: MW-104I/250812
Lab Sample ID: 620-28538-1
Date Collected: 08/12/25 10:00
Matrix: Water
Date Received: 08/13/25 11:01

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	10	U	10	5.1	ug/L			08/15/25 10:01	10
1,2,4-Trimethylbenzene	10	U	10	4.6	ug/L			08/15/25 10:01	10
1,3,5-Trimethylbenzene	10	U	10	4.5	ug/L			08/15/25 10:01	10
Vinyl chloride	**22**		10	2.6	ug/L			08/15/25 10:01	10
m,p-Xylene	10	U	10	7.8	ug/L			08/15/25 10:01	10
o-Xylene	10	U	10	4.3	ug/L			08/15/25 10:01	10
Tetrahydrofuran	20	U	20	7.0	ug/L			08/15/25 10:01	10
Ethyl ether	10	U	10	4.2	ug/L			08/15/25 10:01	10
Tert-amyl methyl ether	10	U	10	2.6	ug/L			08/15/25 10:01	10
Ethyl tert-butyl ether	10	U	10	2.9	ug/L			08/15/25 10:01	10
di-Isopropyl ether	10	U	10	2.6	ug/L			08/15/25 10:01	10
tert-Butanol	100	U	100	85	ug/L			08/15/25 10:01	10
trans-1,4-Dichloro-2-butene	50	U	50	8.1	ug/L			08/15/25 10:01	10
Ethanol	2000	U	2000	91	ug/L			08/15/25 10:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/15/25 10:01*	*10*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/15/25 10:01*	*10*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*08/15/25 10:01*	*10*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*08/15/25 10:01*	*10*

Client Sample ID: MW-104E/250812
Lab Sample ID: 620-28538-2
Date Collected: 08/12/25 12:50
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 20:38	1
Acetone	10	U	10	0.90	ug/L			08/14/25 20:38	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 20:38	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 20:38	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 20:38	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 20:38	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 20:38	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 20:38	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 20:38	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 20:38	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 20:38	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 20:38	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 20:38	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 20:38	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 20:38	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 20:38	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 20:38	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 20:38	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 20:38	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 20:38	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 20:38	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 20:38	1

Client Sample ID: MW-104E/250812
Lab Sample ID: 620-28538-2

Date Collected: 08/12/25 12:50
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 20:38	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 20:38	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 20:38	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 20:38	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 20:38	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 20:38	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 20:38	1
1,1-Dichloroethane	**4.4**		1.0	0.36	ug/L			08/14/25 20:38	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 20:38	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/14/25 20:38	1
cis-1,2-Dichloroethene	**4.4**		1.0	0.30	ug/L			08/14/25 20:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/14/25 20:38	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 20:38	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 20:38	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 20:38	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 20:38	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 20:38	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 20:38	1
Ethylbenzene	**0.65**	**J**	1.0	0.36	ug/L			08/14/25 20:38	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 20:38	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 20:38	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 20:38	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 20:38	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 20:38	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 20:38	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 20:38	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 20:38	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 20:38	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 20:38	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 20:38	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 20:38	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 20:38	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 20:38	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 20:38	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 20:38	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 20:38	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/14/25 20:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 20:38	1
Trichloroethene	**0.63**	**J**	1.0	0.36	ug/L			08/14/25 20:38	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 20:38	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 20:38	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 20:38	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 20:38	1
Vinyl chloride	**5.6**		1.0	0.26	ug/L			08/14/25 20:38	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 20:38	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 20:38	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 20:38	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 20:38	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 20:38	1

Client Sample ID: MW-104E/250812
Lab Sample ID: 620-28538-2

Date Collected: 08/12/25 12:50
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 20:38	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 20:38	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 20:38	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 20:38	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/14/25 20:38*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/14/25 20:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/14/25 20:38*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*08/14/25 20:38*	*1*

Client Sample ID: MW-101I/250812
Lab Sample ID: 620-28538-3

Date Collected: 08/12/25 11:35
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 21:01	1
Acetone	**3.9**	**J**	10	0.90	ug/L			08/14/25 21:01	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 21:01	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 21:01	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:01	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 21:01	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 21:01	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 21:01	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 21:01	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 21:01	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 21:01	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:01	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:01	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 21:01	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 21:01	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 21:01	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 21:01	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 21:01	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 21:01	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 21:01	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 21:01	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 21:01	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 21:01	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 21:01	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 21:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 21:01	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 21:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 21:01	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 21:01	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/14/25 21:01	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 21:01	1

Client Sample ID: MW-101I/250812
Lab Sample ID: 620-28538-3

Date Collected: 08/12/25 11:35
Matrix: Water

Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**0.86**	**J**	1.0	0.34	ug/L			08/14/25 21:01	1
cis-1,2-Dichloroethene	**22**		1.0	0.30	ug/L			08/14/25 21:01	1
trans-1,2-Dichloroethene	**1.5**		1.0	0.19	ug/L			08/14/25 21:01	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 21:01	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 21:01	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 21:01	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 21:01	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 21:01	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 21:01	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 21:01	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 21:01	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 21:01	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 21:01	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 21:01	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:01	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 21:01	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 21:01	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 21:01	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 21:01	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 21:01	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 21:01	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 21:01	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 21:01	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 21:01	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 21:01	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 21:01	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 21:01	1
1,1,1-Trichloroethane	**0.87**	**J**	1.0	0.33	ug/L			08/14/25 21:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 21:01	1
Trichloroethene	**170**	**E**	1.0	0.36	ug/L			08/14/25 21:01	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 21:01	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 21:01	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 21:01	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 21:01	1
Vinyl chloride	**4.1**		1.0	0.26	ug/L			08/14/25 21:01	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 21:01	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 21:01	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 21:01	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 21:01	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:01	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 21:01	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:01	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 21:01	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 21:01	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/14/25 21:01*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/14/25 21:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*08/14/25 21:01*	*1*

Client Sample ID: MW-101I/250812
Lab Sample ID: 620-28538-3

Date Collected: 08/12/25 11:35
Matrix: Water
Date Received: 08/13/25 11:01

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/14/25 21:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	10	U	10	2.0	ug/L			08/15/25 10:24	10
Acetone	**11**	**J ***	100	9.0	ug/L			08/15/25 10:24	10
Acrylonitrile	10	U	10	3.6	ug/L			08/15/25 10:24	10
Benzene	10	U	10	2.5	ug/L			08/15/25 10:24	10
Bromobenzene	10	U	10	4.0	ug/L			08/15/25 10:24	10
Bromochloromethane	10	U	10	3.9	ug/L			08/15/25 10:24	10
Bromodichloromethane	5.0	U *	5.0	3.3	ug/L			08/15/25 10:24	10
Bromoform	10	U	10	4.5	ug/L			08/15/25 10:24	10
Bromomethane	20	U	20	6.3	ug/L			08/15/25 10:24	10
2-Butanone (MEK)	20	U	20	5.8	ug/L			08/15/25 10:24	10
n-Butylbenzene	10	U	10	4.5	ug/L			08/15/25 10:24	10
sec-Butylbenzene	10	U	10	4.0	ug/L			08/15/25 10:24	10
tert-Butylbenzene	10	U	10	4.0	ug/L			08/15/25 10:24	10
Carbon disulfide	20	U	20	4.4	ug/L			08/15/25 10:24	10
Carbon tetrachloride	10	U *	10	2.5	ug/L			08/15/25 10:24	10
Chlorobenzene	10	U	10	4.2	ug/L			08/15/25 10:24	10
Chloroethane	20	U	20	4.1	ug/L			08/15/25 10:24	10
Chloroform	10	U	10	3.0	ug/L			08/15/25 10:24	10
Chloromethane	20	U	20	4.9	ug/L			08/15/25 10:24	10
2-Chlorotoluene	10	U	10	4.3	ug/L			08/15/25 10:24	10
4-Chlorotoluene	10	U	10	4.2	ug/L			08/15/25 10:24	10
1,2-Dibromo-3-Chloropropane	20	U	20	5.1	ug/L			08/15/25 10:24	10
Dibromochloromethane	5.0	U	5.0	3.3	ug/L			08/15/25 10:24	10
1,2-Dibromoethane (EDB)	5.0	U	5.0	3.4	ug/L			08/15/25 10:24	10
Dibromomethane	10	U	10	3.6	ug/L			08/15/25 10:24	10
1,2-Dichlorobenzene	10	U	10	4.8	ug/L			08/15/25 10:24	10
1,3-Dichlorobenzene	10	U	10	5.0	ug/L			08/15/25 10:24	10
1,4-Dichlorobenzene	10	U	10	4.9	ug/L			08/15/25 10:24	10
Dichlorodifluoromethane (Freon 12)	20	U	20	2.9	ug/L			08/15/25 10:24	10
1,1-Dichloroethane	10	U	10	3.6	ug/L			08/15/25 10:24	10
1,2-Dichloroethane	10	U	10	2.6	ug/L			08/15/25 10:24	10
1,1-Dichloroethene	10	U	10	3.4	ug/L			08/15/25 10:24	10
cis-1,2-Dichloroethene	**18**		10	3.0	ug/L			08/15/25 10:24	10
trans-1,2-Dichloroethene	10	U	10	1.9	ug/L			08/15/25 10:24	10
1,2-Dichloropropane	10	U	10	3.6	ug/L			08/15/25 10:24	10
1,3-Dichloropropane	10	U	10	3.2	ug/L			08/15/25 10:24	10
2,2-Dichloropropane	10	U	10	4.9	ug/L			08/15/25 10:24	10
1,1-Dichloropropene	10	U	10	2.9	ug/L			08/15/25 10:24	10
cis-1,3-Dichloropropene	5.0	U	5.0	3.0	ug/L			08/15/25 10:24	10
trans-1,3-Dichloropropene	5.0	U	5.0	3.7	ug/L			08/15/25 10:24	10
Ethylbenzene	10	U	10	3.6	ug/L			08/15/25 10:24	10
Hexachlorobutadiene	10	U	10	2.4	ug/L			08/15/25 10:24	10
2-Hexanone (MBK)	20	U	20	6.9	ug/L			08/15/25 10:24	10
Isopropylbenzene	10	U	10	3.8	ug/L			08/15/25 10:24	10

Client Sample ID: MW-101I/250812
Lab Sample ID: 620-28538-3
Date Collected: 08/12/25 11:35
Matrix: Water
Date Received: 08/13/25 11:01

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	10	U	10	4.3	ug/L			08/15/25 10:24	10
Methyl tert-butyl ether	10	U	10	2.6	ug/L			08/15/25 10:24	10
4-Methyl-2-pentanone (MIBK)	20	U	20	3.5	ug/L			08/15/25 10:24	10
Methylene Chloride	20	U	20	5.4	ug/L			08/15/25 10:24	10
Naphthalene	20	U	20	7.0	ug/L			08/15/25 10:24	10
N-Propylbenzene	10	U	10	3.6	ug/L			08/15/25 10:24	10
Styrene	10	U	10	4.2	ug/L			08/15/25 10:24	10
1,1,1,2-Tetrachloroethane	10	U	10	3.7	ug/L			08/15/25 10:24	10
1,1,2,2-Tetrachloroethane	5.0	U	5.0	4.6	ug/L			08/15/25 10:24	10
Tetrachloroethene	10	U	10	3.6	ug/L			08/15/25 10:24	10
Toluene	10	U	10	2.8	ug/L			08/15/25 10:24	10
1,2,3-Trichlorobenzene	10	U	10	7.4	ug/L			08/15/25 10:24	10
1,2,4-Trichlorobenzene	10	U	10	7.0	ug/L			08/15/25 10:24	10
1,3,5-Trichlorobenzene	10	U	10	5.4	ug/L			08/15/25 10:24	10
1,1,1-Trichloroethane	10	U	10	3.3	ug/L			08/15/25 10:24	10
1,1,2-Trichloroethane	10	U	10	3.5	ug/L			08/15/25 10:24	10
Trichloroethene	**140**		10	3.6	ug/L			08/15/25 10:24	10
Trichlorofluoromethane (Freon 11)	10	U	10	2.3	ug/L			08/15/25 10:24	10
1,2,3-Trichloropropane	10	U	10	5.1	ug/L			08/15/25 10:24	10
1,2,4-Trimethylbenzene	10	U	10	4.6	ug/L			08/15/25 10:24	10
1,3,5-Trimethylbenzene	10	U	10	4.5	ug/L			08/15/25 10:24	10
Vinyl chloride	10	U	10	2.6	ug/L			08/15/25 10:24	10
m,p-Xylene	10	U	10	7.8	ug/L			08/15/25 10:24	10
o-Xylene	10	U	10	4.3	ug/L			08/15/25 10:24	10
Tetrahydrofuran	20	U	20	7.0	ug/L			08/15/25 10:24	10
Ethyl ether	10	U	10	4.2	ug/L			08/15/25 10:24	10
Tert-amyl methyl ether	10	U	10	2.6	ug/L			08/15/25 10:24	10
Ethyl tert-butyl ether	10	U	10	2.9	ug/L			08/15/25 10:24	10
di-Isopropyl ether	10	U	10	2.6	ug/L			08/15/25 10:24	10
tert-Butanol	100	U	100	85	ug/L			08/15/25 10:24	10
trans-1,4-Dichloro-2-butene	50	U	50	8.1	ug/L			08/15/25 10:24	10
Ethanol	2000	U	2000	91	ug/L			08/15/25 10:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/15/25 10:24*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/15/25 10:24*	*10*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*08/15/25 10:24*	*10*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/15/25 10:24*	*10*

Client Sample ID: MW-100I/250812
Lab Sample ID: 620-28538-4
Date Collected: 08/12/25 12:15
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 21:24	1
Acetone	**4.0**	**J**	10	0.90	ug/L			08/14/25 21:24	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 21:24	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 21:24	1

Client Sample ID: MW-100I/250812
Lab Sample ID: 620-28538-4

Date Collected: 08/12/25 12:15
Matrix: Water

Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:24	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 21:24	1
Bromodichloromethane	**2.9**	*	0.50	0.33	ug/L			08/14/25 21:24	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 21:24	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 21:24	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 21:24	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 21:24	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:24	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:24	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 21:24	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 21:24	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 21:24	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 21:24	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 21:24	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 21:24	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 21:24	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 21:24	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 21:24	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 21:24	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 21:24	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 21:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 21:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 21:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 21:24	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 21:24	1
1,1-Dichloroethane	**6.7**		1.0	0.36	ug/L			08/14/25 21:24	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 21:24	1
1,1-Dichloroethene	**4.6**		1.0	0.34	ug/L			08/14/25 21:24	1
cis-1,2-Dichloroethene	**340**	**E**	1.0	0.30	ug/L			08/14/25 21:24	1
trans-1,2-Dichloroethene	**6.5**		1.0	0.19	ug/L			08/14/25 21:24	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 21:24	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 21:24	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 21:24	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 21:24	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 21:24	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 21:24	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 21:24	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 21:24	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 21:24	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 21:24	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 21:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:24	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 21:24	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 21:24	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 21:24	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 21:24	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 21:24	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 21:24	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 21:24	1

Client Sample ID: MW-100I/250812
Lab Sample ID: 620-28538-4

Date Collected: 08/12/25 12:15
Matrix: Water

Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**1.9**		1.0	0.36	ug/L			08/14/25 21:24	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 21:24	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 21:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 21:24	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 21:24	1
1,1,1-Trichloroethane	**2.5**		1.0	0.33	ug/L			08/14/25 21:24	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 21:24	1
Trichloroethene	**340**	**E**	1.0	0.36	ug/L			08/14/25 21:24	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 21:24	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 21:24	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 21:24	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 21:24	1
Vinyl chloride	**110**	**E**	1.0	0.26	ug/L			08/14/25 21:24	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 21:24	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 21:24	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 21:24	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 21:24	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:24	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 21:24	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:24	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 21:24	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 21:24	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/14/25 21:24*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/14/25 21:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*08/14/25 21:24*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*08/14/25 21:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	10	U	10	2.0	ug/L			08/15/25 10:47	10
Acetone	**9.0**	**J ***	100	9.0	ug/L			08/15/25 10:47	10
Acrylonitrile	10	U	10	3.6	ug/L			08/15/25 10:47	10
Benzene	10	U	10	2.5	ug/L			08/15/25 10:47	10
Bromobenzene	10	U	10	4.0	ug/L			08/15/25 10:47	10
Bromochloromethane	10	U	10	3.9	ug/L			08/15/25 10:47	10
Bromodichloromethane	5.0	U *	5.0	3.3	ug/L			08/15/25 10:47	10
Bromoform	10	U	10	4.5	ug/L			08/15/25 10:47	10
Bromomethane	20	U	20	6.3	ug/L			08/15/25 10:47	10
2-Butanone (MEK)	20	U	20	5.8	ug/L			08/15/25 10:47	10
n-Butylbenzene	10	U	10	4.5	ug/L			08/15/25 10:47	10
sec-Butylbenzene	10	U	10	4.0	ug/L			08/15/25 10:47	10
tert-Butylbenzene	10	U	10	4.0	ug/L			08/15/25 10:47	10
Carbon disulfide	20	U	20	4.4	ug/L			08/15/25 10:47	10
Carbon tetrachloride	10	U *	10	2.5	ug/L			08/15/25 10:47	10
Chlorobenzene	10	U	10	4.2	ug/L			08/15/25 10:47	10
Chloroethane	20	U	20	4.1	ug/L			08/15/25 10:47	10

Client Sample ID: MW-100I/250812
Lab Sample ID: 620-28538-4

Date Collected: 08/12/25 12:15
Matrix: Water

Date Received: 08/13/25 11:01

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	10	U	10	3.0	ug/L			08/15/25 10:47	10
Chloromethane	20	U	20	4.9	ug/L			08/15/25 10:47	10
2-Chlorotoluene	10	U	10	4.3	ug/L			08/15/25 10:47	10
4-Chlorotoluene	10	U	10	4.2	ug/L			08/15/25 10:47	10
1,2-Dibromo-3-Chloropropane	20	U	20	5.1	ug/L			08/15/25 10:47	10
Dibromochloromethane	5.0	U	5.0	3.3	ug/L			08/15/25 10:47	10
1,2-Dibromoethane (EDB)	5.0	U	5.0	3.4	ug/L			08/15/25 10:47	10
Dibromomethane	10	U	10	3.6	ug/L			08/15/25 10:47	10
1,2-Dichlorobenzene	10	U	10	4.8	ug/L			08/15/25 10:47	10
1,3-Dichlorobenzene	10	U	10	5.0	ug/L			08/15/25 10:47	10
1,4-Dichlorobenzene	10	U	10	4.9	ug/L			08/15/25 10:47	10
Dichlorodifluoromethane (Freon 12)	20	U	20	2.9	ug/L			08/15/25 10:47	10
1,1-Dichloroethane	**5.7**	**J**	10	3.6	ug/L			08/15/25 10:47	10
1,2-Dichloroethane	10	U	10	2.6	ug/L			08/15/25 10:47	10
1,1-Dichloroethene	10	U	10	3.4	ug/L			08/15/25 10:47	10
cis-1,2-Dichloroethene	**290**		10	3.0	ug/L			08/15/25 10:47	10
trans-1,2-Dichloroethene	**3.5**	**J**	10	1.9	ug/L			08/15/25 10:47	10
1,2-Dichloropropane	10	U	10	3.6	ug/L			08/15/25 10:47	10
1,3-Dichloropropane	10	U	10	3.2	ug/L			08/15/25 10:47	10
2,2-Dichloropropane	10	U	10	4.9	ug/L			08/15/25 10:47	10
1,1-Dichloropropene	10	U	10	2.9	ug/L			08/15/25 10:47	10
cis-1,3-Dichloropropene	5.0	U	5.0	3.0	ug/L			08/15/25 10:47	10
trans-1,3-Dichloropropene	5.0	U	5.0	3.7	ug/L			08/15/25 10:47	10
Ethylbenzene	10	U	10	3.6	ug/L			08/15/25 10:47	10
Hexachlorobutadiene	10	U	10	2.4	ug/L			08/15/25 10:47	10
2-Hexanone (MBK)	20	U	20	6.9	ug/L			08/15/25 10:47	10
Isopropylbenzene	10	U	10	3.8	ug/L			08/15/25 10:47	10
4-Isopropyltoluene	10	U	10	4.3	ug/L			08/15/25 10:47	10
Methyl tert-butyl ether	10	U	10	2.6	ug/L			08/15/25 10:47	10
4-Methyl-2-pentanone (MIBK)	20	U	20	3.5	ug/L			08/15/25 10:47	10
Methylene Chloride	20	U	20	5.4	ug/L			08/15/25 10:47	10
Naphthalene	20	U	20	7.0	ug/L			08/15/25 10:47	10
N-Propylbenzene	10	U	10	3.6	ug/L			08/15/25 10:47	10
Styrene	10	U	10	4.2	ug/L			08/15/25 10:47	10
1,1,1,2-Tetrachloroethane	10	U	10	3.7	ug/L			08/15/25 10:47	10
1,1,2,2-Tetrachloroethane	5.0	U	5.0	4.6	ug/L			08/15/25 10:47	10
Tetrachloroethene	10	U	10	3.6	ug/L			08/15/25 10:47	10
Toluene	10	U	10	2.8	ug/L			08/15/25 10:47	10
1,2,3-Trichlorobenzene	10	U	10	7.4	ug/L			08/15/25 10:47	10
1,2,4-Trichlorobenzene	10	U	10	7.0	ug/L			08/15/25 10:47	10
1,3,5-Trichlorobenzene	10	U	10	5.4	ug/L			08/15/25 10:47	10
1,1,1-Trichloroethane	10	U	10	3.3	ug/L			08/15/25 10:47	10
1,1,2-Trichloroethane	10	U	10	3.5	ug/L			08/15/25 10:47	10
Trichloroethene	**270**		10	3.6	ug/L			08/15/25 10:47	10
Trichlorofluoromethane (Freon 11)	10	U	10	2.3	ug/L			08/15/25 10:47	10
1,2,3-Trichloropropane	10	U	10	5.1	ug/L			08/15/25 10:47	10
1,2,4-Trimethylbenzene	10	U	10	4.6	ug/L			08/15/25 10:47	10
1,3,5-Trimethylbenzene	10	U	10	4.5	ug/L			08/15/25 10:47	10
Vinyl chloride	**91**		10	2.6	ug/L			08/15/25 10:47	10

Client Sample ID: MW-100I/250812
Lab Sample ID: 620-28538-4

Date Collected: 08/12/25 12:15
Matrix: Water
Date Received: 08/13/25 11:01

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	10	U	10	7.8	ug/L			08/15/25 10:47	10
o-Xylene	10	U	10	4.3	ug/L			08/15/25 10:47	10
Tetrahydrofuran	20	U	20	7.0	ug/L			08/15/25 10:47	10
Ethyl ether	10	U	10	4.2	ug/L			08/15/25 10:47	10
Tert-amyl methyl ether	10	U	10	2.6	ug/L			08/15/25 10:47	10
Ethyl tert-butyl ether	10	U	10	2.9	ug/L			08/15/25 10:47	10
di-Isopropyl ether	10	U	10	2.6	ug/L			08/15/25 10:47	10
tert-Butanol	100	U	100	85	ug/L			08/15/25 10:47	10
trans-1,4-Dichloro-2-butene	50	U	50	8.1	ug/L			08/15/25 10:47	10
Ethanol	2000	U	2000	91	ug/L			08/15/25 10:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/15/25 10:47*	*10*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/15/25 10:47*	*10*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*08/15/25 10:47*	*10*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/15/25 10:47*	*10*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**2.3**		0.20	0.19	ug/L		08/18/25 18:42	08/20/25 13:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*13*		*10 - 150*	*08/18/25 18:42*	*08/20/25 13:23*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.10**		1.50	0.60	mg/L			08/14/25 11:09	1
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/14/25 11:09	1
Sulfate	**14.2**		1.50	0.50	mg/L			08/14/25 11:09	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**46.0**		0.50	0.19	mg/L		08/13/25 14:35	08/14/25 14:54	1
Magnesium	**6.9**		0.040	0.038	mg/L		08/13/25 14:35	08/14/25 14:54	1
Potassium	**0.72**	**J**	1.0	0.34	mg/L		08/13/25 14:35	08/14/25 14:54	1
Sodium	**41.0**		1.5	0.28	mg/L		08/13/25 14:35	08/14/25 14:54	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/13/25 14:35	08/14/25 15:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	**238**		8.0	2.6	mg/L			08/14/25 22:05	1
Total Organic Carbon (SM 5310 C-2014)	**5.6**		1.0	0.50	mg/L			08/19/25 22:59	1
Total Inorganic Carbon (SM 5310 C-2014)	**37.7**		2.0	0.60	mg/L			08/19/25 22:59	1

Client Sample ID: MW-103ER/250812
Lab Sample ID: 620-28538-5

Date Collected: 08/12/25 13:05
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 21:47	1
Acetone	**6.4**	**J**	10	0.90	ug/L			08/14/25 21:47	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 21:47	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 21:47	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:47	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 21:47	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 21:47	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 21:47	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 21:47	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 21:47	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 21:47	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:47	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:47	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 21:47	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 21:47	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 21:47	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 21:47	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 21:47	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 21:47	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 21:47	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 21:47	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 21:47	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 21:47	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 21:47	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 21:47	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 21:47	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 21:47	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 21:47	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 21:47	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/14/25 21:47	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 21:47	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/14/25 21:47	1
cis-1,2-Dichloroethene	**3.8**		1.0	0.30	ug/L			08/14/25 21:47	1
trans-1,2-Dichloroethene	**0.30**	**J**	1.0	0.19	ug/L			08/14/25 21:47	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 21:47	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 21:47	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 21:47	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 21:47	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 21:47	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 21:47	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 21:47	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 21:47	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 21:47	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 21:47	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 21:47	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:47	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 21:47	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 21:47	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 21:47	1

Client Sample ID: MW-103ER/250812
Lab Sample ID: 620-28538-5

Date Collected: 08/12/25 13:05
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 21:47	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 21:47	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 21:47	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 21:47	1
Tetrachloroethene	**0.79**	**J**	1.0	0.36	ug/L			08/14/25 21:47	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 21:47	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 21:47	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 21:47	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 21:47	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/14/25 21:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 21:47	1
Trichloroethene	**6.5**		1.0	0.36	ug/L			08/14/25 21:47	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 21:47	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 21:47	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 21:47	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 21:47	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/14/25 21:47	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 21:47	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 21:47	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 21:47	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 21:47	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:47	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 21:47	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:47	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 21:47	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 21:47	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/14/25 21:47*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/14/25 21:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*08/14/25 21:47*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*08/14/25 21:47*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**3.4**		0.22	0.21	ug/L		08/18/25 18:42	08/20/25 13:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*14*		*10 - 150*	*08/18/25 18:42*	*08/20/25 13:41*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.06**		1.50	0.60	mg/L			08/14/25 11:26	1
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/14/25 11:26	1
Sulfate	**2.75**		1.50	0.50	mg/L			08/14/25 11:26	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**33.7**		0.50	0.19	mg/L		08/13/25 14:35	08/14/25 14:59	1
Magnesium	**3.8**		0.040	0.038	mg/L		08/13/25 14:35	08/14/25 14:59	1

Client Sample ID: MW-103ER/250812
Lab Sample ID: 620-28538-5
Date Collected: 08/12/25 13:05
Matrix: Water
Date Received: 08/13/25 11:01

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**2.0**		1.0	0.34	mg/L		08/13/25 14:35	08/14/25 14:59	1
Sodium	**7.7**		1.5	0.28	mg/L		08/13/25 14:35	08/14/25 14:59	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/13/25 14:35	08/14/25 15:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	**130**		8.0	2.6	mg/L			08/14/25 21:53	1
Total Organic Carbon (SM 5310 C-2014)	**3.5**		1.0	0.50	mg/L			08/19/25 23:18	1
Total Inorganic Carbon (SM 5310 C-2014)	**23.4**		2.0	0.60	mg/L			08/19/25 23:18	1

Client Sample ID: MW-103B/250812
Lab Sample ID: 620-28538-6
Date Collected: 08/12/25 14:30
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 22:10	1
Acetone	**12**		10	0.90	ug/L			08/14/25 22:10	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 22:10	1
Benzene	**0.57**	**J**	1.0	0.25	ug/L			08/14/25 22:10	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:10	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 22:10	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 22:10	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 22:10	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 22:10	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 22:10	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 22:10	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:10	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:10	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 22:10	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 22:10	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 22:10	1
Chloroethane	**4.5**		2.0	0.41	ug/L			08/14/25 22:10	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 22:10	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 22:10	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 22:10	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 22:10	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 22:10	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 22:10	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 22:10	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 22:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 22:10	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 22:10	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 22:10	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 22:10	1

Client Sample ID: MW-103B/250812
Lab Sample ID: 620-28538-6

Date Collected: 08/12/25 14:30
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**80**		1.0	0.36	ug/L			08/14/25 22:10	1
1,2-Dichloroethane	**0.75**	**J**	1.0	0.26	ug/L			08/14/25 22:10	1
1,1-Dichloroethene	**0.67**	**J**	1.0	0.34	ug/L			08/14/25 22:10	1
cis-1,2-Dichloroethene	**46**		1.0	0.30	ug/L			08/14/25 22:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/14/25 22:10	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 22:10	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 22:10	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 22:10	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 22:10	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 22:10	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 22:10	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 22:10	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 22:10	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 22:10	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 22:10	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 22:10	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:10	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 22:10	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 22:10	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 22:10	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 22:10	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 22:10	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 22:10	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 22:10	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 22:10	1
Toluene	**0.32**	**J**	1.0	0.28	ug/L			08/14/25 22:10	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 22:10	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 22:10	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 22:10	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/14/25 22:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 22:10	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 22:10	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 22:10	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 22:10	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 22:10	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 22:10	1
Vinyl chloride	**29**		1.0	0.26	ug/L			08/14/25 22:10	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 22:10	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 22:10	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 22:10	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 22:10	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:10	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 22:10	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:10	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 22:10	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 22:10	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/14/25 22:10*	*1*

Client Sample ID: MW-103B/250812
Lab Sample ID: 620-28538-6
Date Collected: 08/12/25 14:30
Matrix: Water
Date Received: 08/13/25 11:01

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/14/25 22:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/14/25 22:10*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*08/14/25 22:10*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**24**		0.98	0.93	ug/L		08/18/25 18:42	08/20/25 15:44	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	*14*		*10 - 150*	*08/18/25 18:42*	*08/20/25 15:44*	*5*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.8**		7.50	3.00	mg/L			08/15/25 16:55	5
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/14/25 11:34	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/14/25 11:34	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**4.5**		0.50	0.19	mg/L		08/13/25 14:35	08/14/25 15:05	1
Magnesium	**8.8**		0.040	0.038	mg/L		08/13/25 14:35	08/14/25 15:05	1
Potassium	**1.9**		1.0	0.34	mg/L		08/13/25 14:35	08/14/25 15:05	1
Sodium	**42.6**		1.5	0.28	mg/L		08/13/25 14:35	08/14/25 15:05	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/13/25 14:35	08/14/25 15:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	**120**		8.0	2.6	mg/L			08/14/25 22:12	1

Client Sample ID: MW-102ER/250812
Lab Sample ID: 620-28538-7
Date Collected: 08/12/25 14:45
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 22:33	1
Acetone	10	U	10	0.90	ug/L			08/14/25 22:33	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 22:33	1
Benzene	**1.3**		1.0	0.25	ug/L			08/14/25 22:33	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:33	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 22:33	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 22:33	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 22:33	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 22:33	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 22:33	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 22:33	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:33	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:33	1

Client Sample ID: MW-102ER/250812
Lab Sample ID: 620-28538-7

Date Collected: 08/12/25 14:45
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 22:33	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 22:33	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 22:33	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 22:33	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 22:33	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 22:33	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 22:33	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 22:33	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 22:33	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 22:33	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 22:33	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 22:33	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 22:33	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 22:33	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 22:33	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 22:33	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/14/25 22:33	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 22:33	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/14/25 22:33	1
cis-1,2-Dichloroethene	**10**		1.0	0.30	ug/L			08/14/25 22:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/14/25 22:33	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 22:33	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 22:33	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 22:33	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 22:33	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 22:33	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 22:33	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 22:33	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 22:33	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 22:33	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 22:33	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 22:33	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:33	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 22:33	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 22:33	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 22:33	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 22:33	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 22:33	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 22:33	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 22:33	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 22:33	1
Toluene	**0.63**	**J**	1.0	0.28	ug/L			08/14/25 22:33	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 22:33	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 22:33	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 22:33	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/14/25 22:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 22:33	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 22:33	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 22:33	1

Client Sample ID: MW-102ER/250812
Lab Sample ID: 620-28538-7

Date Collected: 08/12/25 14:45
Matrix: Water

Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 22:33	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 22:33	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 22:33	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/14/25 22:33	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 22:33	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 22:33	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 22:33	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 22:33	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:33	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 22:33	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:33	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 22:33	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 22:33	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/14/25 22:33*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/14/25 22:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*08/14/25 22:33*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*08/14/25 22:33*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.5**		0.22	0.21	ug/L		08/18/25 18:42	08/20/25 14:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*11*		*10 - 150*	*08/18/25 18:42*	*08/20/25 14:16*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.96**		1.50	0.60	mg/L			08/14/25 11:42	1
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/14/25 11:42	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/14/25 11:42	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**5.6**		0.50	0.19	mg/L		08/13/25 14:35	08/14/25 15:11	1
Magnesium	**5.4**		0.040	0.038	mg/L		08/13/25 14:35	08/14/25 15:11	1
Potassium	**1.2**		1.0	0.34	mg/L		08/13/25 14:35	08/14/25 15:11	1
Sodium	**12.1**		1.5	0.28	mg/L		08/13/25 14:35	08/14/25 15:11	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/13/25 14:35	08/14/25 16:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	**64.9**		8.0	2.6	mg/L			08/14/25 22:18	1
Total Organic Carbon (SM 5310 C-2014)	**2.3**		1.0	0.50	mg/L			08/19/25 23:38	1
Total Inorganic Carbon (SM 5310 C-2014)	**9.6**		2.0	0.60	mg/L			08/19/25 23:38	1

Client Sample ID: DUP/250812
Lab Sample ID: 620-28538-8

Date Collected: 08/12/25 00:00
Matrix: Water

Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 22:56	1
Acetone	**8.0**	**J**	10	0.90	ug/L			08/14/25 22:56	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 22:56	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 22:56	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:56	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 22:56	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 22:56	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 22:56	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 22:56	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 22:56	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 22:56	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:56	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:56	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 22:56	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 22:56	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 22:56	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 22:56	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 22:56	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 22:56	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 22:56	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 22:56	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 22:56	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 22:56	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 22:56	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 22:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 22:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 22:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 22:56	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 22:56	1
1,1-Dichloroethane	**6.9**		1.0	0.36	ug/L			08/14/25 22:56	1
1,2-Dichloroethane	**0.42**	**J**	1.0	0.26	ug/L			08/14/25 22:56	1
1,1-Dichloroethene	**4.8**		1.0	0.34	ug/L			08/14/25 22:56	1
cis-1,2-Dichloroethene	**350**	**E**	1.0	0.30	ug/L			08/14/25 22:56	1
trans-1,2-Dichloroethene	**6.7**		1.0	0.19	ug/L			08/14/25 22:56	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 22:56	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 22:56	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 22:56	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 22:56	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 22:56	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 22:56	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 22:56	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 22:56	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 22:56	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 22:56	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 22:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:56	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 22:56	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 22:56	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 22:56	1

Client Sample ID: DUP/250812
Lab Sample ID: 620-28538-8

Date Collected: 08/12/25 00:00
Matrix: Water

Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 22:56	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 22:56	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 22:56	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 22:56	1
Tetrachloroethene	**1.9**		1.0	0.36	ug/L			08/14/25 22:56	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 22:56	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 22:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 22:56	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 22:56	1
1,1,1-Trichloroethane	**2.4**		1.0	0.33	ug/L			08/14/25 22:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 22:56	1
Trichloroethene	**330**	**E**	1.0	0.36	ug/L			08/14/25 22:56	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 22:56	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 22:56	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 22:56	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 22:56	1
Vinyl chloride	**120**	**E**	1.0	0.26	ug/L			08/14/25 22:56	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 22:56	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 22:56	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 22:56	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 22:56	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:56	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 22:56	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:56	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 22:56	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 22:56	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/14/25 22:56*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/14/25 22:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/14/25 22:56*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*08/14/25 22:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	10	U	10	2.0	ug/L			08/15/25 11:10	10
Acetone	**19**	**J ***	100	9.0	ug/L			08/15/25 11:10	10
Acrylonitrile	10	U	10	3.6	ug/L			08/15/25 11:10	10
Benzene	10	U	10	2.5	ug/L			08/15/25 11:10	10
Bromobenzene	10	U	10	4.0	ug/L			08/15/25 11:10	10
Bromochloromethane	10	U	10	3.9	ug/L			08/15/25 11:10	10
Bromodichloromethane	5.0	U *	5.0	3.3	ug/L			08/15/25 11:10	10
Bromoform	10	U	10	4.5	ug/L			08/15/25 11:10	10
Bromomethane	20	U	20	6.3	ug/L			08/15/25 11:10	10
2-Butanone (MEK)	20	U	20	5.8	ug/L			08/15/25 11:10	10
n-Butylbenzene	10	U	10	4.5	ug/L			08/15/25 11:10	10
sec-Butylbenzene	10	U	10	4.0	ug/L			08/15/25 11:10	10
tert-Butylbenzene	10	U	10	4.0	ug/L			08/15/25 11:10	10

Client Sample ID: DUP/250812
Lab Sample ID: 620-28538-8

Date Collected: 08/12/25 00:00
Matrix: Water

Date Received: 08/13/25 11:01

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	20	U	20	4.4	ug/L			08/15/25 11:10	10
Carbon tetrachloride	10	U *	10	2.5	ug/L			08/15/25 11:10	10
Chlorobenzene	10	U	10	4.2	ug/L			08/15/25 11:10	10
Chloroethane	20	U	20	4.1	ug/L			08/15/25 11:10	10
Chloroform	10	U	10	3.0	ug/L			08/15/25 11:10	10
Chloromethane	20	U	20	4.9	ug/L			08/15/25 11:10	10
2-Chlorotoluene	10	U	10	4.3	ug/L			08/15/25 11:10	10
4-Chlorotoluene	10	U	10	4.2	ug/L			08/15/25 11:10	10
1,2-Dibromo-3-Chloropropane	20	U	20	5.1	ug/L			08/15/25 11:10	10
Dibromochloromethane	5.0	U	5.0	3.3	ug/L			08/15/25 11:10	10
1,2-Dibromoethane (EDB)	5.0	U	5.0	3.4	ug/L			08/15/25 11:10	10
Dibromomethane	10	U	10	3.6	ug/L			08/15/25 11:10	10
1,2-Dichlorobenzene	10	U	10	4.8	ug/L			08/15/25 11:10	10
1,3-Dichlorobenzene	10	U	10	5.0	ug/L			08/15/25 11:10	10
1,4-Dichlorobenzene	10	U	10	4.9	ug/L			08/15/25 11:10	10
Dichlorodifluoromethane (Freon 12)	20	U	20	2.9	ug/L			08/15/25 11:10	10
1,1-Dichloroethane	**5.4**	**J**	10	3.6	ug/L			08/15/25 11:10	10
1,2-Dichloroethane	10	U	10	2.6	ug/L			08/15/25 11:10	10
1,1-Dichloroethene	**3.7**	**J**	10	3.4	ug/L			08/15/25 11:10	10
cis-1,2-Dichloroethene	**300**		10	3.0	ug/L			08/15/25 11:10	10
trans-1,2-Dichloroethene	**3.6**	**J**	10	1.9	ug/L			08/15/25 11:10	10
1,2-Dichloropropane	10	U	10	3.6	ug/L			08/15/25 11:10	10
1,3-Dichloropropane	10	U	10	3.2	ug/L			08/15/25 11:10	10
2,2-Dichloropropane	10	U	10	4.9	ug/L			08/15/25 11:10	10
1,1-Dichloropropene	10	U	10	2.9	ug/L			08/15/25 11:10	10
cis-1,3-Dichloropropene	5.0	U	5.0	3.0	ug/L			08/15/25 11:10	10
trans-1,3-Dichloropropene	5.0	U	5.0	3.7	ug/L			08/15/25 11:10	10
Ethylbenzene	10	U	10	3.6	ug/L			08/15/25 11:10	10
Hexachlorobutadiene	10	U	10	2.4	ug/L			08/15/25 11:10	10
2-Hexanone (MBK)	20	U	20	6.9	ug/L			08/15/25 11:10	10
Isopropylbenzene	10	U	10	3.8	ug/L			08/15/25 11:10	10
4-Isopropyltoluene	10	U	10	4.3	ug/L			08/15/25 11:10	10
Methyl tert-butyl ether	10	U	10	2.6	ug/L			08/15/25 11:10	10
4-Methyl-2-pentanone (MIBK)	20	U	20	3.5	ug/L			08/15/25 11:10	10
Methylene Chloride	20	U	20	5.4	ug/L			08/15/25 11:10	10
Naphthalene	20	U	20	7.0	ug/L			08/15/25 11:10	10
N-Propylbenzene	10	U	10	3.6	ug/L			08/15/25 11:10	10
Styrene	10	U	10	4.2	ug/L			08/15/25 11:10	10
1,1,1,2-Tetrachloroethane	10	U	10	3.7	ug/L			08/15/25 11:10	10
1,1,2,2-Tetrachloroethane	5.0	U	5.0	4.6	ug/L			08/15/25 11:10	10
Tetrachloroethene	10	U	10	3.6	ug/L			08/15/25 11:10	10
Toluene	10	U	10	2.8	ug/L			08/15/25 11:10	10
1,2,3-Trichlorobenzene	10	U	10	7.4	ug/L			08/15/25 11:10	10
1,2,4-Trichlorobenzene	10	U	10	7.0	ug/L			08/15/25 11:10	10
1,3,5-Trichlorobenzene	10	U	10	5.4	ug/L			08/15/25 11:10	10
1,1,1-Trichloroethane	10	U	10	3.3	ug/L			08/15/25 11:10	10
1,1,2-Trichloroethane	10	U	10	3.5	ug/L			08/15/25 11:10	10
Trichloroethene	**270**		10	3.6	ug/L			08/15/25 11:10	10
Trichlorofluoromethane (Freon 11)	10	U	10	2.3	ug/L			08/15/25 11:10	10

Client Sample ID: DUP/250812
Date Collected: 08/12/25 00:00
Date Received: 08/13/25 11:01

Lab Sample ID: 620-28538-8
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	10	U	10	5.1	ug/L			08/15/25 11:10	10
1,2,4-Trimethylbenzene	10	U	10	4.6	ug/L			08/15/25 11:10	10
1,3,5-Trimethylbenzene	10	U	10	4.5	ug/L			08/15/25 11:10	10
Vinyl chloride	**99**		10	2.6	ug/L			08/15/25 11:10	10
m,p-Xylene	10	U	10	7.8	ug/L			08/15/25 11:10	10
o-Xylene	10	U	10	4.3	ug/L			08/15/25 11:10	10
Tetrahydrofuran	20	U	20	7.0	ug/L			08/15/25 11:10	10
Ethyl ether	10	U	10	4.2	ug/L			08/15/25 11:10	10
Tert-amyl methyl ether	10	U	10	2.6	ug/L			08/15/25 11:10	10
Ethyl tert-butyl ether	10	U	10	2.9	ug/L			08/15/25 11:10	10
di-Isopropyl ether	10	U	10	2.6	ug/L			08/15/25 11:10	10
tert-Butanol	100	U	100	85	ug/L			08/15/25 11:10	10
trans-1,4-Dichloro-2-butene	50	U	50	8.1	ug/L			08/15/25 11:10	10
Ethanol	2000	U	2000	91	ug/L			08/15/25 11:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/15/25 11:10*	*10*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/15/25 11:10*	*10*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*08/15/25 11:10*	*10*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/15/25 11:10*	*10*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**2.2**		0.19	0.18	ug/L		08/18/25 18:42	08/20/25 14:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*11*		*10 - 150*	*08/18/25 18:42*	*08/20/25 14:34*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.13**		1.50	0.60	mg/L			08/14/25 10:53	1
Nitrate as N	0.11	U H	0.11	0.050	mg/L			08/14/25 10:53	1
Sulfate	**13.9**		1.50	0.50	mg/L			08/14/25 10:53	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**48.8**		0.50	0.19	mg/L		08/13/25 14:35	08/14/25 15:17	1
Magnesium	**7.3**		0.040	0.038	mg/L		08/13/25 14:35	08/14/25 15:17	1
Potassium	**0.82**	**J**	1.0	0.34	mg/L		08/13/25 14:35	08/14/25 15:17	1
Sodium	**43.3**		1.5	0.28	mg/L		08/13/25 14:35	08/14/25 15:17	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U H	0.10	0.056	mg/L		08/13/25 14:35	08/14/25 16:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	**234**		8.0	2.6	mg/L			08/14/25 21:59	1
Total Organic Carbon (SM 5310 C-2014)	**5.8**		1.0	0.50	mg/L			08/19/25 23:58	1
Total Inorganic Carbon (SM 5310 C-2014)	**34.6**		2.0	0.60	mg/L			08/19/25 23:58	1

Client Sample ID: FB/250812
Lab Sample ID: 620-28538-9

Date Collected: 08/12/25 15:00
Matrix: Water

Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 23:19	1
Acetone	**5.3**	**J**	10	0.90	ug/L			08/14/25 23:19	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 23:19	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 23:19	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 23:19	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 23:19	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 23:19	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 23:19	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 23:19	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 23:19	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 23:19	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 23:19	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 23:19	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 23:19	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 23:19	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 23:19	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 23:19	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 23:19	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 23:19	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 23:19	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 23:19	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 23:19	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 23:19	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 23:19	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 23:19	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 23:19	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 23:19	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 23:19	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 23:19	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/14/25 23:19	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 23:19	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/14/25 23:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/14/25 23:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/14/25 23:19	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 23:19	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 23:19	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 23:19	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 23:19	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 23:19	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 23:19	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 23:19	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 23:19	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 23:19	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 23:19	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 23:19	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 23:19	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 23:19	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 23:19	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 23:19	1

Client Sample ID: FB/250812
Date Collected: 08/12/25 15:00
Date Received: 08/13/25 11:01

Lab Sample ID: 620-28538-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 23:19	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 23:19	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 23:19	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 23:19	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 23:19	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 23:19	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 23:19	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 23:19	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 23:19	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/14/25 23:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 23:19	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 23:19	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 23:19	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 23:19	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 23:19	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 23:19	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/14/25 23:19	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 23:19	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 23:19	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 23:19	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 23:19	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 23:19	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 23:19	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 23:19	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 23:19	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 23:19	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/14/25 23:19*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/14/25 23:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/14/25 23:19*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*08/14/25 23:19*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.19	ug/L		08/18/25 18:42	08/20/25 14:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*12*		*10 - 150*	*08/18/25 18:42*	*08/20/25 14:52*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.50	U	1.50	0.60	mg/L			08/14/25 12:22	1
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/14/25 12:22	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/14/25 12:22	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.50	U	0.50	0.19	mg/L		08/13/25 14:35	08/14/25 15:23	1
Magnesium	0.040	U	0.040	0.038	mg/L		08/13/25 14:35	08/14/25 15:23	1

Client Sample ID: FB/250812
Lab Sample ID: 620-28538-9
Date Collected: 08/12/25 15:00
Matrix: Water
Date Received: 08/13/25 11:01

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1.0	U	1.0	0.34	mg/L		08/13/25 14:35	08/14/25 15:23	1
Sodium	1.5	U	1.5	0.28	mg/L		08/13/25 14:35	08/14/25 15:23	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/13/25 14:35	08/14/25 16:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	8.0	U	8.0	2.6	mg/L			08/14/25 21:21	1
Total Organic Carbon (SM 5310 C-2014)	1.0	U	1.0	0.50	mg/L			08/20/25 00:18	1
Total Inorganic Carbon (SM 5310 C-2014)	2.0	U	2.0	0.60	mg/L			08/20/25 00:18	1

Client Sample ID: TB/250812
Lab Sample ID: 620-28538-10
Date Collected: 08/12/25 00:00
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 19:52	1
Acetone	**4.7**	**J**	10	0.90	ug/L			08/14/25 19:52	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 19:52	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 19:52	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 19:52	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 19:52	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 19:52	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 19:52	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 19:52	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 19:52	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 19:52	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 19:52	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 19:52	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 19:52	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 19:52	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 19:52	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 19:52	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 19:52	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 19:52	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 19:52	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 19:52	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 19:52	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 19:52	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 19:52	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 19:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 19:52	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 19:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 19:52	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 19:52	1

Client Sample ID: TB/250812
Lab Sample ID: 620-28538-10

Date Collected: 08/12/25 00:00
Matrix: Water

Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/14/25 19:52	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 19:52	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/14/25 19:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/14/25 19:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/14/25 19:52	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 19:52	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 19:52	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 19:52	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 19:52	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 19:52	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 19:52	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 19:52	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 19:52	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 19:52	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 19:52	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 19:52	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 19:52	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 19:52	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 19:52	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 19:52	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 19:52	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 19:52	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 19:52	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 19:52	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 19:52	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 19:52	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 19:52	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 19:52	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 19:52	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/14/25 19:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 19:52	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 19:52	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 19:52	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 19:52	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 19:52	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 19:52	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/14/25 19:52	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 19:52	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 19:52	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 19:52	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 19:52	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 19:52	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 19:52	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 19:52	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 19:52	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 19:52	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/14/25 19:52*	*1*

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28538-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: TB/250812
Lab Sample ID: 620-28538-10
Date Collected: 08/12/25 00:00
Matrix: Water
Date Received: 08/13/25 11:01

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		08/14/25 19:52	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		08/14/25 19:52	1
Dibromofluoromethane (Surr)	108		70 - 130		08/14/25 19:52	1

Surrogate Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28538-1
Project/Site: ESCO Steel Treaters Project

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-28538-1	MW-104I/250812	101	100	110	106
620-28538-1 - DL	MW-104I/250812	99	100	112	110
620-28538-2	MW-104E/250812	100	99	110	107
620-28538-3	MW-101I/250812	98	100	112	109
620-28538-3 - DL	MW-101I/250812	97	101	111	109
620-28538-4	MW-100I/250812	100	100	111	107
620-28538-4 - DL	MW-100I/250812	99	100	112	111
620-28538-5	MW-103ER/250812	99	98	111	108
620-28538-6	MW-103B/250812	100	98	110	107
620-28538-7	MW-102ER/250812	98	98	109	108
620-28538-8	DUP/250812	99	98	110	108
620-28538-8 - DL	DUP/250812	99	99	111	109
620-28538-9	FB/250812	99	98	110	108
620-28538-10	TB/250812	100	100	110	108
LCS 620-52091/4	Lab Control Sample	104	101	103	103
LCS 620-52137/4	Lab Control Sample	102	102	105	106
LCSD 620-52091/5	Lab Control Sample Dup	102	101	102	104
LCSD 620-52137/5	Lab Control Sample Dup	103	101	104	105
MB 620-52091/7	Method Blank	96	95	106	104
MB 620-52137/6	Method Blank	99	98	106	106

Surrogate Legend

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

Isotope Dilution Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28538-1
Project/Site: ESCO Steel Treaters Project

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

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DXE (10-150)							
620-28538-4	MW-100I/250812	13							
620-28538-5	MW-103ER/250812	14							
620-28538-6	MW-103B/250812	14							
620-28538-7	MW-102ER/250812	11							
620-28538-8	DUP/250812	11							
620-28538-9	FB/250812	12							
LCS 620-52299/2-A	Lab Control Sample	12							
LCSD 620-52299/3-A	Lab Control Sample Dup	12							
MB 620-52299/1-A	Method Blank	14							

Surrogate Legend

DXE = 1,4-Dioxane-d8

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

Lab Sample ID: MB 620-52091/7
Matrix: Water
Analysis Batch: 52091

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 19:29	1
Acetone	10	U	10	0.90	ug/L			08/14/25 19:29	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 19:29	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 19:29	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 19:29	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 19:29	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 19:29	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 19:29	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 19:29	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 19:29	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 19:29	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 19:29	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 19:29	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 19:29	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/14/25 19:29	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 19:29	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 19:29	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 19:29	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 19:29	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 19:29	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 19:29	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 19:29	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 19:29	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 19:29	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 19:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 19:29	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 19:29	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 19:29	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 19:29	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/14/25 19:29	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 19:29	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/14/25 19:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/14/25 19:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/14/25 19:29	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 19:29	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 19:29	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 19:29	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 19:29	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 19:29	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 19:29	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 19:29	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 19:29	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 19:29	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 19:29	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 19:29	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 19:29	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 19:29	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 19:29	1

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

Lab Sample ID: MB 620-52091/7
Matrix: Water
Analysis Batch: 52091

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 19:29	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 19:29	1
Styrene	1.0	U	1.0	0.42	ug/L			08/14/25 19:29	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 19:29	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 19:29	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 19:29	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 19:29	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 19:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 19:29	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 19:29	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/14/25 19:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 19:29	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 19:29	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 19:29	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 19:29	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 19:29	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 19:29	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/14/25 19:29	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 19:29	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 19:29	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 19:29	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 19:29	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 19:29	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 19:29	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 19:29	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 19:29	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 19:29	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 19:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*08/14/25 19:29*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*08/14/25 19:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*08/14/25 19:29*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*08/14/25 19:29*	*1*

Lab Sample ID: LCS 620-52091/4
Matrix: Water
Analysis Batch: 52091

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-Trichlorotrifluoroethane (Freon 113)	20.0	21.4		ug/L		107	72 - 120
Acetone	20.0	22.0		ug/L		110	19 - 144
Acrylonitrile	20.0	22.5		ug/L		113	67 - 141
Benzene	20.0	20.3		ug/L		102	82 - 120
Bromobenzene	20.0	21.9		ug/L		110	80 - 115
Bromochloromethane	20.0	21.8		ug/L		109	84 - 119
Bromodichloromethane	20.0	24.0	*	ug/L		120	77 - 118
Bromoform	20.0	22.5		ug/L		112	68 - 130

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

Lab Sample ID: LCS 620-52091/4
Matrix: Water
Analysis Batch: 52091

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	18.0		ug/L		90	27 - 151
2-Butanone (MEK)	20.0	20.8		ug/L		104	32 - 126
n-Butylbenzene	20.0	24.4		ug/L		122	81 - 129
sec-Butylbenzene	20.0	23.8		ug/L		119	81 - 124
tert-Butylbenzene	20.0	24.1		ug/L		121	80 - 128
Carbon disulfide	20.0	21.4		ug/L		107	67 - 136
Carbon tetrachloride	20.0	30.1	*	ug/L		150	70 - 129
Chlorobenzene	20.0	20.6		ug/L		103	82 - 112
Chloroethane	20.0	18.6		ug/L		93	47 - 142
Chloroform	20.0	21.4		ug/L		107	77 - 126
Chloromethane	20.0	14.6		ug/L		73	26 - 159
2-Chlorotoluene	20.0	22.7		ug/L		114	82 - 122
4-Chlorotoluene	20.0	22.7		ug/L		114	79 - 123
1,2-Dibromo-3-Chloropropane	20.0	22.0		ug/L		110	64 - 117
Dibromochloromethane	20.0	20.5		ug/L		102	71 - 126
1,2-Dibromoethane (EDB)	20.0	22.7		ug/L		113	83 - 122
Dibromomethane	20.0	22.2		ug/L		111	83 - 117
1,2-Dichlorobenzene	20.0	21.7		ug/L		109	87 - 118
1,3-Dichlorobenzene	20.0	22.0		ug/L		110	83 - 122
1,4-Dichlorobenzene	20.0	20.7		ug/L		104	81 - 115
Dichlorodifluoromethane (Freon 12)	20.0	18.2		ug/L		91	21 - 147
1,1-Dichloroethane	20.0	20.6		ug/L		103	84 - 122
1,2-Dichloroethane	20.0	21.1		ug/L		105	69 - 121
1,1-Dichloroethene	20.0	21.1		ug/L		106	83 - 123
cis-1,2-Dichloroethene	20.0	21.9		ug/L		110	85 - 122
trans-1,2-Dichloroethene	20.0	20.5		ug/L		102	84 - 123
1,2-Dichloropropane	20.0	20.9		ug/L		105	80 - 124
1,3-Dichloropropane	20.0	21.8		ug/L		109	80 - 118
2,2-Dichloropropane	20.0	23.1		ug/L		115	74 - 125
1,1-Dichloropropene	20.0	21.7		ug/L		109	76 - 120
cis-1,3-Dichloropropene	20.0	21.7		ug/L		109	76 - 125
trans-1,3-Dichloropropene	20.0	21.9		ug/L		109	77 - 132
Ethylbenzene	20.0	23.3		ug/L		116	85 - 116
Hexachlorobutadiene	20.0	21.7		ug/L		108	70 - 127
2-Hexanone (MBK)	20.0	20.4		ug/L		102	40 - 130
Isopropylbenzene	20.0	22.0		ug/L		110	78 - 122
4-Isopropyltoluene	20.0	23.8		ug/L		119	80 - 121
Methyl tert-butyl ether	20.0	20.7		ug/L		104	72 - 126
4-Methyl-2-pentanone (MIBK)	20.0	20.7		ug/L		104	59 - 130
Methylene Chloride	20.0	20.5		ug/L		103	77 - 124
Naphthalene	20.0	19.6		ug/L		98	57 - 133
N-Propylbenzene	20.0	21.6		ug/L		108	86 - 124
Styrene	20.0	24.3	*	ug/L		122	80 - 121
1,1,1,2-Tetrachloroethane	20.0	21.7		ug/L		109	81 - 113
1,1,2,2-Tetrachloroethane	20.0	21.9		ug/L		109	74 - 115
Tetrachloroethene	20.0	21.8		ug/L		109	78 - 124
Toluene	20.0	21.3		ug/L		106	83 - 114
1,2,3-Trichlorobenzene	20.0	22.3		ug/L		112	73 - 128

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

Lab Sample ID: LCS 620-52091/4
Matrix: Water
Analysis Batch: 52091

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	20.0	22.9		ug/L		114	74 - 128
1,3,5-Trichlorobenzene	20.0	22.1		ug/L		111	81 - 124
1,1,1-Trichloroethane	20.0	23.3		ug/L		117	76 - 124
1,1,2-Trichloroethane	20.0	21.7		ug/L		108	83 - 120
Trichloroethene	20.0	21.2		ug/L		106	79 - 113
Trichlorofluoromethane (Freon 11)	20.0	21.2		ug/L		106	68 - 130
1,2,3-Trichloropropane	20.0	22.1		ug/L		111	74 - 116
1,2,4-Trimethylbenzene	20.0	24.0		ug/L		120	83 - 121
1,3,5-Trimethylbenzene	20.0	23.9		ug/L		120	82 - 125
Vinyl chloride	20.0	20.2		ug/L		101	49 - 145
m,p-Xylene	20.0	24.7		ug/L		123	82 - 128
o-Xylene	20.0	24.2		ug/L		121	83 - 122
Tetrahydrofuran	20.0	21.6		ug/L		108	59 - 134
Ethyl ether	20.0	20.6		ug/L		103	74 - 119
Tert-amyl methyl ether	20.0	20.4		ug/L		102	70 - 122
Ethyl tert-butyl ether	20.0	21.5		ug/L		108	72 - 122
di-Isopropyl ether	20.0	21.1		ug/L		106	66 - 130
tert-Butanol	200	255		ug/L		127	60 - 146
trans-1,4-Dichloro-2-butene	20.0	21.2		ug/L		106	57 - 146
Ethanol	400	595		ug/L		149	53 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 620-52091/5
Matrix: Water
Analysis Batch: 52091

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
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	21.2		ug/L		106	72 - 120	1	20
Acetone	20.0	20.0		ug/L		100	19 - 144	10	20
Acrylonitrile	20.0	23.4		ug/L		117	67 - 141	4	20
Benzene	20.0	20.0		ug/L		100	82 - 120	2	20
Bromobenzene	20.0	21.8		ug/L		109	80 - 115	1	20
Bromochloromethane	20.0	21.8		ug/L		109	84 - 119	0	20
Bromodichloromethane	20.0	23.5		ug/L		118	77 - 118	2	20
Bromoform	20.0	22.1		ug/L		110	68 - 130	2	20
Bromomethane	20.0	18.1		ug/L		91	27 - 151	1	20
2-Butanone (MEK)	20.0	20.4		ug/L		102	32 - 126	2	20
n-Butylbenzene	20.0	24.2		ug/L		121	81 - 129	1	20
sec-Butylbenzene	20.0	23.5		ug/L		118	81 - 124	1	20
tert-Butylbenzene	20.0	23.6		ug/L		118	80 - 128	2	20
Carbon disulfide	20.0	20.7		ug/L		104	67 - 136	3	20
Carbon tetrachloride	20.0	30.1	*	ug/L		150	70 - 129	0	20

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

Lab Sample ID: LCSD 620-52091/5
Matrix: Water
Analysis Batch: 52091

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
Chlorobenzene			20.0	20.6		ug/L		103	82 - 112	0	20
Chloroethane			20.0	18.7		ug/L		93	47 - 142	1	20
Chloroform			20.0	21.2		ug/L		106	77 - 126	1	20
Chloromethane			20.0	14.5		ug/L		73	26 - 159	1	20
2-Chlorotoluene			20.0	22.3		ug/L		111	82 - 122	2	20
4-Chlorotoluene			20.0	22.1		ug/L		110	79 - 123	3	20
1,2-Dibromo-3-Chloropropane			20.0	22.2		ug/L		111	64 - 117	1	20
Dibromochloromethane			20.0	20.5		ug/L		102	71 - 126	0	20
1,2-Dibromoethane (EDB)			20.0	22.9		ug/L		114	83 - 122	1	20
Dibromomethane			20.0	22.1		ug/L		110	83 - 117	0	20
1,2-Dichlorobenzene			20.0	21.5		ug/L		107	87 - 118	1	20
1,3-Dichlorobenzene			20.0	21.6		ug/L		108	83 - 122	2	20
1,4-Dichlorobenzene			20.0	20.3		ug/L		101	81 - 115	2	20
Dichlorodifluoromethane (Freon 12)			20.0	18.1		ug/L		91	21 - 147	0	20
1,1-Dichloroethane			20.0	20.5		ug/L		103	84 - 122	0	20
1,2-Dichloroethane			20.0	21.0		ug/L		105	69 - 121	0	20
1,1-Dichloroethene			20.0	21.1		ug/L		106	83 - 123	0	20
cis-1,2-Dichloroethene			20.0	21.4		ug/L		107	85 - 122	2	20
trans-1,2-Dichloroethene			20.0	20.7		ug/L		103	84 - 123	1	20
1,2-Dichloropropane			20.0	20.6		ug/L		103	80 - 124	1	20
1,3-Dichloropropane			20.0	21.7		ug/L		108	80 - 118	1	20
2,2-Dichloropropane			20.0	22.8		ug/L		114	74 - 125	1	20
1,1-Dichloropropene			20.0	21.7		ug/L		108	76 - 120	0	20
cis-1,3-Dichloropropene			20.0	21.9		ug/L		110	76 - 125	1	20
trans-1,3-Dichloropropene			20.0	22.2		ug/L		111	77 - 132	2	20
Ethylbenzene			20.0	23.3		ug/L		116	85 - 116	0	20
Hexachlorobutadiene			20.0	21.6		ug/L		108	70 - 127	0	20
2-Hexanone (MBK)			20.0	18.5		ug/L		92	40 - 130	10	20
Isopropylbenzene			20.0	21.2		ug/L		106	78 - 122	4	20
4-Isopropyltoluene			20.0	23.2		ug/L		116	80 - 121	2	20
Methyl tert-butyl ether			20.0	21.4		ug/L		107	72 - 126	3	20
4-Methyl-2-pentanone (MIBK)			20.0	20.7		ug/L		103	59 - 130	0	20
Methylene Chloride			20.0	20.1		ug/L		101	77 - 124	2	20
Naphthalene			20.0	19.5		ug/L		98	57 - 133	1	20
N-Propylbenzene			20.0	21.2		ug/L		106	86 - 124	2	20
Styrene			20.0	24.1		ug/L		121	80 - 121	1	20
1,1,1,2-Tetrachloroethane			20.0	21.7		ug/L		109	81 - 113	0	20
1,1,2,2-Tetrachloroethane			20.0	22.3		ug/L		112	74 - 115	2	20
Tetrachloroethene			20.0	21.6		ug/L		108	78 - 124	1	20
Toluene			20.0	20.9		ug/L		104	83 - 114	2	20
1,2,3-Trichlorobenzene			20.0	22.3		ug/L		112	73 - 128	0	20
1,2,4-Trichlorobenzene			20.0	23.0		ug/L		115	74 - 128	0	20
1,3,5-Trichlorobenzene			20.0	22.1		ug/L		110	81 - 124	0	20
1,1,1-Trichloroethane			20.0	23.5		ug/L		118	76 - 124	1	20
1,1,2-Trichloroethane			20.0	22.1		ug/L		110	83 - 120	2	20
Trichloroethene			20.0	21.5		ug/L		107	79 - 113	1	20
Trichlorofluoromethane (Freon 11)			20.0	20.6		ug/L		103	68 - 130	3	20

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

Lab Sample ID: LCSD 620-52091/5
Matrix: Water
Analysis Batch: 52091

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
1,2,3-Trichloropropane			20.0	22.0		ug/L		110	74 - 116	1	20
1,2,4-Trimethylbenzene			20.0	23.8		ug/L		119	83 - 121	1	20
1,3,5-Trimethylbenzene			20.0	23.8		ug/L		119	82 - 125	0	20
Vinyl chloride			20.0	19.2		ug/L		96	49 - 145	5	20
m,p-Xylene			20.0	24.4		ug/L		122	82 - 128	1	20
o-Xylene			20.0	23.8		ug/L		119	83 - 122	2	20
Tetrahydrofuran			20.0	21.7		ug/L		109	59 - 134	1	20
Ethyl ether			20.0	20.7		ug/L		104	74 - 119	1	20
Tert-amyl methyl ether			20.0	20.5		ug/L		102	70 - 122	1	20
Ethyl tert-butyl ether			20.0	21.7		ug/L		108	72 - 122	1	20
di-Isopropyl ether			20.0	20.8		ug/L		104	66 - 130	2	20
tert-Butanol			200	252		ug/L		126	60 - 146	1	20
trans-1,4-Dichloro-2-butene			20.0	20.7		ug/L		103	57 - 146	3	20
Ethanol			400	523		ug/L		131	53 - 150	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 620-52137/6
Matrix: Water
Analysis Batch: 52137

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/15/25 08:52	1
Acetone	10	U	10	0.90	ug/L			08/15/25 08:52	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/15/25 08:52	1
Benzene	1.0	U	1.0	0.25	ug/L			08/15/25 08:52	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/15/25 08:52	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/15/25 08:52	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/15/25 08:52	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/15/25 08:52	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/15/25 08:52	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/15/25 08:52	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/15/25 08:52	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/15/25 08:52	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/15/25 08:52	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/15/25 08:52	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/15/25 08:52	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/15/25 08:52	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/15/25 08:52	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/15/25 08:52	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/15/25 08:52	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/15/25 08:52	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/15/25 08:52	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/15/25 08:52	1

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

Lab Sample ID: MB 620-52137/6
Matrix: Water
Analysis Batch: 52137

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/15/25 08:52	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/15/25 08:52	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/15/25 08:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/15/25 08:52	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/15/25 08:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/15/25 08:52	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/15/25 08:52	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/15/25 08:52	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/15/25 08:52	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/15/25 08:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/15/25 08:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/15/25 08:52	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/15/25 08:52	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/15/25 08:52	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/15/25 08:52	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/15/25 08:52	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/15/25 08:52	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/15/25 08:52	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/15/25 08:52	1
Hexachlorobutadiene	0.497	J	1.0	0.24	ug/L			08/15/25 08:52	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/15/25 08:52	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/15/25 08:52	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/15/25 08:52	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/15/25 08:52	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/15/25 08:52	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/15/25 08:52	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/15/25 08:52	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/15/25 08:52	1
Styrene	1.0	U	1.0	0.42	ug/L			08/15/25 08:52	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/15/25 08:52	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/15/25 08:52	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/15/25 08:52	1
Toluene	1.0	U	1.0	0.28	ug/L			08/15/25 08:52	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/15/25 08:52	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/15/25 08:52	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/15/25 08:52	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/15/25 08:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/15/25 08:52	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/15/25 08:52	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/15/25 08:52	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/15/25 08:52	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/15/25 08:52	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/15/25 08:52	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/15/25 08:52	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/15/25 08:52	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/15/25 08:52	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/15/25 08:52	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/15/25 08:52	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/15/25 08:52	1

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

Lab Sample ID: MB 620-52137/6
Matrix: Water
Analysis Batch: 52137

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/15/25 08:52	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/15/25 08:52	1
tert-Butanol	10	U	10	8.5	ug/L			08/15/25 08:52	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/15/25 08:52	1
Ethanol	200	U	200	9.1	ug/L			08/15/25 08:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/15/25 08:52*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/15/25 08:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*08/15/25 08:52*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*08/15/25 08:52*	*1*

Lab Sample ID: LCS 620-52137/4
Matrix: Water
Analysis Batch: 52137

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-Trichlorotrifluoroethane (Freon 113)	20.0	20.7		ug/L		103	72 - 120
Acetone	20.0	17.6		ug/L		88	19 - 144
Acrylonitrile	20.0	19.1		ug/L		95	67 - 141
Benzene	20.0	19.0		ug/L		95	82 - 120
Bromobenzene	20.0	20.5		ug/L		102	80 - 115
Bromochloromethane	20.0	20.4		ug/L		102	84 - 119
Bromodichloromethane	20.0	24.0	*	ug/L		120	77 - 118
Bromoform	20.0	21.0		ug/L		105	68 - 130
Bromomethane	20.0	19.5		ug/L		98	27 - 151
2-Butanone (MEK)	20.0	15.8		ug/L		79	32 - 126
n-Butylbenzene	20.0	21.7		ug/L		108	81 - 129
sec-Butylbenzene	20.0	21.7		ug/L		109	81 - 124
tert-Butylbenzene	20.0	21.7		ug/L		109	80 - 128
Carbon disulfide	20.0	19.4		ug/L		97	67 - 136
Carbon tetrachloride	20.0	40.3	*	ug/L		202	70 - 129
Chlorobenzene	20.0	19.9		ug/L		99	82 - 112
Chloroethane	20.0	21.6		ug/L		108	47 - 142
Chloroform	20.0	20.8		ug/L		104	77 - 126
Chloromethane	20.0	15.9		ug/L		79	26 - 159
2-Chlorotoluene	20.0	21.0		ug/L		105	82 - 122
4-Chlorotoluene	20.0	21.7		ug/L		108	79 - 123
1,2-Dibromo-3-Chloropropane	20.0	17.7		ug/L		88	64 - 117
Dibromochloromethane	20.0	19.4		ug/L		97	71 - 126
1,2-Dibromoethane (EDB)	20.0	20.8		ug/L		104	83 - 122
Dibromomethane	20.0	20.3		ug/L		101	83 - 117
1,2-Dichlorobenzene	20.0	19.6		ug/L		98	87 - 118
1,3-Dichlorobenzene	20.0	20.1		ug/L		101	83 - 122
1,4-Dichlorobenzene	20.0	19.3		ug/L		96	81 - 115
Dichlorodifluoromethane (Freon 12)	20.0	17.6		ug/L		88	21 - 147
1,1-Dichloroethane	20.0	19.6		ug/L		98	84 - 122

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

Lab Sample ID: LCS 620-52137/4
Matrix: Water
Analysis Batch: 52137

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	20.0	19.9		ug/L		99	69 - 121
1,1-Dichloroethene	20.0	19.7		ug/L		99	83 - 123
cis-1,2-Dichloroethene	20.0	20.2		ug/L		101	85 - 122
trans-1,2-Dichloroethene	20.0	18.9		ug/L		94	84 - 123
1,2-Dichloropropane	20.0	19.3		ug/L		97	80 - 124
1,3-Dichloropropane	20.0	20.0		ug/L		100	80 - 118
2,2-Dichloropropane	20.0	22.7		ug/L		114	74 - 125
1,1-Dichloropropene	20.0	20.2		ug/L		101	76 - 120
cis-1,3-Dichloropropene	20.0	20.5		ug/L		103	76 - 125
trans-1,3-Dichloropropene	20.0	20.2		ug/L		101	77 - 132
Ethylbenzene	20.0	21.4		ug/L		107	85 - 116
Hexachlorobutadiene	20.0	18.8		ug/L		94	70 - 127
2-Hexanone (MBK)	20.0	15.0		ug/L		75	40 - 130
Isopropylbenzene	20.0	20.3		ug/L		102	78 - 122
4-Isopropyltoluene	20.0	21.6		ug/L		108	80 - 121
Methyl tert-butyl ether	20.0	19.3		ug/L		97	72 - 126
4-Methyl-2-pentanone (MIBK)	20.0	14.7		ug/L		73	59 - 130
Methylene Chloride	20.0	19.4		ug/L		97	77 - 124
Naphthalene	20.0	15.1		ug/L		76	57 - 133
N-Propylbenzene	20.0	19.8		ug/L		99	86 - 124
Styrene	20.0	22.2		ug/L		111	80 - 121
1,1,1,2-Tetrachloroethane	20.0	20.9		ug/L		105	81 - 113
1,1,2,2-Tetrachloroethane	20.0	19.2		ug/L		96	74 - 115
Tetrachloroethene	20.0	20.2		ug/L		101	78 - 124
Toluene	20.0	19.9		ug/L		100	83 - 114
1,2,3-Trichlorobenzene	20.0	18.2		ug/L		91	73 - 128
1,2,4-Trichlorobenzene	20.0	19.2		ug/L		96	74 - 128
1,3,5-Trichlorobenzene	20.0	19.4		ug/L		97	81 - 124
1,1,1-Trichloroethane	20.0	24.4		ug/L		122	76 - 124
1,1,2-Trichloroethane	20.0	20.0		ug/L		100	83 - 120
Trichloroethene	20.0	20.8		ug/L		104	79 - 113
Trichlorofluoromethane (Freon 11)	20.0	21.0		ug/L		105	68 - 130
1,2,3-Trichloropropane	20.0	19.3		ug/L		97	74 - 116
1,2,4-Trimethylbenzene	20.0	22.1		ug/L		111	83 - 121
1,3,5-Trimethylbenzene	20.0	22.1		ug/L		111	82 - 125
Vinyl chloride	20.0	18.8		ug/L		94	49 - 145
m,p-Xylene	20.0	22.6		ug/L		113	82 - 128
o-Xylene	20.0	22.4		ug/L		112	83 - 122
Tetrahydrofuran	20.0	17.5		ug/L		88	59 - 134
Ethyl ether	20.0	18.7		ug/L		94	74 - 119
Tert-amyl methyl ether	20.0	18.0		ug/L		90	70 - 122
Ethyl tert-butyl ether	20.0	19.1		ug/L		96	72 - 122
di-Isopropyl ether	20.0	19.2		ug/L		96	66 - 130
tert-Butanol	200	172		ug/L		86	60 - 146
trans-1,4-Dichloro-2-butene	20.0	18.5		ug/L		93	57 - 146
Ethanol	400	431		ug/L		108	53 - 150

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

Lab Sample ID: LCS 620-52137/4
Matrix: Water
Analysis Batch: 52137

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 620-52137/5
Matrix: Water
Analysis Batch: 52137

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
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	19.5		ug/L		98	72 - 120	6	20
Acetone			20.0	14.2	*	ug/L		71	19 - 144	22	20
Acrylonitrile			20.0	19.1		ug/L		95	67 - 141	0	20
Benzene			20.0	18.7		ug/L		94	82 - 120	1	20
Bromobenzene			20.0	20.3		ug/L		101	80 - 115	1	20
Bromochloromethane			20.0	20.5		ug/L		102	84 - 119	0	20
Bromodichloromethane			20.0	23.1		ug/L		116	77 - 118	4	20
Bromoform			20.0	20.8		ug/L		104	68 - 130	1	20
Bromomethane			20.0	19.2		ug/L		96	27 - 151	1	20
2-Butanone (MEK)			20.0	14.0		ug/L		70	32 - 126	12	20
n-Butylbenzene			20.0	21.5		ug/L		108	81 - 129	1	20
sec-Butylbenzene			20.0	21.3		ug/L		106	81 - 124	2	20
tert-Butylbenzene			20.0	21.3		ug/L		107	80 - 128	2	20
Carbon disulfide			20.0	18.9		ug/L		95	67 - 136	2	20
Carbon tetrachloride			20.0	40.0	*	ug/L		200	70 - 129	1	20
Chlorobenzene			20.0	19.7		ug/L		99	82 - 112	1	20
Chloroethane			20.0	21.3		ug/L		107	47 - 142	1	20
Chloroform			20.0	20.2		ug/L		101	77 - 126	3	20
Chloromethane			20.0	15.4		ug/L		77	26 - 159	3	20
2-Chlorotoluene			20.0	20.7		ug/L		104	82 - 122	1	20
4-Chlorotoluene			20.0	21.1		ug/L		106	79 - 123	3	20
1,2-Dibromo-3-Chloropropane			20.0	18.5		ug/L		93	64 - 117	5	20
Dibromochloromethane			20.0	19.4		ug/L		97	71 - 126	0	20
1,2-Dibromoethane (EDB)			20.0	20.3		ug/L		102	83 - 122	2	20
Dibromomethane			20.0	20.0		ug/L		100	83 - 117	1	20
1,2-Dichlorobenzene			20.0	19.4		ug/L		97	87 - 118	1	20
1,3-Dichlorobenzene			20.0	20.1		ug/L		100	83 - 122	0	20
1,4-Dichlorobenzene			20.0	18.8		ug/L		94	81 - 115	2	20
Dichlorodifluoromethane (Freon 12)			20.0	17.0		ug/L		85	21 - 147	4	20
1,1-Dichloroethane			20.0	19.3		ug/L		96	84 - 122	2	20
1,2-Dichloroethane			20.0	19.4		ug/L		97	69 - 121	2	20
1,1-Dichloroethene			20.0	19.3		ug/L		96	83 - 123	2	20
cis-1,2-Dichloroethene			20.0	20.2		ug/L		101	85 - 122	0	20
trans-1,2-Dichloroethene			20.0	19.8		ug/L		99	84 - 123	5	20
1,2-Dichloropropane			20.0	19.3		ug/L		97	80 - 124	0	20
1,3-Dichloropropane			20.0	19.9		ug/L		99	80 - 118	1	20
2,2-Dichloropropane			20.0	22.5		ug/L		113	74 - 125	1	20

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

Lab Sample ID: LCSD 620-52137/5
Matrix: Water
Analysis Batch: 52137

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
1,1-Dichloropropene			20.0	20.4		ug/L		102	76 - 120	1	20
cis-1,3-Dichloropropene			20.0	20.6		ug/L		103	76 - 125	0	20
trans-1,3-Dichloropropene			20.0	20.2		ug/L		101	77 - 132	0	20
Ethylbenzene			20.0	21.3		ug/L		106	85 - 116	1	20
Hexachlorobutadiene			20.0	18.0		ug/L		90	70 - 127	5	20
2-Hexanone (MBK)			20.0	14.0		ug/L		70	40 - 130	7	20
Isopropylbenzene			20.0	19.9		ug/L		100	78 - 122	2	20
4-Isopropyltoluene			20.0	21.3		ug/L		106	80 - 121	2	20
Methyl tert-butyl ether			20.0	19.7		ug/L		98	72 - 126	2	20
4-Methyl-2-pentanone (MIBK)			20.0	15.0		ug/L		75	59 - 130	2	20
Methylene Chloride			20.0	19.3		ug/L		96	77 - 124	1	20
Naphthalene			20.0	15.3		ug/L		76	57 - 133	1	20
N-Propylbenzene			20.0	19.9		ug/L		99	86 - 124	0	20
Styrene			20.0	22.2		ug/L		111	80 - 121	0	20
1,1,1,2-Tetrachloroethane			20.0	20.5		ug/L		103	81 - 113	2	20
1,1,2,2-Tetrachloroethane			20.0	19.4		ug/L		97	74 - 115	1	20
Tetrachloroethene			20.0	20.0		ug/L		100	78 - 124	1	20
Toluene			20.0	19.8		ug/L		99	83 - 114	1	20
1,2,3-Trichlorobenzene			20.0	17.9		ug/L		89	73 - 128	2	20
1,2,4-Trichlorobenzene			20.0	19.1		ug/L		95	74 - 128	0	20
1,3,5-Trichlorobenzene			20.0	19.2		ug/L		96	81 - 124	1	20
1,1,1-Trichloroethane			20.0	24.5		ug/L		123	76 - 124	0	20
1,1,2-Trichloroethane			20.0	19.8		ug/L		99	83 - 120	1	20
Trichloroethene			20.0	19.6		ug/L		98	79 - 113	6	20
Trichlorofluoromethane (Freon 11)			20.0	20.4		ug/L		102	68 - 130	3	20
1,2,3-Trichloropropane			20.0	19.4		ug/L		97	74 - 116	0	20
1,2,4-Trimethylbenzene			20.0	21.9		ug/L		110	83 - 121	1	20
1,3,5-Trimethylbenzene			20.0	21.8		ug/L		109	82 - 125	2	20
Vinyl chloride			20.0	18.4		ug/L		92	49 - 145	2	20
m,p-Xylene			20.0	22.7		ug/L		113	82 - 128	0	20
o-Xylene			20.0	22.3		ug/L		111	83 - 122	0	20
Tetrahydrofuran			20.0	17.7		ug/L		89	59 - 134	1	20
Ethyl ether			20.0	17.9		ug/L		89	74 - 119	5	20
Tert-amyl methyl ether			20.0	18.1		ug/L		90	70 - 122	0	20
Ethyl tert-butyl ether			20.0	19.5		ug/L		98	72 - 122	2	20
di-Isopropyl ether			20.0	19.3		ug/L		96	66 - 130	0	20
tert-Butanol			200	179		ug/L		89	60 - 146	4	20
trans-1,4-Dichloro-2-butene			20.0	18.3		ug/L		92	57 - 146	1	20
Ethanol			400	372		ug/L		93	53 - 150	15	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*

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

Lab Sample ID: MB 620-52299/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 52418
Prep Batch: 52299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.19	ug/L		08/18/25 18:42	08/20/25 11:03	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*14*		*10 - 150*	*08/18/25 18:42*	*08/20/25 11:03*	*1*

Lab Sample ID: LCS 620-52299/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 52418
Prep Batch: 52299

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			4.00	5.57		ug/L		139	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*12*		*10 - 150*

Lab Sample ID: LCSD 620-52299/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 52418
Prep Batch: 52299

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			4.00	4.98		ug/L		125	40 - 140	11	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8	*12*		*10 - 150*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 410-685513/5
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 685513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/14/25 10:45	1

Lab Sample ID: LCS 410-685513/3
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 685513

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.750	0.702		mg/L		94	90 - 110		

Lab Sample ID: LCSD 410-685513/4
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 685513

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N			0.750	0.702		mg/L		94	90 - 110	0	20

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 620-28538-7 MS
Matrix: Water
Analysis Batch: 685513

Client Sample ID: MW-102ER/250812
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.11	U	0.500	0.450		mg/L		90	90 - 110

Lab Sample ID: 620-28538-7 DU
Matrix: Water
Analysis Batch: 685513

Client Sample ID: MW-102ER/250812
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.11	U	0.11	U	mg/L		NC	15

Lab Sample ID: MB 410-685514/5
Matrix: Water
Analysis Batch: 685514

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.50	U	1.50	0.60	mg/L			08/14/25 10:45	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/14/25 10:45	1

Lab Sample ID: LCS 410-685514/3
Matrix: Water
Analysis Batch: 685514

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	2.924		mg/L		97	90 - 110
Sulfate	7.50	7.381		mg/L		98	90 - 110

Lab Sample ID: LCSD 410-685514/4
Matrix: Water
Analysis Batch: 685514

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
Chloride	3.00	2.929		mg/L		98	90 - 110	0	20
Sulfate	7.50	7.384		mg/L		98	90 - 110	0	20

Lab Sample ID: 620-28538-7 MS
Matrix: Water
Analysis Batch: 685514

Client Sample ID: MW-102ER/250812
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.96		2.00	4.728	*	mg/L		88	90 - 110
Sulfate	1.50	U	5.00	4.777		mg/L		96	90 - 110

Lab Sample ID: 620-28538-7 DU
Matrix: Water
Analysis Batch: 685514

Client Sample ID: MW-102ER/250812
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	2.96		2.958		mg/L		0.08	15
Sulfate	1.50	U	1.50	U	mg/L		NC	15

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 410-686235/5
Matrix: Water
Analysis Batch: 686235

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.50	U	1.50	0.60	mg/L			08/15/25 10:47	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/15/25 10:47	1

Lab Sample ID: LCS 410-686235/3
Matrix: Water
Analysis Batch: 686235

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			3.00	3.086		mg/L		103	90 - 110		
Sulfate			7.50	7.541		mg/L		101	90 - 110		

Lab Sample ID: LCSD 410-686235/4
Matrix: Water
Analysis Batch: 686235

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
Chloride			3.00	3.076		mg/L		103	90 - 110	0	20
Sulfate			7.50	7.561		mg/L		101	90 - 110	0	20

Lab Sample ID: 410-236777-F-5 MS
Matrix: Water
Analysis Batch: 686235

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	11.8		10.0	22.86		mg/L		110	90 - 110		

Lab Sample ID: 410-236777-F-5 MSD
Matrix: Water
Analysis Batch: 686235

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11.8		10.0	22.55		mg/L		107	90 - 110	1	20

Lab Sample ID: 410-236777-F-5 DU
Matrix: Water
Analysis Batch: 686235

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	11.8			11.99		mg/L				1	15

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 620-52040/1-A
Matrix: Water
Analysis Batch: 52283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.25	U	0.25	0.093	mg/L		08/13/25 14:35	08/14/25 13:30	1
Magnesium	0.020	U	0.020	0.019	mg/L		08/13/25 14:35	08/14/25 13:30	1
Potassium	0.50	U	0.50	0.17	mg/L		08/13/25 14:35	08/14/25 13:30	1

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

Lab Sample ID: MB 620-52040/1-A
Matrix: Water
Analysis Batch: 52283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	0.75	U	0.75	0.14	mg/L		08/13/25 14:35	08/14/25 13:30	1

Lab Sample ID: LCS 620-52040/2-A
Matrix: Water
Analysis Batch: 52283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	2.25	2.09		mg/L		93	80 - 120
Iron	0.750	0.725		mg/L		97	80 - 120
Magnesium	0.750	0.694		mg/L		92	80 - 120
Potassium	7.50	6.62		mg/L		88	80 - 120
Sodium	2.25	2.44		mg/L		109	80 - 120

Lab Sample ID: 620-28487-F-1-C MS
Matrix: Water
Analysis Batch: 52283

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 52040

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5.1		4.50	9.63		mg/L		102	75 - 125
Iron	1.2		1.50	2.45		mg/L		85	75 - 125
Magnesium	1.1		1.50	2.56		mg/L		98	75 - 125
Potassium	8.6		15.0	22.61		mg/L		94	75 - 125
Sodium	30.1		4.50	36.86	4	mg/L		151	75 - 125

Lab Sample ID: 620-28487-F-1-B DU
Matrix: Water
Analysis Batch: 52283

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 52040

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	5.1		5.39		mg/L		6	20
Iron	1.2		1.19		mg/L		1	20
Magnesium	1.1		1.16		mg/L		6	20
Potassium	8.6		9.05		mg/L		5	20
Sodium	30.1		31.83		mg/L		6	20

Lab Sample ID: MB 620-52034/1-B
Matrix: Water
Analysis Batch: 52283

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 52040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/13/25 14:35	08/14/25 15:29	1

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-686141/44
Matrix: Water
Analysis Batch: 686141

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	8.0	U	8.0	2.6	mg/L			08/14/25 20:05	1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 410-686141/45
Matrix: Water
Analysis Batch: 686141

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			189	177.7		mg/L		94	80 - 110		

Lab Sample ID: LCSD 410-686141/46
Matrix: Water
Analysis Batch: 686141

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
Total Alkalinity			189	181.7		mg/L		96	80 - 110	2	10

Lab Sample ID: 410-237120-U-3 MS
Matrix: Water
Analysis Batch: 686141

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity	248		189	329.3	N	mg/L		43	80 - 110		

Lab Sample ID: 410-237120-S-3 DU
Matrix: Water
Analysis Batch: 686141

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	248			248.4		mg/L				0	10

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 410-688232/7
Matrix: Water
Analysis Batch: 688232

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.50	mg/L			08/19/25 21:37	1

Lab Sample ID: LCS 410-688232/6
Matrix: Water
Analysis Batch: 688232

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			50.0	47.15		mg/L		94	90 - 110		

Lab Sample ID: MRL 410-688232/1
Matrix: Water
Analysis Batch: 688232

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			1.00	0.939	J	mg/L		94	50 - 150		

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav (Continued)

Lab Sample ID: 620-28495-E-3 MS
Matrix: Water
Analysis Batch: 688232

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon	9.6		10.0	19.73		mg/L		101	90 - 110		

Lab Sample ID: 620-28495-E-3 DU
Matrix: Water
Analysis Batch: 688232

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon	9.6			9.77		mg/L				2	15

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
*	MS or MSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Sample result is greater than the MDL but below the CRDL
U	Indicates analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J	Sample result is greater than the MDL but below the CRDL
N	Spiked sample recovery is not within control limits.
U	Indicates analyzed for but not detected.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 52091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-1	MW-104I/250812	Total/NA	Water	8260C	
620-28538-2	MW-104E/250812	Total/NA	Water	8260C	
620-28538-3	MW-101I/250812	Total/NA	Water	8260C	
620-28538-4	MW-100I/250812	Total/NA	Water	8260C	
620-28538-5	MW-103ER/250812	Total/NA	Water	8260C	
620-28538-6	MW-103B/250812	Total/NA	Water	8260C	
620-28538-7	MW-102ER/250812	Total/NA	Water	8260C	
620-28538-8	DUP/250812	Total/NA	Water	8260C	
620-28538-9	FB/250812	Total/NA	Water	8260C	
620-28538-10	TB/250812	Total/NA	Water	8260C	
MB 620-52091/7	Method Blank	Total/NA	Water	8260C	
LCS 620-52091/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-52091/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 52137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-1 - DL	MW-104I/250812	Total/NA	Water	8260C	
620-28538-3 - DL	MW-101I/250812	Total/NA	Water	8260C	
620-28538-4 - DL	MW-100I/250812	Total/NA	Water	8260C	
620-28538-8 - DL	DUP/250812	Total/NA	Water	8260C	
MB 620-52137/6	Method Blank	Total/NA	Water	8260C	
LCS 620-52137/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-52137/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 52299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Total/NA	Water	3510C	
620-28538-5	MW-103ER/250812	Total/NA	Water	3510C	
620-28538-6	MW-103B/250812	Total/NA	Water	3510C	
620-28538-7	MW-102ER/250812	Total/NA	Water	3510C	
620-28538-8	DUP/250812	Total/NA	Water	3510C	
620-28538-9	FB/250812	Total/NA	Water	3510C	
MB 620-52299/1-A	Method Blank	Total/NA	Water	3510C	
LCS 620-52299/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 620-52299/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 52418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Total/NA	Water	8270D SIM ID	52299
620-28538-5	MW-103ER/250812	Total/NA	Water	8270D SIM ID	52299
620-28538-6	MW-103B/250812	Total/NA	Water	8270D SIM ID	52299
620-28538-7	MW-102ER/250812	Total/NA	Water	8270D SIM ID	52299
620-28538-8	DUP/250812	Total/NA	Water	8270D SIM ID	52299
620-28538-9	FB/250812	Total/NA	Water	8270D SIM ID	52299
MB 620-52299/1-A	Method Blank	Total/NA	Water	8270D SIM ID	52299
LCS 620-52299/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	52299
LCSD 620-52299/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM ID	52299

HPLC/IC

Analysis Batch: 685513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Total/NA	Water	9056A	
620-28538-5	MW-103ER/250812	Total/NA	Water	9056A	
620-28538-6	MW-103B/250812	Total/NA	Water	9056A	
620-28538-7	MW-102ER/250812	Total/NA	Water	9056A	
620-28538-8	DUP/250812	Total/NA	Water	9056A	
620-28538-9	FB/250812	Total/NA	Water	9056A	
MB 410-685513/5	Method Blank	Total/NA	Water	9056A	
LCS 410-685513/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 410-685513/4	Lab Control Sample Dup	Total/NA	Water	9056A	
620-28538-7 MS	MW-102ER/250812	Total/NA	Water	9056A	
620-28538-7 DU	MW-102ER/250812	Total/NA	Water	9056A	

Analysis Batch: 685514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Total/NA	Water	9056A	
620-28538-5	MW-103ER/250812	Total/NA	Water	9056A	
620-28538-6	MW-103B/250812	Total/NA	Water	9056A	
620-28538-7	MW-102ER/250812	Total/NA	Water	9056A	
620-28538-8	DUP/250812	Total/NA	Water	9056A	
620-28538-9	FB/250812	Total/NA	Water	9056A	
MB 410-685514/5	Method Blank	Total/NA	Water	9056A	
LCS 410-685514/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 410-685514/4	Lab Control Sample Dup	Total/NA	Water	9056A	
620-28538-7 MS	MW-102ER/250812	Total/NA	Water	9056A	
620-28538-7 DU	MW-102ER/250812	Total/NA	Water	9056A	

Analysis Batch: 686235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-6	MW-103B/250812	Total/NA	Water	9056A	
MB 410-686235/5	Method Blank	Total/NA	Water	9056A	
LCS 410-686235/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 410-686235/4	Lab Control Sample Dup	Total/NA	Water	9056A	
410-236777-F-5 MS	Matrix Spike	Total/NA	Water	9056A	
410-236777-F-5 MSD	Matrix Spike Duplicate	Total/NA	Water	9056A	
410-236777-F-5 DU	Duplicate	Total/NA	Water	9056A	

Metals

Filtration Batch: 52034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Dissolved	Water	Filtration	
620-28538-5	MW-103ER/250812	Dissolved	Water	Filtration	
620-28538-6	MW-103B/250812	Dissolved	Water	Filtration	
620-28538-7	MW-102ER/250812	Dissolved	Water	Filtration	
620-28538-8	DUP/250812	Dissolved	Water	Filtration	
620-28538-9	FB/250812	Dissolved	Water	Filtration	
MB 620-52034/1-B	Method Blank	Dissolved	Water	Filtration	

Prep Batch: 52040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Dissolved	Water	3005A	52034

Metals (Continued)

Prep Batch: 52040 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Total/NA	Water	3005A	
620-28538-5	MW-103ER/250812	Dissolved	Water	3005A	52034
620-28538-5	MW-103ER/250812	Total/NA	Water	3005A	
620-28538-6	MW-103B/250812	Dissolved	Water	3005A	52034
620-28538-6	MW-103B/250812	Total/NA	Water	3005A	
620-28538-7	MW-102ER/250812	Dissolved	Water	3005A	52034
620-28538-7	MW-102ER/250812	Total/NA	Water	3005A	
620-28538-8	DUP/250812	Dissolved	Water	3005A	52034
620-28538-8	DUP/250812	Total/NA	Water	3005A	
620-28538-9	FB/250812	Dissolved	Water	3005A	52034
620-28538-9	FB/250812	Total/NA	Water	3005A	
MB 620-52034/1-B	Method Blank	Dissolved	Water	3005A	52034
MB 620-52040/1-A	Method Blank	Total/NA	Water	3005A	
LCS 620-52040/2-A	Lab Control Sample	Total/NA	Water	3005A	
620-28487-F-1-C MS	Matrix Spike	Total/NA	Water	3005A	
620-28487-F-1-B DU	Duplicate	Total/NA	Water	3005A	

Analysis Batch: 52283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Dissolved	Water	6010D	52040
620-28538-4	MW-100I/250812	Total/NA	Water	6010D	52040
620-28538-5	MW-103ER/250812	Dissolved	Water	6010D	52040
620-28538-5	MW-103ER/250812	Total/NA	Water	6010D	52040
620-28538-6	MW-103B/250812	Dissolved	Water	6010D	52040
620-28538-6	MW-103B/250812	Total/NA	Water	6010D	52040
620-28538-7	MW-102ER/250812	Dissolved	Water	6010D	52040
620-28538-7	MW-102ER/250812	Total/NA	Water	6010D	52040
620-28538-8	DUP/250812	Dissolved	Water	6010D	52040
620-28538-8	DUP/250812	Total/NA	Water	6010D	52040
620-28538-9	FB/250812	Dissolved	Water	6010D	52040
620-28538-9	FB/250812	Total/NA	Water	6010D	52040
MB 620-52034/1-B	Method Blank	Dissolved	Water	6010D	52040
MB 620-52040/1-A	Method Blank	Total/NA	Water	6010D	52040
LCS 620-52040/2-A	Lab Control Sample	Total/NA	Water	6010D	52040
620-28487-F-1-C MS	Matrix Spike	Total/NA	Water	6010D	52040
620-28487-F-1-B DU	Duplicate	Total/NA	Water	6010D	52040

General Chemistry

Analysis Batch: 686141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Total/NA	Water	2320B-2011	
620-28538-5	MW-103ER/250812	Total/NA	Water	2320B-2011	
620-28538-6	MW-103B/250812	Total/NA	Water	2320B-2011	
620-28538-7	MW-102ER/250812	Total/NA	Water	2320B-2011	
620-28538-8	DUP/250812	Total/NA	Water	2320B-2011	
620-28538-9	FB/250812	Total/NA	Water	2320B-2011	
MB 410-686141/44	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-686141/45	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 410-686141/46	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
410-237120-U-3 MS	Matrix Spike	Total/NA	Water	2320B-2011	

General Chemistry (Continued)

Analysis Batch: 686141 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-237120-S-3 DU	Duplicate	Total/NA	Water	2320B-2011	

Analysis Batch: 688232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Total/NA	Water	5310 C-2014	
620-28538-5	MW-103ER/250812	Total/NA	Water	5310 C-2014	
620-28538-7	MW-102ER/250812	Total/NA	Water	5310 C-2014	
620-28538-8	DUP/250812	Total/NA	Water	5310 C-2014	
620-28538-9	FB/250812	Total/NA	Water	5310 C-2014	
MB 410-688232/7	Method Blank	Total/NA	Water	5310 C-2014	
LCS 410-688232/6	Lab Control Sample	Total/NA	Water	5310 C-2014	
MRL 410-688232/1	Lab Control Sample	Total/NA	Water	5310 C-2014	
620-28495-E-3 MS	Matrix Spike	Total/NA	Water	5310 C-2014	
620-28495-E-3 DU	Duplicate	Total/NA	Water	5310 C-2014	

Analysis Batch: 688387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Total/NA	Water	5310 C-2014	
620-28538-5	MW-103ER/250812	Total/NA	Water	5310 C-2014	
620-28538-7	MW-102ER/250812	Total/NA	Water	5310 C-2014	
620-28538-8	DUP/250812	Total/NA	Water	5310 C-2014	
620-28538-9	FB/250812	Total/NA	Water	5310 C-2014	

Client Sample ID: MW-104I/250812
Lab Sample ID: 620-28538-1
Date Collected: 08/12/25 10:00
Matrix: Water
Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 20:15
Total/NA	Analysis	8260C	DL	10	52137	CLR	EET RI	08/15/25 10:01

Client Sample ID: MW-104E/250812
Lab Sample ID: 620-28538-2
Date Collected: 08/12/25 12:50
Matrix: Water
Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 20:38

Client Sample ID: MW-101I/250812
Lab Sample ID: 620-28538-3
Date Collected: 08/12/25 11:35
Matrix: Water
Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 21:01
Total/NA	Analysis	8260C	DL	10	52137	CLR	EET RI	08/15/25 10:24

Client Sample ID: MW-100I/250812
Lab Sample ID: 620-28538-4
Date Collected: 08/12/25 12:15
Matrix: Water
Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 21:24
Total/NA	Analysis	8260C	DL	10	52137	CLR	EET RI	08/15/25 10:47
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 13:23
Total/NA	Analysis	9056A		1	685513	L4QM	ELLE	08/14/25 11:09
Total/NA	Analysis	9056A		1	685514	L4QM	ELLE	08/14/25 11:09
Dissolved	Filtration	Filtration			52034	DJW	EET RI	08/13/25 11:49
Dissolved	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Dissolved	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 15:35
Total/NA	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Total/NA	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 14:54
Total/NA	Analysis	2320B-2011		1	686141	DI9Q	ELLE	08/14/25 22:05
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/19/25 22:59
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/19/25 22:59

Client Sample ID: MW-103ER/250812
Lab Sample ID: 620-28538-5
Date Collected: 08/12/25 13:05
Matrix: Water
Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 21:47

Client Sample ID: MW-103ER/250812
Lab Sample ID: 620-28538-5

Date Collected: 08/12/25 13:05
Matrix: Water
Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 13:41
Total/NA	Analysis	9056A		1	685513	L4QM	ELLE	08/14/25 11:26
Total/NA	Analysis	9056A		1	685514	L4QM	ELLE	08/14/25 11:26
Dissolved	Filtration	Filtration			52034	DJW	EET RI	08/13/25 11:49
Dissolved	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Dissolved	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 15:53
Total/NA	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Total/NA	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 14:59
Total/NA	Analysis	2320B-2011		1	686141	DI9Q	ELLE	08/14/25 21:53
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/19/25 23:18
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/19/25 23:18

Client Sample ID: MW-103B/250812
Lab Sample ID: 620-28538-6

Date Collected: 08/12/25 14:30
Matrix: Water
Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 22:10
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		5	52418	JS	EET RI	08/20/25 15:44
Total/NA	Analysis	9056A		1	685513	L4QM	ELLE	08/14/25 11:34
Total/NA	Analysis	9056A		1	685514	L4QM	ELLE	08/14/25 11:34
Total/NA	Analysis	9056A		5	686235	KJQ8	ELLE	08/15/25 16:55
Dissolved	Filtration	Filtration			52034	DJW	EET RI	08/13/25 11:49
Dissolved	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Dissolved	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 15:59
Total/NA	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Total/NA	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 15:05
Total/NA	Analysis	2320B-2011		1	686141	DI9Q	ELLE	08/14/25 22:12

Client Sample ID: MW-102ER/250812
Lab Sample ID: 620-28538-7

Date Collected: 08/12/25 14:45
Matrix: Water
Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 22:33
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 14:16
Total/NA	Analysis	9056A		1	685513	L4QM	ELLE	08/14/25 11:42
Total/NA	Analysis	9056A		1	685514	L4QM	ELLE	08/14/25 11:42
Dissolved	Filtration	Filtration			52034	DJW	EET RI	08/13/25 11:49
Dissolved	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Dissolved	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 16:05

Client Sample ID: MW-102ER/250812
Lab Sample ID: 620-28538-7
Date Collected: 08/12/25 14:45
Matrix: Water
Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Total/NA	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 15:11
Total/NA	Analysis	2320B-2011		1	686141	DI9Q	ELLE	08/14/25 22:18
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/19/25 23:38
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/19/25 23:38

Client Sample ID: DUP/250812
Lab Sample ID: 620-28538-8
Date Collected: 08/12/25 00:00
Matrix: Water
Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 22:56
Total/NA	Analysis	8260C	DL	10	52137	CLR	EET RI	08/15/25 11:10
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 14:34
Total/NA	Analysis	9056A		1	685513	L4QM	ELLE	08/14/25 10:53
Total/NA	Analysis	9056A		1	685514	L4QM	ELLE	08/14/25 10:53
Dissolved	Filtration	Filtration			52034	DJW	EET RI	08/13/25 11:49
Dissolved	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Dissolved	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 16:11
Total/NA	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Total/NA	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 15:17
Total/NA	Analysis	2320B-2011		1	686141	DI9Q	ELLE	08/14/25 21:59
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/19/25 23:58
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/19/25 23:58

Client Sample ID: FB/250812
Lab Sample ID: 620-28538-9
Date Collected: 08/12/25 15:00
Matrix: Water
Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 23:19
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 14:52
Total/NA	Analysis	9056A		1	685513	L4QM	ELLE	08/14/25 12:22
Total/NA	Analysis	9056A		1	685514	L4QM	ELLE	08/14/25 12:22
Dissolved	Filtration	Filtration			52034	DJW	EET RI	08/13/25 11:49
Dissolved	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Dissolved	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 16:17
Total/NA	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Total/NA	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 15:23
Total/NA	Analysis	2320B-2011		1	686141	DI9Q	ELLE	08/14/25 21:21
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/20/25 00:18

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28538-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: FB/250812
Lab Sample ID: 620-28538-9
Date Collected: 08/12/25 15:00
Matrix: Water
Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/20/25 00:18

Client Sample ID: TB/250812
Lab Sample ID: 620-28538-10
Date Collected: 08/12/25 00:00
Matrix: Water
Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 19:52

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28538-1
Project/Site: ESCO Steel Treaters Project

Laboratory: Eurofins Rhode Island

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11393	03-31-26

The following analytes are included in this report, but the laboratory is not certified by New York NELAP 11393. This list may include analytes for which the agency does not offer certification:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C		Water	1,2,3-Trichlorobenzene
8260C		Water	1,3,5-Trichlorobenzene
8260C		Water	4-Isopropyltoluene
8260C		Water	Chloromethane
8260C		Water	di-Isopropyl ether
8260C		Water	Ethyl tert-butyl ether
8260C		Water	Isopropylbenzene
8270D SIM ID	3510C	Water	1,4-Dioxane

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	08-27-25
A2LA	Dept. of Energy	0001.01	08-27-25
A2LA	ISO/IEC 17025	0001.01	08-27-25
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-26
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-26
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-26
Connecticut	State	PH-0746	06-30-27
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	07-01-26
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	08-27-25
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-26
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-26

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-26
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-26
North Carolina (WW/SW)	State	521	09-01-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	08-24-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	09-03-25
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	08-27-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
1,4D-LVI-Sur_00001	08/25/25	02/25/25	MeCl2, Lot 225682	1000 uL	MSS-1,4-D-Sur_00011	100 uL	1,4-Dioxane-d8	100 ug/mL
.MSS-1,4-D-Sur_00011	12/05/25	Absolute Standards, Inc, Lot 031424			(Purchased Reagent)		1,4-Dioxane-d8	1000 ug/mL
MSS-1,4-CAL1_00020	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	10 uL	1,4-Dioxane	0.050225 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL2_00019	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	20 uL	1,4-Dioxane	0.10045 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL3_00020	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	50 uL	1,4-Dioxane	0.251125 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL4_00019	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	100 uL	1,4-Dioxane	0.50225 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL5_00021	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	200 uL	1,4-Dioxane	1.0045 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL6_00020	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	500 uL	1,4-Dioxane	2.51125 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL7_00017	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	1 mL	1,4-Dioxane	5.0225 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-ICV_00024	11/28/25	05/28/25	MeCl2, Lot na	10 mL	MSS-1,4-D-SS_00005	10 uL	1,4-Dioxane	1 ug/mL
.MSS-1,4-D-SS_00005	03/11/26	Absolute Standards, Inc, Lot 011024			(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
MSS-1,4D-IS_00001							4,4'-DDD	
							4,4'-DDE	
							4,4'-DDT	
							Benzidine_T	
							DFTPP	
							Pentachlorophenol_T	
					SV-ISTD8270_00025	125 uL	1,4-Dichlorobenzene-d4	12.5219 ug/mL
.SV-ISTD8270_00025	02/20/26	Restek, Lot A0218138			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2003.5 ug/mL
MT_ICP_Cal2RL_00040	07/01/27	12/11/24	DI Water, Lot n/a	500 mL	MT_PST_AQCRLA_00006	0.5 mL	Calcium	0.2 mg/L
							Iron	0.1 mg/L
							Magnesium	0.02 mg/L
							Potassium	1 mg/L
							Sodium	1.5 mg/L
.MT_PST_AQCRLA_00006	07/01/29	inorganic Ventures, Lot v2-meb745428			(Purchased Reagent)		Calcium	200 ug/mL
							Iron	100 ug/mL
							Magnesium	20 ug/mL
							Potassium	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Sodium	1500 ug/mL
MT_ICP_CCV_00046	01/10/26	10/29/24	DI Water, Lot n/a	250 mL	MT_PST_CCVA_00007	6.25 mL	Calcium	10 mg/L
							Iron	10 mg/L
							Magnesium	10 mg/L
							Potassium	10 mg/L
							Sodium	10 mg/L
.MT_PST_CCVA_00007	01/10/26	High Purity, Lot 2400332-250			(Purchased Reagent)		Calcium	400 mg/L
							Iron	400 mg/L
							Magnesium	400 mg/L
							Potassium	400 mg/L
							Sodium	400 mg/L
MT_ICP_ICSA_00042	02/28/26	02/25/25	DI Water, Lot n/a	250 mL	MT_PST_CLPINF_00008	10 mL	Al	200 mg/L
							Calcium	200 mg/L
							Iron	80 mg/L
							Magnesium	200 mg/L
.MT_PST_CLPINF_00008	02/28/26	environmental Express, Lot 2404549-500			(Purchased Reagent)		Al	5000 mg/L
							Calcium	5000 mg/L
							Iron	2000 mg/L
							Magnesium	5000 mg/L
MT_ICP_ICSAB_00046	02/28/26	03/05/25	DI Water, Lot n/a	250 mL	MT_PST_CLPINF_00009	10 mL	Al	200 mg/L
							Calcium	200 mg/L
							Iron	80 mg/L
							Magnesium	200 mg/L
					MT_PST_IFBSOL_00009	1.25 mL	Ag	0.5 mg/L
							As	0.5 mg/L
							Ba	0.25 mg/L
							Be	0.25 mg/L
							Cd	0.5 mg/L
							Co	0.25 mg/L
							Cr	0.25 mg/L
							Cu	0.25 mg/L
							Mn	0.25 mg/L
							Ni	0.5 mg/L
							Pb	0.5 mg/L
							Sb	0.3 mg/L
							Se	0.5 mg/L
							Tl	0.5 mg/L
							V	0.25 mg/L
							Zn	0.5 mg/L
.MT_PST_CLPINF_00009	07/15/26	CPI, Lot 1466098			(Purchased Reagent)		Al	5000 mg/L
							Calcium	5000 mg/L
							Iron	2000 mg/L
							Magnesium	5000 mg/L
.MT_PST_IFBSOL_00009	06/05/26	Inorganic Ventures, Lot v2-meb744057			(Purchased Reagent)		Ag	100 mg/L
							As	100 mg/L
							Ba	50 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Be	50 mg/L
							Cd	100 mg/L
							Co	50 mg/L
							Cr	50 mg/L
							Cu	50 mg/L
							Mn	50 mg/L
							Ni	100 mg/L
							Pb	100 mg/L
							Sb	60 mg/L
							Se	100 mg/L
							Tl	100 mg/L
							V	50 mg/L
							Zn	100 mg/L
MT_ICP_ICV_00055	09/13/25	04/15/25	DI Water, Lot n/a	250 mL	MT_SST_QC1_00020	12.5 mL	Calcium	5 mg/L
							Iron	5 mg/L
							Magnesium	5 mg/L
					MT_SST_QC2_00020	12.5 mL	Potassium	50 mg/L
							Sodium	5 mg/L
.MT_SST_QC1_00020	06/13/26	AccuStandard, Lot 224055035			(Purchased Reagent)		Calcium	100 mg/L
							Iron	100 mg/L
							Magnesium	100 mg/L
.MT_SST_QC2_00020	09/16/25	Accustandard, Lot 222045096-02			(Purchased Reagent)		Potassium	1000 mg/L
							Sodium	100 mg/L
MT_ICP_SPIKE_00130	09/16/25	06/02/25	DI Water, Lot n/a	100 mL	MT_PST_Ag_00006	1.25 mL	Ag	25 mg/L
					MT_SST_Ca_00006	0.5 mL	Calcium	75 mg/L
							Calcium hardness as calcium carbonate	187.5 mg/L
							Hardness as calcium carbonate	125 mg/L
					MT_SST_Na_00006	0.5 mL	Sodium	75 mg/L
					MT_SST_QC1_00020	25 mL	As	25 mg/L
							Be	25 mg/L
							Calcium	75 mg/L
							Calcium hardness as calcium carbonate	187.5 mg/L
							Cd	25 mg/L
							Co	25 mg/L
							Cr	25 mg/L
							Cu	25 mg/L
							Iron	25 mg/L
							Li	25 mg/L
							Magnesium	25 mg/L
							Mn	25 mg/L
							Mo	25 mg/L
							Ni	25 mg/L
							P	25 mg/L
							Pb	25 mg/L
							Sb	25 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Se	25 mg/L
							Sn	25 mg/L
							Sr	25 mg/L
							Ti	25 mg/L
							Tl	25 mg/L
							V	25 mg/L
							Zn	25 mg/L
					MT_SST_QC2_00020	25 mL	Ag	25 mg/L
							Al	25 mg/L
							B	25 mg/L
							Ba	25 mg/L
							Potassium	250 mg/L
							Si	125 mg/L
							SiO2	267.5 mg/L
							Sodium	75 mg/L
					MT_SST_S_00008	1 mL	Sulfur	100 mg/L
.MT_PST_Ag_00006	04/30/26	HPS, Lot 2415524-100			(Purchased Reagent)		Ag	1000 ug/mL
.MT_SST_Ca_00006	04/06/28	AccuStandard, Lot 223045009			(Purchased Reagent)		Calcium	10000 ug/mL
							Calcium hardness as calcium carbonate	25000 ug/mL
							Hardness as calcium carbonate	25000 ug/mL
.MT_SST_Na_00006	09/13/28	AccuStandard, Lot 221085140-01			(Purchased Reagent)		Sodium	10000 mg/L
.MT_SST_QC1_00020	06/13/26	AccuStandard, Lot 224055035			(Purchased Reagent)		As	100 mg/L
							Be	100 mg/L
							Calcium	100 mg/L
							Calcium hardness as calcium carbonate	250 mg/L
							Cd	100 mg/L
							Co	100 mg/L
							Cr	100 mg/L
							Cu	100 mg/L
							Iron	100 mg/L
							Li	100 mg/L
							Magnesium	100 mg/L
							Mn	100 mg/L
							Mo	100 mg/L
							Ni	100 mg/L
							P	100 mg/L
							Pb	100 mg/L
							Sb	100 mg/L
							Se	100 mg/L
							Sn	100 mg/L
							Sr	100 mg/L
							Ti	100 mg/L
							Tl	100 mg/L
							V	100 mg/L
							Zn	100 mg/L
.MT_SST_QC2_00020	09/16/25	Accustandard, Lot 222045096-02			(Purchased Reagent)		Ag	50 mg/L

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Al	100 mg/L
							B	100 mg/L
							Ba	100 mg/L
							Potassium	1000 mg/L
							Si	500 mg/L
							SiO2	1070 mg/L
							Sodium	100 mg/L
.MT_SST_S_00008	11/09/27	Accustandard, Lot 222115054			(Purchased Reagent)		Sulfur	10000 ug/mL
OP-LCS-1,4-D_00080	01/22/26	07/22/25	Methanol, Lot 245552	10 mL	MSS-1,4-D-SS_00005	10 uL	1,4-Dioxane	1 ug/mL
.MSS-1,4-D-SS_00005	03/11/26	Absolute Standards, Inc, Lot 011024			(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
OP-SUR-1.4-D_00100	12/05/25	06/24/25	Methanol, Lot 245402	50 mL	MSS-1,4-D-Sur_00011	50 uL	1,4-Dioxane-d8	1 ug/mL
.MSS-1,4-D-Sur_00011	12/05/25	Absolute Standards, Inc, Lot 031424			(Purchased Reagent)		1,4-Dioxane-d8	1000 ug/mL
VO8260BFB_00010							1,2-Dichloroethane-d4 (Surr)	
							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							1,4-Dichlorobenzene-d4	
							4-Bromofluorobenzene (Surr)	
							BFB	50 ug/mL
							Chlorobenzene-d5	
							Dibromofluoromethane (Surr)	
							Fluorobenzene	
							Tentatively Identified Compound	
							Toluene-d8 (Surr)	
							Trihalomethanes, Total	
							Xylenes, Total	
VO8260IS/SS_00026	11/12/25	05/12/25	methanol, Lot 0000288059	50 mL	VO8260ISSur_00018	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							1,4-Dichlorobenzene-d4	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Fluorobenzene	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VO8260ISSur_00018	05/12/26	Agilent, Lot 0006813471			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							1,4-Dichlorobenzene-d4	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Fluorobenzene	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VO8260Primary_00143	07/29/26	Agilent, Lot 0006837291			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichlorotrifluoroethane (Freon 113)	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	500 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Butanone (MEK)	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Hexanone (MBK)	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							4-Methyl-2-pentanone (MIBK)	50 ug/mL
							Acetone	50 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Bromomethane	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloroform	50 ug/mL
							Chloromethane	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							di-Isopropyl ether	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane (Freon 12)	50 ug/mL
							Ethanol	1000 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Iodomethane	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m,p-Xylene	50 ug/mL
							Methyl acetate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							tert-Butanol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trichlorofluoromethane (Freon 11)	50 ug/mL
							Vinyl chloride	50 ug/mL
VO8260Second_00123	07/16/26		Absolute, Lot 011625		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane (Freon 113)	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Butanone (MEK)	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Hexanone (MBK)	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							4-Methyl-2-pentanone (MIBK)	50 ug/mL
							Acetone	50 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Bromomethane	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloroform	50 ug/mL
							Chloromethane	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							di-Isopropyl ether	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorodifluoromethane (Freon 12)	50 ug/mL
							Ethanol	1000 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m,p-Xylene	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							tert-Butanol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trichlorofluoromethane (Freon 11)	50 ug/mL
							Vinyl chloride	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
WC_Alk_LCS_00025	10/24/25	07/24/25	DI Water, Lot -	2 L	WC_Alk_Std_00025	40 mL	Total Alkalinity	188.869 mg/L
.WC_Alk_Std_00025	10/24/25	Fisher (Na2CO3), Lot 250579			(Purchased Reagent)		Total Alkalinity	9443.43 mg/L
WC_Alk_LCS_00027	10/24/25	07/24/25	DI Water, Lot -	4 L	WC_Alk_Std_00025	39.82 mL	Total Alkalinity	94.0094 mg/L
.WC_Alk_Std_00025	10/24/25	Fisher (Na2CO3), Lot 250579			(Purchased Reagent)		Total Alkalinity	9443.43 mg/L
							Total Alkalinity	9443.43 mg/L
WC_IC_C_Det_00228	08/13/25	08/11/25	DI Water, Lot DI	50 mL	WC_IC_C_Br_00009	2.5 mL	Bromide	50 ug/mL
					WC_IC_C_Cl_00012	2 mL	Chloride	40 ug/mL
					WC_IC_C_F_00010	0.5 mL	Fluoride	10 ug/mL
					WC_IC_C_NO2_00007	0.5 mL	Nitrite as N	10 ug/mL
					WC_IC_C_NO3_00009	0.5 mL	Nitrate as N	10 ug/mL
					WC_IC_Q_SO4_00018	5 mL	Sulfate	100 ug/mL
.WC_IC_C_Br_00009	03/18/27	Absolute Standards, Lot 031824			(Purchased Reagent)		Bromide	1000 ug/mL
.WC_IC_C_Cl_00012	06/10/26	INORGANIC VENTURES, Lot U2-CL731103			(Purchased Reagent)		Chloride	1000 ug/mL
.WC_IC_C_F_00010	12/05/25	Inorganic Ventures, Lot V2-F740739			(Purchased Reagent)		Fluoride	1000 ug/mL
.WC_IC_C_NO2_00007	08/10/26	Absolute Standards, Inc., Lot 081023			(Purchased Reagent)		Nitrite as N	1000 ug/mL
.WC_IC_C_NO3_00009	07/24/27	Absolute Standards, Lot 072424			(Purchased Reagent)		Nitrate as N	1000 ug/mL
.WC_IC_Q_SO4_00018	06/10/27	Absolute Standards, Lot 061024			(Purchased Reagent)		Sulfate	1000 ug/mL
WC_IC_C_Det_00229	08/15/25	08/13/25	DI Water, Lot DI	50 mL	WC_IC_C_Br_00009	2.5 mL	Bromide	50 ug/mL
					WC_IC_C_Cl_00012	2 mL	Chloride	40 ug/mL
					WC_IC_C_F_00010	0.5 mL	Fluoride	10 ug/mL
					WC_IC_Q_SO4_00018	5 mL	Sulfate	100 ug/mL
.WC_IC_C_Br_00009	03/18/27	Absolute Standards, Lot 031824			(Purchased Reagent)		Bromide	1000 ug/mL
.WC_IC_C_Cl_00012	06/10/26	INORGANIC VENTURES, Lot U2-CL731103			(Purchased Reagent)		Chloride	1000 ug/mL
.WC_IC_C_F_00010	12/05/25	Inorganic Ventures, Lot V2-F740739			(Purchased Reagent)		Fluoride	1000 ug/mL
.WC_IC_Q_SO4_00018	06/10/27	Absolute Standards, Lot 061024			(Purchased Reagent)		Sulfate	1000 ug/mL
WC_IC_QC2_01435	08/12/25	08/11/25	DI Water, Lot IC	50 mL	WC_IC_Q_Cl_00016	1 mL	Chloride	20 ug/mL
					WC_IC_Q_NO3_00007	0.25 mL	Nitrate as N	5 ug/mL
					WC_IC_Q_SO4_00019	2.5 mL	Sulfate	50 ug/mL
.WC_IC_Q_Cl_00016	03/11/28	ABSOLUTE STANDARDS, Lot 031125			(Purchased Reagent)		Chloride	1000 ug/mL
.WC_IC_Q_NO3_00007	10/29/27	Absoslute Standards, Lot 102924			(Purchased Reagent)		Nitrate as N	1000 ug/mL
.WC_IC_Q_SO4_00019	05/05/28	ABSOLUTE STANDARDS, Lot 050525			(Purchased Reagent)		Sulfate	1000 ug/mL
WC_IC_QC2_01437	08/14/25	08/13/25	DI Water, Lot IC	50 mL	WC_IC_Q_Cl_00016	1 mL	Chloride	20 ug/mL
					WC_IC_Q_SO4_00019	2.5 mL	Sulfate	50 ug/mL
.WC_IC_Q_Cl_00016	03/11/28	ABSOLUTE STANDARDS, Lot 031125			(Purchased Reagent)		Chloride	1000 ug/mL
.WC_IC_Q_SO4_00019	05/05/28	ABSOLUTE STANDARDS, Lot 050525			(Purchased Reagent)		Sulfate	1000 ug/mL
WC_IC_QC2_01438	08/15/25	08/14/25	DI Water, Lot IC	50 mL	WC_IC_Q_Cl_00016	1 mL	Chloride	20 ug/mL
					WC_IC_Q_NO3_00007	0.25 mL	Nitrate as N	5 ug/mL
					WC_IC_Q_SO4_00019	2.5 mL	Sulfate	50 ug/mL
.WC_IC_Q_Cl_00016	03/11/28	ABSOLUTE STANDARDS, Lot 031125			(Purchased Reagent)		Chloride	1000 ug/mL
.WC_IC_Q_NO3_00007	10/29/27	Absoslute Standards, Lot 102924			(Purchased Reagent)		Nitrate as N	1000 ug/mL
.WC_IC_Q_SO4_00019	05/05/28	ABSOLUTE STANDARDS, Lot 050525			(Purchased Reagent)		Sulfate	1000 ug/mL
WC_IC_QC2_01439	08/16/25	08/15/25	DI Water, Lot IC	50 mL	WC_IC_Q_Cl_00016	1 mL	Chloride	20 ug/mL
					WC_IC_Q_SO4_00019	2.5 mL	Sulfate	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.WC_IC_Q_Cl_00016	03/11/28	ABSOLUTE STANDARDS, Lot 031125			(Purchased Reagent)		Chloride	1000 ug/mL
.WC_IC_Q_SO4_00019	05/05/28	ABSOLUTE STANDARDS, Lot 050525			(Purchased Reagent)		Sulfate	1000 ug/mL
WC_TIC_QC_00067	09/17/25	08/18/25	DI Water, Lot Flow	100 mL	WC_TC_Q_BCarb_00008	0.1754 g	Total Carbon	500.326 mg/L
							Total Carbon Res 1	500.326 mg/L
							Total Carbon Res 2	500.326 mg/L
							Total Carbon Res 3	500.326 mg/L
					WC_TC_Q_Carb_00011	0.2208 g	Total Carbon	500.326 mg/L
							Total Carbon Res 1	500.326 mg/L
							Total Carbon Res 2	500.326 mg/L
							Total Carbon Res 3	500.326 mg/L
.WC_TC_Q_BCarb_00008	11/30/26	Sigma-Aldrich, Lot AD-22192			(Purchased Reagent)		Total Carbon	0.143 g/g
							Total Carbon Res 1	0.143 g/g
							Total Carbon Res 2	0.143 g/g
							Total Carbon Res 3	0.143 g/g
.WC_TC_Q_Carb_00011	05/15/30	LabChem, Lot 45040435			(Purchased Reagent)		Total Carbon	0.113 g/g
							Total Carbon Res 1	0.113 g/g
							Total Carbon Res 2	0.113 g/g
							Total Carbon Res 3	0.113 g/g
WC_TOC_QC_STD_00075	09/17/25	08/18/25	DI Water, Lot Flow	1 L	WC_FL_KHP_3_00007	1.0633 g	TOC Result 1	500.283 mg/L
							TOC Result 2	500.283 mg/L
							TOC Result 3	500.283 mg/L
							Total Organic Carbon	500.283 mg/L
.WC_FL_KHP_3_00007	12/24/25	Acros Organics, Lot A0414437			(Purchased Reagent)		TOC Result 1	0.4705 g/g
							TOC Result 2	0.4705 g/g
							TOC Result 3	0.4705 g/g
							Total Organic Carbon	0.4705 g/g

Reagent

MSS-1,4-D-SS_00005

ABSOLUTE STANDARDS, INC.

ISO - 17034

Certificate of Analysis

Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within +/- 0.5% of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: U_{CRM} is the expanded uncertainty which utilizes a K = 2 (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

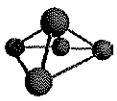
Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

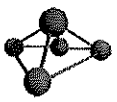
Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General



Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com



Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

Reagent

MSS-1,4-D-Sur_00011

CERTIFIED WEIGHT REPORT

Part Number: 71882
Lot Number: 031424
Description: 1,4-Dioxane-d8

Expiration Date: 031429
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

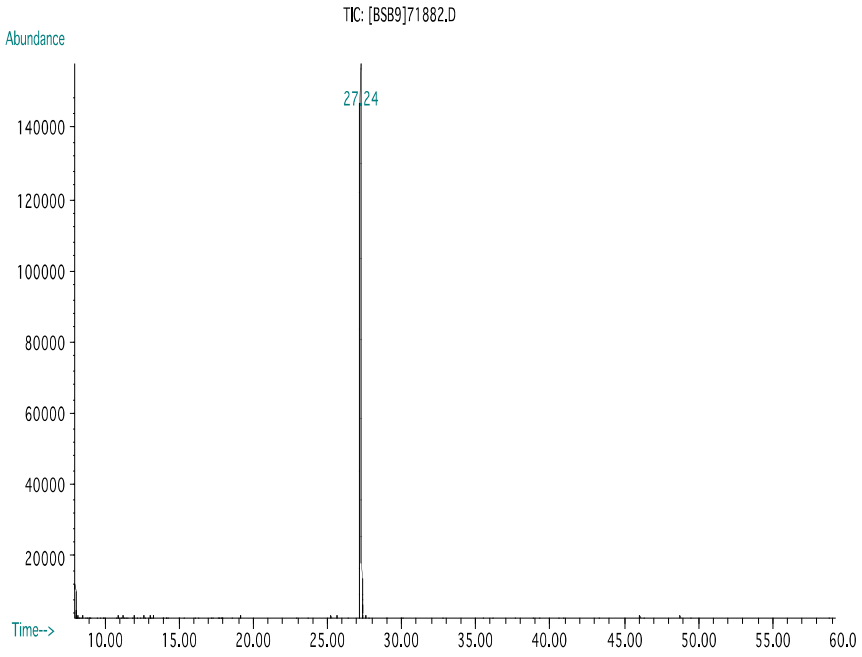
Solvent(s): **Lot#**
Methanol EH299-US

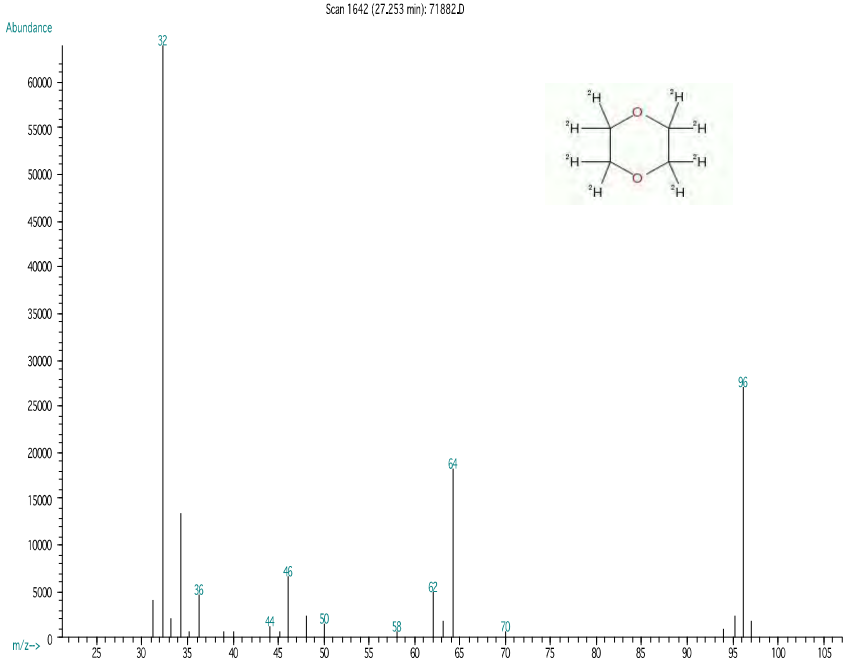
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 200.0 0.006 Flask Uncertainty

Formulated By: Lawrence Barry	031424 DATE
Reviewed By: Pedro L. Rentas	031424 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	1,4-Dioxane-d8	1882	I-19239A	1000	99	0.2	0.20200	0.20226	1001.3	4.1	17647-74-4	N/A	orl-rbt 2000mg/kg

Method: GC6MSD-1. **Detector:** MSD (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm filmthickness). **Oven Profile**: Temp. 1=35°C (Time 1=10min.), Temp. 2=200°C (Time 2=18.75 min.), Rate=4°C/min., Injector Temp.=200°C, Detector Temp.=220°C. Solvent delay = 7 min. **Analyst:** Candice Warren.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Reagent

MSV-1,4-D-STD_00005

Agilent
Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: 1,4-Dioxane Standard
Product Number: NV-152-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006767288
Lot Issue Date: 18-Oct-2023
Expiration Date: 30-Nov-2025

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
1,4-dioxane	2008	±	10 µg/mL	000123-91-1	RM20283

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and 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 above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, 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 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20ºC to 25ºC immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard 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.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

Reagent

MT_PST_Ag_00006

7221 Investment Drive • North Charleston, SC 29418
843.767.7900 • info@highpuritystandards.com • www.highpuritystandards.com

Certificate of Analysis

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER
ISO 17034:2016 (RMP) Accreditation Certificate Number AR-1436

Product Description: Silver

Product Number: **100051-1-100**
Lot Number: **2415524-100**
Matrix: 2% HNO3
Density: 1.018 g/mL ± 0.002 g/mL @ 20.9°C ± 0.3°C

Certified Value:

Element	µg/mL	SRM ID
Ag	1000 ± 3	3151

The Certified value is based on gravimetric and volumetric preparation, and verified against NIST SRM 3100 series when available via inductively coupled plasma optical emission spectrometry (ICP-OES) and/or inductively coupled plasma mass spectrometry (ICP-MS) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor k is about 2.
* Refer to Traceability Information, Section 4

Uncertified Values:

Trace Metal Impurity Scan: The data reported are based upon a scan of this specific lot via ICP-OES/ICP-MS analysis. The values are reported in µg/L.

Ag	M	Cu	60	Li	<0.02	Rb	<0.02	Th	<0.02
Al	<0.05	Dy	<0.02	Lu	<0.02	Re	<0.02	Ti	<0.02
As	<0.05	Er	<0.02	Mg	<0.6	Rh	<0.02	Tl	<0.02
Au	<1.8	Eu	<0.02	Mn	<0.05	Ru	<0.02	Tm	<0.02
B	<1	Fe	<1	Mo	<0.02	Sb	<0.02	U	<0.05
Ba	<0.02	Ga	<0.02	Na	<3	Sc	<0.02	V	<0.05
Be	<0.02	Gd	<0.02	Nb	<0.02	Se	<0.1	W	<0.02
Bi	<0.02	Ge	<0.02	Nd	<0.02	Si	<5	Y	<0.02
Ca	<1	Hf	<0.02	Ni	<0.02	Sm	<0.02	Yb	<0.02
Cd	<0.02	Ho	<0.02	Os	<0.02	Sn	<0.5	Zn	<0.02
Ce	<0.02	In	<0.02	Pb	<0.05	Sr	<0.02	Zr	<0.02
Co	<0.05	Ir	<0.02	Pd	<0.5	Ta	<0.02		
Cr	<0.05	K	<1	Pr	<0.02	Tb	<0.02		
Cs	<0.02	La	<0.02	Pt	<0.02	Te	<0.02		

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored normal laboratory conditions.

Expiration Information:

The expiry date is guaranteed to be valid for eighteen months from the shipping date provided and is guaranteed through the month of expiration. For this reason, standards from the same lot may have different expiration dates.

Shipped Date: October 2024
Expiration Date: April 30, 2026
Certificate Issue Date: June 18, 2024

Julio Soto, Quality Manager

Reagent

MT_PST_AQCRLA_00006

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-75246
Lot Number:	V2-MEB745428
Matrix:	2% (v/v) HNO3

Value / Analyte(s):	1 500 µg/mL ea: Sodium,	
	1 000 µg/mL ea: Potassium,	
	200 µg/mL ea: Calcium,	
	100 µg/mL ea: Boron,	Iron,
	50 µg/mL ea: Aluminum, Phosphorus,	Lithium,
	30 µg/mL ea: Selenium,	
	20 µg/mL ea: Magnesium,	
	15 µg/mL ea: Lead,	
	10 µg/mL ea: Nickel, Cobalt, Copper, Thallium, Zinc,	Barium, Chromium, Strontium, Vanadium,
	8 µg/mL ea: Arsenic,	
	5 µg/mL ea: Cadmium,	
	4 µg/mL ea: Beryllium,	Manganese

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**49.94 ± 0.19 µg/mL**	**Arsenic, As**	**8.00 ± 0.05 µg/mL**
Barium, Ba	**10.00 ± 0.05 µg/mL**	**Beryllium, Be**	**3.998 ± 0.020 µg/mL**
Boron, B	**100.0 ± 0.5 µg/mL**	**Cadmium, Cd**	**4.999 ± 0.030 µg/mL**
Calcium, Ca	**200.0 ± 0.6 µg/mL**	**Chromium, Cr**	**10.00 ± 0.05 µg/mL**
Cobalt, Co	**10.02 ± 0.05 µg/mL**	**Copper, Cu**	**10.00 ± 0.06 µg/mL**
Iron, Fe	**100.0 ± 0.4 µg/mL**	**Lead, Pb**	**15.00 ± 0.07 µg/mL**
Lithium, Li	**50.09 ± 0.22 µg/mL**	**Magnesium, Mg**	**20.00 ± 0.10 µg/mL**
Manganese, Mn	**4.000 ± 0.020 µg/mL**	**Nickel, Ni**	**10.00 ± 0.06 µg/mL**
Phosphorus, P	**50.03 ± 0.24 µg/mL**	**Potassium, K**	**1 000 ± 4 µg/mL**
Selenium, Se	**30.03 ± 0.19 µg/mL**	**Sodium, Na**	**1 500 ± 7 µg/mL**
Strontium, Sr	**10.00 ± 0.04 µg/mL**	**Thallium, Tl**	**10.00 ± 0.04 µg/mL**
Vanadium, V	**10.01 ± 0.04 µg/mL**	**Zinc, Zn**	**10.00 ± 0.04 µg/mL**

Density: 1.018 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	120618
Cu	EDTA	928	928
Cu	Calculated		See Sec. 4.2
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mg	Calculated		See Sec. 4.2
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	200413
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Sr	EDTA	928	928
Sr	ICP Assay	Traceable to 3153a	K2-SR650985
Sr	Calculated		See Sec. 4.2

Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928
Zn	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 15, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **July 15, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

MT_PST_CCVA_00007

7221 Investment Drive • North Charleston, SC 29418
843.767.7900 • info@highpuritystandards.com • www.highpuritystandards.com

Certificate of Analysis

Certified Reference Material

Product Description: Special Mix

Product Number: **SM-150-077-A-250**
Lot Number: **2400332-250**
Matrix: 4% HNO3
Purity: 99.0%-99.9998%

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER
ISO 17034:2016 (RMP) Accreditation Certificate Number AR-1436

Certified Values:

Element	(µg/mL)	SRM ID	Element	(µg/mL)	SRM ID
Al	400 ± 4	3101a	Li	200 ± 2	3129a
As	200 ± 2	3103a	Mg	400 ± 4	3131a
B	200 ± 2	3107	Mn	200 ± 3	3132
Ba	200 ± 2	3104a	Na	400 ± 4	3152a
Be	200 ± 2	3105a	Ni	200 ± 2	3136
Ca	400 ± 4	3109a	P	200 ± 3	3139a
Cd	200 ± 2	3108	Pb	200 ± 2	3128
Co	200 ± 2	3113	S	200 ± 3	3154
Cr	200 ± 2	3112a	Se	200 ± 2	3149
Cu	200 ± 2	3114	Sr	200 ± 2	3153a
Fe	400 ± 4	3126a	Tl	200 ± 2	3158
K	400 ± 4	3141a	Zn	200 ± 2	3168a

Certified values are based on gravimetric and volumetric preparation, and verified against NIST SRM 3100 series when available via inductively coupled plasma optical emission spectrometry (ICP-OES) and/or inductively coupled plasma mass spectrometry (ICP-MS) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.
* Refer to Traceability Information, Section 4

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Expiration Information:

The expiry date is guaranteed to be valid for one year from the shipping date provided and is guaranteed through the month of expiration. For this reason, standards from the same lot may have different expiration dates.

Shipped Date: January 2024
Expiration Date: January 31, 2025
Certificate Issue Date: January 5, 2024

Julio Soto, Quality Manager

Preparation Information:

This Certified Reference Material (CRM) is generally prepared from single element standard solutions that are ISO 17034 certified reference materials and manufactured under appropriate laboratory conditions using the methods developed at NIST for SRM Spectrometric Standard Solutions. Sub-boiling distilled high-purity acid has been used to place the materials in solution and stabilize the standard. The matrix is as noted above in 18 megaohm deionized water. Stability of this product is based upon rigorous short-term and long-term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product. If, during the period of validity, a recall is instituted due to substantial changes in the stability of this product, the purchaser will be notified.

Homogeneity:

This product is determined to be homogeneous following in-house procedures developed in accordance with the requirements of ISO 17034 and ISO Guide 35.

Intended Use:

This product is intended for use as a calibration standard, quality control standard, and/or for the validation of analytical methods. The standard is confirmed homogeneous; therefore, the minimum sample size should be consistent with the end user's measurement capabilities.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

1. **Standard Weight and Analytical Balance**
   The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in 'NIST Weights and Measures Measurement Assurance Program' with a certificate of measurement traceability to NIST primary standards. The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.
2. **Volumetric Device**
   The calibrations of volumetric vessels are verified using the ASTM method E542.
3. **Thermometer**
   The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.
4. **Calibration Standards**
   The Calibration Standard is traceable to SRM 3100 Series Spectrometric Standard Solutions. If an SRM is not available, a second source standard or independent lot is used.

Refer to Safety Datasheet (SDS) for hazardous information.

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High-Purity Standards.

Reagent

MT_PST_CLPINF_00008

environmental express®

Certificate of Analysis

Certified Reference Material

Product Description:	Custom Inorganic Standard
Product Number:	**ICL500-6**
Lot Number:	**2404549-500**
Matrix:	5% HNO3
Purity:	99.995%-99.9995%
Density:	1.093 g/mL ± 0.002 g/mL @ 21.7°C ± 0.3°C

Certified Values:

Element	(µg/mL)	SRM ID
Al	5000 ± 30	3101a
Ca	5000 ± 30	3109a
Fe	2000 ± 12	3126a
Mg	5000 ± 30	3131a

Certified values are based on gravimetric and volumetric preparation, and verified against NIST SRM 3100 series when available via inductively coupled plasma optical emission spectrometry (ICP-OES) and/or inductively coupled plasma mass spectrometry (ICP-MS) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

* Refer to Traceability Information, Section 4

Uncertified Values:

Trace Metal Impurity Scan: The data reported are based upon a scan of this specific lot via ICP-OES/ICP-MS analysis. The values are reported in µg/L.

Ag	<1.1	Ca	M	K	<93	Ni	7.8	Sr	32.3
Al	M	Cd	<0.5	Li	<0.1	Pb	33.5	Ti	<0.3
As	<0.3	Co	13.8	Mg	M	S	<200	Tl	<0.1
B	<5	Cr	10.6	Mn	17.1	Sb	<0.4	V	1.9
Ba	8.3	Cu	133	Mo	3.5	Se	<0.5	Zn	6.9
Be	2.9	Fe	M	Na	<79	Sn	<3		

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Expiration Information:

The expiry date is guaranteed to be valid for one year from the shipping date provided and is guaranteed through the month of expiration. For this reason, standards from the same lot may have different expiration dates.

Shipped Date:	February 2024
Expiration Date:	February 28, 2025
Certificate Issue Date:	February 16, 2024

Carson R Geib

Carson Geib, Quality and Compliance Manager

2345A Charleston Regional Pkwy, Charleston, South Carolina 29492

Reagent

MT_PST_CLPINF_00009

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-ICP-ICSA

ICP ICSA Mix

Lot #: 1466098

Matrix: 5% HNO_3

*Expiration Date: 15 July 2026

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
Al	5000 ± 25 mg/L	Fe	2000 ± 10 mg/L
Ca	5000 ± 25 mg/L	Mg	5007 ± 25 mg/L

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #
Al	1369281	Fe	1440932
Ca	1344004	Mg	1454072

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to, **ISO 17034**, **ISO/IEC 17025** and **ISO 9001**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see reverse side)**. The solution was stabilized using high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see reverse side)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Fe	MAJOR	Sb	<0.5
Al	MAJOR	Hg	5	Se	<2
As	<0.5	K	106	Sn	0.685
Ba	16	Li	3	Sr	120
Be	<0.5	Mg	MAJOR	Th	<0.5
Ca	MAJOR	Mn	22	Ti	5
Cd	<0.5	Mo	4	Tl	<0.5
Co	2	Na	<50	U	<0.5
Cr	12	Ni	5	V	<2
Cu	1.969	Pb	2	Zn	10

USA
5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901
www.cpiinternational.com

Europe
Nieuwe Hemweg 7P P: +31 20 638 05 97
1013BG Amsterdam F: +31 20 420 28 36
The Netherlands

Reagent

MT_PST_IFBSOL_00009

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-74673
Lot Number:	V2-MEB744057
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	100 µg/mL ea: Silver, Arsenic, Cadmium, Nickel, Lead, Selenium, Thallium, Zinc, 60 µg/mL ea: Antimony, 50 µg/mL ea: Vanadium, Cobalt, Chromium, Copper, Manganese, Barium, Beryllium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**60.01 ± 0.41 µg/mL**	**Arsenic, As**	**100.0 ± 0.6 µg/mL**
Barium, Ba	**50.00 ± 0.29 µg/mL**	**Beryllium, Be**	**50.00 ± 0.30 µg/mL**
Cadmium, Cd	**100.0 ± 0.4 µg/mL**	**Chromium, Cr**	**50.01 ± 0.28 µg/mL**
Cobalt, Co	**50.00 ± 0.24 µg/mL**	**Copper, Cu**	**49.99 ± 0.22 µg/mL**
Lead, Pb	**100.0 ± 0.5 µg/mL**	**Manganese, Mn**	**50.01 ± 0.22 µg/mL**
Nickel, Ni	**100.0 ± 0.4 µg/mL**	**Selenium, Se**	**100.0 ± 0.6 µg/mL**
Silver, Ag	**100.0 ± 0.4 µg/mL**	**Thallium, Tl**	**100.0 ± 0.5 µg/mL**
Vanadium, V	**50.00 ± 0.22 µg/mL**	**Zinc, Zn**	**100.0 ± 0.4 µg/mL**

Density: 1.013 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	120618
Cu	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information (https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver)

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 24, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 24, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

MT_SST_Ca_00006

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuTrace™ Reference Standard

Catalog No: ICP-09N-10X-1
Description: Calcium ICP Standard
Element: Calcium (Ca)
SRM: 3109a
Lot: 223045009
Matrix: 2-5% Nitric acid
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

359349
ID: MT_SST_Ca_00006
Exp: 04/06/28 Prpd.
High Purity Ca stock stan

Date Certified: Apr 6, 2023
Expiration: Apr 6, 2028
Density: 1.043 g/mL
Sample Size: 100 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Certified Concentration: 10000 µg/mL

Trace Elements in µg/mL

Ag	nd<0.02	Ce	nd<0.2	Gd	nd<0.02	Lu	nd<0.02	Pb	nd<0.2	Sc	nd<0.02	Tl	nd<0.02
Al	N/A	Co	nd<0.02	Ge	N/A	Mg	1.84	Pd	nd<0.2	Se	N/A	Ti	nd<0.2
As	nd<0.2	Cr	nd<0.02	Hf	nd<0.02	Mn	nd<0.02	Pr	nd<0.2	Si	N/A	Tm	nd<0.02
Au	nd<0.02	Cs	N/A	Hg	nd<0.2	Mo	nd<0.02	Pt	nd<0.2	Sm	nd<0.2	U	nd<0.2
B	nd<0.2	Cu	nd<0.02	Ho	nd<0.02	Na	0.08	Rb	N/A	Sn	nd<0.02	V	nd<0.02
Ba	nd<0.02	Dy	nd<0.02	In	nd<0.2	Nb	nd<0.2	Re	nd<0.2	Sr	0.04	W	nd<0.2
Be	nd<0.02	Er	nd<0.02	Ir	nd<0.2	Nd	nd<0.02	Rh	nd<0.2	Ta	nd<0.2	Y	nd<0.02
Bi	nd<0.2	Eu	nd<0.02	K	nd<0.2	Ni	nd<0.02	Ru	nd<0.02	Tb	nd<0.02	Yb	nd<0.02
Ca	*	Fe	nd<0.02	La	N/A	Os	N/A	S	N/A	Te	nd<0.2	Zn	0.04
Cd	nd<0.02	Ga	nd<0.02	Li	nd<0.02	P	N/A	Sb	nd<0.2	Th	nd<0.02	Zr	nd<0.02

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

This solution was assayed titrimetrically, using EDTA which was standardized against NIST SRM #915a (calcium carbonate).

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

The gravimetric uncertainty for this product is ±0.24%. The CRM uncertainty is ±2.4%.

In order to verify the concentration(s), the final solution was checked by plasma emission spectroscopy (ICP) against material traceable to the above listed NIST SRM(s).

We use the highest purity raw materials available to minimize impurity levels in the final solution. Typically 99.999%+ pure starting materials are used as well as high purity acids and ASTM Type I 18 megohm deionized water.

All trace level elemental impurities were determined via plasma emission spectroscopy on the concentrate.

All weights are traceable through NIST, Test No. 684/291344-18 & 684/292605-19

All glassware used in preparation is Class A.

All bottles are acid leached and triple rinsed with deionized water prior to use.

Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware. Keep bottle tightly capped.

Certified By: Meigan O'Leary
Meigan O'Leary, Inorganic QC Manager

Page 1 of 1

For use in routine laboratory analysis.

Reagent

MT_SST_Na_00006

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuTrace™ Reference Standard

Catalog No: ICP-54N-10X-1
Description: Sodium ICP Standard
Element: Sodium (Na)
SRM: 3152a
Lot: 221085140-01
Matrix: 2-5% Nitric acid
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

359350
ID: MT_SST_Na_00006
Exp: 09/13/28 Prpd.
ICP Sodium 2nd source

Date Certified: Sep 13, 2023
Expiration: Sep 13, 2028
Density: 1.036 g/mL
Sample Size: 100 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ilac-MRA

Certified Concentration: 10000 µg/mL

Trace Elements in µg/mL

Ag	nd<0.02	Ce	nd<0.2	Gd	nd<0.02	Lu	nd<0.02	Pb	nd<0.2	Sc	nd<0.02	Tl	nd<0.02
Al	nd<0.02	Co	nd<0.02	Ge	nd<0.2	Mg	nd<0.02	Pd	nd<0.2	Se	nd<0.2	Ti	nd<0.2
As	nd<0.2	Cr	nd<0.02	Hf	nd<0.02	Mn	nd<0.02	Pr	nd<0.2	Si	N/A	Tm	nd<0.02
Au	nd<0.02	Cs	N/A	Hg	nd<0.2	Mo	nd<0.02	Pt	nd<0.2	Sm	nd<0.2	U	nd<0.2
B	nd<0.2	Cu	nd<0.02	Ho	nd<0.02	Na	*	Rb	N/A	Sn	nd<0.02	V	nd<0.02
Ba	nd<0.02	Dy	nd<0.02	In	nd<0.2	Nb	nd<0.2	Re	nd<0.2	Sr	nd<0.02	W	N/A
Be	nd<0.02	Er	nd<0.02	Ir	nd<0.2	Nd	nd<0.02	Rh	nd<0.2	Ta	nd<0.2	Y	nd<0.02
Bi	nd<0.2	Eu	nd<0.02	K	0.2	Ni	nd<0.02	Ru	nd<0.02	Tb	nd<0.02	Yb	nd<0.02
Ca	0.04	Fe	nd<0.02	La	nd<0.02	Os	N/A	S	N/A	Te	nd<0.2	Zn	0.02
Cd	nd<0.02	Ga	nd<0.02	Li	nd<0.02	P	N/A	Sb	nd<0.2	Th	nd<0.02	Zr	nd<0.02

This Certified Reference Meterial was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

This solution was assayed gravimetrically, using a balance calibrated against weight sets, ID #88270, traceable to NIST

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has hed its expiration date extended and is identical to the same lot number without the suffix.

The gravimetric uncertainty for this product is ±0.24%. The CRM uncertainty is ±2.4%.

In order to verify the concentration(s), the final solution was checked by plasma emission spectroscopy (ICP) against material traceable to the above listed NIST SRM(s).

We use the highest purity raw materials available to minimize impurity levels in the final solution. Typically 99.999%+ pure starting materials are used as well as high purity acids and ASTM Type I 18 megohm deionized water.

All trace level elemental impurities were determined via plasma emission spectroscopy on the concentrate.

All weights are traceable through NIST, Test No. 684/289871-17

All glassware used in preparation is Class A.

All bottles are acid leached and triple rinsed with deionized water prior to use.

Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware. Keep bottle tightly capped.

Certified By: Meigan O'Leary
Meigan O'Leary, Inorganic QC Manager

For use in routine laboratory analysis.

Reagent

MT_SST_QC1_00020

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuTrace™ Reference Standard

Catalog No: QCS-01-5
Description: ICP Quality Control Standard #1
Lot: 224055035
Matrix: 5% Nitric acid, tr HF
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: May 13, 2024
Expiration: Jun 13, 2026
Sample Size: 500 mL
Components: 23
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ILAC-MRA

Component		SRM #	Prepared Concentration (µg/mL)
Sb	Antimony	3102a	100
As	Arsenic	3103a	100
Be	Beryllium	3105a	100
Cd	Cadmium	3108	100
Ca	Calcium	3109a	100
Cr	Chromium	3112a	100
Co	Cobalt	3113	100
Cu	Copper	3114	100
Fe	Iron	3126a	100
Pb	Lead	3128	100
Li	Lithium	3129a	100
Mg	Magnesium	3131a	100
Mn	Manganese	3132	100
Mo	Molybdenum	3134	100
Ni	Nickel	3136	100
P	Phosphorus	3139a	100
Se	Selenium	3149	100
Sr	Strontium	3153a	100
Tl	Thallium	3158	100
Sn	Tin	3161a	100
Ti	Titanium	3162a	100
V	Vanadium	3165	100
Zn	Zinc	3168a	100

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

The gravimetric uncertainty for this product is ±0.24%. The CRM uncertainty is ±2.4% and was determined in accordance with ISO 17034.

In order to verify the concentration(s), the final solution was checked by plasma emission spectroscopy (ICP) against material traceable to the above listed NIST SRM(s).

We use the highest purity raw materials available to minimize impurity levels in the final solution. Typically 99.999%+ pure sterling materials are used as well as high purity acids and ASTM Type I 18 megohm deionized water.

All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

All glassware used in preparation is Class A.

All bottles are acid leached and triple rinsed with deionized water prior to use.

Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware. Keep bottle tightly capped.

Certified By: Meigan O'Leary
Meigan O'Leary, Inorganic QC Manager

For use in routine laboratory analysis.

Reagent

MT_SST_QC2_00020

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuTrace™ Reference Standard

Catalog No: QCS-02-5
Description: ICP Quality Control Standard #2
Lot: 222045096-02
Matrix: 2-5% Nitric acid, tr HF
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: May 8, 2024
Expiration: Jun 8, 2026
Sample Size: 500 mL
Components: 7
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ILAC-MRA

Component		SRM #	Prepared Concentration (µg/mL)
Al	Aluminum	3101a	100
Ba	Barium	3104a	100
B	Boron	3107	100
K	Potassium	3141a	1000
Si	Silicon	3150	500
Ag	Silver	3151	50
Na	Sodium	3152a	100

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

The gravimetric uncertainty for this product is ±0.24%. The CRM uncertainty is ±2.4% and was determined in accordance with ISO 17034.

In order to verify the concentration(s), the final solution was checked by plasma emission spectroscopy (ICP) against material traceable to the above listed NIST SRM(s).

We use the highest purity raw materials available to minimize impurity levels in the final solution. Typically 99.999%+ pure starting materials are used as well as high purity acids and ASTM Type I 18 megohm deionized water.

All weights are traceable through NIST, Test No. 684/289871-17

All glassware used in preparation is Class A.

All bottles are acid leached and triple rinsed with deionized water prior to use.

Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware. Keep bottle tightly capped.

Certified By: Meigan O'Leary
Meigan O'Leary, Inorganic QC Manager

For use in routine laboratory analysis.

Reagent

MT_SST_S_00008

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuTrace™ Reference Standard

Catalog No: ICP-56W-10X-1
Description: Sulfur ICP Standard
Element: Sulfur (S)
SRM: 3154
Lot: 222115054
Matrix: Water
Hazards: *Refer to SDS for complete safety information*

Signal Word: Warning

Date Certified: Nov 9, 2022
Expiration: Nov 9, 2027
Density: 1.024 g/mL
Sample Size: 100 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Certified Concentration: 10000 µg/mL

Trace Elements in µg/mL

Ag	nd<0.02	**Ce**	nd<0.2	**Gd**	nd<0.02	**Lu**	nd<0.02	**Pb**	nd<0.2	**Sc**	nd<0.02	**Ti**	nd<0.02
Al	nd<0.02	**Co**	nd<0.02	**Ge**	nd<0.2	**Mg**	nd<0.02	**Pd**	nd<0.2	**Se**	nd<0.2	**Tl**	nd<0.2
As	nd<0.2	**Cr**	nd<0.02	**Hf**	nd<0.02	**Mn**	nd<0.02	**Pr**	nd<0.2	**Si**	nd<0.2	**Tm**	nd<0.02
Au	nd<0.02	**Cs**	N/A	**Hg**	nd<0.2	**Mo**	nd<0.02	**Pt**	nd<0.2	**Sm**	nd<0.2	**U**	nd<0.2
B	nd<0.2	**Cu**	nd<0.02	**Ho**	nd<0.02	**Na**	**0.03**	**Rb**	N/A	**Sn**	nd<0.02	**V**	nd<0.02
Ba	nd<0.02	**Dy**	nd<0.02	**In**	nd<0.2	**Nb**	nd<0.2	**Re**	nd<0.2	**Sr**	nd<0.02	**W**	nd<0.2
Be	nd<0.02	**Er**	nd<0.02	**Ir**	nd<0.2	**Nd**	nd<0.02	**Rh**	nd<0.2	**Ta**	nd<0.2	**Y**	nd<0.02
Bi	nd<0.2	**Eu**	nd<0.02	**K**	nd<0.2	**Ni**	nd<0.02	**Ru**	nd<0.02	**Tb**	nd<0.02	**Yb**	nd<0.02
Ca	**0.07**	**Fe**	nd<0.02	**La**	nd<0.02	**Os**	N/A	**S**	*	**Te**	nd<0.2	**Zn**	nd<0.02
Cd	nd<0.02	**Ga**	nd<0.02	**Li**	nd<0.02	**P**	N/A	**Sb**	nd<0.2	**Th**	nd<0.02	**Zr**	nd<0.02

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

This solution was assayed gravimetrically, using a balance calibrated against weight sets, ID #88270, traceable to NIST

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

The gravimetric uncertainty for this product is ±0.24%. The CRM uncertainty is ±2.4%.

In order to verify the concentration(s), the final solution was checked by plasma emission spectroscopy (ICP) against material traceable to the above listed NIST SRM(s).

We use the highest purity raw materials available to minimize impurity levels in the final solution. Typically 99.999%+ pure starting materials are used as well as high purity acids and ASTM Type I 18 megohm deionized water.

All trace level elemental impurities were determined via plasma emission spectroscopy on the concentrate.

All glassware used in preparation is Class A.

All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

All bottles are acid leached and triple rinsed with deionized water prior to use.

Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware. Keep bottle tightly capped.

Certified By: Meigan O'Leary

Meigan O'Leary, Inorganic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

1. **Quality Standards:**

   ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

   ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

Reagent

SV-ISTD8270_00025

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567684 **Lot No.:** A0218138

Description : 8270 Internal Standard

8270 Internal Standard 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : October 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,002.4 µg/mL	+/- 90.1893
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,013.2 µg/mL	+/- 90.6757
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,017.2 µg/mL	+/- 90.8559
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,014.6 µg/mL	+/- 90.7388
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,009.6 µg/mL	+/- 90.5136
6	Perylene-d12	1520-96-3	PR-33205	99%	2,002.2 µg/mL	+/- 90.1803

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

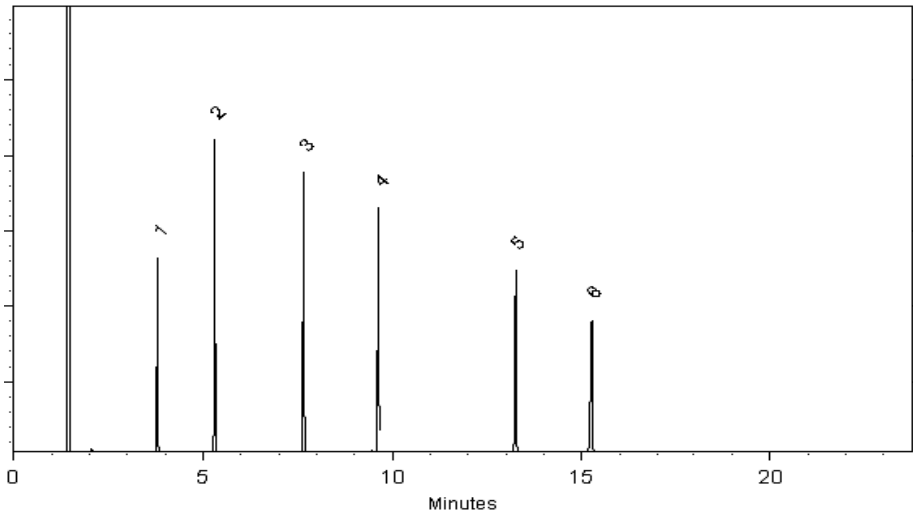
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 21-Oct-2024 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 23-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VO8260ISSur_00018

Agilent
Trusted Answers

ISO 17034

Certified Reference Material

Product Name: Internal and Surrogate Standard
Product Number: STM-540-1
Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006813471
Lot Issue Date: 25-Sep-2024
Expiration Date: 31-Oct-2027

Component Name	CERTIFIED VALUES Concentration		Expanded Uncertainty	CAS#	Analyte Lot
chlorobenzene-d5	2512	±	55 µg/mL	003114-55-4	RM19678
1,4-dichlorobenzene-d4	2508	±	30 µg/mL	003855-82-1	rm19347
fluorobenzene	2512	±	113 µg/mL	000462-06-6	RM13378
4-bromofluorobenzene	2509	±	17 µg/mL	000460-00-4	RM12164
dibromofluoromethane	2510	±	142 µg/mL	001868-53-7	RM01021
1,2-dichloroethane-d4	2505	±	69 µg/mL	017060-07-0	RM21040
toluene-d8	2507	±	36 µg/mL	002037-26-5	RM20758

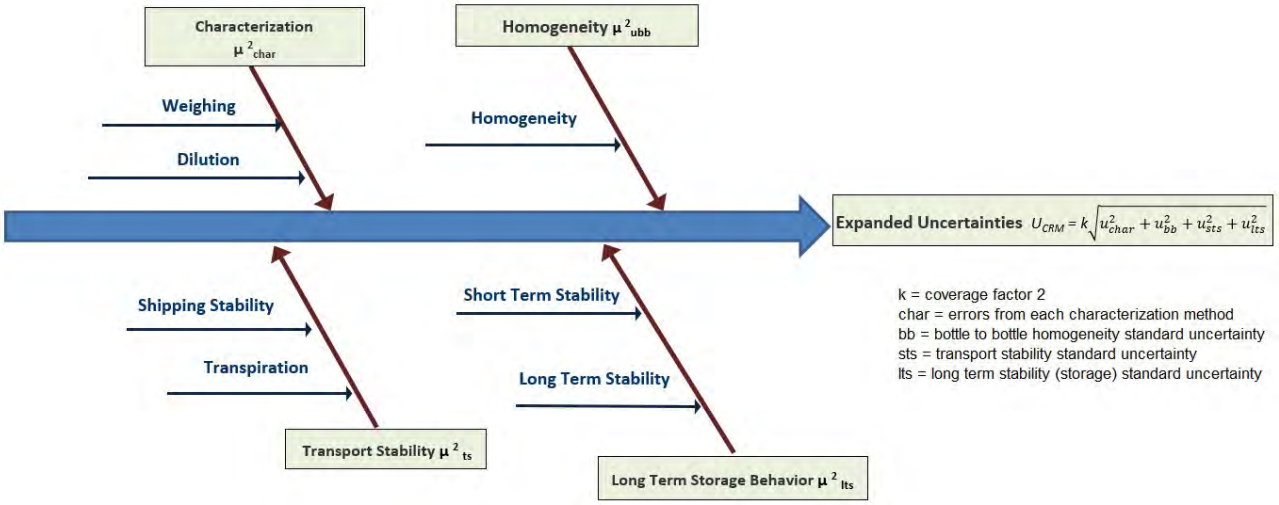
Matrix: methanol (methyl alcohol)

Description:
This document was prepared in accordance with ISO 17034 and Guide 31. This Certified Reference Material is intended for use as a calibration standard for the quantitative determination of the analyte listed. The CRM was manufactured and verified in accordance with the ISO 9001 registered Quality Management System. The certified concentration value reported for the analyte is based upon the gravimetric and volumetric measurements made during the preparation of the standard. The analyte concentrations were verified by the accredited ISO 17025 laboratory using an appropriate analytical technique.

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.

Agilent
Trusted Answers

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using the coverage factor of k=2.



Homogeneity:
This analytical standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20ºC to 25ºC immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this standard.

Intended Use:
This analytical standard 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.

Expiration of Certification:
The certification of this standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

Agilent
Trusted Answers

ANAB
ANSI National Accreditation Board
ACCREDITED
ISO 17034
REFERENCE MATERIAL PRODUCER

ISO 17034 Cert
No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

www.agilent.com/quality/
CSD-QA-012.1

ISO 17025

Reagent

VO8260Primary_00143

Agilent
Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Custom Standard
Product Number: CUS-28148
Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006837291
Lot Issue Date: 10-Mar-2025
Expiration Date: 30-Apr-2027

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
benzene	50.2	±	0.3 µg/mL	000071-43-2	RM12931
bromobenzene	50.2	±	0.3 µg/mL	000108-86-1	RM18187
bromochloromethane	50.1	±	0.3 µg/mL	000074-97-5	RM00009
bromodichloromethane	50.1	±	0.3 µg/mL	000075-27-4	RM20004
bromoform	50.1	±	0.3 µg/mL	000075-25-2	RM13987
bromomethane	50.2	±	0.3 µg/mL	000074-83-9	RM00064
n-butylbenzene	50.2	±	0.3 µg/mL	000104-51-8	RM03651
sec-butylbenzene	50.2	±	0.3 µg/mL	000135-98-8	RM17905
tert-butylbenzene	50.2	±	0.3 µg/mL	000098-06-6	RM14040
carbon tetrachloride	50.2	±	0.3 µg/mL	000056-23-5	RM07576
chlorobenzene	50.2	±	0.3 µg/mL	000108-90-7	RM16055
chloroethane	50.2	±	0.3 µg/mL	000075-00-3	RM00065
chloroform	50.2	±	0.3 µg/mL	000067-66-3	RM15321
chloromethane	50.2	±	0.3 µg/mL	000074-87-3	RM12571
2-chlorotoluene	50.2	±	0.3 µg/mL	000095-49-8	RM22006
4-chlorotoluene	50.2	±	0.3 µg/mL	000106-43-4	RM18212
dibromochloromethane	50.1	±	0.3 µg/mL	000124-48-1	RM19222
1,2-dibromo-3-chloropropane	50.2	±	0.3 µg/mL	000096-12-8	RM12895
1,2-dibromoethane	50.1	±	0.3 µg/mL	000106-93-4	RM00018
dibromomethane	50.1	±	0.3 µg/mL	000074-95-3	RM10223
1,2-dichlorobenzene	50.2	±	0.3 µg/mL	000095-50-1	RM16249
1,3-dichlorobenzene	50.2	±	0.3 µg/mL	000541-73-1	RM16466
1,4-dichlorobenzene	50.1	±	0.3 µg/mL	000106-46-7	RM12826
dichlorodifluoromethane	50.2	±	0.3 µg/mL	000075-71-8	RM05289
1,1-dichloroethane	50.2	±	0.3 µg/mL	000075-34-3	RM19798
1,2-dichloroethane	50.2	±	0.3 µg/mL	000107-06-2	RM04655
1,1-dichloroethene	50.2	±	0.3 µg/mL	000075-35-4	RM19401
cis-1,2-dichloroethene	50.2	±	0.3 µg/mL	000156-59-2	RM19542
trans-1,2-dichloroethene	50.2	±	0.3 µg/mL	000156-60-5	RM07565
1,2-dichloropropane	50.1	±	0.3 µg/mL	000078-87-5	RM12821
MTBE	50.2	±	0.3 µg/mL	001634-04-4	RM17686
acetone	50.2	±	0.3 µg/mL	000067-64-1	RM20566
acrylonitrile	50.2	±	0.3 µg/mL	000107-13-1	RM20367
2-butanone	50.2	±	0.3 µg/mL	000078-93-3	RM06696
2-hexanone	50.2	±	0.3 µg/mL	000591-78-6	RM10228

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
4-methyl-2-pentanone	50.2	±	0.3 µg/mL	000108-10-1	RM22517
1,3-dichloropropane	50.2	±	0.3 µg/mL	000142-28-9	RM09825
2,2-dichloropropane	50.1	±	0.3 µg/mL	000594-20-7	RM21741
1,1-dichloropropene	50.2	±	0.3 µg/mL	000563-58-6	RM16247
cis-1,3-dichloropropene	50.2	±	0.3 µg/mL	010061-01-5	RM17895
trans-1,3-dichloropropene	50.2	±	0.3 µg/mL	010061-02-6	RM12254
ethylbenzene	50.2	±	0.3 µg/mL	000100-41-4	RM16356
hexachlorobutadiene	50.2	±	0.3 µg/mL	000087-68-3	RM18420
isopropylbenzene	50.2	±	0.3 µg/mL	000098-82-8	RM21284
4-isopropyltoluene	50.1	±	0.3 µg/mL	000099-87-6	RM09747
methylene chloride	50.2	±	0.3 µg/mL	000075-09-2	RM09575
naphthalene	50.2	±	0.3 µg/mL	000091-20-3	RM10445
n-propylbenzene	50.1	±	0.3 µg/mL	000103-65-1	RM21209
styrene	50.2	±	0.3 µg/mL	000100-42-5	RM20330
1,1,1,2-tetrachloroethane	50.2	±	0.3 µg/mL	000630-20-6	RM20417
1,1,2,2-tetrachloroethane	50.2	±	0.3 µg/mL	000079-34-5	RM02540
tetrachloroethene	50.2	±	0.3 µg/mL	000127-18-4	RM06491
toluene	50.2	±	0.3 µg/mL	000108-88-3	RM14228
1,2,3-trichlorobenzene	50.2	±	0.3 µg/mL	000087-61-6	RM20804
1,2,4-trichlorobenzene	50.1	±	0.3 µg/mL	000120-82-1	RM09454
1,1,1-trichloroethane	50.2	±	0.3 µg/mL	000071-55-6	RM18157
1,1,2-trichloroethane	50.1	±	0.3 µg/mL	000079-00-5	RM01175
trichloroethene	50.2	±	0.3 µg/mL	000079-01-6	RM14232
trichlorofluoromethane	50.2	±	0.3 µg/mL	000075-69-4	RM00017
1,2,3-trichloropropane	50.2	±	0.3 µg/mL	000096-18-4	RM17174
1,2,4-trimethylbenzene	50.2	±	0.3 µg/mL	000095-63-6	RM06731
1,3,5-trimethylbenzene	50.2	±	0.3 µg/mL	000108-67-8	RM13787
vinyl chloride	50.2	±	0.3 µg/mL	000075-01-4	RM05458
m-xylene	25.1	±	0.1 µg/mL	000108-38-3	RM15919
p-xylene	25.1	±	0.1 µg/mL	000106-42-3	RM09445
tetrahydrofuran	50.2	±	0.3 µg/mL	000109-99-9	RM20353
carbon disulfide	50.2	±	0.3 µg/mL	000075-15-0	RM04997
t-butanol (2-methyl-2-propanol)	501.5	±	2.5 µg/mL	000075-65-0	RM01883
diisopropyl ether	50.2	±	0.3 µg/mL	000108-20-3	RM20331
tert-butyl ethyl ether	50.2	±	0.3 µg/mL	000637-92-3	RM13253
tert-amyl methyl ether	50.2	±	0.3 µg/mL	000994-05-8	RM14173
o-xylene	50.2	±	0.3 µg/mL	000095-47-6	RM19766
1,3,5-trichlorobenzene	50.1	±	0.3 µg/mL	000108-70-3	RM02554
diethyl ether	50.2	±	0.3 µg/mL	000060-29-7	RM20341
1,4-dioxane	501.5	±	2.5 µg/mL	000123-91-1	RM20283
1,1,2-trichlorotrifluoroethane	50.2	±	0.3 µg/mL	000076-13-1	RM14500
ethanol	1001	±	5 µg/mL	000064-17-5	RM21467
trans-1,4-dichloro-2-butene	50.2	±	0.3 µg/mL	000110-57-6	RM13971

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
cyclohexane	50.2	±	0.3 µg/mL	000110-82-7	RM14638
methyl acetate	50.2	±	0.3 µg/mL	000079-20-9	NT02091
methylcyclohexane	50.2	±	0.3 µg/mL	000108-87-2	RM18053
iodomethane	50.2	±	0.3 µg/mL	000074-88-4	RM14171

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and 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 above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, 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 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20ºC to 25ºC immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard 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.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Agilent
Trusted Answers

Monica Bourgeois
QMS Representative

ANAB
ANSI National Accreditation Board
ACCREDITED
ISO 17034
REFERENCE MATERIAL PRODUCER

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

Reagent

VO8260Second_00123

CERTIFIED WEIGHT REPORT

Part Number: 94577
Lot Number: 011625
Description: EPA Method 524.2 Volatile Standard
80 components
Expiration Date: 011628 Solvent(s): Methanol Lot# EJ143-USQ7
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Volume(s) shown below were combined and diluted to (mL): 200.0 0.002 Flask Uncertainty

Formulated By: Eli Ariaga 011625 DATE
Reviewed By: Pedro L. Rentas 011625 DATE

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Bromodichloromethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	75-27-4	N/A	orl-rat 916mg/kg
2. Dibromochloromethane	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	124-48-1	N/A	orl-rat 848mg/kg
3. cis-1,2-Dichloroethene	32001	010925	0.025	5.00	0.017	2000.3	50.0	0.6	156-59-2	N/A	N/A
4. trans-1,2-Dichloroethene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	156-60-5	N/A	orl-rat 1235mg/kg
5. Methylene chloride	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	75-09-2	500 ppm	orl-rat 820mg/kg
6. 1,1-Dichloroethene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
7. Bromochloromethane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	74-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg
8. Bromoform	32001	010925	0.025	5.00	0.017	2001.1	50.0	0.6	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
9. Carbon tetrachloride	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
10. Chloroform	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
11. Dibromomethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	74-95-3	N/A	orl-rat 108mg/kg
12. 1,1-Dichloroethane	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	75-34-3	100 ppm	orl-rat 725mg/kg
13. 2,2-Dichloropropane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	594-20-7	N/A	N/A
14. Tetrachloroethene	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	127-18-4	25 ppm (170mg/m3/8H)(5mi)	orl-rat 2629mg/kg
15. 1,1,1-Trichloroethane	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
16. 1,2-Dibromo-3-chloropropane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	96-12-8	0.001 ppm	orl-rat 170mg/kg
17. 1,2-Dibromoethane	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
18. 1,2-Dichloroethane	32001	010925	0.025	5.00	0.017	2000.9	50.0	0.6	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
19. 1,2-Dichloropropane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
20. 1,3-Dichloropropane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	142-28-9	N/A	unr-mus 3600mg/kg
21. 1,1-Dichloropropene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.7	563-58-6	N/A	N/A
22. cis-1,3-Dichloropropene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	10061-01-5	N/A	N/A
23. trans-1,3-Dichloropropene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	10061-02-6	N/A	N/A
24. Hexachloro-1,3-butadiene	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
25. 1,1,1,2-Tetrachloroethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	630-20-6	N/A	orl-rat 670mg/kg
26. 1,1,2,2-Tetrachloroethane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
27. 1,1,2-Trichloroethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
28. Trichloroethene	32001	010925	0.025	5.00	0.017	2000.9	50.0	0.6	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
29. 1,2,3-Trichloropropane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
30. Benzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	71-43-2	1 ppm	orl-rat 4894mg/kg
31. Bromobenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	108-86-1	N/A	orl-rat 2699mg/kg
32. n-Butyl benzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	104-51-8	N/A	N/A
33. Ethyl benzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
34. p-Isopropyl toluene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	99-87-6	N/A	orl-rat 4750mg/kg
35. Naphthalene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
36. Styrene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	100-42-5	100 ppm	orl-rat 5000mg/kg
37. Toluene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	108-88-3	200 ppm	orl-rat 5000mg/kg
38. 1,2,3-Trichlorobenzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	87-61-6	N/A	ipr-mus 1390mg/kg
39. 1,2,4-Trichlorobenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
40. 1,2,4-Trimethylbenzene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	95-63-6	N/A	orl-rat 5g/kg
41. 1,3,5-Trimethylbenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	108-67-8	N/A	orl-rat 5000mg/kg
42. m-Xylene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
43. tert-Butyl benzene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	98-06-6	N/A	N/A
44. sec-Butyl benzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	135-98-8	N/A	orl-rat 2240mg/kg
45. Chlorobenzene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
46. 2-Chlorotoluene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	95-49-8	50 ppm (260mg/m3/8H)	orl-rat 3600mg/kg
47. 4-Chlorotoluene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	106-43-4	N/A	orl-rat 2100mg/kg
48. 1,2-Dichlorobenzene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
49. 1,3-Dichlorobenzene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	541-73-1	N/A	ipr-mus 1052mg/kg
50. 1,4-Dichlorobenzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
51. Isopropylbenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
52. n-Propylbenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	103-65-1	N/A	orl-rat 6040mg/kg
53. o-Xylene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
54. p-Xylene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
55. Bromomethane	30058	101524	0.025	5.00	0.017	2007.5	50.2	0.4	74-83-9	5 ppm (20mg/m3/8H) (skin)	orl-rat 214mg/kg
56. Chloroethane	30058	101524	0.025	5.00	0.017	2005.3	50.1	0.4	75-00-3	1000 ppm (2600mg/m3/8H)	N/A
57. Chloromethane	30058	101524	0.025	5.00	0.017	2017.6	50.4	0.4	74-87-3	100 ppm	orl-rat 1800mg/kg
58. Dichlorodifluoromethane	30058	101524	0.025	5.00	0.017	2010.3	50.3	0.4	75-71-8	1000 ppm (4950mg/m3/8H)	N/A
59. Trichlorofluoromethane	30058	101524	0.025	5.00	0.017	2009.7	50.2	0.4	75-69-4	1000 ppm (5600mg/m3/8H)	ipr-mus 1743mg/kg
60. Vinyl chloride	30058	101524	0.025	5.00	0.017	2006.8	50.2	0.4	75-01-4	N/A	N/A
61. Acetone	92898	042420	0.025	5.00	0.017	2003.3	50.1	0.4	67-64-1	750 ppm	orl-rat 5800mg/kg
62. Acrylonitrile	92898	042420	0.025	5.00	0.017	2003.7	50.1	0.4	107-13-1	N/A	orl-rat 78 mg/kg
63. 2-Butanone (Methyl ethyl ketone)	92898	042420	0.025	5.00	0.017	2002.0	50.1	0.4	78-93-3	200 ppm (590mg/m3/8H)	orl-rat 2737mg/kg
64. Carbon disulphide	92898	042420	0.025	5.00	0.017	2003.0	50.1	0.4	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
65. 2-Hexanone	92898	042420	0.025	5.00	0.017	2002.0	50.1	0.4	591-78-6	100 ppm (410mg/m3/8H)	orl-rat 2590mg/kg
66. 4-Methyl-2-pentanone (MIBK)	92898	042420	0.025	5.00	0.017	2003.3	50.1	0.4	108-10-1	100 ppm (410mg/m3/8H)	orl-rat 2080mg/kg
67. Tetrahydrofuran	92898	042420	0.025	5.00	0.017	2002.4	50.1	0.4	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
68. Methyl tert-butyl ether (MTBE)	70209	072123	0.05	10.00	0.042	1003.5	50.2	0.5	1634-04-4	N/A	orl-rat 4g/kg
69. tert-Amyl methyl ether	93394	092716	0.10	20.00	0.003	501.0	50.1	0.2	994-05-8	N/A	N/A
70. tert-Butyl alcohol (t-Butanol)	93394	092716	0.10	20.00	0.003	5003.6	500.4	2.0	75-65-0	100 ppm (300mg/m3/8H)	orl-rat 3500mg/kg
71. Diethyl ether (Ethyl ether)	93394	092716	0.10	20.00	0.003	501.4	50.1	0.2	60-29-7	400ppm (1200mg/m3/8H)	orl-rat 1215mg/kg
72. 1,4-Dioxane	93394	092716	0.10	20.00	0.003	5003.4	500.4	2.0	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
73. Ethyl tert-butyl ether (ETBE)	93394	092716	0.10	20.00	0.003	501.4	50.1	0.2	637-92-3	N/A	N/A
74. Isopropyl ether	93394	092716	0.10	20.00	0.003	500.4	50.0	0.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
75. 1,3,5-Trichlorobenzene	93394	092716	0.10	20.00	0.003	500.5	50.1	0.2	108-70-3	N/A	orl-rat 800mg/kg
76. Allyl chloride (3-Chloropropene)	70325	042224	0.05	10.00	0.042	1002.6	50.1	0.5	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
77. trans-1,4-Dichloro-2-butene	70466	011625	0.05	10.00	0.042	1003.9	50.2	0.5	110-57-6	N/A	N/A
78. 2-Isopropyl toluene	72537	060822	0.05	10.00	0.042	1000.7	50.0	0.5	527-84-4	N/A	orl-rat 2130mg/kg
79. 1,1,2-Trichlorotrifluoroethane	70474	092922	0.05	10.00	0.042	1001.4	50.1	0.5	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
80. Ethanol	90572	063024	0.05	10.00	0.042	20005.0	1000.4	9.3	64-17-5	1000 ppm (1900mg/m3/8H)	orl-rat 7060mg/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5 % of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyatt, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

WC_FL_KHP_3_00007

ThermoFisher SCIENTIFIC

Version	01
Molecular weight	204.22
Quality Test / Release Date	05/29/2022
Molecular Formula	C8 H5 K O4
CAS No	877-24-7
Linear Formula	2-(HO2C)C6H4CO2K
Flash Point (°C)	

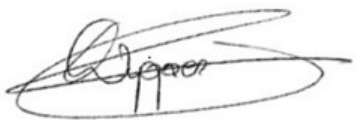
Certificate of Analysis

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Catalog Number	42406	**Quality Test / Release Date**	05/29/2022
Lot Number	A0414437	**Suggested retest date**	05/29/2027
Description	Potassium hydrogen phthalate,ACS reagent,acidimetric standard		
Country of Origin	INDIA		
Declaration of Origin	synthetic		

BSE/TSE	
Chemical	

Result name	Specifications	Test Value
Appearance (Color)	White	White
Appearance (Form)	Crystalline powder or crystals	Crystalline powder
Infrared spectrum	Conforms	Conforms
Titration with NaOH	99.95 to 100.05 % (On dried basis)	100.02 % (On dried basis)
pH	4.00 to 4.02 (0.05M at 25.0 +/- 0.2°C)	4.00 (0.05M at 25.0 +/- 0.2°C)
Insoluble matter	=<0.005 %	0.004 %
Chlorine compounds (as Cl)	=<0.003 %	=<0.003 %
Sulfur compounds (as S)	=<0.002 %	=<0.002 %
Heavy metals (as Pb)	=<5 ppm	=<5 ppm
Iron (Fe)	=<5 ppm	=<5 ppm
Sodium (Na)	=<0.005 %	=<0.005 %



C. Wygaerts, QA Manager Issued: 05-30-2022

Acros Organics BV
ENA23, zone1, nr 1350, Janssen Pharmaceuticalaan 3a, B-2440 Geel, Belgium
Tel +32 14/57.52.11 - Fax+32 14/59.34.34 Internet: https://www.thermofisher.com
1 Reagent Lane, Fair Lawn, NJ 07410, USA Fax 201-796-1329

Reagent

WC_IC_C_Br_00009

CERTIFIED WEIGHT REPORT:

Part Number: **54107**
Lot Number: **031824**
Description: **Bromide (Br^-)**

Expiration Date: 031827
Recommended Storage: Refrigerate (4 ºC)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB

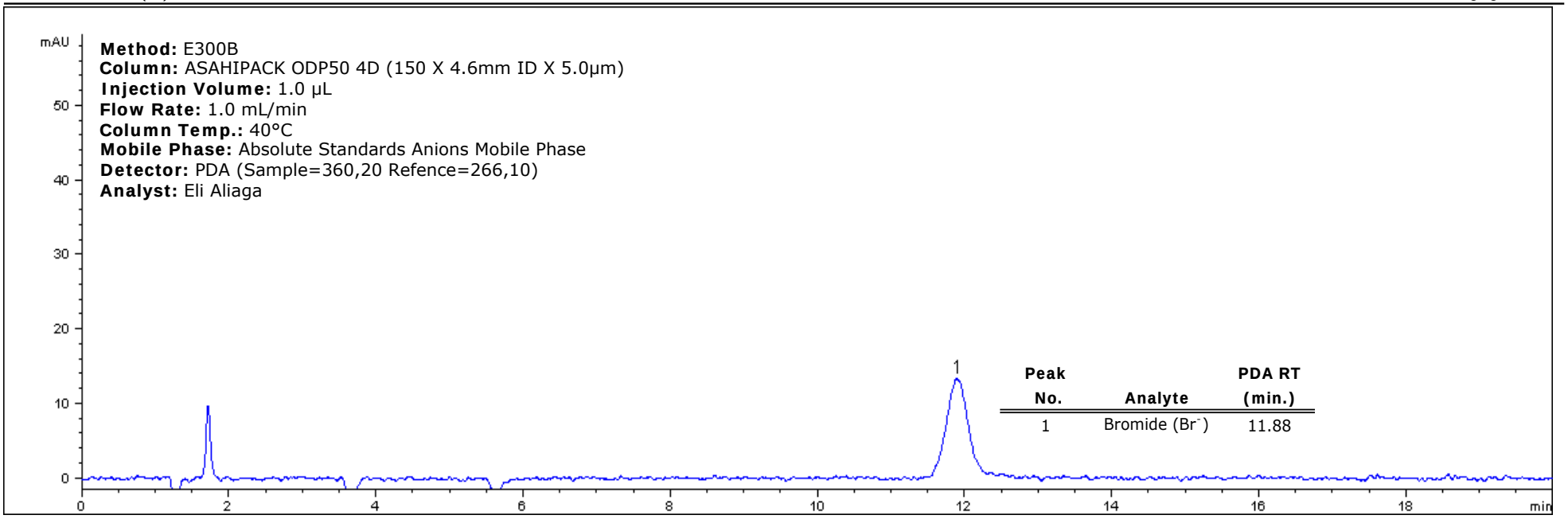
Lot #
Solvent: 031824 ASTM Type 1 Water

5E-05 Balance Uncertainty

Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

Formulated By:	Benson Chan	031824
Reviewed By:	Pedro L. Rentas	031824

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium bromide (Br)	IN093	MKBS8981V	1000	99.0	0.10	77.7	5.2031	5.2032	**1000.0**	**2.0**	7647-15-6	NA	orl-rat 3500mg/kg	3184



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_C_Cl_00012

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Ion Chromatography Solution
Catalog Number:	ICCL1
Lot Number:	U2-CL731103
Matrix:	H2O
Value / Analyte(s):	1 000 µg/mL ea: Chloride
Starting Material:	Potassium Chloride
Starting Material Lot#:	2389
Starting Material Purity:	99.8400%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1003 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**1003 ± 5 µg/mL** Fajans NIST SRM 999c Lot Number: 999c
Assay Method #2	**1002 ± 4 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2
Assay Method #3	**1003 ± 2 µg/mL** IC Assay NIST SRM 3182 Lot Number: 190830

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

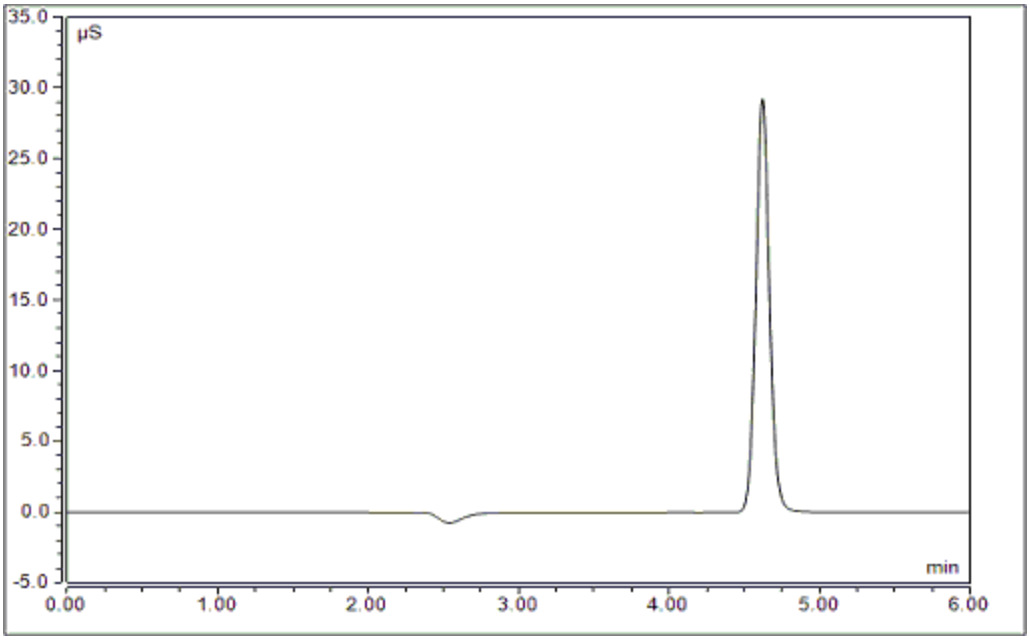
4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 CHROMATOGRAM



Thermo Dionex Aquion IC

Analytical Column:	IonPac AS22 4 x 250 mm	**Eluent:**	4.5 mM Na2CO3 / 1.4mM NaHCO3
Guard Column:	IonPac AG22 4 x 50 mm	**Eluent Flow Rate:**	1.2mL/min
Anion Self Regen Suppressor/ Chemical Suppression:	AERS 500 4 mm	**Column Temp:**	20°C
		Cell Temp:	35°C
Cation Self Regen Suppressor/ Chemical Suppression:	N/A	**Scale X-Axis:**	minutes
		Scale Y-Axis:	35µS/cm
		Concentration:	20µg/g
Suppressor Current/ Chemical Suppressant:	41mA		

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 29, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 29, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

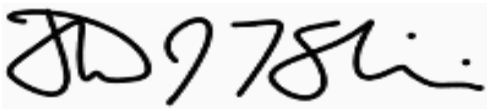
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

WC_IC_C_F_00010

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Ion Chromatography Solution
Catalog Number:	ICF1
Lot Number:	V2-F740739
Matrix:	H2O
Value / Analyte(s):	1 000 µg/mL ea: Fluoride
Starting Material:	Sodium fluoride
Starting Material Lot#:	2399
Starting Material Purity:	99.3600%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1000 ± 3 µg/mL

Density: 1.001 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **1000 ± 2 µg/mL**
IC Assay NIST SRM 3183 Lot Number: 140203

Assay Method #2 **1001 ± 4 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

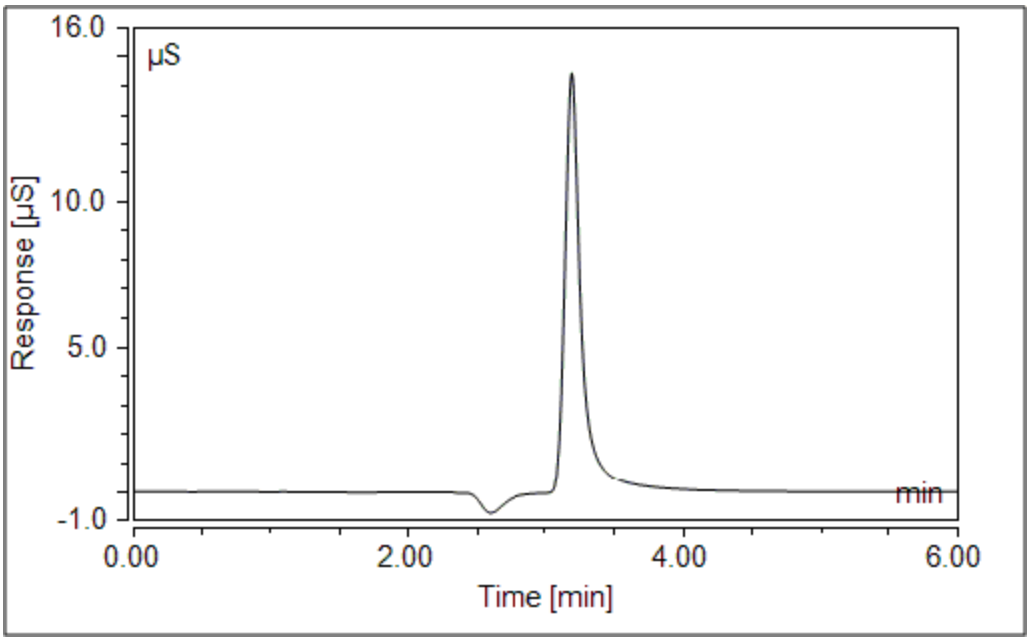
4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 CHROMATOGRAM



Thermo Dionex Aquion IC

Analytical Column:	IonPac AS22 4 x 250 mm	**Eluent:**	4.5 mM Na2CO3 / 1.4mM NaHCO3
Guard Column:	IonPac AG22 4 x 50 mm	**Eluent Flow Rate:**	1.2mL/min
Anion Self Regen Suppressor/ Chemical Suppression:	AERS 500 4 mm	**Column Temp:**	20°C
		Cell Temp:	35°C
		Scale X-Axis:	minutes
Cation Self Regen Suppressor/ Chemical Suppression:	N/A	**Scale Y-Axis:**	16µS/cm
		Concentration:	10µg/g
Suppressor Current/ Chemical Suppressant:	41mA		

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 22, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 22, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

WC_IC_C_NO2_00007

CERTIFIED WEIGHT REPORT:

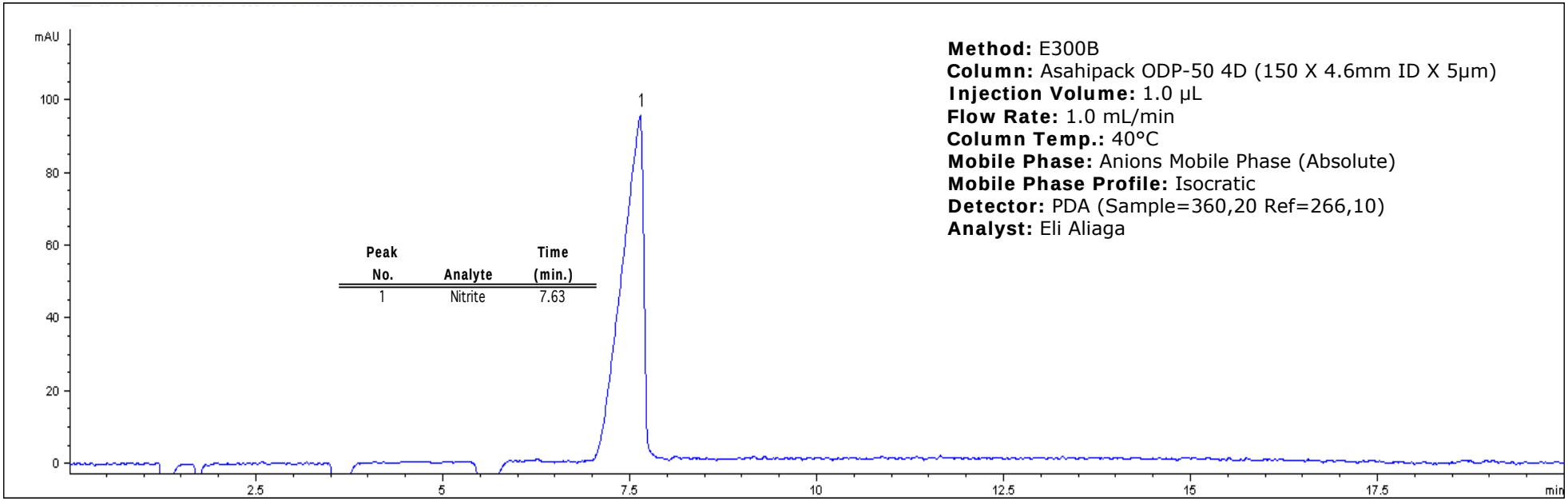
Part Number: 54104
Lot Number: 081023
Description: Nitrite (NO_2^-) as N

Lot #
Solvent: 081023 ASTM Type 1 Water

Expiration Date: 081026
Recommended Storage: Refrigerate (4 ºC)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.0 0.058 Flask Uncertainty

Formulated By:	Benson Chan	081023
Reviewed By:	Pedro L. Rentas	081023

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrite (N)	IN089	MKCS0948	1000	99.7	0.10	20.3	19.7736	19.7751	**1000.1**	**2.0**	7632-00-0	NA	orl-rat 186mg/kg	NA



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_C_NO3_00009

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

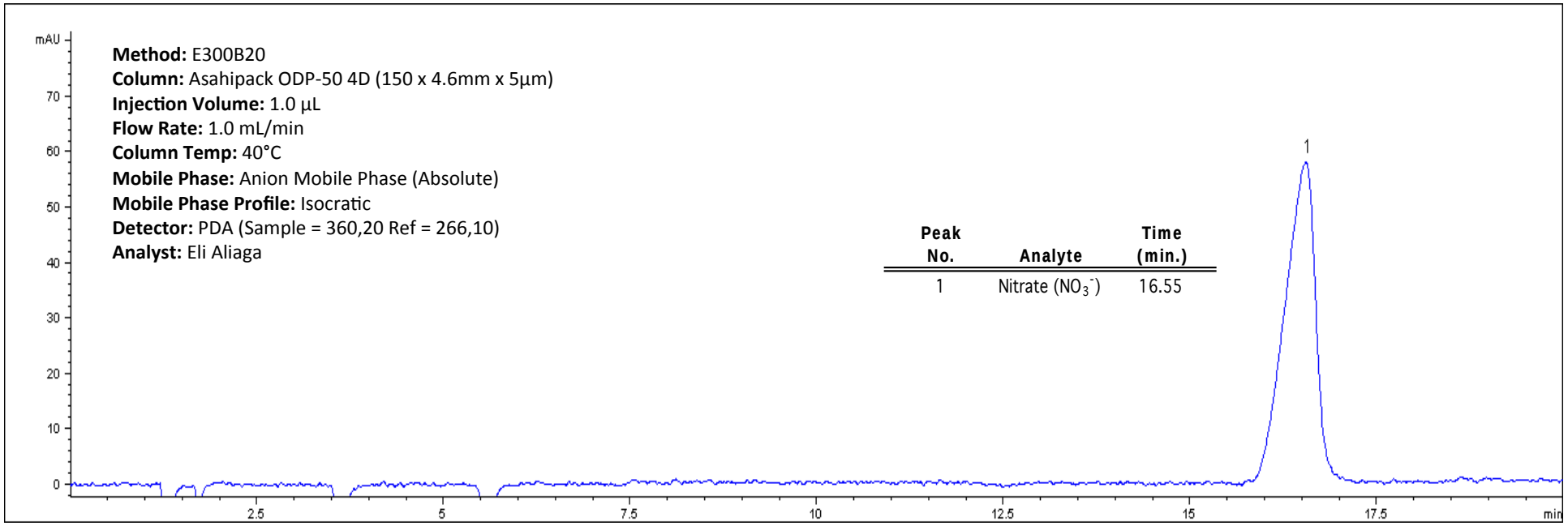
Part Number: **54103**
Lot Number: **072424**
Description: **Nitrate (NO_3^-) as N**

Expiration Date: 072427
Recommended Storage: Refrigerate (4 ºC)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

Lot #
Solvent: 072424 ASTM Type 1 Water

Formulated By:	Benson Chan	072424
Reviewed By:	Pedro L. Rentas	072424

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (N)	IN138	MKCQ7907	1000	99.1	0.10	16.5	24.4928	24.4940	**1000.0**	**2.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3185



Method: E300B20
Column: Asahipack ODP-50 4D (150 x 4.6mm x 5µm)
Injection Volume: 1.0 µL
Flow Rate: 1.0 mL/min
Column Temp: 40°C
Mobile Phase: Anion Mobile Phase (Absolute)
Mobile Phase Profile: Isocratic
Detector: PDA (Sample = 360,20 Ref = 266,10)
Analyst: Eli Aliaga

Peak No.	Analyte	Time (min.)
1	Nitrate (NO_3^-)	16.55

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_Q_CI_00016

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

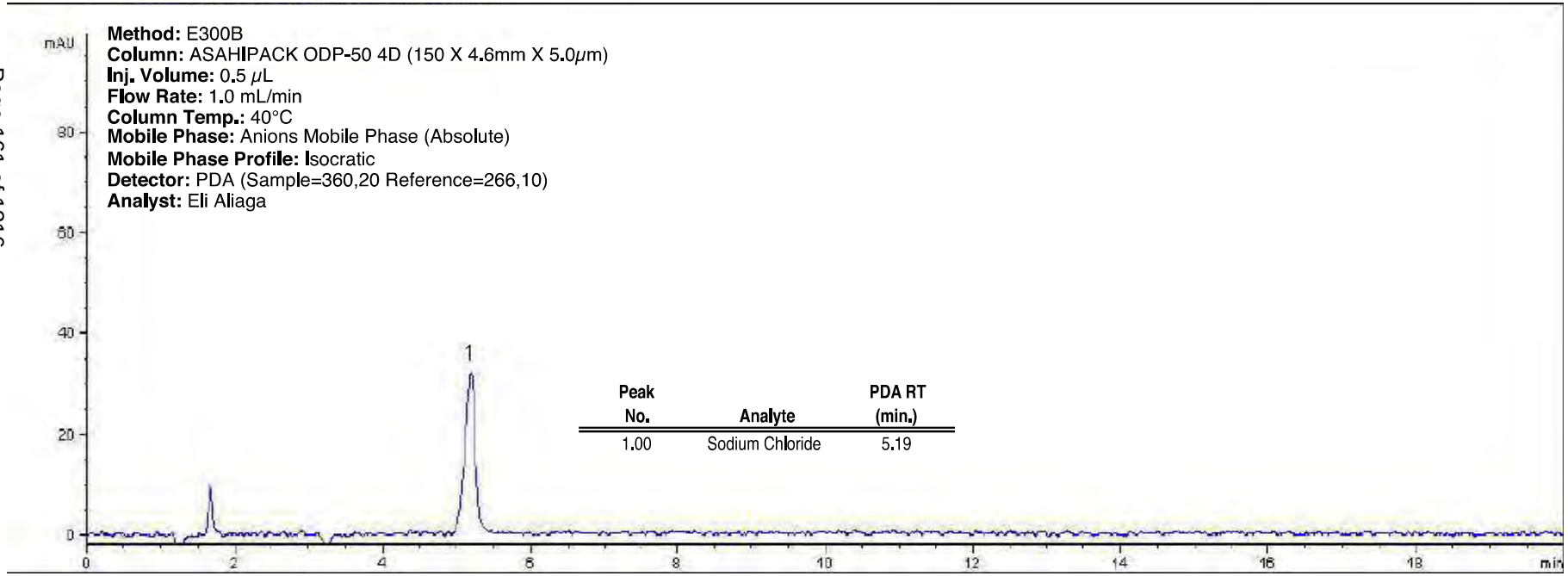
Part Number: 54101
Lot Number: 031125
Description: Chloride (Cl^-)

Solvent: Lot # 031125 ASTM Type 1 Water

Formulated By:	Benson Chan	031125
Reviewed By:	Pedro L. Rentas	031125

Expiration Date: 031128
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium chloride (Cl)	IN090	317765	1000	99.6	0.10	60.7	6.6164	6.6176	**1000.2**	**2.0**	7647-14-5	NA	NA	3182



Method: E300B
Column: ASAHIPACK ODP-50 4D (150 X 4.6mm X 5.0µm)
Inj. Volume: 0.5 µL
Flow Rate: 1.0 mL/min
Column Temp.: 40°C
Mobile Phase: Anions Mobile Phase (Absolute)
Mobile Phase Profile: Isocratic
Detector: PDA (Sample=360,20 Reference=266,10)
Analyst: Eli Aliaga

Peak No.	Analyte	PDA RT (min.)
1.00	Sodium Chloride	5.19

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_Q_NO3_00007

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

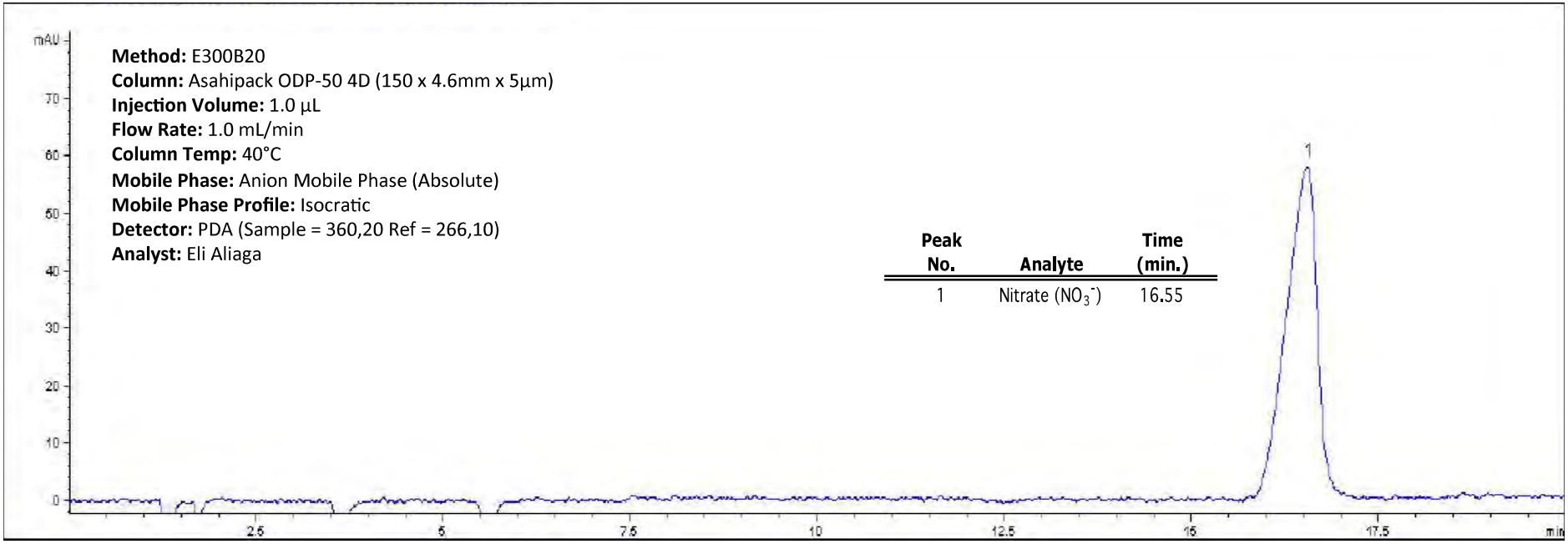
Part Number: 54103
Lot Number: 102924
Description: Nitrate (NO_3^-) as N

Solvent: Lot # 102924 ASTM Type 1 Water

Expiration Date: 102927
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

Formulated By:	Aleah O'Brady	102924
Reviewed By:	Pedro L. Rentas	102924

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (N)	IN138	MKCQ7907	1000	99.1	0.10	16.5	24.4928	24.4935	**1000.0**	**2.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3185



Method: E300B20
Column: Asahipack ODP-50 4D (150 x 4.6mm x 5µm)
Injection Volume: 1.0 µL
Flow Rate: 1.0 mL/min
Column Temp: 40°C
Mobile Phase: Anion Mobile Phase (Absolute)
Mobile Phase Profile: Isocratic
Detector: PDA (Sample = 360,20 Ref = 266,10)
Analyst: Eli Aliaga

Peak No.	Analyte	Time (min.)
1	Nitrate (NO_3^-)	16.55

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_Q_SO4_00018

CERTIFIED WEIGHT REPORT:

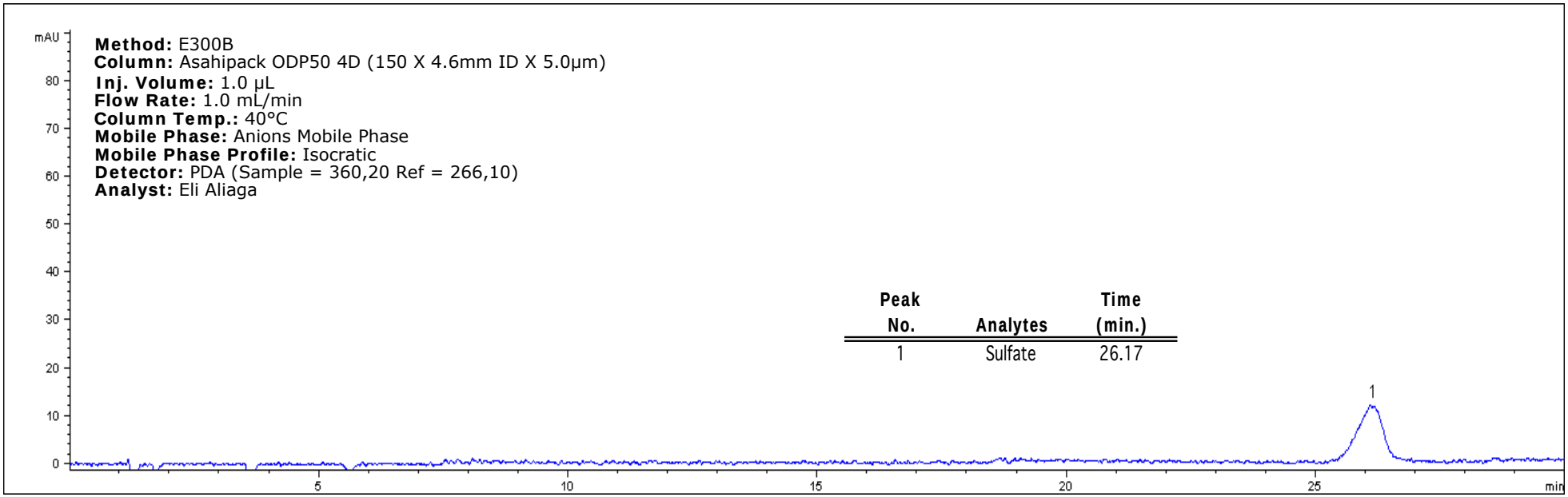
Part Number: **54506**
Lot Number: **061024**
Description: **Sulfate (SO_4^{2-})**

Expiration Date: 061027
Recommended Storage: Refrigerate (4 ºC)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

Lot #
Solvent: 061024 ASTM Type 1 Water

Formulated By:	Aleah O'Brady	061024
Reviewed By:	Pedro L. Rentas	061024

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium sulfate (SO4)	IN091	MKCS1079	1000	99.9	0.10	55.1	7.2669	7.2673	**1000.0**	**2.0**	7778-80-5	NA	orl-rat >2000 mg/kg	3181



Method: E300B
Column: Asahipack ODP50 4D (150 X 4.6mm ID X 5.0µm)
Inj. Volume: 1.0 µL
Flow Rate: 1.0 mL/min
Column Temp.: 40°C
Mobile Phase: Anions Mobile Phase
Mobile Phase Profile: Isocratic
Detector: PDA (Sample = 360,20 Ref = 266,10)
Analyst: Eli Aliaga

Peak No.	Analytes	Time (min.)
1	Sulfate	26.17

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_Q_SO4_00019

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

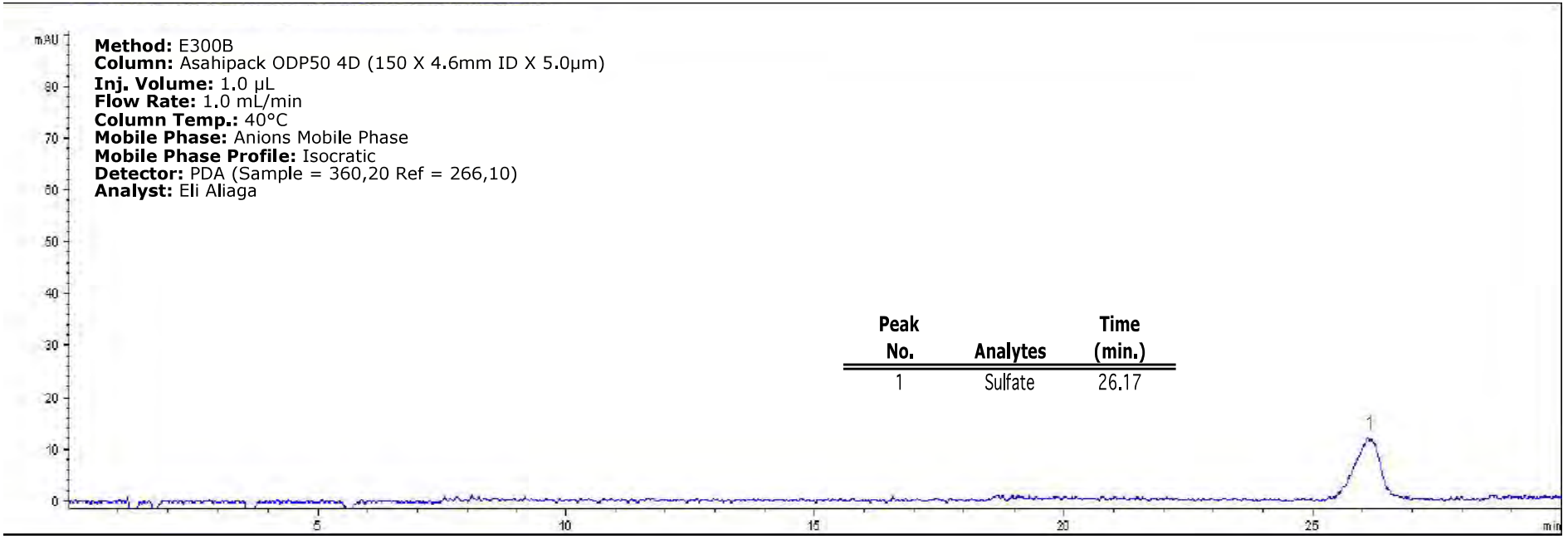
Part Number: 54506
Lot Number: 050525
Description: Sulfate (SO_4^{2-})

Expiration Date: 050528
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

	Lot #	
Solvent:	050525	ASTM Type 1 Water

Formulated By:	Aleah O'Brady	050525
Reviewed By:	Pedro L. Rentas	050525

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium sulfate (SO4)	IN091	MKCT0953	1000	99.9	0.10	55.1	7.2669	7.2671	**1000.0**	**2.0**	7778-80-5	NA	orl-rat >2000 mg/kg	3181



Method: E300B
Column: Asahipack ODP50 4D (150 X 4.6mm ID X 5.0µm)
Inj. Volume: 1.0 µL
Flow Rate: 1.0 mL/min
Column Temp.: 40°C
Mobile Phase: Anions Mobile Phase
Mobile Phase Profile: Isocratic
Detector: PDA (Sample = 360,20 Ref = 266,10)
Analyst: Eli Aliaga

Peak No.	Analytes	Time (min.)
1	Sulfate	26.17

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware, and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated by an ISO17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994). Rev 1.0, 2/25/2025

Reagent

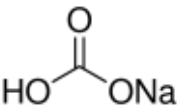
WC_TC_Q_BCarb_00008

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Sodium bicarbonate - ACS reagent, ≥99.7%

Product Number:	**S6014**
Batch Number:	**SLCL6650**
Brand:	SIGALD
CAS Number:	144-55-8
MDL Number:	MFCD00003528
Formula:	NaHCO3
Formula Weight:	84.01 g/mol
Quality Release Date:	02 NOV 2021
Recommended Retest Date:	NOV 2026



Test	Specification	Result
Ammonium (NH4) < /= 5 ppm	Conforms	Conforms
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Assay	99.7 - 100.3 %	100.1 %
Calcium (Ca) < /= 0.02%	Conforms	Conforms
Chloride (Cl) < /= 0.003%	Conforms	Conforms
Heavy Metals by ICP-OES	< = 5 ppm	< 5 ppm
Infrared Spectrum	Conforms to Structure	Conforms
Insoluble Matter < /= 0.015%	Conforms	Conforms
Iron (Fe) < /= 0.001%	Conforms	Conforms
Magnesium (Mg) < /= 0.005%	Conforms	Conforms
Note ACS tests	----------	----------
Phosphate (PO4) < /= 0.001%	Conforms	Conforms
Potassium (K) < /= 0.005%	Conforms	Conforms

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Number: **S6014**
Batch Number: **SLCL6650**

Test	Specification	Result
Sulfur Compounds (SO4) < /= 0.003%	Conforms	Conforms

Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Reagent

WC_TC_Q_Carb_00011

LabChem
Part of TCP Analytical Group
Jackson's Pointe Commerce Park- Building 1000
1010 Jackson's Pointe Court, Zelienople, PA 16063

Certificate of Analysis

Sodium Carbonate Anhydrous ACS

Product Code: **LC22965**

Manufacture Date: April 25, 2025

Lot Number: **45040435**

Test	Specification	Result
Appearance (color)	white	white
Assay - % w/w	>= 99.5 % w/w	99.8% w/w
Calcium (Ca)	<= 0.03 %	<0.01%
Iron (Fe)	<= 5 ppm	<5ppm
Magnesium (Mg)	<= 0.005 %	<0.001%
Potassium (K)	<= 0.005 %	<0.001%
Loss on Heating @ 285°C	<= 1.0 %	<0.4%
Chloride	<= 0.02 %	<0.01%
Heavy Metals (Pb)	<= 5 ppm	<5ppm
Insoluble Matter and NH4OH ppt	<= 0.01 %	<0.01%
Phosphate (PO4)	<= 0.001 %	<0.001%
Silica (SiO2)	<= 0.005 %	<0.005%
Sulfur compounds (as SO4)	<= 0.003 %	<0.003%

Intended Use *- Product is intended for use in manufacturing procedures and laboratory procedures and protocols.*

Storage Information *- Unless noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.*

Instructions for Handling and Use - *Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.*

Preparation - *All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST*

The suffix of the product code may differ from what is on your product label. The suffix will designate the size and be associated with a numeric digit(s). Visit LabChem.com for more information

Suffix	1	2	3/3S/36/36S	4/4C	5	6	7	8	9	20	44	200	246	486
Size	500mL or g	1L or 1kg	2.5L/2.5L Coated/6x2.5L/6x2.5L Coated	4L	20L	10L	125mL	25g	100g	20x20mL	4x4L	200L	24x6mL	48x6mL

Michael Monteleone

Michael Monteleone
Chemistry Supervisor - Quality Control

ISO9001:2015 Registration #0306-01

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-VRX ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-104I/250812	620-28538-1	106	110	100	101
MW-104I/250812 DL	620-28538-1 DL	110	112	100	99
MW-104E/250812	620-28538-2	107	110	99	100
MW-101I/250812	620-28538-3	109	112	100	98
MW-101I/250812 DL	620-28538-3 DL	109	111	101	97
MW-100I/250812	620-28538-4	107	111	100	100
MW-100I/250812 DL	620-28538-4 DL	111	112	100	99
MW-103ER/250812	620-28538-5	108	111	98	99
MW-103B/250812	620-28538-6	107	110	98	100
MW-102ER/250812	620-28538-7	108	109	98	98
DUP/250812	620-28538-8	108	110	98	99
DUP/250812 DL	620-28538-8 DL	109	111	99	99
FB/250812	620-28538-9	108	110	98	99
TB/250812	620-28538-10	108	110	100	100
	MB 620-52091/7	104	106	95	96
	MB 620-52137/6	106	106	98	99
	LCS 620-52091/4	103	103	101	104
	LCS 620-52137/4	106	105	102	102
	LCSD 620-52091/5	104	102	101	102
	LCSD 620-52137/5	105	104	101	103

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081425-26.D

Lab ID: LCS 620-52091/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	21.4	107	72-120	
Acetone	20.0	22.0	110	19-144	
Acrylonitrile	20.0	22.5	113	67-141	
Benzene	20.0	20.3	102	82-120	
Bromobenzene	20.0	21.9	110	80-115	
Bromochloromethane	20.0	21.8	109	84-119	
Bromodichloromethane	20.0	24.0	120	77-118	*
Bromoform	20.0	22.5	112	68-130	
Bromomethane	20.0	18.0	90	27-151	
2-Butanone (MEK)	20.0	20.8	104	32-126	
n-Butylbenzene	20.0	24.4	122	81-129	
sec-Butylbenzene	20.0	23.8	119	81-124	
tert-Butylbenzene	20.0	24.1	121	80-128	
Carbon disulfide	20.0	21.4	107	67-136	
Carbon tetrachloride	20.0	30.1	150	70-129	*
Chlorobenzene	20.0	20.6	103	82-112	
Chloroethane	20.0	18.6	93	47-142	
Chloroform	20.0	21.4	107	77-126	
Chloromethane	20.0	14.6	73	26-159	
2-Chlorotoluene	20.0	22.7	114	82-122	
4-Chlorotoluene	20.0	22.7	114	79-123	
1,2-Dibromo-3-Chloropropane	20.0	22.0	110	64-117	
Dibromochloromethane	20.0	20.5	102	71-126	
1,2-Dibromoethane (EDB)	20.0	22.7	113	83-122	
Dibromomethane	20.0	22.2	111	83-117	
1,2-Dichlorobenzene	20.0	21.7	109	87-118	
1,3-Dichlorobenzene	20.0	22.0	110	83-122	
1,4-Dichlorobenzene	20.0	20.7	104	81-115	
Dichlorodifluoromethane (Freon 12)	20.0	18.2	91	21-147	
1,1-Dichloroethane	20.0	20.6	103	84-122	
1,2-Dichloroethane	20.0	21.1	105	69-121	
1,1-Dichloroethene	20.0	21.1	106	83-123	
cis-1,2-Dichloroethene	20.0	21.9	110	85-122	
trans-1,2-Dichloroethene	20.0	20.5	102	84-123	
1,2-Dichloropropane	20.0	20.9	105	80-124	
1,3-Dichloropropane	20.0	21.8	109	80-118	
2,2-Dichloropropane	20.0	23.1	115	74-125	
1,1-Dichloropropene	20.0	21.7	109	76-120	
cis-1,3-Dichloropropene	20.0	21.7	109	76-125	
trans-1,3-Dichloropropene	20.0	21.9	109	77-132	

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 Rhode Island Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081425-26.D

Lab ID: LCS 620-52091/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethylbenzene	20.0	23.3	116	85-116	
Hexachlorobutadiene	20.0	21.7	108	70-127	
2-Hexanone (MBK)	20.0	20.4	102	40-130	
Isopropylbenzene	20.0	22.0	110	78-122	
4-Isopropyltoluene	20.0	23.8	119	80-121	
Methyl tert-butyl ether	20.0	20.7	104	72-126	
4-Methyl-2-pentanone (MIBK)	20.0	20.7	104	59-130	
Methylene Chloride	20.0	20.5	103	77-124	
Naphthalene	20.0	19.6	98	57-133	
N-Propylbenzene	20.0	21.6	108	86-124	
Styrene	20.0	24.3	122	80-121	*
1,1,1,2-Tetrachloroethane	20.0	21.7	109	81-113	
1,1,2,2-Tetrachloroethane	20.0	21.9	109	74-115	
Tetrachloroethene	20.0	21.8	109	78-124	
Toluene	20.0	21.3	106	83-114	
1,2,3-Trichlorobenzene	20.0	22.3	112	73-128	
1,2,4-Trichlorobenzene	20.0	22.9	114	74-128	
1,3,5-Trichlorobenzene	20.0	22.1	111	81-124	
1,1,1-Trichloroethane	20.0	23.3	117	76-124	
1,1,2-Trichloroethane	20.0	21.7	108	83-120	
Trichloroethene	20.0	21.2	106	79-113	
Trichlorofluoromethane (Freon 11)	20.0	21.2	106	68-130	
1,2,3-Trichloropropane	20.0	22.1	111	74-116	
1,2,4-Trimethylbenzene	20.0	24.0	120	83-121	
1,3,5-Trimethylbenzene	20.0	23.9	120	82-125	
Vinyl chloride	20.0	20.2	101	49-145	
m,p-Xylene	20.0	24.7	123	82-128	
o-Xylene	20.0	24.2	121	83-122	
Tetrahydrofuran	20.0	21.6	108	59-134	
Ethyl ether	20.0	20.6	103	74-119	
Tert-amyl methyl ether	20.0	20.4	102	70-122	
Ethyl tert-butyl ether	20.0	21.5	108	72-122	
di-Isopropyl ether	20.0	21.1	106	66-130	
tert-Butanol	200	255	127	60-146	
trans-1,4-Dichloro-2-butene	20.0	21.2	106	57-146	
Ethanol	400	595	149	53-150	

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 Rhode Island Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081425-04.D

Lab ID: LCS 620-52137/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	20.7	103	72-120	
Acetone	20.0	17.6	88	19-144	
Acrylonitrile	20.0	19.1	95	67-141	
Benzene	20.0	19.0	95	82-120	
Bromobenzene	20.0	20.5	102	80-115	
Bromochloromethane	20.0	20.4	102	84-119	
Bromodichloromethane	20.0	24.0	120	77-118	*
Bromoform	20.0	21.0	105	68-130	
Bromomethane	20.0	19.5	98	27-151	
2-Butanone (MEK)	20.0	15.8	79	32-126	
n-Butylbenzene	20.0	21.7	108	81-129	
sec-Butylbenzene	20.0	21.7	109	81-124	
tert-Butylbenzene	20.0	21.7	109	80-128	
Carbon disulfide	20.0	19.4	97	67-136	
Carbon tetrachloride	20.0	40.3	202	70-129	*
Chlorobenzene	20.0	19.9	99	82-112	
Chloroethane	20.0	21.6	108	47-142	
Chloroform	20.0	20.8	104	77-126	
Chloromethane	20.0	15.9	79	26-159	
2-Chlorotoluene	20.0	21.0	105	82-122	
4-Chlorotoluene	20.0	21.7	108	79-123	
1,2-Dibromo-3-Chloropropane	20.0	17.7	88	64-117	
Dibromochloromethane	20.0	19.4	97	71-126	
1,2-Dibromoethane (EDB)	20.0	20.8	104	83-122	
Dibromomethane	20.0	20.3	101	83-117	
1,2-Dichlorobenzene	20.0	19.6	98	87-118	
1,3-Dichlorobenzene	20.0	20.1	101	83-122	
1,4-Dichlorobenzene	20.0	19.3	96	81-115	
Dichlorodifluoromethane (Freon 12)	20.0	17.6	88	21-147	
1,1-Dichloroethane	20.0	19.6	98	84-122	
1,2-Dichloroethane	20.0	19.9	99	69-121	
1,1-Dichloroethene	20.0	19.7	99	83-123	
cis-1,2-Dichloroethene	20.0	20.2	101	85-122	
trans-1,2-Dichloroethene	20.0	18.9	94	84-123	
1,2-Dichloropropane	20.0	19.3	97	80-124	
1,3-Dichloropropane	20.0	20.0	100	80-118	
2,2-Dichloropropane	20.0	22.7	114	74-125	
1,1-Dichloropropene	20.0	20.2	101	76-120	
cis-1,3-Dichloropropene	20.0	20.5	103	76-125	
trans-1,3-Dichloropropene	20.0	20.2	101	77-132	

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 Rhode Island Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081425-04.D

Lab ID: LCS 620-52137/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethylbenzene	20.0	21.4	107	85-116	
Hexachlorobutadiene	20.0	18.8	94	70-127	
2-Hexanone (MBK)	20.0	15.0	75	40-130	
Isopropylbenzene	20.0	20.3	102	78-122	
4-Isopropyltoluene	20.0	21.6	108	80-121	
Methyl tert-butyl ether	20.0	19.3	97	72-126	
4-Methyl-2-pentanone (MIBK)	20.0	14.7	73	59-130	
Methylene Chloride	20.0	19.4	97	77-124	
Naphthalene	20.0	15.1	76	57-133	
N-Propylbenzene	20.0	19.8	99	86-124	
Styrene	20.0	22.2	111	80-121	
1,1,1,2-Tetrachloroethane	20.0	20.9	105	81-113	
1,1,2,2-Tetrachloroethane	20.0	19.2	96	74-115	
Tetrachloroethene	20.0	20.2	101	78-124	
Toluene	20.0	19.9	100	83-114	
1,2,3-Trichlorobenzene	20.0	18.2	91	73-128	
1,2,4-Trichlorobenzene	20.0	19.2	96	74-128	
1,3,5-Trichlorobenzene	20.0	19.4	97	81-124	
1,1,1-Trichloroethane	20.0	24.4	122	76-124	
1,1,2-Trichloroethane	20.0	20.0	100	83-120	
Trichloroethene	20.0	20.8	104	79-113	
Trichlorofluoromethane (Freon 11)	20.0	21.0	105	68-130	
1,2,3-Trichloropropane	20.0	19.3	97	74-116	
1,2,4-Trimethylbenzene	20.0	22.1	111	83-121	
1,3,5-Trimethylbenzene	20.0	22.1	111	82-125	
Vinyl chloride	20.0	18.8	94	49-145	
m,p-Xylene	20.0	22.6	113	82-128	
o-Xylene	20.0	22.4	112	83-122	
Tetrahydrofuran	20.0	17.5	88	59-134	
Ethyl ether	20.0	18.7	94	74-119	
Tert-amyl methyl ether	20.0	18.0	90	70-122	
Ethyl tert-butyl ether	20.0	19.1	96	72-122	
di-Isopropyl ether	20.0	19.2	96	66-130	
tert-Butanol	200	172	86	60-146	
trans-1,4-Dichloro-2-butene	20.0	18.5	93	57-146	
Ethanol	400	431	108	53-150	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081425-27.D

Lab ID: LCSD 620-52091/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	21.2	106	1	20	72-120	
Acetone	20.0	20.0	100	10	20	19-144	
Acrylonitrile	20.0	23.4	117	4	20	67-141	
Benzene	20.0	20.0	100	2	20	82-120	
Bromobenzene	20.0	21.8	109	1	20	80-115	
Bromochloromethane	20.0	21.8	109	0	20	84-119	
Bromodichloromethane	20.0	23.5	118	2	20	77-118	
Bromoform	20.0	22.1	110	2	20	68-130	
Bromomethane	20.0	18.1	91	1	20	27-151	
2-Butanone (MEK)	20.0	20.4	102	2	20	32-126	
n-Butylbenzene	20.0	24.2	121	1	20	81-129	
sec-Butylbenzene	20.0	23.5	118	1	20	81-124	
tert-Butylbenzene	20.0	23.6	118	2	20	80-128	
Carbon disulfide	20.0	20.7	104	3	20	67-136	
Carbon tetrachloride	20.0	30.1	150	0	20	70-129	*
Chlorobenzene	20.0	20.6	103	0	20	82-112	
Chloroethane	20.0	18.7	93	1	20	47-142	
Chloroform	20.0	21.2	106	1	20	77-126	
Chloromethane	20.0	14.5	73	1	20	26-159	
2-Chlorotoluene	20.0	22.3	111	2	20	82-122	
4-Chlorotoluene	20.0	22.1	110	3	20	79-123	
1,2-Dibromo-3-Chloropropane	20.0	22.2	111	1	20	64-117	
Dibromochloromethane	20.0	20.5	102	0	20	71-126	
1,2-Dibromoethane (EDB)	20.0	22.9	114	1	20	83-122	
Dibromomethane	20.0	22.1	110	0	20	83-117	
1,2-Dichlorobenzene	20.0	21.5	107	1	20	87-118	
1,3-Dichlorobenzene	20.0	21.6	108	2	20	83-122	
1,4-Dichlorobenzene	20.0	20.3	101	2	20	81-115	
Dichlorodifluoromethane (Freon 12)	20.0	18.1	91	0	20	21-147	
1,1-Dichloroethane	20.0	20.5	103	0	20	84-122	
1,2-Dichloroethane	20.0	21.0	105	0	20	69-121	
1,1-Dichloroethene	20.0	21.1	106	0	20	83-123	
cis-1,2-Dichloroethene	20.0	21.4	107	2	20	85-122	
trans-1,2-Dichloroethene	20.0	20.7	103	1	20	84-123	
1,2-Dichloropropane	20.0	20.6	103	1	20	80-124	
1,3-Dichloropropane	20.0	21.7	108	1	20	80-118	
2,2-Dichloropropane	20.0	22.8	114	1	20	74-125	
1,1-Dichloropropene	20.0	21.7	108	0	20	76-120	
cis-1,3-Dichloropropene	20.0	21.9	110	1	20	76-125	
trans-1,3-Dichloropropene	20.0	22.2	111	2	20	77-132	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081425-27.D

Lab ID: LCSD 620-52091/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Ethylbenzene	20.0	23.3	116	0	20	85-116	
Hexachlorobutadiene	20.0	21.6	108	0	20	70-127	
2-Hexanone (MBK)	20.0	18.5	92	10	20	40-130	
Isopropylbenzene	20.0	21.2	106	4	20	78-122	
4-Isopropyltoluene	20.0	23.2	116	2	20	80-121	
Methyl tert-butyl ether	20.0	21.4	107	3	20	72-126	
4-Methyl-2-pentanone (MIBK)	20.0	20.7	103	0	20	59-130	
Methylene Chloride	20.0	20.1	101	2	20	77-124	
Naphthalene	20.0	19.5	98	1	20	57-133	
N-Propylbenzene	20.0	21.2	106	2	20	86-124	
Styrene	20.0	24.1	121	1	20	80-121	
1,1,1,2-Tetrachloroethane	20.0	21.7	109	0	20	81-113	
1,1,2,2-Tetrachloroethane	20.0	22.3	112	2	20	74-115	
Tetrachloroethene	20.0	21.6	108	1	20	78-124	
Toluene	20.0	20.9	104	2	20	83-114	
1,2,3-Trichlorobenzene	20.0	22.3	112	0	20	73-128	
1,2,4-Trichlorobenzene	20.0	23.0	115	0	20	74-128	
1,3,5-Trichlorobenzene	20.0	22.1	110	0	20	81-124	
1,1,1-Trichloroethane	20.0	23.5	118	1	20	76-124	
1,1,2-Trichloroethane	20.0	22.1	110	2	20	83-120	
Trichloroethene	20.0	21.5	107	1	20	79-113	
Trichlorofluoromethane (Freon 11)	20.0	20.6	103	3	20	68-130	
1,2,3-Trichloropropane	20.0	22.0	110	1	20	74-116	
1,2,4-Trimethylbenzene	20.0	23.8	119	1	20	83-121	
1,3,5-Trimethylbenzene	20.0	23.8	119	0	20	82-125	
Vinyl chloride	20.0	19.2	96	5	20	49-145	
m,p-Xylene	20.0	24.4	122	1	20	82-128	
o-Xylene	20.0	23.8	119	2	20	83-122	
Tetrahydrofuran	20.0	21.7	109	1	20	59-134	
Ethyl ether	20.0	20.7	104	1	20	74-119	
Tert-amyl methyl ether	20.0	20.5	102	1	20	70-122	
Ethyl tert-butyl ether	20.0	21.7	108	1	20	72-122	
di-Isopropyl ether	20.0	20.8	104	2	20	66-130	
tert-Butanol	200	252	126	1	20	60-146	
trans-1,4-Dichloro-2-butene	20.0	20.7	103	3	20	57-146	
Ethanol	400	523	131	13	20	53-150	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081425-05.D

Lab ID: LCSD 620-52137/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	19.5	98	6	20	72-120	
Acetone	20.0	14.2	71	22	20	19-144	*
Acrylonitrile	20.0	19.1	95	0	20	67-141	
Benzene	20.0	18.7	94	1	20	82-120	
Bromobenzene	20.0	20.3	101	1	20	80-115	
Bromochloromethane	20.0	20.5	102	0	20	84-119	
Bromodichloromethane	20.0	23.1	116	4	20	77-118	
Bromoform	20.0	20.8	104	1	20	68-130	
Bromomethane	20.0	19.2	96	1	20	27-151	
2-Butanone (MEK)	20.0	14.0	70	12	20	32-126	
n-Butylbenzene	20.0	21.5	108	1	20	81-129	
sec-Butylbenzene	20.0	21.3	106	2	20	81-124	
tert-Butylbenzene	20.0	21.3	107	2	20	80-128	
Carbon disulfide	20.0	18.9	95	2	20	67-136	
Carbon tetrachloride	20.0	40.0	200	1	20	70-129	*
Chlorobenzene	20.0	19.7	99	1	20	82-112	
Chloroethane	20.0	21.3	107	1	20	47-142	
Chloroform	20.0	20.2	101	3	20	77-126	
Chloromethane	20.0	15.4	77	3	20	26-159	
2-Chlorotoluene	20.0	20.7	104	1	20	82-122	
4-Chlorotoluene	20.0	21.1	106	3	20	79-123	
1,2-Dibromo-3-Chloropropane	20.0	18.5	93	5	20	64-117	
Dibromochloromethane	20.0	19.4	97	0	20	71-126	
1,2-Dibromoethane (EDB)	20.0	20.3	102	2	20	83-122	
Dibromomethane	20.0	20.0	100	1	20	83-117	
1,2-Dichlorobenzene	20.0	19.4	97	1	20	87-118	
1,3-Dichlorobenzene	20.0	20.1	100	0	20	83-122	
1,4-Dichlorobenzene	20.0	18.8	94	2	20	81-115	
Dichlorodifluoromethane (Freon 12)	20.0	17.0	85	4	20	21-147	
1,1-Dichloroethane	20.0	19.3	96	2	20	84-122	
1,2-Dichloroethane	20.0	19.4	97	2	20	69-121	
1,1-Dichloroethene	20.0	19.3	96	2	20	83-123	
cis-1,2-Dichloroethene	20.0	20.2	101	0	20	85-122	
trans-1,2-Dichloroethene	20.0	19.8	99	5	20	84-123	
1,2-Dichloropropane	20.0	19.3	97	0	20	80-124	
1,3-Dichloropropane	20.0	19.9	99	1	20	80-118	
2,2-Dichloropropane	20.0	22.5	113	1	20	74-125	
1,1-Dichloropropene	20.0	20.4	102	1	20	76-120	
cis-1,3-Dichloropropene	20.0	20.6	103	0	20	76-125	
trans-1,3-Dichloropropene	20.0	20.2	101	0	20	77-132	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081425-05.D

Lab ID: LCSD 620-52137/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Ethylbenzene	20.0	21.3	106	1	20	85-116	
Hexachlorobutadiene	20.0	18.0	90	5	20	70-127	
2-Hexanone (MBK)	20.0	14.0	70	7	20	40-130	
Isopropylbenzene	20.0	19.9	100	2	20	78-122	
4-Isopropyltoluene	20.0	21.3	106	2	20	80-121	
Methyl tert-butyl ether	20.0	19.7	98	2	20	72-126	
4-Methyl-2-pentanone (MIBK)	20.0	15.0	75	2	20	59-130	
Methylene Chloride	20.0	19.3	96	1	20	77-124	
Naphthalene	20.0	15.3	76	1	20	57-133	
N-Propylbenzene	20.0	19.9	99	0	20	86-124	
Styrene	20.0	22.2	111	0	20	80-121	
1,1,1,2-Tetrachloroethane	20.0	20.5	103	2	20	81-113	
1,1,2,2-Tetrachloroethane	20.0	19.4	97	1	20	74-115	
Tetrachloroethene	20.0	20.0	100	1	20	78-124	
Toluene	20.0	19.8	99	1	20	83-114	
1,2,3-Trichlorobenzene	20.0	17.9	89	2	20	73-128	
1,2,4-Trichlorobenzene	20.0	19.1	95	0	20	74-128	
1,3,5-Trichlorobenzene	20.0	19.2	96	1	20	81-124	
1,1,1-Trichloroethane	20.0	24.5	123	0	20	76-124	
1,1,2-Trichloroethane	20.0	19.8	99	1	20	83-120	
Trichloroethene	20.0	19.6	98	6	20	79-113	
Trichlorofluoromethane (Freon 11)	20.0	20.4	102	3	20	68-130	
1,2,3-Trichloropropane	20.0	19.4	97	0	20	74-116	
1,2,4-Trimethylbenzene	20.0	21.9	110	1	20	83-121	
1,3,5-Trimethylbenzene	20.0	21.8	109	2	20	82-125	
Vinyl chloride	20.0	18.4	92	2	20	49-145	
m,p-Xylene	20.0	22.7	113	0	20	82-128	
o-Xylene	20.0	22.3	111	0	20	83-122	
Tetrahydrofuran	20.0	17.7	89	1	20	59-134	
Ethyl ether	20.0	17.9	89	5	20	74-119	
Tert-amyl methyl ether	20.0	18.1	90	0	20	70-122	
Ethyl tert-butyl ether	20.0	19.5	98	2	20	72-122	
di-Isopropyl ether	20.0	19.3	96	0	20	66-130	
tert-Butanol	200	179	89	4	20	60-146	
trans-1,4-Dichloro-2-butene	20.0	18.3	92	1	20	57-146	
Ethanol	400	372	93	15	20	53-150	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab File ID: V4-081425-29.D Lab Sample ID: MB 620-52091/7

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

Instrument ID: HPV4 Date Analyzed: 08/14/2025 19:29

GC Column: DB-VRX ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 620-52091/4	V4-081425-26.D	08/14/2025 18:18
	LCSD 620-52091/5	V4-081425-27.D	08/14/2025 18:42
TB/250812	620-28538-10	V4-081425-30.D	08/14/2025 19:52
MW-104I/250812	620-28538-1	V4-081425-31.D	08/14/2025 20:15
MW-104E/250812	620-28538-2	V4-081425-32.D	08/14/2025 20:38
MW-101I/250812	620-28538-3	V4-081425-33.D	08/14/2025 21:01
MW-100I/250812	620-28538-4	V4-081425-34.D	08/14/2025 21:24
MW-103ER/250812	620-28538-5	V4-081425-35.D	08/14/2025 21:47
MW-103B/250812	620-28538-6	V4-081425-36.D	08/14/2025 22:10
MW-102ER/250812	620-28538-7	V4-081425-37.D	08/14/2025 22:33
DUP/250812	620-28538-8	V4-081425-38.D	08/14/2025 22:56
FB/250812	620-28538-9	V4-081425-39.D	08/14/2025 23:19

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab File ID: V4-081425-06.D Lab Sample ID: MB 620-52137/6

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

Instrument ID: HPV4 Date Analyzed: 08/15/2025 08:52

GC Column: DB-VRX ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 620-52137/4	V4-081425-04.D	08/15/2025 08:06
	LCSD 620-52137/5	V4-081425-05.D	08/15/2025 08:29
MW-104I/250812 DL	620-28538-1 DL	V4-081425-09.D	08/15/2025 10:01
MW-101I/250812 DL	620-28538-3 DL	V4-081425-10.D	08/15/2025 10:24
MW-100I/250812 DL	620-28538-4 DL	V4-081425-11.D	08/15/2025 10:47
DUP/250812 DL	620-28538-8 DL	V4-081425-12.D	08/15/2025 11:10

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

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab File ID: V4-080725-02.D BFB Injection Date: 08/07/2025

Instrument ID: HPV4 BFB Injection Time: 08:22

Analysis Batch No.: 51723

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.6	
75	30.0 - 60.0 % of mass 95	53.8	
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	(0.6) 1
174	Greater than 50% of mass 95	79.7	
175	5.0 - 9.0 % of mass 174	6.0	(7.5) 1
176	95.0 - 101.0 % of mass 174	80.1	(100.6) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.6) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 620-51723/3	V4-080725-03.	08/07/2025	8:50
	IC 620-51723/4	V4-080725-04.	08/07/2025	9:12
	IC 620-51723/5	V4-080725-05.	08/07/2025	9:35
	IC 620-51723/6	V4-080725-06.	08/07/2025	9:58
	IC 620-51723/7	V4-080725-07.	08/07/2025	10:21
	ICIS 620-51723/8	V4-080725-08.	08/07/2025	10:44
	IC 620-51723/9	V4-080725-09.	08/07/2025	11:07
	IC 620-51723/10	V4-080725-10.	08/07/2025	11:30
	IC 620-51723/11	V4-080725-11.	08/07/2025	11:53
	ICV 620-51723/16	V4-080725-16.	08/07/2025	15:14

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

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab File ID: V4-081425-24.D BFB Injection Date: 08/14/2025

Instrument ID: HPV4 BFB Injection Time: 17:31

Analysis Batch No.: 52091

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.7	
75	30.0 - 60.0 % of mass 95	53.8	
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	87.3	
175	5.0 - 9.0 % of mass 174	6.3	(7.3) 1
176	95.0 - 101.0 % of mass 174	86.8	(99.4) 1
177	5.0 - 9.0 % of mass 176	5.7	(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 620-52091/3	V4-081425-25.	08/14/2025	17:54
	LCS 620-52091/4	V4-081425-26.	08/14/2025	18:18
	LCSD 620-52091/5	V4-081425-27.	08/14/2025	18:42
	MB 620-52091/7	V4-081425-29.	08/14/2025	19:29
TB/250812	620-28538-10	V4-081425-30.	08/14/2025	19:52
MW-104I/250812	620-28538-1	V4-081425-31.	08/14/2025	20:15
MW-104E/250812	620-28538-2	V4-081425-32.	08/14/2025	20:38
MW-101I/250812	620-28538-3	V4-081425-33.	08/14/2025	21:01
MW-100I/250812	620-28538-4	V4-081425-34.	08/14/2025	21:24
MW-103ER/250812	620-28538-5	V4-081425-35.	08/14/2025	21:47
MW-103B/250812	620-28538-6	V4-081425-36.	08/14/2025	22:10
MW-102ER/250812	620-28538-7	V4-081425-37.	08/14/2025	22:33
DUP/250812	620-28538-8	V4-081425-38.	08/14/2025	22:56
FB/250812	620-28538-9	V4-081425-39.	08/14/2025	23:19

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

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab File ID: V4-081425-02.D BFB Injection Date: 08/15/2025

Instrument ID: HPV4 BFB Injection Time: 07:21

Analysis Batch No.: 52137

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.4	
75	30.0 - 60.0 % of mass 95	55.4	
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	81.7	
175	5.0 - 9.0 % of mass 174	5.9	(7.3) 1
176	95.0 - 101.0 % of mass 174	81.4	(99.6) 1
177	5.0 - 9.0 % of mass 176	5.6	(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 620-52137/3	V4-081425-03.	08/15/2025	7:44
	LCS 620-52137/4	V4-081425-04.	08/15/2025	8:06
	LCSD 620-52137/5	V4-081425-05.	08/15/2025	8:29
	MB 620-52137/6	V4-081425-06.	08/15/2025	8:52
MW-104I/250812 DL	620-28538-1 DL	V4-081425-09.	08/15/2025	10:01
MW-101I/250812 DL	620-28538-3 DL	V4-081425-10.	08/15/2025	10:24
MW-100I/250812 DL	620-28538-4 DL	V4-081425-11.	08/15/2025	10:47
DUP/250812 DL	620-28538-8 DL	V4-081425-12.	08/15/2025	11:10

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

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Sample No.: ICIS 620-51723/8 Date Analyzed: 08/07/2025 10:44

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm)

Lab File ID (Standard): V4-080725-08.D Heated Purge: (Y/N) N

Calibration ID: 10515

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		346631	4.64	249731	9.04	147217	11.55
UPPER LIMIT		693262	5.14	499462	9.54	294434	12.05
LOWER LIMIT		173316	4.14	124866	8.54	73609	11.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 620-51723/16		365585	4.64	267914	9.04	152256	11.55

FB = Fluorobenzene
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 Rhode Island Job No.: 620-28538-1

SDG No.:

Sample No.: CCVIS 620-52091/3 Date Analyzed: 08/14/2025 17:54

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm)

Lab File ID (Standard): V4-081425-25.D Heated Purge: (Y/N) N

Calibration ID: 10515

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		300866	4.65	223056	9.04	133505	11.55
UPPER LIMIT		601732	5.15	446112	9.54	267010	12.05
LOWER LIMIT		150433	4.15	111528	8.54	66753	11.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 620-52091/4		305698	4.65	223834	9.04	131013	11.55
LCSD 620-52091/5		307036	4.65	225035	9.04	131893	11.55
MB 620-52091/7		304863	4.66	205801	9.04	111666	11.55
620-28538-10	TB/250812	280827	4.65	200844	9.04	115364	11.55
620-28538-1	MW-104I/250812	279576	4.65	196908	9.04	111336	11.55
620-28538-2	MW-104E/250812	277148	4.65	197188	9.04	111860	11.55
620-28538-3	MW-101I/250812	275723	4.65	197722	9.04	110325	11.55
620-28538-4	MW-100I/250812	279893	4.65	196247	9.04	111622	11.55
620-28538-5	MW-103ER/250812	273309	4.65	192420	9.04	110037	11.55
620-28538-6	MW-103B/250812	285820	4.65	199101	9.04	113453	11.55
620-28538-7	MW-102ER/250812	277254	4.65	195285	9.04	111912	11.55
620-28538-8	DUP/250812	273789	4.65	188939	9.04	106626	11.55
620-28538-9	FB/250812	272371	4.65	188895	9.04	108795	11.55

FB = Fluorobenzene
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 Rhode Island Job No.: 620-28538-1

SDG No.:

Sample No.: CCVIS 620-52137/3 Date Analyzed: 08/15/2025 07:44

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm)

Lab File ID (Standard): V4-081425-03.D Heated Purge: (Y/N) N

Calibration ID: 10515

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		285310	4.64	205979	9.04	126429	11.55
UPPER LIMIT		570620	5.14	411958	9.54	252858	12.05
LOWER LIMIT		142655	4.14	102990	8.54	63215	11.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 620-52137/4		291700	4.65	210317	9.04	125073	11.55
LCSD 620-52137/5		298510	4.65	215530	9.04	127365	11.55
MB 620-52137/6		290770	4.65	201871	9.04	114542	11.55
620-28538-1 DL	MW-104I/250812 DL	268735	4.65	188351	9.04	108218	11.55
620-28538-3 DL	MW-101I/250812 DL	264430	4.65	185750	9.04	106059	11.55
620-28538-4 DL	MW-100I/250812 DL	259214	4.65	184654	9.04	104654	11.55
620-28538-8 DL	DUP/250812 DL	268015	4.65	186066	9.04	107569	11.55

FB = Fluorobenzene
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 Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-104I/250812 | Lab Sample ID: 620-28538-1

Matrix: Water | Lab File ID: V4-081425-31.D

Analysis Method: 8260C | Date Collected: 08/12/2025 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 20:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	5.6	J	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U *	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	9.3		1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	2.0		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-104I/250812 | Lab Sample ID: 620-28538-1

Matrix: Water | Lab File ID: V4-081425-31.D

Analysis Method: 8260C | Date Collected: 08/12/2025 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 20:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	*cis-1,2-Dichloroethene*	*120*	*E*	*1.0*	*0.30*
156-60-5	trans-1,2-Dichloroethene	3.9		1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U *	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	16		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-104I/250812 | Lab Sample ID: 620-28538-1

Matrix: Water | Lab File ID: V4-081425-31.D

Analysis Method: 8260C | Date Collected: 08/12/2025 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 20:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	26		1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-104I/250812 DL | Lab Sample ID: 620-28538-1 DL

Matrix: Water | Lab File ID: V4-081425-09.D

Analysis Method: 8260C | Date Collected: 08/12/2025 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 10:01

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	10	U	10	2.0
67-64-1	Acetone	100	U *	100	9.0
107-13-1	Acrylonitrile	10	U	10	3.6
71-43-2	Benzene	10	U	10	2.5
108-86-1	Bromobenzene	10	U	10	4.0
74-97-5	Bromochloromethane	10	U	10	3.9
75-27-4	Bromodichloromethane	5.0	U *	5.0	3.3
75-25-2	Bromoform	10	U	10	4.5
74-83-9	Bromomethane	20	U	20	6.3
78-93-3	2-Butanone (MEK)	20	U	20	5.8
104-51-8	n-Butylbenzene	10	U	10	4.5
135-98-8	sec-Butylbenzene	10	U	10	4.0
98-06-6	tert-Butylbenzene	10	U	10	4.0
75-15-0	Carbon disulfide	20	U	20	4.4
56-23-5	Carbon tetrachloride	10	U *	10	2.5
108-90-7	Chlorobenzene	10	U	10	4.2
75-00-3	Chloroethane	20	U	20	4.1
67-66-3	Chloroform	10	U	10	3.0
74-87-3	Chloromethane	20	U	20	4.9
95-49-8	2-Chlorotoluene	10	U	10	4.3
106-43-4	4-Chlorotoluene	10	U	10	4.2
96-12-8	1,2-Dibromo-3-Chloropropane	20	U	20	5.1
124-48-1	Dibromochloromethane	5.0	U	5.0	3.3
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	5.0	3.4
74-95-3	Dibromomethane	10	U	10	3.6
95-50-1	1,2-Dichlorobenzene	10	U	10	4.8
541-73-1	1,3-Dichlorobenzene	10	U	10	5.0
106-46-7	1,4-Dichlorobenzene	10	U	10	4.9
75-71-8	Dichlorodifluoromethane (Freon 12)	20	U	20	2.9
75-34-3	1,1-Dichloroethane	8.1	J	10	3.6
107-06-2	1,2-Dichloroethane	10	U	10	2.6
75-35-4	1,1-Dichloroethene	10	U	10	3.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-104I/250812 DL | Lab Sample ID: 620-28538-1 DL

Matrix: Water | Lab File ID: V4-081425-09.D

Analysis Method: 8260C | Date Collected: 08/12/2025 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 10:01

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	98		10	3.0
156-60-5	trans-1,2-Dichloroethene	2.8	J	10	1.9
78-87-5	1,2-Dichloropropane	10	U	10	3.6
142-28-9	1,3-Dichloropropane	10	U	10	3.2
594-20-7	2,2-Dichloropropane	10	U	10	4.9
563-58-6	1,1-Dichloropropene	10	U	10	2.9
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	3.0
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	3.7
100-41-4	Ethylbenzene	10	U	10	3.6
87-68-3	Hexachlorobutadiene	10	U	10	2.4
591-78-6	2-Hexanone (MBK)	20	U	20	6.9
98-82-8	Isopropylbenzene	10	U	10	3.8
99-87-6	4-Isopropyltoluene	10	U	10	4.3
1634-04-4	Methyl tert-butyl ether	10	U	10	2.6
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U	20	3.5
75-09-2	Methylene Chloride	20	U	20	5.4
91-20-3	Naphthalene	20	U	20	7.0
103-65-1	N-Propylbenzene	10	U	10	3.6
100-42-5	Styrene	10	U	10	4.2
630-20-6	1,1,1,2-Tetrachloroethane	10	U	10	3.7
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	4.6
127-18-4	Tetrachloroethene	10	U	10	3.6
108-88-3	Toluene	10	U	10	2.8
87-61-6	1,2,3-Trichlorobenzene	10	U	10	7.4
120-82-1	1,2,4-Trichlorobenzene	10	U	10	7.0
108-70-3	1,3,5-Trichlorobenzene	10	U	10	5.4
71-55-6	1,1,1-Trichloroethane	10	U	10	3.3
79-00-5	1,1,2-Trichloroethane	10	U	10	3.5
79-01-6	Trichloroethene	13		10	3.6
75-69-4	Trichlorofluoromethane (Freon 11)	10	U	10	2.3
96-18-4	1,2,3-Trichloropropane	10	U	10	5.1
95-63-6	1,2,4-Trimethylbenzene	10	U	10	4.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-104I/250812 DL | Lab Sample ID: 620-28538-1 DL

Matrix: Water | Lab File ID: V4-081425-09.D

Analysis Method: 8260C | Date Collected: 08/12/2025 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 10:01

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	*1,3,5-Trimethylbenzene*	*10*	*U*	*10*	*4.5*
75-01-4	*Vinyl chloride*	*22*		*10*	*2.6*
179601-23-1	*m,p-Xylene*	*10*	*U*	*10*	*7.8*
95-47-6	*o-Xylene*	*10*	*U*	*10*	*4.3*
109-99-9	*Tetrahydrofuran*	*20*	*U*	*20*	*7.0*
60-29-7	*Ethyl ether*	*10*	*U*	*10*	*4.2*
994-05-8	*Tert-amyl methyl ether*	*10*	*U*	*10*	*2.6*
637-92-3	*Ethyl tert-butyl ether*	*10*	*U*	*10*	*2.9*
108-20-3	*di-Isopropyl ether*	*10*	*U*	*10*	*2.6*
75-65-0	*tert-Butanol*	*100*	*U*	*100*	*85*
110-57-6	*trans-1,4-Dichloro-2-butene*	*50*	*U*	*50*	*8.1*
64-17-5	*Ethanol*	*2000*	*U*	*2000*	*91*

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		70-130
1868-53-7	Dibromofluoromethane (Surr)	110		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-104E/250812 | Lab Sample ID: 620-28538-2

Matrix: Water | Lab File ID: V4-081425-32.D

Analysis Method: 8260C | Date Collected: 08/12/2025 12:50

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 20:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	10	U	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U *	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	4.4		1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-104E/250812 | Lab Sample ID: 620-28538-2

Matrix: Water | Lab File ID: V4-081425-32.D

Analysis Method: 8260C | Date Collected: 08/12/2025 12:50

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 20:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	4.4		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	0.65	J	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U *	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	0.63	J	1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-104E/250812 | Lab Sample ID: 620-28538-2

Matrix: Water | Lab File ID: V4-081425-32.D

Analysis Method: 8260C | Date Collected: 08/12/2025 12:50

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 20:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	5.6		1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-101I/250812 | Lab Sample ID: 620-28538-3

Matrix: Water | Lab File ID: V4-081425-33.D

Analysis Method: 8260C | Date Collected: 08/12/2025 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 21:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	3.9	J	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U *	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.86	J	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-101I/250812 | Lab Sample ID: 620-28538-3

Matrix: Water | Lab File ID: V4-081425-33.D

Analysis Method: 8260C | Date Collected: 08/12/2025 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 21:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	22		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.5		1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U *	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	0.87	J	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	*Trichloroethene*	*170*	*E*	*1.0*	*0.36*
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-101I/250812 | Lab Sample ID: 620-28538-3

Matrix: Water | Lab File ID: V4-081425-33.D

Analysis Method: 8260C | Date Collected: 08/12/2025 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 21:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	4.1		1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		70-130
1868-53-7	Dibromofluoromethane (Surr)	109		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-101I/250812 DL | Lab Sample ID: 620-28538-3 DL

Matrix: Water | Lab File ID: V4-081425-10.D

Analysis Method: 8260C | Date Collected: 08/12/2025 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 10:24

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	10	U	10	2.0
67-64-1	Acetone	11	J *	100	9.0
107-13-1	Acrylonitrile	10	U	10	3.6
71-43-2	Benzene	10	U	10	2.5
108-86-1	Bromobenzene	10	U	10	4.0
74-97-5	Bromochloromethane	10	U	10	3.9
75-27-4	Bromodichloromethane	5.0	U *	5.0	3.3
75-25-2	Bromoform	10	U	10	4.5
74-83-9	Bromomethane	20	U	20	6.3
78-93-3	2-Butanone (MEK)	20	U	20	5.8
104-51-8	n-Butylbenzene	10	U	10	4.5
135-98-8	sec-Butylbenzene	10	U	10	4.0
98-06-6	tert-Butylbenzene	10	U	10	4.0
75-15-0	Carbon disulfide	20	U	20	4.4
56-23-5	Carbon tetrachloride	10	U *	10	2.5
108-90-7	Chlorobenzene	10	U	10	4.2
75-00-3	Chloroethane	20	U	20	4.1
67-66-3	Chloroform	10	U	10	3.0
74-87-3	Chloromethane	20	U	20	4.9
95-49-8	2-Chlorotoluene	10	U	10	4.3
106-43-4	4-Chlorotoluene	10	U	10	4.2
96-12-8	1,2-Dibromo-3-Chloropropane	20	U	20	5.1
124-48-1	Dibromochloromethane	5.0	U	5.0	3.3
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	5.0	3.4
74-95-3	Dibromomethane	10	U	10	3.6
95-50-1	1,2-Dichlorobenzene	10	U	10	4.8
541-73-1	1,3-Dichlorobenzene	10	U	10	5.0
106-46-7	1,4-Dichlorobenzene	10	U	10	4.9
75-71-8	Dichlorodifluoromethane (Freon 12)	20	U	20	2.9
75-34-3	1,1-Dichloroethane	10	U	10	3.6
107-06-2	1,2-Dichloroethane	10	U	10	2.6
75-35-4	1,1-Dichloroethene	10	U	10	3.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-101I/250812 DL | Lab Sample ID: 620-28538-3 DL

Matrix: Water | Lab File ID: V4-081425-10.D

Analysis Method: 8260C | Date Collected: 08/12/2025 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 10:24

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	18		10	3.0
156-60-5	trans-1,2-Dichloroethene	10	U	10	1.9
78-87-5	1,2-Dichloropropane	10	U	10	3.6
142-28-9	1,3-Dichloropropane	10	U	10	3.2
594-20-7	2,2-Dichloropropane	10	U	10	4.9
563-58-6	1,1-Dichloropropene	10	U	10	2.9
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	3.0
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	3.7
100-41-4	Ethylbenzene	10	U	10	3.6
87-68-3	Hexachlorobutadiene	10	U	10	2.4
591-78-6	2-Hexanone (MBK)	20	U	20	6.9
98-82-8	Isopropylbenzene	10	U	10	3.8
99-87-6	4-Isopropyltoluene	10	U	10	4.3
1634-04-4	Methyl tert-butyl ether	10	U	10	2.6
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U	20	3.5
75-09-2	Methylene Chloride	20	U	20	5.4
91-20-3	Naphthalene	20	U	20	7.0
103-65-1	N-Propylbenzene	10	U	10	3.6
100-42-5	Styrene	10	U	10	4.2
630-20-6	1,1,1,2-Tetrachloroethane	10	U	10	3.7
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	4.6
127-18-4	Tetrachloroethene	10	U	10	3.6
108-88-3	Toluene	10	U	10	2.8
87-61-6	1,2,3-Trichlorobenzene	10	U	10	7.4
120-82-1	1,2,4-Trichlorobenzene	10	U	10	7.0
108-70-3	1,3,5-Trichlorobenzene	10	U	10	5.4
71-55-6	1,1,1-Trichloroethane	10	U	10	3.3
79-00-5	1,1,2-Trichloroethane	10	U	10	3.5
79-01-6	Trichloroethene	140		10	3.6
75-69-4	Trichlorofluoromethane (Freon 11)	10	U	10	2.3
96-18-4	1,2,3-Trichloropropane	10	U	10	5.1
95-63-6	1,2,4-Trimethylbenzene	10	U	10	4.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-101I/250812 DL | Lab Sample ID: 620-28538-3 DL

Matrix: Water | Lab File ID: V4-081425-10.D

Analysis Method: 8260C | Date Collected: 08/12/2025 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 10:24

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	*1,3,5-Trimethylbenzene*	*10*	*U*	*10*	*4.5*
75-01-4	*Vinyl chloride*	*10*	*U*	*10*	*2.6*
179601-23-1	*m,p-Xylene*	*10*	*U*	*10*	*7.8*
95-47-6	*o-Xylene*	*10*	*U*	*10*	*4.3*
109-99-9	*Tetrahydrofuran*	*20*	*U*	*20*	*7.0*
60-29-7	*Ethyl ether*	*10*	*U*	*10*	*4.2*
994-05-8	*Tert-amyl methyl ether*	*10*	*U*	*10*	*2.6*
637-92-3	*Ethyl tert-butyl ether*	*10*	*U*	*10*	*2.9*
108-20-3	*di-Isopropyl ether*	*10*	*U*	*10*	*2.6*
75-65-0	*tert-Butanol*	*100*	*U*	*100*	*85*
110-57-6	*trans-1,4-Dichloro-2-butene*	*50*	*U*	*50*	*8.1*
64-17-5	*Ethanol*	*2000*	*U*	*2000*	*91*

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		70-130
1868-53-7	Dibromofluoromethane (Surr)	109		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-100I/250812 | Lab Sample ID: 620-28538-4

Matrix: Water | Lab File ID: V4-081425-34.D

Analysis Method: 8260C | Date Collected: 08/12/2025 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 21:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	4.0	J	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	2.9	*	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	6.7		1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	4.6		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-100I/250812 | Lab Sample ID: 620-28538-4

Matrix: Water | Lab File ID: V4-081425-34.D

Analysis Method: 8260C | Date Collected: 08/12/2025 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 21:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	*cis-1,2-Dichloroethene*	*340*	*E*	*1.0*	*0.30*
156-60-5	trans-1,2-Dichloroethene	6.5		1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U *	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.9		1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	2.5		1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	*Trichloroethene*	*340*	*E*	*1.0*	*0.36*
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-100I/250812 | Lab Sample ID: 620-28538-4

Matrix: Water | Lab File ID: V4-081425-34.D

Analysis Method: 8260C | Date Collected: 08/12/2025 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 21:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	*Vinyl chloride*	*110*	*E*	*1.0*	*0.26*
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-100I/250812 DL | Lab Sample ID: 620-28538-4 DL

Matrix: Water | Lab File ID: V4-081425-11.D

Analysis Method: 8260C | Date Collected: 08/12/2025 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 10:47

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	10	U	10	2.0
67-64-1	Acetone	9.0	J *	100	9.0
107-13-1	Acrylonitrile	10	U	10	3.6
71-43-2	Benzene	10	U	10	2.5
108-86-1	Bromobenzene	10	U	10	4.0
74-97-5	Bromochloromethane	10	U	10	3.9
75-27-4	Bromodichloromethane	5.0	U *	5.0	3.3
75-25-2	Bromoform	10	U	10	4.5
74-83-9	Bromomethane	20	U	20	6.3
78-93-3	2-Butanone (MEK)	20	U	20	5.8
104-51-8	n-Butylbenzene	10	U	10	4.5
135-98-8	sec-Butylbenzene	10	U	10	4.0
98-06-6	tert-Butylbenzene	10	U	10	4.0
75-15-0	Carbon disulfide	20	U	20	4.4
56-23-5	Carbon tetrachloride	10	U *	10	2.5
108-90-7	Chlorobenzene	10	U	10	4.2
75-00-3	Chloroethane	20	U	20	4.1
67-66-3	Chloroform	10	U	10	3.0
74-87-3	Chloromethane	20	U	20	4.9
95-49-8	2-Chlorotoluene	10	U	10	4.3
106-43-4	4-Chlorotoluene	10	U	10	4.2
96-12-8	1,2-Dibromo-3-Chloropropane	20	U	20	5.1
124-48-1	Dibromochloromethane	5.0	U	5.0	3.3
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	5.0	3.4
74-95-3	Dibromomethane	10	U	10	3.6
95-50-1	1,2-Dichlorobenzene	10	U	10	4.8
541-73-1	1,3-Dichlorobenzene	10	U	10	5.0
106-46-7	1,4-Dichlorobenzene	10	U	10	4.9
75-71-8	Dichlorodifluoromethane (Freon 12)	20	U	20	2.9
75-34-3	1,1-Dichloroethane	5.7	J	10	3.6
107-06-2	1,2-Dichloroethane	10	U	10	2.6
75-35-4	1,1-Dichloroethene	10	U	10	3.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-100I/250812 DL | Lab Sample ID: 620-28538-4 DL

Matrix: Water | Lab File ID: V4-081425-11.D

Analysis Method: 8260C | Date Collected: 08/12/2025 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 10:47

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	290		10	3.0
156-60-5	*trans-1,2-Dichloroethene*	*3.5*	*J*	*10*	*1.9*
78-87-5	*1,2-Dichloropropane*	*10*	*U*	*10*	*3.6*
142-28-9	*1,3-Dichloropropane*	*10*	*U*	*10*	*3.2*
594-20-7	*2,2-Dichloropropane*	*10*	*U*	*10*	*4.9*
563-58-6	*1,1-Dichloropropene*	*10*	*U*	*10*	*2.9*
10061-01-5	*cis-1,3-Dichloropropene*	*5.0*	*U*	*5.0*	*3.0*
10061-02-6	*trans-1,3-Dichloropropene*	*5.0*	*U*	*5.0*	*3.7*
100-41-4	*Ethylbenzene*	*10*	*U*	*10*	*3.6*
87-68-3	*Hexachlorobutadiene*	*10*	*U*	*10*	*2.4*
591-78-6	*2-Hexanone (MBK)*	*20*	*U*	*20*	*6.9*
98-82-8	*Isopropylbenzene*	*10*	*U*	*10*	*3.8*
99-87-6	*4-Isopropyltoluene*	*10*	*U*	*10*	*4.3*
1634-04-4	*Methyl tert-butyl ether*	*10*	*U*	*10*	*2.6*
108-10-1	*4-Methyl-2-pentanone (MIBK)*	*20*	*U*	*20*	*3.5*
75-09-2	*Methylene Chloride*	*20*	*U*	*20*	*5.4*
91-20-3	*Naphthalene*	*20*	*U*	*20*	*7.0*
103-65-1	*N-Propylbenzene*	*10*	*U*	*10*	*3.6*
100-42-5	*Styrene*	*10*	*U*	*10*	*4.2*
630-20-6	*1,1,1,2-Tetrachloroethane*	*10*	*U*	*10*	*3.7*
79-34-5	*1,1,2,2-Tetrachloroethane*	*5.0*	*U*	*5.0*	*4.6*
127-18-4	*Tetrachloroethene*	*10*	*U*	*10*	*3.6*
108-88-3	*Toluene*	*10*	*U*	*10*	*2.8*
87-61-6	*1,2,3-Trichlorobenzene*	*10*	*U*	*10*	*7.4*
120-82-1	*1,2,4-Trichlorobenzene*	*10*	*U*	*10*	*7.0*
108-70-3	*1,3,5-Trichlorobenzene*	*10*	*U*	*10*	*5.4*
71-55-6	*1,1,1-Trichloroethane*	*10*	*U*	*10*	*3.3*
79-00-5	*1,1,2-Trichloroethane*	*10*	*U*	*10*	*3.5*
79-01-6	Trichloroethene	270		10	3.6
75-69-4	*Trichlorofluoromethane (Freon 11)*	*10*	*U*	*10*	*2.3*
96-18-4	*1,2,3-Trichloropropane*	*10*	*U*	*10*	*5.1*
95-63-6	*1,2,4-Trimethylbenzene*	*10*	*U*	*10*	*4.6*

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-100I/250812 DL | Lab Sample ID: 620-28538-4 DL

Matrix: Water | Lab File ID: V4-081425-11.D

Analysis Method: 8260C | Date Collected: 08/12/2025 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 10:47

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	*1,3,5-Trimethylbenzene*	*10*	*U*	*10*	*4.5*
75-01-4	Vinyl chloride	91		10	2.6
179601-23-1	*m,p-Xylene*	*10*	*U*	*10*	*7.8*
95-47-6	*o-Xylene*	*10*	*U*	*10*	*4.3*
109-99-9	*Tetrahydrofuran*	*20*	*U*	*20*	*7.0*
60-29-7	*Ethyl ether*	*10*	*U*	*10*	*4.2*
994-05-8	*Tert-amyl methyl ether*	*10*	*U*	*10*	*2.6*
637-92-3	*Ethyl tert-butyl ether*	*10*	*U*	*10*	*2.9*
108-20-3	*di-Isopropyl ether*	*10*	*U*	*10*	*2.6*
75-65-0	*tert-Butanol*	*100*	*U*	*100*	*85*
110-57-6	*trans-1,4-Dichloro-2-butene*	*50*	*U*	*50*	*8.1*
64-17-5	*Ethanol*	*2000*	*U*	*2000*	*91*

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		70-130
1868-53-7	Dibromofluoromethane (Surr)	111		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-103ER/250812 | Lab Sample ID: 620-28538-5

Matrix: Water | Lab File ID: V4-081425-35.D

Analysis Method: 8260C | Date Collected: 08/12/2025 13:05

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 21:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	6.4	J	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U *	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-103ER/250812 | Lab Sample ID: 620-28538-5

Matrix: Water | Lab File ID: V4-081425-35.D

Analysis Method: 8260C | Date Collected: 08/12/2025 13:05

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 21:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	3.8		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	0.30	J	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U *	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	0.79	J	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	6.5		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-103ER/250812 | Lab Sample ID: 620-28538-5

Matrix: Water | Lab File ID: V4-081425-35.D

Analysis Method: 8260C | Date Collected: 08/12/2025 13:05

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 21:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		70-130
1868-53-7	Dibromofluoromethane (Surr)	108		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-103B/250812 | Lab Sample ID: 620-28538-6

Matrix: Water | Lab File ID: V4-081425-36.D

Analysis Method: 8260C | Date Collected: 08/12/2025 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 22:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	12		10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	0.57	J	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U *	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	4.5		2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	80		1.0	0.36
107-06-2	1,2-Dichloroethane	0.75	J	1.0	0.26
75-35-4	1,1-Dichloroethene	0.67	J	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-103B/250812 | Lab Sample ID: 620-28538-6

Matrix: Water | Lab File ID: V4-081425-36.D

Analysis Method: 8260C | Date Collected: 08/12/2025 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 22:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	46		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U *	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	0.32	J	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	1.0	U	1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-103B/250812 | Lab Sample ID: 620-28538-6

Matrix: Water | Lab File ID: V4-081425-36.D

Analysis Method: 8260C | Date Collected: 08/12/2025 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 22:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	29		1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-102ER/250812 | Lab Sample ID: 620-28538-7

Matrix: Water | Lab File ID: V4-081425-37.D

Analysis Method: 8260C | Date Collected: 08/12/2025 14:45

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 22:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	10	U	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.3		1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U *	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-102ER/250812 | Lab Sample ID: 620-28538-7

Matrix: Water | Lab File ID: V4-081425-37.D

Analysis Method: 8260C | Date Collected: 08/12/2025 14:45

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 22:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	10		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U *	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	0.63	J	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	1.0	U	1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-102ER/250812 | Lab Sample ID: 620-28538-7

Matrix: Water | Lab File ID: V4-081425-37.D

Analysis Method: 8260C | Date Collected: 08/12/2025 14:45

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 22:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-130
1868-53-7	Dibromofluoromethane (Surr)	108		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: DUP/250812 | Lab Sample ID: 620-28538-8

Matrix: Water | Lab File ID: V4-081425-38.D

Analysis Method: 8260C | Date Collected: 08/12/2025 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 22:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	8.0	J	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U *	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	6.9		1.0	0.36
107-06-2	1,2-Dichloroethane	0.42	J	1.0	0.26
75-35-4	1,1-Dichloroethene	4.8		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: DUP/250812 | Lab Sample ID: 620-28538-8

Matrix: Water | Lab File ID: V4-081425-38.D

Analysis Method: 8260C | Date Collected: 08/12/2025 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 22:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	*cis-1,2-Dichloroethene*	*350*	*E*	*1.0*	*0.30*
156-60-5	trans-1,2-Dichloroethene	6.7		1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U *	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.9		1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	2.4		1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	*Trichloroethene*	*330*	*E*	*1.0*	*0.36*
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: DUP/250812 | Lab Sample ID: 620-28538-8

Matrix: Water | Lab File ID: V4-081425-38.D

Analysis Method: 8260C | Date Collected: 08/12/2025 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 22:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	*Vinyl chloride*	*120*	*E*	*1.0*	*0.26*
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-130
1868-53-7	Dibromofluoromethane (Surr)	108		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: DUP/250812 DL | Lab Sample ID: 620-28538-8 DL

Matrix: Water | Lab File ID: V4-081425-12.D

Analysis Method: 8260C | Date Collected: 08/12/2025 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 11:10

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	10	U	10	2.0
67-64-1	Acetone	19	J *	100	9.0
107-13-1	Acrylonitrile	10	U	10	3.6
71-43-2	Benzene	10	U	10	2.5
108-86-1	Bromobenzene	10	U	10	4.0
74-97-5	Bromochloromethane	10	U	10	3.9
75-27-4	Bromodichloromethane	5.0	U *	5.0	3.3
75-25-2	Bromoform	10	U	10	4.5
74-83-9	Bromomethane	20	U	20	6.3
78-93-3	2-Butanone (MEK)	20	U	20	5.8
104-51-8	n-Butylbenzene	10	U	10	4.5
135-98-8	sec-Butylbenzene	10	U	10	4.0
98-06-6	tert-Butylbenzene	10	U	10	4.0
75-15-0	Carbon disulfide	20	U	20	4.4
56-23-5	Carbon tetrachloride	10	U *	10	2.5
108-90-7	Chlorobenzene	10	U	10	4.2
75-00-3	Chloroethane	20	U	20	4.1
67-66-3	Chloroform	10	U	10	3.0
74-87-3	Chloromethane	20	U	20	4.9
95-49-8	2-Chlorotoluene	10	U	10	4.3
106-43-4	4-Chlorotoluene	10	U	10	4.2
96-12-8	1,2-Dibromo-3-Chloropropane	20	U	20	5.1
124-48-1	Dibromochloromethane	5.0	U	5.0	3.3
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	5.0	3.4
74-95-3	Dibromomethane	10	U	10	3.6
95-50-1	1,2-Dichlorobenzene	10	U	10	4.8
541-73-1	1,3-Dichlorobenzene	10	U	10	5.0
106-46-7	1,4-Dichlorobenzene	10	U	10	4.9
75-71-8	Dichlorodifluoromethane (Freon 12)	20	U	20	2.9
75-34-3	1,1-Dichloroethane	5.4	J	10	3.6
107-06-2	1,2-Dichloroethane	10	U	10	2.6
75-35-4	1,1-Dichloroethene	3.7	J	10	3.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: DUP/250812 DL | Lab Sample ID: 620-28538-8 DL

Matrix: Water | Lab File ID: V4-081425-12.D

Analysis Method: 8260C | Date Collected: 08/12/2025 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 11:10

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	300		10	3.0
156-60-5	*trans-1,2-Dichloroethene*	*3.6*	*J*	*10*	*1.9*
78-87-5	*1,2-Dichloropropane*	*10*	*U*	*10*	*3.6*
142-28-9	*1,3-Dichloropropane*	*10*	*U*	*10*	*3.2*
594-20-7	*2,2-Dichloropropane*	*10*	*U*	*10*	*4.9*
563-58-6	*1,1-Dichloropropene*	*10*	*U*	*10*	*2.9*
10061-01-5	*cis-1,3-Dichloropropene*	*5.0*	*U*	*5.0*	*3.0*
10061-02-6	*trans-1,3-Dichloropropene*	*5.0*	*U*	*5.0*	*3.7*
100-41-4	*Ethylbenzene*	*10*	*U*	*10*	*3.6*
87-68-3	*Hexachlorobutadiene*	*10*	*U*	*10*	*2.4*
591-78-6	*2-Hexanone (MBK)*	*20*	*U*	*20*	*6.9*
98-82-8	*Isopropylbenzene*	*10*	*U*	*10*	*3.8*
99-87-6	*4-Isopropyltoluene*	*10*	*U*	*10*	*4.3*
1634-04-4	*Methyl tert-butyl ether*	*10*	*U*	*10*	*2.6*
108-10-1	*4-Methyl-2-pentanone (MIBK)*	*20*	*U*	*20*	*3.5*
75-09-2	*Methylene Chloride*	*20*	*U*	*20*	*5.4*
91-20-3	*Naphthalene*	*20*	*U*	*20*	*7.0*
103-65-1	*N-Propylbenzene*	*10*	*U*	*10*	*3.6*
100-42-5	*Styrene*	*10*	*U*	*10*	*4.2*
630-20-6	*1,1,1,2-Tetrachloroethane*	*10*	*U*	*10*	*3.7*
79-34-5	*1,1,2,2-Tetrachloroethane*	*5.0*	*U*	*5.0*	*4.6*
127-18-4	*Tetrachloroethene*	*10*	*U*	*10*	*3.6*
108-88-3	*Toluene*	*10*	*U*	*10*	*2.8*
87-61-6	*1,2,3-Trichlorobenzene*	*10*	*U*	*10*	*7.4*
120-82-1	*1,2,4-Trichlorobenzene*	*10*	*U*	*10*	*7.0*
108-70-3	*1,3,5-Trichlorobenzene*	*10*	*U*	*10*	*5.4*
71-55-6	*1,1,1-Trichloroethane*	*10*	*U*	*10*	*3.3*
79-00-5	*1,1,2-Trichloroethane*	*10*	*U*	*10*	*3.5*
79-01-6	Trichloroethene	270		10	3.6
75-69-4	*Trichlorofluoromethane (Freon 11)*	*10*	*U*	*10*	*2.3*
96-18-4	*1,2,3-Trichloropropane*	*10*	*U*	*10*	*5.1*
95-63-6	*1,2,4-Trimethylbenzene*	*10*	*U*	*10*	*4.6*

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: DUP/250812 DL | Lab Sample ID: 620-28538-8 DL

Matrix: Water | Lab File ID: V4-081425-12.D

Analysis Method: 8260C | Date Collected: 08/12/2025 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 11:10

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	*1,3,5-Trimethylbenzene*	*10*	*U*	*10*	*4.5*
75-01-4	Vinyl chloride	99		10	2.6
179601-23-1	*m,p-Xylene*	*10*	*U*	*10*	*7.8*
95-47-6	*o-Xylene*	*10*	*U*	*10*	*4.3*
109-99-9	*Tetrahydrofuran*	*20*	*U*	*20*	*7.0*
60-29-7	*Ethyl ether*	*10*	*U*	*10*	*4.2*
994-05-8	*Tert-amyl methyl ether*	*10*	*U*	*10*	*2.6*
637-92-3	*Ethyl tert-butyl ether*	*10*	*U*	*10*	*2.9*
108-20-3	*di-Isopropyl ether*	*10*	*U*	*10*	*2.6*
75-65-0	*tert-Butanol*	*100*	*U*	*100*	*85*
110-57-6	*trans-1,4-Dichloro-2-butene*	*50*	*U*	*50*	*8.1*
64-17-5	*Ethanol*	*2000*	*U*	*2000*	*91*

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		70-130
1868-53-7	Dibromofluoromethane (Surr)	109		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: FB/250812 | Lab Sample ID: 620-28538-9

Matrix: Water | Lab File ID: V4-081425-39.D

Analysis Method: 8260C | Date Collected: 08/12/2025 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 23:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	5.3	J	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U *	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: FB/250812 | Lab Sample ID: 620-28538-9

Matrix: Water | Lab File ID: V4-081425-39.D

Analysis Method: 8260C | Date Collected: 08/12/2025 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 23:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U *	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	1.0	U	1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: FB/250812 | Lab Sample ID: 620-28538-9

Matrix: Water | Lab File ID: V4-081425-39.D

Analysis Method: 8260C | Date Collected: 08/12/2025 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 23:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-130
1868-53-7	Dibromofluoromethane (Surr)	108		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: TB/250812 | Lab Sample ID: 620-28538-10

Matrix: Water | Lab File ID: V4-081425-30.D

Analysis Method: 8260C | Date Collected: 08/12/2025 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 19:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	4.7	J	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U *	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: TB/250812 | Lab Sample ID: 620-28538-10

Matrix: Water | Lab File ID: V4-081425-30.D

Analysis Method: 8260C | Date Collected: 08/12/2025 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 19:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U *	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	1.0	U	1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: TB/250812 | Lab Sample ID: 620-28538-10

Matrix: Water | Lab File ID: V4-081425-30.D

Analysis Method: 8260C | Date Collected: 08/12/2025 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 19:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-130
1868-53-7	Dibromofluoromethane (Surr)	108		70-130

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-51723/3	V4-080725-03.D
Level 2	IC 620-51723/4	V4-080725-04.D
Level 3	IC 620-51723/5	V4-080725-05.D
Level 4	IC 620-51723/6	V4-080725-06.D
Level 5	IC 620-51723/7	V4-080725-07.D
Level 6	ICIS 620-51723/8	V4-080725-08.D
Level 7	IC 620-51723/9	V4-080725-09.D
Level 8	IC 620-51723/10	V4-080725-10.D
Level 9	IC 620-51723/11	V4-080725-11.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 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane (Freon 12)	0.4681 0.3997	0.4351 0.4076	0.4078 0.4015	0.3899 0.3748	0.3978	Ave		0.4092			0.0100	6.7		20.0			
Chloromethane	+++++ 0.3186	0.4254 0.3154	0.3557 0.3116	0.3408 0.2851	0.3160	Ave		0.3336			0.0500	12.8		20.0			
Vinyl chloride	0.2971 0.2513	0.2590 0.2580	0.2475 0.2478	0.2665 0.2243	0.2546	Ave		0.2562			0.0500	7.5		20.0			
Bromomethane	0.4426 0.1735	0.3008 0.1715	0.2461 0.1715	0.2081 0.1626	0.1830	Lin1	0.1468	0.1651			0.0100				0.9990		0.9900
Chloroethane	0.1492 0.1762	0.1503 0.1701	0.1738 0.1685	0.2057 0.1521	0.1670	Ave		0.1681			0.0833	10.4		20.0			
Ethanol	+++++ 0.0028	+++++ 0.0026	+++++ 0.0025	0.0025 0.0027	0.0026	Ave		0.0026			0.0023	4.4		20.0			
Trichlorofluoromethane (Freon 11)	+++++ 0.5656	0.5956 0.5785	0.5676 0.5793	0.6038 0.5478	0.5680	Ave		0.5758			0.0500	3.1		20.0			
Acetone	+++++ 0.1746	+++++ 0.1979	+++++ 0.1586	0.2235 0.1388	0.2020	Ave		0.1826			0.0870	17.0		20.0			
Ethyl ether	0.2232 0.2323	0.2213 0.2410	0.2437 0.2406	0.2376 0.2297	0.2122	Ave		0.2313			0.0500	4.6		20.0			
1,1-Dichloroethene	0.2406 0.2666	0.2586 0.2803	0.2524 0.2734	0.2712 0.2649	0.2490	Ave		0.2619			0.0500	4.9		20.0			
Iodomethane	0.1995 0.1271	0.1697 0.1479	0.1393 0.1577	0.1257 0.1661	0.1239	Qua1	0.0290	0.1280	0.0004003		0.0500				0.9980		0.9900
tert-Butanol	+++++ 0.0231	0.0220 0.0234	0.0285 0.0231	0.0231 0.0236	0.0193	Ave		0.0233			0.0080	10.9		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 Rhode Island Job No.: 620-28538-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

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 9	LVL 5		B	M1	M2								
Acrylonitrile	0.0821 0.1186	0.0971 0.1227	0.1330 0.1213	0.1195 0.1135	0.1100	Ave		0.1131			0.0430	13.5		20.0			
Methylene Chloride	+++++ 0.3421	0.5397 0.3468	0.4674 0.3382	0.3669 0.3198	0.3429	Lin1	0.2371	0.3265			0.0500				0.9990		0.9900
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.3626 0.3274	0.3398 0.3376	0.3170 0.3327	0.3084 0.3114	0.2915	Ave		0.3254			0.0500	6.4		20.0			
Methyl acetate	+++++ 0.2226	0.3078 0.2195	0.2937 0.2176	0.2332 0.2152	0.1997	Ave		0.2387			0.0500	16.6		20.0			
Carbon disulfide	1.0697 0.9353	1.0053 0.9611	0.9428 0.9430	0.9609 0.8911	0.9206	Ave		0.9589			0.0500	5.4		20.0			
trans-1,2-Dichloroethene	0.2716 0.2745	0.2760 0.2893	0.2662 0.2856	0.2888 0.2703	0.2670	Ave		0.2766			0.0500	3.3		20.0			
Methyl tert-butyl ether	0.6385 0.7271	0.6440 0.7728	0.7237 0.7696	0.7091 0.7479	0.6690	Ave		0.7113			0.0500	7.1		20.0			
1,1-Dichloroethane	0.5401 0.5461	0.5352 0.5715	0.5692 0.5578	0.5698 0.5232	0.5370	Ave		0.5500			0.0500	3.2		20.0			
2-Butanone (MEK)	+++++ 0.1016	0.0265 0.1464	0.0516 +++++	0.0888 +++++	0.1079	Qua1	-0.057	0.0854	0.0015143	*	0.0950				0.9960		0.9900
di-Isopropyl ether	0.6190 0.7797	0.6480 0.8247	0.7361 0.8078	0.7350 0.7557	0.7194	Ave		0.7361			0.0500	9.2		20.0			
cis-1,2-Dichloroethene	0.2735 0.3156	0.3021 0.3206	0.3234 0.3211	0.3250 0.3044	0.3099	Ave		0.3106			0.0500	5.2		20.0			
Bromochloromethane	0.1302 0.1537	0.1470 0.1562	0.1606 0.1528	0.1586 0.1459	0.1489	Ave		0.1504			0.0500	6.0		20.0			
Chloroform	1.8727 0.6974	1.2550 0.6982	1.0344 0.6834	0.8323 0.6445	0.7103	Lin1	0.6430	0.6575			0.0500				0.9990		0.9900
2,2-Dichloropropane	0.3246 0.3178	0.3211 0.3234	0.3159 0.3224	0.3219 0.3003	0.3125	Ave		0.3178			0.0500	2.4		20.0			
Ethyl tert-butyl ether	0.6233 0.7607	0.6205 0.8022	0.7335 0.7963	0.7267 0.7813	0.6988	Ave		0.7270			0.0500	9.4		20.0			
Tetrahydrofuran	+++++ 0.0729	0.0570 0.0765	0.0621 0.0761	0.0651 0.0782	0.0607	Ave		0.0686			0.0290	12.1		20.0			
1,2-Dichloroethane	0.5654 0.5030	0.5571 0.5044	0.5576 0.4914	0.5489 0.4691	0.4913	Ave		0.5209			0.0500	6.9		20.0			
1,1,1-Trichloroethane	0.3933 0.3896	0.4085 0.4095	0.3961 0.4061	0.3985 0.4023	0.3726	Ave		0.3974			0.0500	2.9		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 Rhode Island Job No.: 620-28538-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

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 9	LVL 5		B	M1	M2								
1,1-Dichloropropene	0.3164 0.3798	0.3295 0.4055	0.3361 0.4071	0.3658 0.3926	0.3563	Ave		0.3655			0.0500	9.1		20.0			
Cyclohexane	0.3526 0.4629	0.3446 0.4933	0.3531 0.4905	0.4249 0.4713	0.4429	Ave		0.4262			0.0500	14.3		20.0			
Carbon tetrachloride	0.1109 0.1238	0.1030 0.1291	0.1058 0.1365	0.1165 0.1362	0.1118	Ave		0.1193			0.0500	10.6		20.0			
Benzene	1.3758 1.1696	1.2346 1.1985	1.2553 1.1794	1.1892 1.1132	1.1315	Ave		1.2052			0.0500	6.5		20.0			
Tert-amyl methyl ether	2.1299 0.6639	1.3605 0.6961	1.0790 0.6781	0.7953 0.6760	0.6689	Lin1	0.7124	0.6629			0.0500				0.9990		0.9900
Dibromomethane	0.2050 0.2132	0.2099 0.2173	0.2433 0.2146	0.2260 0.2078	0.2069	Ave		0.2160			0.1100	5.6		20.0			
1,2-Dichloropropane	0.2555 0.2748	0.2464 0.2859	0.2804 0.2842	0.2750 0.2749	0.2609	Ave		0.2709			0.0500	5.0		20.0			
Trichloroethene	0.3001 0.3274	0.3175 0.3397	0.3168 0.3339	0.3300 0.3250	0.3023	Ave		0.3214			0.0500	4.2		20.0			
Bromodichloromethane	0.6788 0.4344	0.5220 0.4336	0.5501 0.4333	0.4796 0.4186	0.4285	Lin1	0.1439	0.4241			0.0500				0.9990		0.9900
1,4-Dioxane	+++++ 0.0028	+++++ 0.0029	0.0007 0.0028	0.0018 0.0033	0.0020	Lin1	-0.0666	0.0032			0.0010				0.9920		0.9900
Methylcyclohexane	0.3480 0.5014	0.3656 0.5417	0.3752 0.5407	0.4359 0.5248	0.4692	Ave		0.4558			0.0500	17.0		20.0			
cis-1,3-Dichloropropene	0.3096 0.4699	0.3412 0.5097	0.4369 0.5130	0.4403 0.5075	0.4249	Ave		0.4392			0.0500	16.6		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.2023	0.1217 0.2579	0.1884 0.2331	0.1866 0.2380	0.1753	Lin1	-0.1588	0.2380			0.0990				0.9940		0.9900
trans-1,3-Dichloropropene	0.3811 0.4397	0.3424 0.4840	0.3843 0.4838	0.4104 0.4834	0.3926	Ave		0.4224			0.0500	12.5		20.0			
1,1,2-Trichloroethane	0.2205 0.2440	0.2348 0.2507	0.2818 0.2451	0.2639 0.2400	0.2300	Ave		0.2456			0.0500	7.5		20.0			
Toluene	0.7429 0.7132	0.7079 0.7334	0.7539 0.7178	0.7326 0.6939	0.6884	Ave		0.7205			0.0500	3.1		20.0			
1,3-Dichloropropane	0.4268 0.4871	0.4758 0.5031	0.5586 0.4899	0.5194 0.4647	0.4626	Ave		0.4875			0.0500	7.7		20.0			
Dibromochloromethane	0.4556 0.3470	0.3802 0.3546	0.4297 0.3534	0.3799 0.3519	0.3260	Ave		0.3754			0.0500	11.2		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 Rhode Island Job No.: 620-28538-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

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 9	LVL 5		B	M1	M2								
2-Hexanone (MBK)	+++++ 0.1754	0.0866 0.2574	0.1455 +++++	0.1278 +++++	0.1802	Qua1	-0.021	0.1269	0.0032182		0.0860				0.9960		0.9900
1,2-Dibromoethane (EDB)	0.2408 0.2985	0.2564 0.3075	0.3201 0.3066	0.3005 0.3043	0.2791	Ave		0.2904			0.0500	9.1		20.0			
Tetrachloroethene	0.3384 0.3354	0.3210 0.3523	0.3374 0.3502	0.3413 0.3402	0.3249	Ave		0.3379			0.0500	3.0		20.0			
1,1,1,2-Tetrachloroethane	0.4079 0.4284	0.4388 0.4375	0.5137 0.4258	0.4615 0.3874	0.4061	Ave		0.4341			0.0500	8.5		20.0			
Chlorobenzene	1.1669 1.0580	1.1622 1.0503	1.2579 1.0179	1.1820 0.9170	1.0337	Ave		1.0940			0.0500	9.6		20.0			
Ethylbenzene	1.5325 1.8851	1.4826 1.9524	1.7403 1.8864	1.8321 1.7132	1.7454	Ave		1.7522			0.0500	9.1		20.0			
Bromoform	0.3445 0.3537	0.3428 0.3598	0.4162 0.3544	0.3779 0.3306	0.3221	Ave		0.3558			0.0500	7.8		20.0			
m,p-Xylene	0.9831 1.4545	0.9769 1.5025	1.2547 1.4460	1.3156 1.3198	1.2903	Ave		1.2826			0.0500	14.9		20.0			
Styrene	0.7078 1.0139	0.6628 1.0769	0.8481 1.0512	0.9356 0.9701	0.9174	Ave		0.9093			0.0500	16.0		20.0			
1,1,2,2-Tetrachloroethane	0.5244 0.5841	0.5852 0.5555	0.7705 0.5310	0.6669 0.4766	0.5563	Qua1	0.0254	0.6057	-0.001315		0.0500				0.9980		0.9900
o-Xylene	1.0965 1.5985	1.1958 1.5935	1.5481 1.5244	1.6619 1.3770	1.5336	Ave		1.4588			0.0500	13.4		20.0			
1,2,3-Trichloropropane	0.4184 0.4720	0.4784 0.4655	0.5815 0.4496	0.5332 0.4053	0.4404	Ave		0.4716			0.0500	11.8		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.0929	+++++ 0.1001	0.0893 0.0993	0.0880 0.0996	0.0826	Ave		0.0931			0.0910	7.3		20.0			
Isopropylbenzene	2.0174 1.8954	1.9178 1.9154	2.0868 1.8497	2.0125 1.6903	1.8501	Ave		1.9151			0.0500	6.1		20.0			
Bromobenzene	0.4833 0.4980	0.5025 0.5070	0.5842 0.4898	0.5532 0.4400	0.4841	Ave		0.5047			0.0500	8.3		20.0			
N-Propylbenzene	+++++ 2.4183	1.4697 2.4670	1.8846 2.4062	2.2584 2.4019	2.1825	Lin1	-1.026	2.4303			0.0500				1.0000		0.9900
2-Chlorotoluene	0.3398 0.4327	0.3659 0.4380	0.4755 0.4249	0.4744 0.3782	0.4244	Ave		0.4171			0.0500	11.2		20.0			
4-Chlorotoluene	1.2299 1.5114	1.1769 1.5009	1.6662 1.4538	1.6117 1.2881	1.4516	Ave		1.4323			0.0500	11.7		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 Rhode Island Job No.: 620-28538-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

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 9	LVL 5		B	M1	M2								
1,3,5-Trimethylbenzene	1.0801 1.5936	1.1349 1.6430	1.4077 1.5940	1.5534 1.4587	1.4910	Ave		1.4396			0.0500	14.1		20.0			
tert-Butylbenzene	0.6467 0.9532	0.6884 0.9982	0.8325 0.9944	0.9301 0.9789	0.8891	Ave		0.8790			0.0500	15.0		20.0			
1,2,4-Trimethylbenzene	1.0343 1.6004	1.1273 1.6309	1.4653 1.6033	1.6086 1.4480	1.5150	Ave		1.4481			0.0500	15.2		20.0			
1,3-Dichlorobenzene	0.8650 0.9299	0.8863 0.9348	1.1459 0.9044	1.0602 0.8178	0.9218	Ave		0.9407			0.0500	10.8		20.0			
sec-Butylbenzene	1.4864 2.0168	1.6288 2.0312	1.9593 1.9932	2.1559 1.8092	1.9915	Ave		1.8969			0.0500	11.3		20.0			
1,4-Dichlorobenzene	1.7203 1.5966	1.7267 1.6395	2.0187 1.6221	1.7956 1.5696	1.5617	Ave		1.6945			0.0500	8.6		20.0			
4-Isopropyltoluene	2.0107 2.8522	2.0449 3.0277	2.4472 3.0376	2.7585 2.9706	2.6469	Ave		2.6440			0.0500	15.0		20.0			
1,2-Dichlorobenzene	1.2873 1.4358	1.3427 1.4966	1.6951 1.4792	1.5765 1.4548	1.3687	Ave		1.4596			0.0500	8.5		20.0			
n-Butylbenzene	1.7509 2.6300	1.8515 2.7752	2.1773 2.7791	2.4462 2.6899	2.4309	Ave		2.3923			0.0500	16.2		20.0			
1,2-Dibromo-3-Chloropropane	0.1849 0.2130	0.1944 0.2152	0.2543 0.2087	0.2252 0.2115	0.1917	Ave		0.2110			0.0630	9.8		20.0			
1,3,5-Trichlorobenzene	0.8862 1.0291	0.9275 1.1200	1.1182 1.0936	1.0866 1.0937	0.9685	Ave		1.0359			0.0500	8.5		20.0			
1,2,4-Trichlorobenzene	0.3832 0.5030	0.3848 0.5258	0.5136 0.5135	0.5086 0.4712	0.4471	Ave		0.4723			0.0500	11.8		20.0			
Naphthalene	+++++ 1.9239	1.1657 2.1473	1.5733 2.1046	1.6517 2.1277	1.5739	Lin1	-1.383	2.1129			0.0500				0.9970		0.9900
Hexachlorobutadiene	0.6550 0.4779	0.5209 0.4996	0.5464 0.4895	0.5200 0.4715	0.4743	Ave		0.5172			0.0500	11.1		20.0			
1,2,3-Trichlorobenzene	0.5951 0.7473	0.5718 0.7987	0.7860 0.7851	0.7646 0.7571	0.6773	Ave		0.7203			0.0500	11.8		20.0			
Dibromofluoromethane (Surr)	0.3158 0.3175	0.3164 0.3146	0.3174 0.3136	0.3168 0.3103	0.3165	Ave		0.3154			0.0500	0.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.4197 0.4098	0.4211 0.4046	0.4233 0.3956	0.4268 0.3905	0.4250	Ave		0.4129			0.0500	3.3		20.0			
Toluene-d8 (Surr)	0.9422 0.9639	0.9430 0.9549	0.9475 0.9639	0.9511 0.9621	0.9580	Ave		0.9541			0.0500	0.9		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 Rhode Island Job No.: 620-28538-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

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 9	LVL 5		B	M1	M2								
4-Bromofluorobenzene (Surr)	0.5524 0.5524	0.5512 0.5446	0.5576 0.5301	0.5656 0.4919	0.5518	Ave		0.5442			0.0500	4.0		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 Rhode Island | Job No.: 620-28538-1 | Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 | GC Column: DB-VRX | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 | Calibration End Date: 08/07/2025 11:53 | Calibration ID: 10515

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-51723/3	V4-080725-03.D
Level 2	IC 620-51723/4	V4-080725-04.D
Level 3	IC 620-51723/5	V4-080725-05.D
Level 4	IC 620-51723/6	V4-080725-06.D
Level 5	IC 620-51723/7	V4-080725-07.D
Level 6	ICIS 620-51723/8	V4-080725-08.D
Level 7	IC 620-51723/9	V4-080725-09.D
Level 8	IC 620-51723/10	V4-080725-10.D
Level 9	IC 620-51723/11	V4-080725-11.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 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane (Freon 12)	FB	Ave	1722 55421	3167 115008	5804 146462	14038 287138	27638	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Chloromethane	FB	Ave	+++++ 44170	3096 88973	5062 113668	12270 218410	21956	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Vinyl chloride	FB	Ave	1093 34839	1885 72792	3522 90372	9594 171816	17692	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Bromomethane	FB	Lin1	1628 24058	2189 48395	3502 62568	7492 124609	12716	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Chloroethane	FB	Ave	549 24428	1094 47977	2474 61477	7407 116505	11607	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Ethanol	FB	Ave	+++++ 7781	+++++ 14686	+++++ 18029	1833 40673	3576	+++++ 400	+++++ 800	+++++ 1000	100 2000	200
Trichlorofluoromethane (Freon 11)	FB	Ave	+++++ 78416	4335 163218	8078 211318	21740 419709	39464	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Acetone	FB	Ave	+++++ 24212	+++++ 55828	+++++ 57847	8048 106353	14033	+++++ 20.0	+++++ 40.0	+++++ 50.0	5.00 100	10.0
Ethyl ether	FB	Ave	821 32209	1611 68004	3468 87768	8556 175971	14742	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1-Dichloroethene	FB	Ave	885 36964	1882 79072	3592 99712	9765 202923	17301	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Iodomethane	FB	Qua1	734 17622	1235 41713	1982 57532	4525 127263	8612	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
tert-Butanol	FB	Ave	+++++ 32059	1604 65963	4053 84422	8321 180824	13402	+++++ 200	10.0 400	20.0 500	50.0 1000	100
Acrylonitrile	FB	Ave	302 16438	707 34619	1893 44242	4304 86988	7646	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Methylene Chloride	FB	Lin1	+++++ 47430	3928 97831	6652 123378	13209 245020	23828	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1 | Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 | GC Column: DB-VRX | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 | Calibration End Date: 08/07/2025 11:53 | Calibration ID: 10515

ANALYTE	IS REF	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
1,1,2-Trichlorotrifluoroethane (Freon 113)	FB	Ave	1334 45398	2473 95257	4512 121342	11105 238600	20257	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Methyl acetate	FB	Ave	+++++ 30866	2240 61919	4180 79364	8397 164901	13876	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Carbon disulfide	FB	Ave	3935 129684	7317 271145	13417 343980	34598 682672	63969	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
trans-1,2-Dichloroethene	FB	Ave	999 38054	2009 81612	3789 104178	10398 207064	18551	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Methyl tert-butyl ether	FB	Ave	2349 100811	4687 218019	10299 280719	25533 572990	46486	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1-Dichloroethane	FB	Ave	1987 75715	3895 161240	8100 203468	20517 400809	37313	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
2-Butanone (MEK)	FB	Qua1	+++++ 14090	193 41307	734 +++++	3196 +++++	7497	+++++ 20.0	1.00 40.0	2.00 +++++	5.00 +++++	10.0
di-Isopropyl ether	FB	Ave	2277 108113	4716 232679	10475 294673	26463 578974	49983	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
cis-1,2-Dichloroethene	FB	Ave	1006 43758	2199 90450	4602 117118	11703 233214	21535	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Bromochloromethane	FB	Ave	479 21310	1070 44065	2285 55748	5709 111751	10349	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Chloroform	FB	Lin1	6889 96694	9134 196980	14721 249276	29969 493806	49355	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
2,2-Dichloropropane	FB	Ave	1194 44064	2337 91237	4496 117589	11589 230068	21713	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Ethyl tert-butyl ether	FB	Ave	2293 105467	4516 226329	10439 290479	26167 598620	48554	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Tetrahydrofuran	FB	Ave	+++++ 10112	415 21586	884 27741	2344 59879	4219	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2-Dichloroethane	FB	Ave	2080 69746	4055 142294	7936 179259	19765 359431	34136	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1,1-Trichloroethane	FB	Ave	1447 54020	2973 115536	5637 148117	14347 308211	25892	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1-Dichloropropene	FB	Ave	1164 52660	2398 114415	4783 148498	13171 300771	24760	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Cyclohexane	FB	Ave	1297 64178	2508 139162	5025 178923	15298 361118	30775	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Carbon tetrachloride	FB	Ave	408 17169	750 36420	1506 49788	4195 104355	7768	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Benzene	FB	Ave	5061 162166	8986 338127	17865 430215	42818 852847	78623	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	IS REF	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
Tert-amyl methyl ether	FB	Lin1	7835 92050	9902 196394	15356 247359	28635 517910	46478	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Dibromomethane	FB	Ave	754 29559	1528 61298	3463 78280	8139 159180	14373	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2-Dichloropropane	FB	Ave	940 38095	1793 80672	3990 103662	9903 210613	18130	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Trichloroethene	FB	Ave	1104 45388	2311 95826	4509 121792	11882 249016	21004	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Bromodichloromethane	FB	Lin1	2497 60232	3799 122322	7829 158045	17269 320690	29774	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,4-Dioxane	FB	Lin1	+++++ 3824	+++++ 8136	97 10060	632 25442	1360	+++++ 200	+++++ 400	20.0 500	50.0 1000	100
Methylcyclohexane	FB	Ave	1280 69524	2661 152844	5340 197240	15695 402075	32604	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
cis-1,3-Dichloropropene	FB	Ave	1139 65146	2483 143815	6217 187127	15855 388826	29521	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
4-Methyl-2-pentanone (MIBK)	FB	Lin1	+++++ 28050	886 72770	2681 85029	6719 182328	12180	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
trans-1,3-Dichloropropene	FB	Ave	1402 60970	2492 136554	5469 176473	14776 370363	27282	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1,2-Trichloroethane	FB	Ave	811 33833	1709 70731	4010 89422	9502 183905	15981	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Toluene	FB	Ave	2733 98890	5152 206927	10729 261829	26379 531639	47831	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,3-Dichloropropane	FB	Ave	1570 67544	3463 141946	7949 178690	18700 356001	32142	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Dibromochloromethane	FB	Ave	1676 48111	2767 100050	6115 128893	13679 269634	22651	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
2-Hexanone (MBK)	FB	Qua1	+++++ 24319	630 72627	2071 +++++	4600 +++++	12524	+++++ 20.0	1.00 40.0	2.00 +++++	5.00 +++++	10.0
1,2-Dibromoethane (EDB)	FB	Ave	886 41389	1866 86767	4555 111821	10821 233173	19392	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Tetrachloroethene	FB	Ave	1245 46503	2336 99387	4801 127744	12288 260607	22578	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	1043 42796	2203 91953	5135 117765	11695 242330	20217	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Chlorobenzene	CBNZd5	Ave	2984 105683	5835 220779	12574 281544	29952 573634	51456	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Ethylbenzene	CBNZd5	Ave	3919	7444	17395	46425	86882	0.500	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 Rhode Island Job No.: 620-28538-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	IS REF	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
			188310	410395	521769	1071711		20.0	40.0	50.0	100	
Bromoform	CBNZd5	Ave	881 35335	1721 75631	4160 98015	9575 206803	16036	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
m,p-Xylene	CBNZd5	Ave	2514 145297	4905 315813	12542 399941	33338 825633	64229	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Styrene	CBNZd5	Ave	1810 101280	3328 226353	8477 290765	23708 606856	45667	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1,2,2-Tetrachloroethane	CBNZd5	Qua1	1341 58344	2938 116765	7702 146869	16898 298157	27691	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
o-Xylene	CBNZd5	Ave	2804 159677	6004 334951	15474 421652	42113 861399	76339	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2,3-Trichloropropane	CBNZd5	Ave	1070 47152	2402 97836	5812 124364	13510 253571	21924	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
trans-1,4-Dichloro-2-butene	FB	Ave	+++++ 12877	+++++ 28235	1271 36204	3169 76278	5739	+++++ 20.0	+++++ 40.0	2.00 50.0	5.00 100	10.0
Isopropylbenzene	CBNZd5	Ave	5159 189338	9629 402616	20859 511604	50997 1057415	92096	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Bromobenzene	CBNZd5	Ave	1236 49748	2523 106574	5839 135480	14017 275279	24097	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
N-Propylbenzene	CBNZd5	Lin1	+++++ 241574	7379 518551	18838 665539	57227 1502581	108643	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
2-Chlorotoluene	CBNZd5	Ave	869 43226	1837 92062	4753 117520	12021 236612	21125	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
4-Chlorotoluene	CBNZd5	Ave	3145 150975	5909 315491	16655 402116	40839 805828	72259	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,3,5-Trimethylbenzene	CBNZd5	Ave	2762 159189	5698 345351	14071 440898	39363 912504	74219	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
tert-Butylbenzene	FB	Ave	2379 132159	5010 281627	11847 362726	33488 749984	61780	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2,4-Trimethylbenzene	CBNZd5	Ave	2645	5660	14647	40761	75416	0.500	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 Rhode Island Job No.: 620-28538-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	IS REF	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
			159867	342801	443474	905845		20.0	40.0	50.0	100	
1,3-Dichlorobenzene	CBNZd5	Ave	2212 92892	4450 196500	11454 250142	26865 511570	45886	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
sec-Butylbenzene	CBNZd5	Ave	3801 201464	8178 426944	19584 551301	54631 1131764	99132	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,4-Dichlorobenzene	DCBd4	Ave	2642 94021	5257 194972	12130 247889	27697 502548	46455	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
4-Isopropyltoluene	DCBd4	Ave	3088 167958	6226 360069	14705 464200	42549 951130	78734	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2-Dichlorobenzene	DCBd4	Ave	1977 84550	4088 177978	10186 226043	24317 465807	40714	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
n-Butylbenzene	DCBd4	Ave	2689 154874	5637 330041	13083 424690	37732 861244	72309	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	284 12540	592 25594	1528 31893	3474 67704	5703	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,3,5-Trichlorobenzene	DCBd4	Ave	1361 60600	2824 133195	6719 167125	16761 350189	28810	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2,4-Trichlorobenzene	CBNZd5	Ave	980 50247	1932 110526	5134 142022	12889 294792	22256	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Naphthalene	DCBd4	Lin1	+++++ 113290	3549 255364	9454 321617	25477 681241	46818	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Hexachlorobutadiene	DCBd4	Ave	1006 28140	1586 59411	3283 74797	8021 150971	14107	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2,3-Trichlorobenzene	DCBd4	Ave	914 44007	1741 94981	4723 119972	11794 242398	20148	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Dibromofluoromethane (Surr)	FB	Ave	116190 110065	115145 110947	112912 114402	114054 118877	109958	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	154397 142055	153261 142678	150604 144315	153663 149581	147660	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
Toluene-d8 (Surr)	FB	Ave	346591 334108	343174 336756	337106 351588	342456 368558	332821	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
4-Bromofluorobenzene (Surr)	CBNZd5	Ave	141259 137962	138374 143089	139351 146624	143316 153852	137343	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua1 = Quadratic 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1 | Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 | GC Column: DB-VRX | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 | Calibration End Date: 08/07/2025 11:53 | Calibration ID: 10515

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-51723/3	V4-080725-03.D
Level 2	IC 620-51723/4	V4-080725-04.D
Level 3	IC 620-51723/5	V4-080725-05.D
Level 4	IC 620-51723/6	V4-080725-06.D
Level 5	IC 620-51723/7	V4-080725-07.D
Level 6	ICIS 620-51723/8	V4-080725-08.D
Level 7	IC 620-51723/9	V4-080725-09.D
Level 8	IC 620-51723/10	V4-080725-10.D
Level 9	IC 620-51723/11	V4-080725-11.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane (Freon 12)	14.4						30					
Chloromethane	+++++	27.5						30				
Vinyl chloride	16.0						30					
Bromomethane	-9.8						30					
Chloroethane	-11.2						30					
Ethanol	+++++	+++++	+++++	-2.4						30		
Trichlorofluoromethane (Freon 11)	+++++	3.4						30				
Acetone	+++++	+++++	+++++	22.4						30		
Ethyl ether	-3.5						30					
1,1-Dichloroethene	-8.1						30					
Iodomethane	10.4						30					
tert-Butanol	+++++	-5.3						30				
Acrylonitrile	-27.4						30					
Methylene Chloride	+++++	-7.3						30				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
1,1,2-Trichlorotrifluoroethane (Freon 113)	11.4						30					
Methyl acetate	+++++	29.0						30				
Carbon disulfide	11.6						30					
trans-1,2-Dichloroethene	-1.8						30					
Methyl tert-butyl ether	-10.2						30					
1,1-Dichloroethane	-1.8						30					
2-Butanone (MEK)	+++++	-3.4 +++++	+++++					30				
di-Isopropyl ether	-15.9						30					
cis-1,2-Dichloroethene	-12.0						30					
Bromochloromethane	-13.4						30					
Chloroform	-10.8						30					
2,2-Dichloropropane	2.1						30					
Ethyl tert-butyl ether	-14.3						30					
Tetrahydrofuran	+++++	-16.9						30				
1,2-Dichloroethane	8.5						30					
1,1,1-Trichloroethane	-1.0						30					
1,1-Dichloropropene	-13.4						30					
Cyclohexane	-17.3						30					
Carbon tetrachloride	-7.0						30					
Benzene	14.1						30					
Tert-amyl methyl ether	6.4						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Dibromomethane	-5.1						30					
1,2-Dichloropropane	-5.7						30					
Trichloroethene	-6.6						30					
Bromodichloromethane	-7.8						30					
1,4-Dioxane	+++++	+++++	26.2						30			
Methylcyclohexane	-23.7						30					
cis-1,3-Dichloropropene	-29.5						30					
4-Methyl-2-pentanone (MIBK)	+++++	17.5						30				
trans-1,3-Dichloropropene	-9.8						30					
1,1,2-Trichloroethane	-10.3						30					
Toluene	3.1						30					
1,3-Dichloropropane	-12.5						30					
Dibromochloromethane	21.4						30					
2-Hexanone (MBK)	+++++	-17.0 +++++	+++++					30				
1,2-Dibromoethane (EDB)	-17.1						30					
Tetrachloroethene	0.2						30					
1,1,1,2-Tetrachloroethane	-6.0						30					
Chlorobenzene	6.7						30					
Ethylbenzene	-12.5						30					
Bromoform	-3.2						30					
m,p-Xylene	-23.4						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Styrene	-22.2						30					
1,1,2,2-Tetrachloroethane	-21.8						30					
o-Xylene	-24.8						30					
1,2,3-Trichloropropane	-11.3						30					
trans-1,4-Dichloro-2-butene	+++++	+++++	-4.1						30			
Isopropylbenzene	5.3						30					
Bromobenzene	-4.2						30					
N-Propylbenzene	+++++	2.7						30				
2-Chlorotoluene	-18.5						30					
4-Chlorotoluene	-14.1						30					
1,3,5-Trimethylbenzene	-25.0						30					
tert-Butylbenzene	-26.4						30					
1,2,4-Trimethylbenzene	-28.6						30					
1,3-Dichlorobenzene	-8.0						30					
sec-Butylbenzene	-21.6						30					
1,4-Dichlorobenzene	1.5						30					
4-Isopropyltoluene	-24.0						30					
1,2-Dichlorobenzene	-11.8						30					
n-Butylbenzene	-26.8						30					
1,2-Dibromo-3-Chloropropane	-12.4						30					
1,3,5-Trichlorobenzene	-14.5						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
1,2,4-Trichlorobenzene	-18.9						30					
Naphthalene	+++++	20.6						30				
Hexachlorobutadiene	26.6						30					
1,2,3-Trichlorobenzene	-17.4						30					
Dibromofluoromethane (Surr)	0.1						30					
1,2-Dichloroethane-d4 (Surr)	1.6						30					
Toluene-d8 (Surr)	-1.2						30					
4-Bromofluorobenzene (Surr)	1.5						30					

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

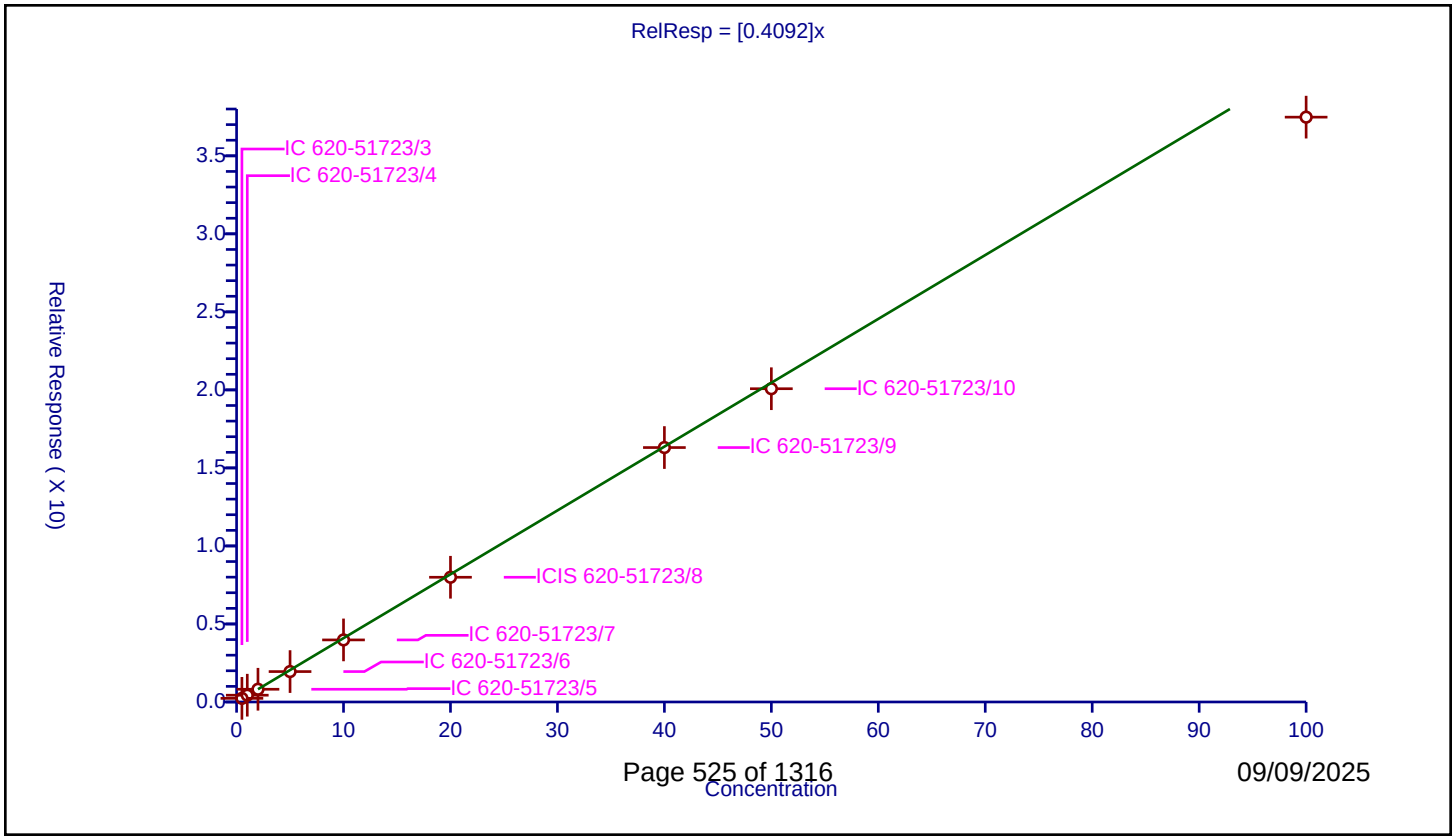
Curve Coefficients

Intercept:	0
Slope:	0.4092

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.234053	50.0	367866.0	0.468105	Y
2	IC 620-51723/4	1.0	0.435131	50.0	363913.0	0.435131	Y
3	IC 620-51723/5	2.0	0.815668	50.0	355782.0	0.407834	Y
4	IC 620-51723/6	5.0	1.94937	50.0	360065.0	0.389874	Y
5	IC 620-51723/7	10.0	3.977675	50.0	347414.0	0.397768	Y
6	ICIS 620-51723/8	20.0	7.994236	50.0	346631.0	0.399712	Y
7	IC 620-51723/9	40.0	16.305652	50.0	352663.0	0.407641	Y
8	IC 620-51723/10	50.0	20.076103	50.0	364767.0	0.401522	Y
9	IC 620-51723/11	100.0	37.478627	50.0	383069.0	0.374786	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

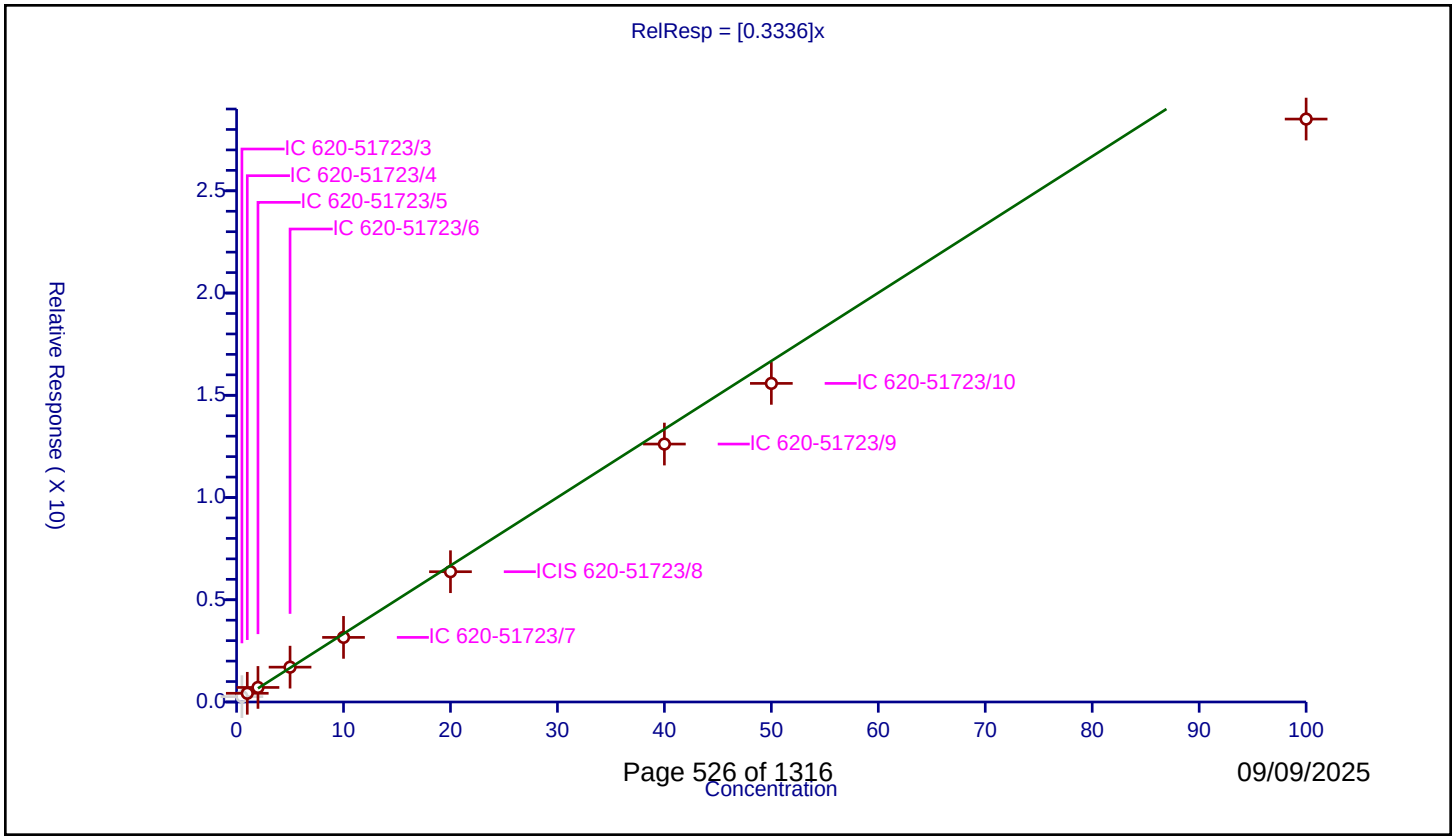
Curve Coefficients

Intercept:	0
Slope:	0.3336

Error Coefficients

Relative Standard Deviation:	12.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.263411	50.0	367866.0	0.526822	N
2	IC 620-51723/4	1.0	0.425376	50.0	363913.0	0.425376	Y
3	IC 620-51723/5	2.0	0.711391	50.0	355782.0	0.355695	Y
4	IC 620-51723/6	5.0	1.703859	50.0	360065.0	0.340772	Y
5	IC 620-51723/7	10.0	3.159919	50.0	347414.0	0.315992	Y
6	ICIS 620-51723/8	20.0	6.371329	50.0	346631.0	0.318566	Y
7	IC 620-51723/9	40.0	12.614451	50.0	352663.0	0.315361	Y
8	IC 620-51723/10	50.0	15.580905	50.0	364767.0	0.311618	Y
9	IC 620-51723/11	100.0	28.507919	50.0	383069.0	0.285079	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

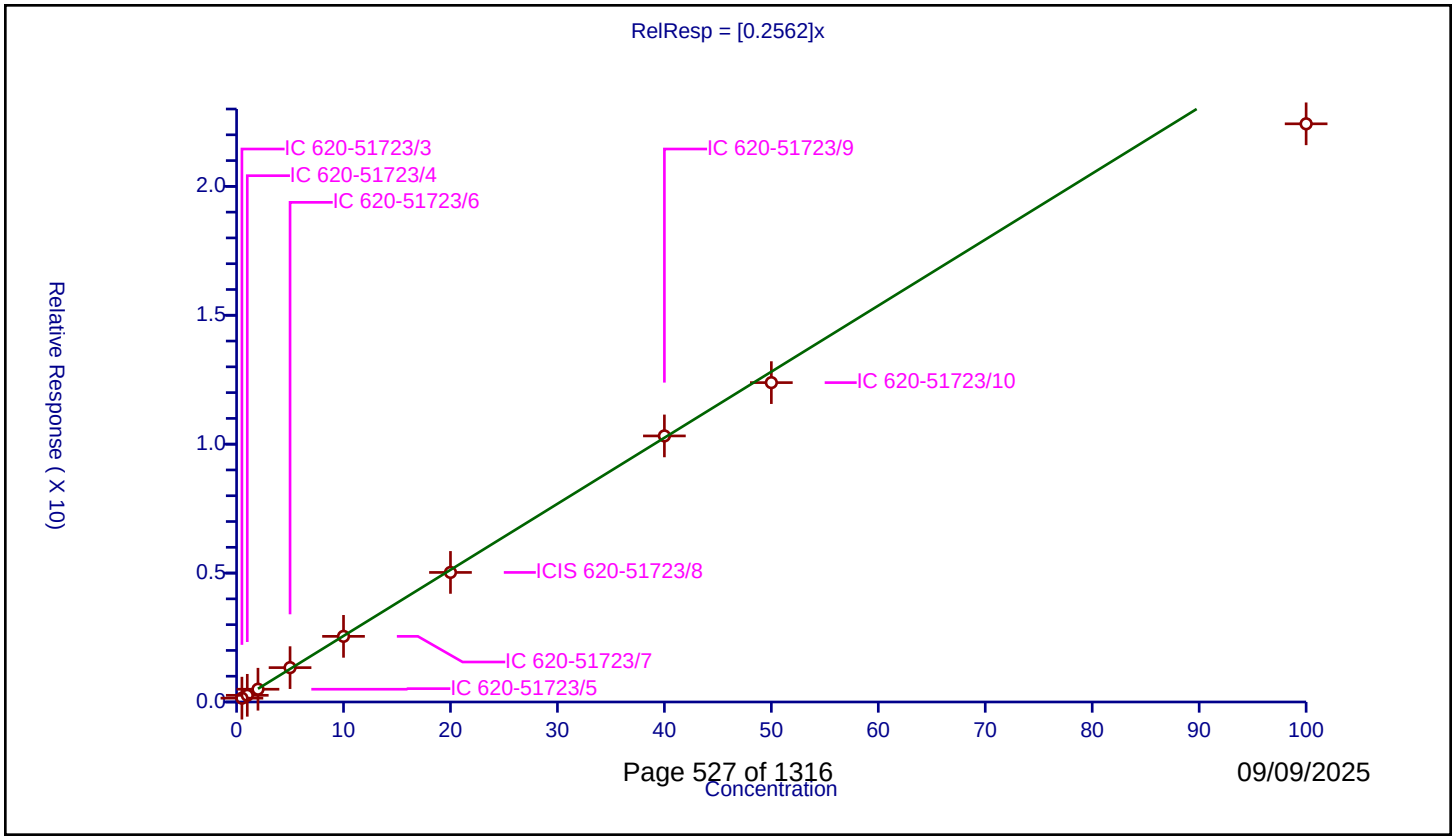
Curve Coefficients

Intercept:	0
Slope:	0.2562

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.14856	50.0	367866.0	0.297119	Y
2	IC 620-51723/4	1.0	0.25899	50.0	363913.0	0.25899	Y
3	IC 620-51723/5	2.0	0.494966	50.0	355782.0	0.247483	Y
4	IC 620-51723/6	5.0	1.332259	50.0	360065.0	0.266452	Y
5	IC 620-51723/7	10.0	2.546242	50.0	347414.0	0.254624	Y
6	ICIS 620-51723/8	20.0	5.025373	50.0	346631.0	0.251269	Y
7	IC 620-51723/9	40.0	10.320334	50.0	352663.0	0.258008	Y
8	IC 620-51723/10	50.0	12.387634	50.0	364767.0	0.247753	Y
9	IC 620-51723/11	100.0	22.426247	50.0	383069.0	0.224262	Y



Calibration / Bromomethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

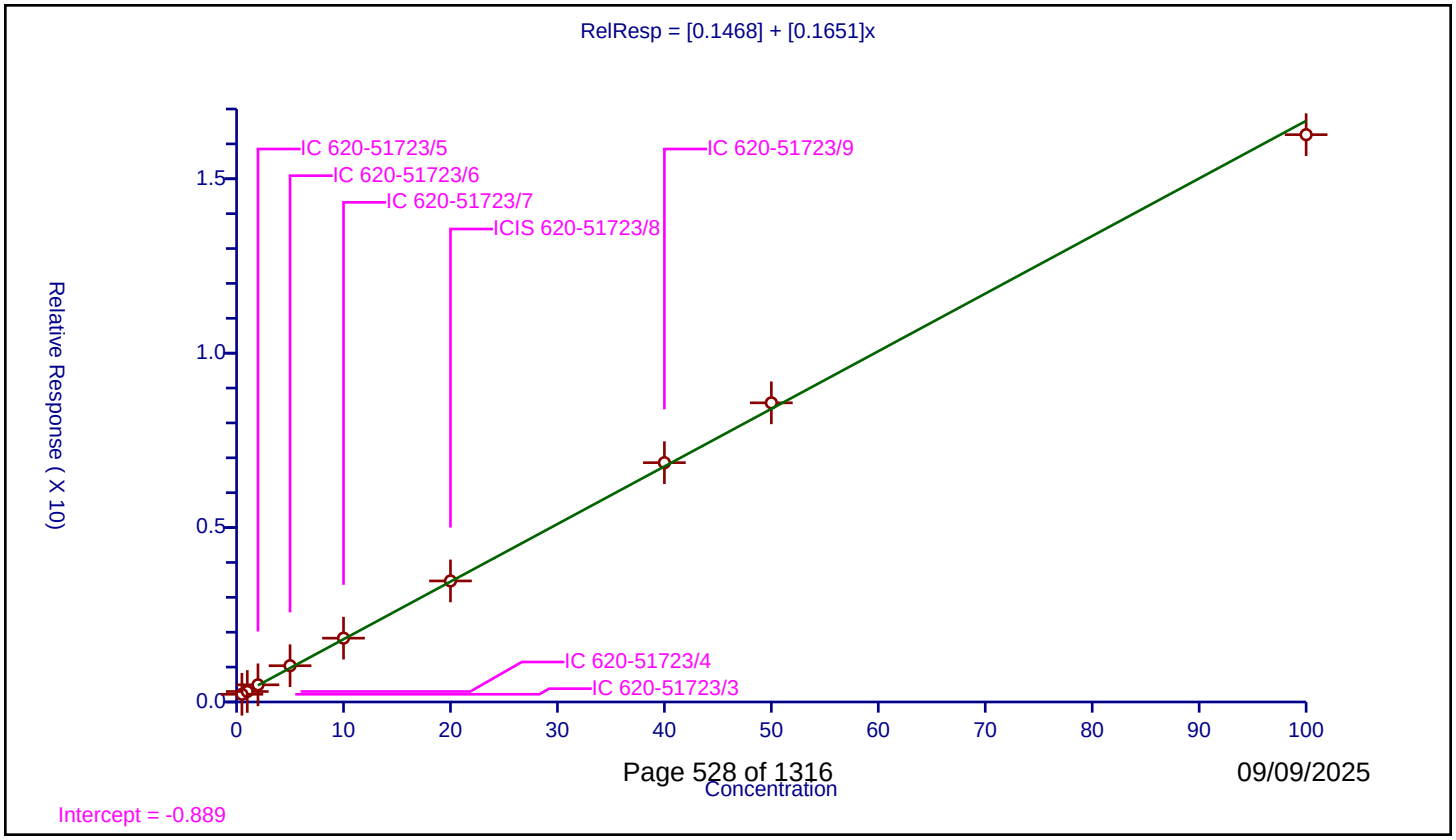
Curve Coefficients

Intercept:	0.1468
Slope:	0.1651

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.221276	50.0	367866.0	0.442552	Y
2	IC 620-51723/4	1.0	0.300759	50.0	363913.0	0.300759	Y
3	IC 620-51723/5	2.0	0.492155	50.0	355782.0	0.246078	Y
4	IC 620-51723/6	5.0	1.040368	50.0	360065.0	0.208074	Y
5	IC 620-51723/7	10.0	1.830093	50.0	347414.0	0.183009	Y
6	ICIS 620-51723/8	20.0	3.470261	50.0	346631.0	0.173513	Y
7	IC 620-51723/9	40.0	6.861366	50.0	352663.0	0.171534	Y
8	IC 620-51723/10	50.0	8.576434	50.0	364767.0	0.171529	Y
9	IC 620-51723/11	100.0	16.264563	50.0	383069.0	0.162646	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

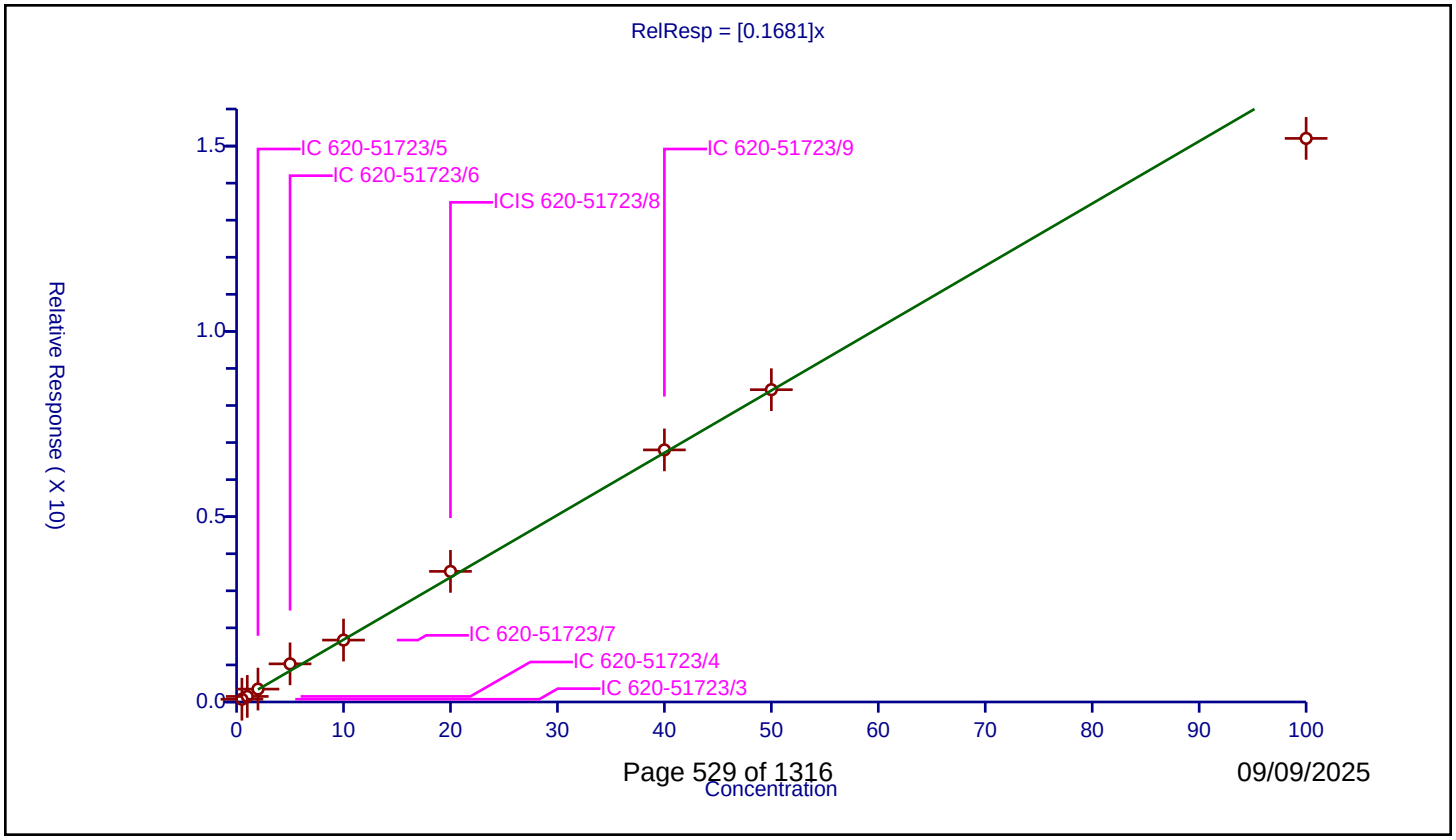
Curve Coefficients

Intercept:	0
Slope:	0.1681

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.07462	50.0	367866.0	0.149239	Y
2	IC 620-51723/4	1.0	0.150311	50.0	363913.0	0.150311	Y
3	IC 620-51723/5	2.0	0.347685	50.0	355782.0	0.173842	Y
4	IC 620-51723/6	5.0	1.028564	50.0	360065.0	0.205713	Y
5	IC 620-51723/7	10.0	1.670485	50.0	347414.0	0.167049	Y
6	ICIS 620-51723/8	20.0	3.523632	50.0	346631.0	0.176182	Y
7	IC 620-51723/9	40.0	6.802103	50.0	352663.0	0.170053	Y
8	IC 620-51723/10	50.0	8.426886	50.0	364767.0	0.168538	Y
9	IC 620-51723/11	100.0	15.20679	50.0	383069.0	0.152068	Y



Calibration / Ethanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

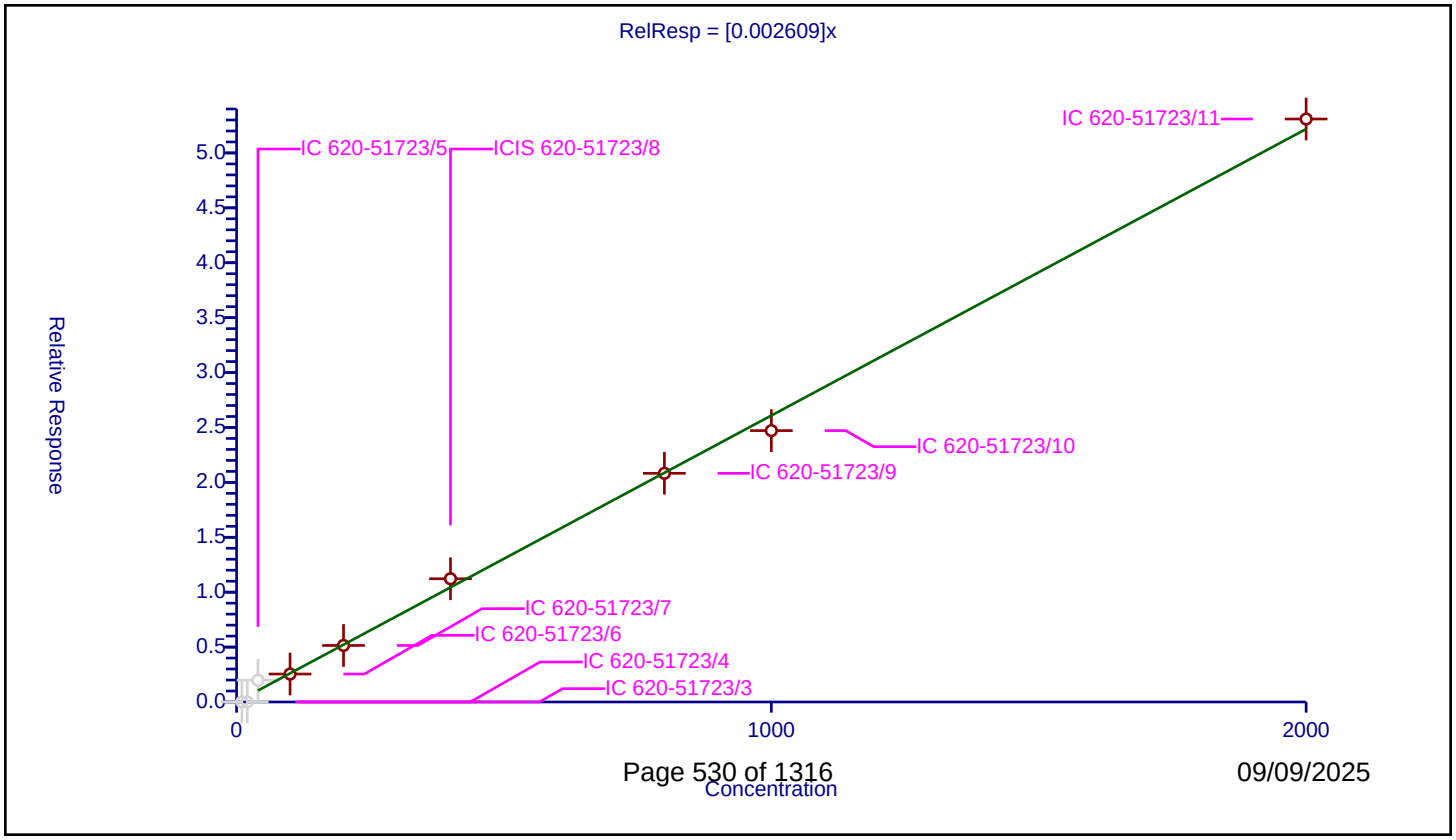
Curve Coefficients

Intercept:	0
Slope:	0.002609

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	10.0	0.0	50.0	367866.0	0.0	N
2	IC 620-51723/4	20.0	0.0	50.0	363913.0	0.0	N
3	IC 620-51723/5	40.0	0.198717	50.0	355782.0	0.004968	N
4	IC 620-51723/6	100.0	0.254537	50.0	360065.0	0.002545	Y
5	IC 620-51723/7	200.0	0.51466	50.0	347414.0	0.002573	Y
6	ICIS 620-51723/8	400.0	1.122375	50.0	346631.0	0.002806	Y
7	IC 620-51723/9	800.0	2.082158	50.0	352663.0	0.002603	Y
8	IC 620-51723/10	1000.0	2.471304	50.0	364767.0	0.002471	Y
9	IC 620-51723/11	2000.0	5.308835	50.0	383069.0	0.002654	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

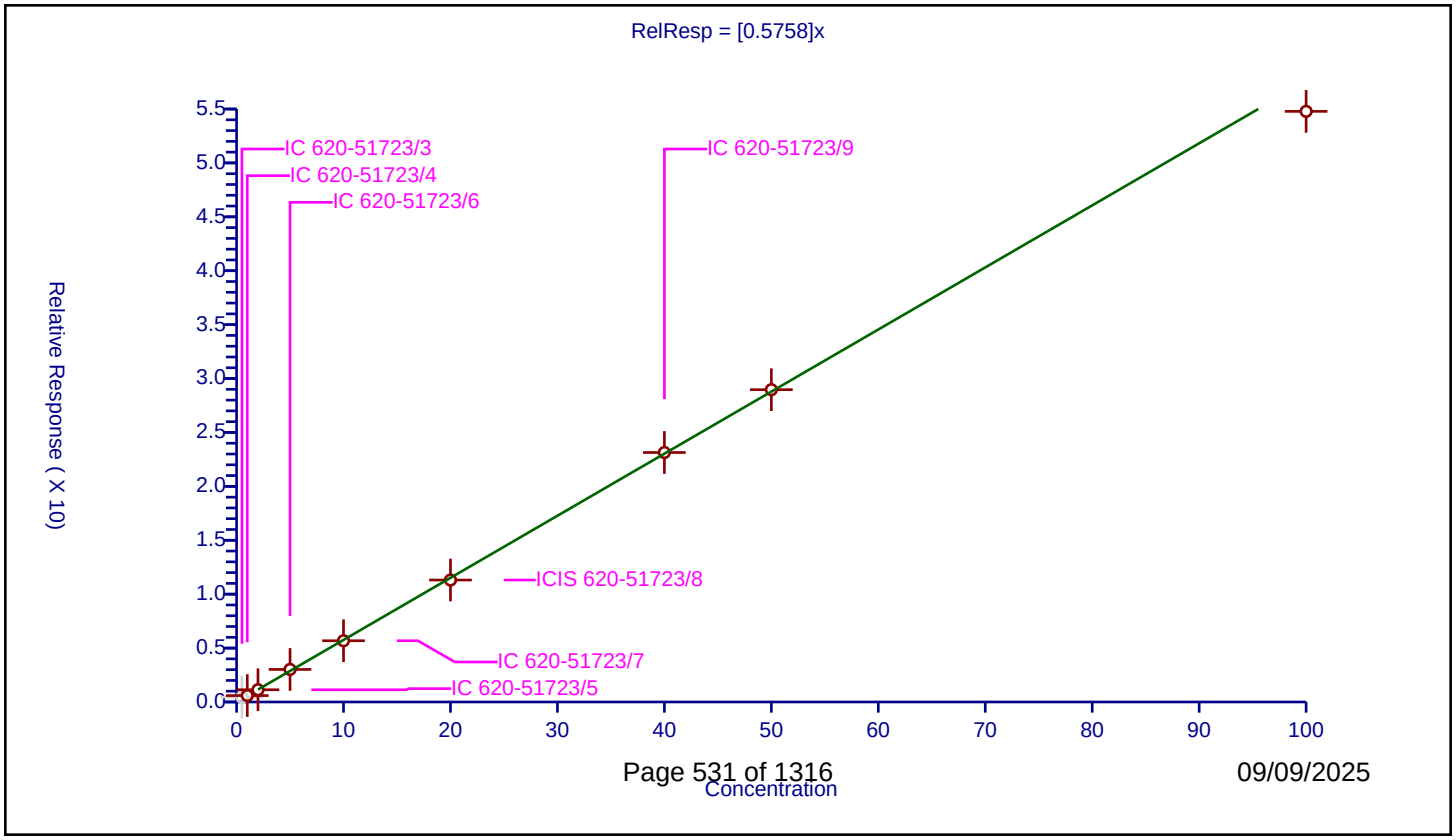
Curve Coefficients

Intercept:	0
Slope:	0.5758

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.448805	50.0	367866.0	0.897609	N
2	IC 620-51723/4	1.0	0.595609	50.0	363913.0	0.595609	Y
3	IC 620-51723/5	2.0	1.135246	50.0	355782.0	0.567623	Y
4	IC 620-51723/6	5.0	3.018899	50.0	360065.0	0.60378	Y
5	IC 620-51723/7	10.0	5.679679	50.0	347414.0	0.567968	Y
6	ICIS 620-51723/8	20.0	11.311164	50.0	346631.0	0.565558	Y
7	IC 620-51723/9	40.0	23.140789	50.0	352663.0	0.57852	Y
8	IC 620-51723/10	50.0	28.966162	50.0	364767.0	0.579323	Y
9	IC 620-51723/11	100.0	54.782428	50.0	383069.0	0.547824	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

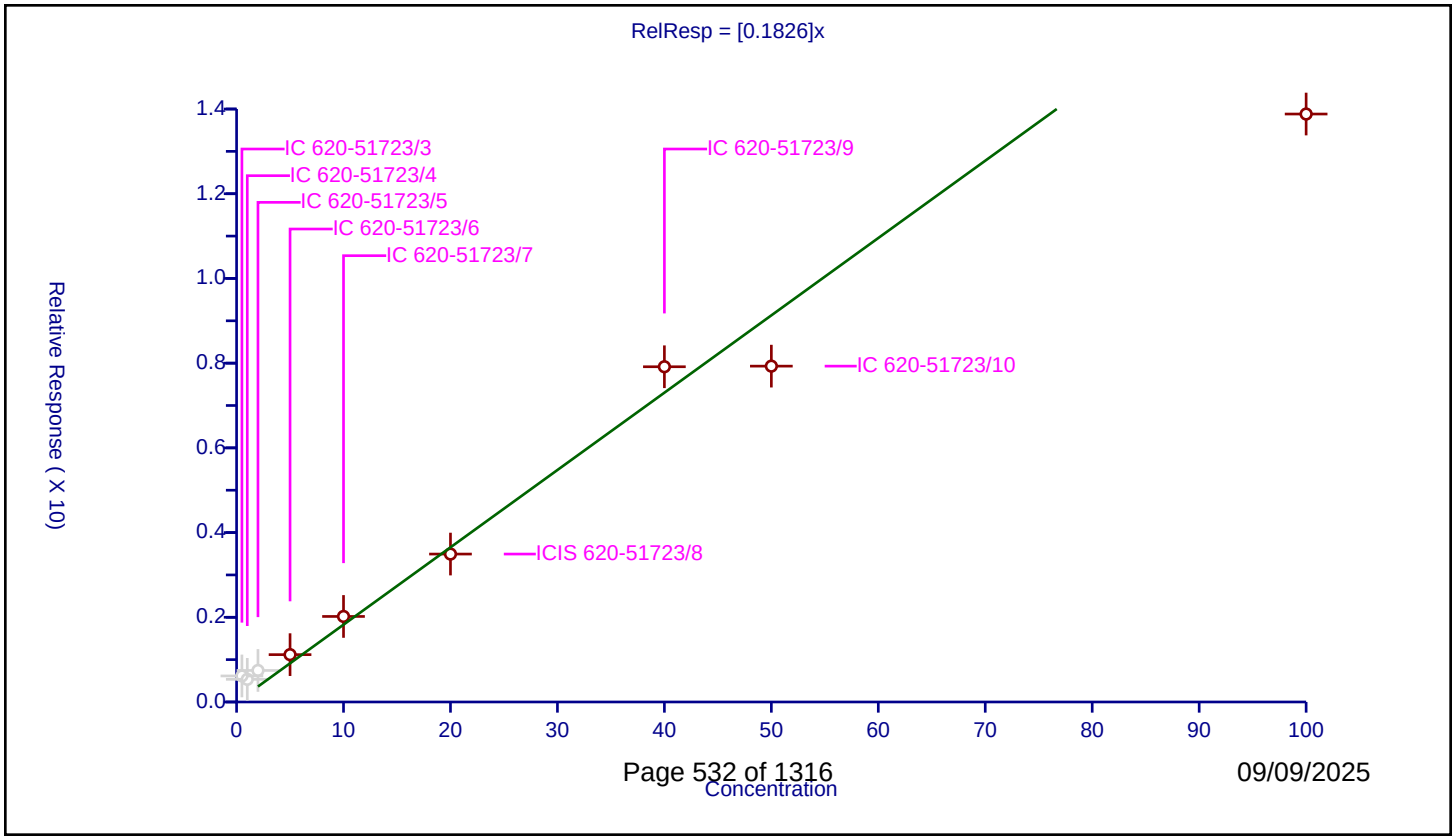
Curve Coefficients

Intercept:	0
Slope:	0.1826

Error Coefficients

Relative Standard Deviation:	17.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.615034	50.0	367866.0	1.230067	N
2	IC 620-51723/4	1.0	0.535018	50.0	363913.0	0.535018	N
3	IC 620-51723/5	2.0	0.744698	50.0	355782.0	0.372349	N
4	IC 620-51723/6	5.0	1.117576	50.0	360065.0	0.223515	Y
5	IC 620-51723/7	10.0	2.019637	50.0	347414.0	0.201964	Y
6	ICIS 620-51723/8	20.0	3.492475	50.0	346631.0	0.174624	Y
7	IC 620-51723/9	40.0	7.915205	50.0	352663.0	0.19788	Y
8	IC 620-51723/10	50.0	7.929308	50.0	364767.0	0.158586	Y
9	IC 620-51723/11	100.0	13.881703	50.0	383069.0	0.138817	Y



09/09/2025

Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

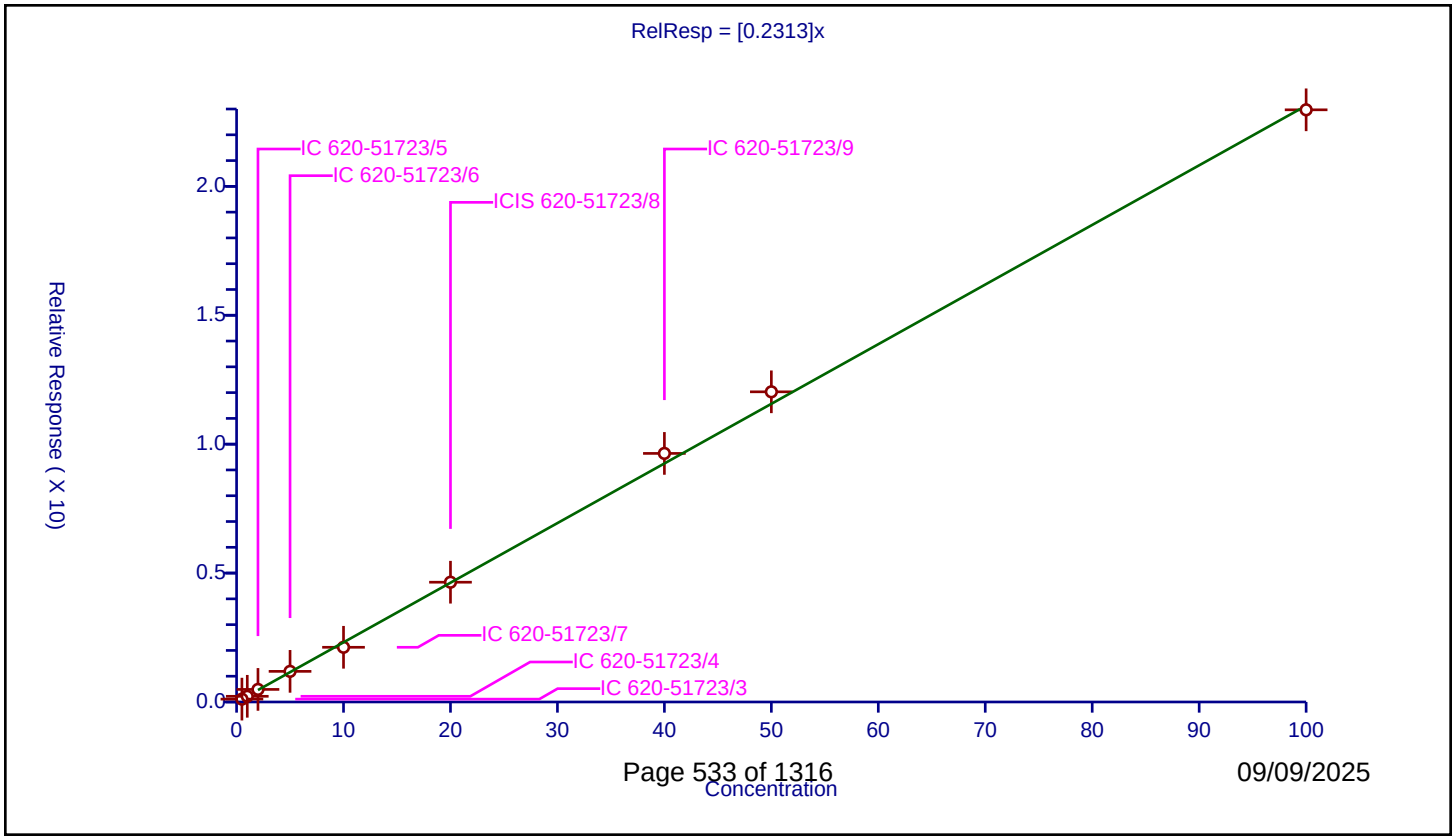
Curve Coefficients

Intercept:	0
Slope:	0.2313

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.11159	50.0	367866.0	0.223179	Y
2	IC 620-51723/4	1.0	0.221344	50.0	363913.0	0.221344	Y
3	IC 620-51723/5	2.0	0.487377	50.0	355782.0	0.243689	Y
4	IC 620-51723/6	5.0	1.188119	50.0	360065.0	0.237624	Y
5	IC 620-51723/7	10.0	2.121676	50.0	347414.0	0.212168	Y
6	ICIS 620-51723/8	20.0	4.646007	50.0	346631.0	0.2323	Y
7	IC 620-51723/9	40.0	9.641499	50.0	352663.0	0.241037	Y
8	IC 620-51723/10	50.0	12.030694	50.0	364767.0	0.240614	Y
9	IC 620-51723/11	100.0	22.968577	50.0	383069.0	0.229686	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

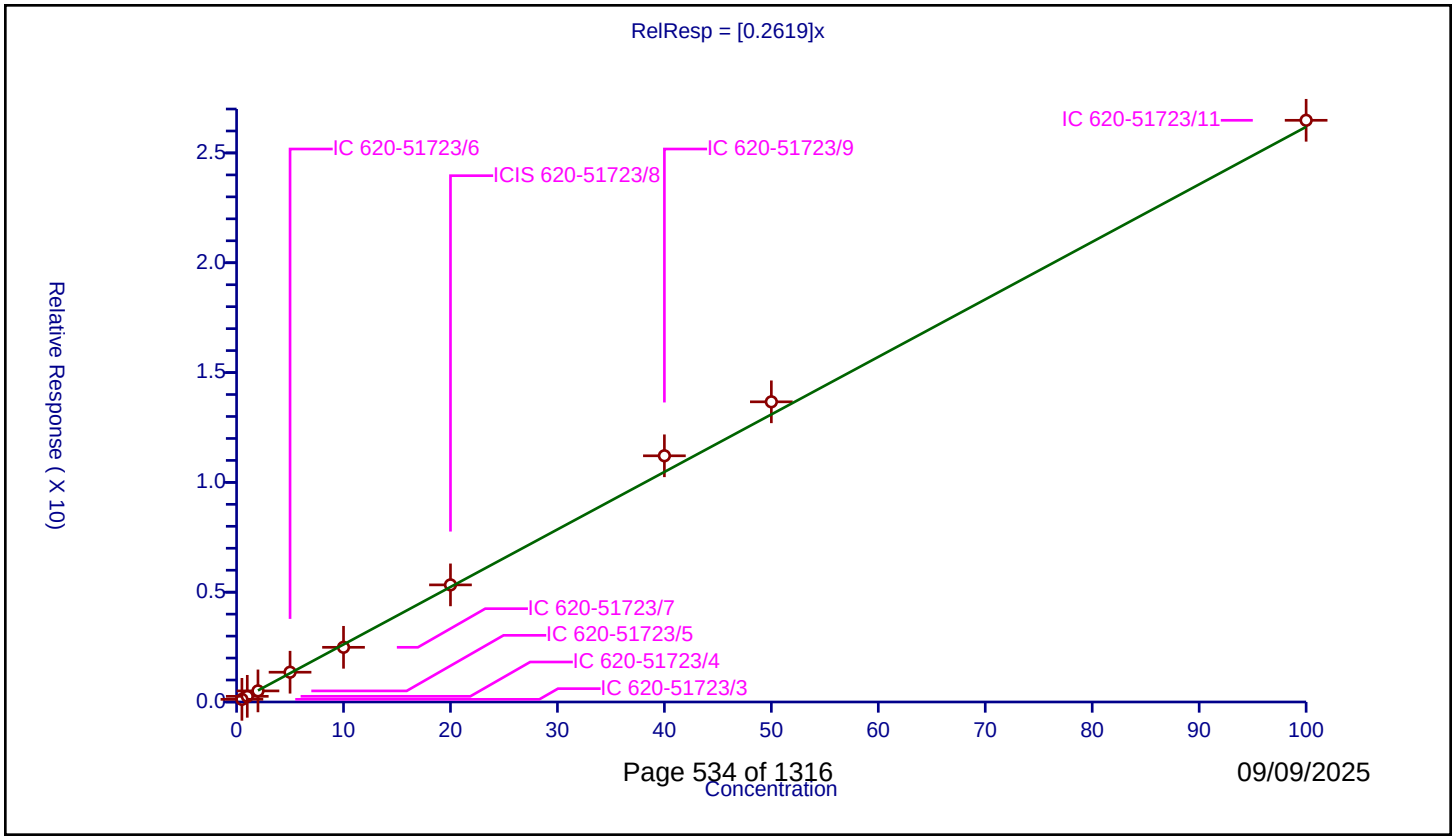
Curve Coefficients

Intercept:	0
Slope:	0.2619

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.120288	50.0	367866.0	0.240577	Y
2	IC 620-51723/4	1.0	0.258578	50.0	363913.0	0.258578	Y
3	IC 620-51723/5	2.0	0.504804	50.0	355782.0	0.252402	Y
4	IC 620-51723/6	5.0	1.356005	50.0	360065.0	0.271201	Y
5	IC 620-51723/7	10.0	2.489969	50.0	347414.0	0.248997	Y
6	ICIS 620-51723/8	20.0	5.331895	50.0	346631.0	0.266595	Y
7	IC 620-51723/9	40.0	11.210703	50.0	352663.0	0.280268	Y
8	IC 620-51723/10	50.0	13.667903	50.0	364767.0	0.273358	Y
9	IC 620-51723/11	100.0	26.486482	50.0	383069.0	0.264865	Y



Calibration / Iodomethane

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

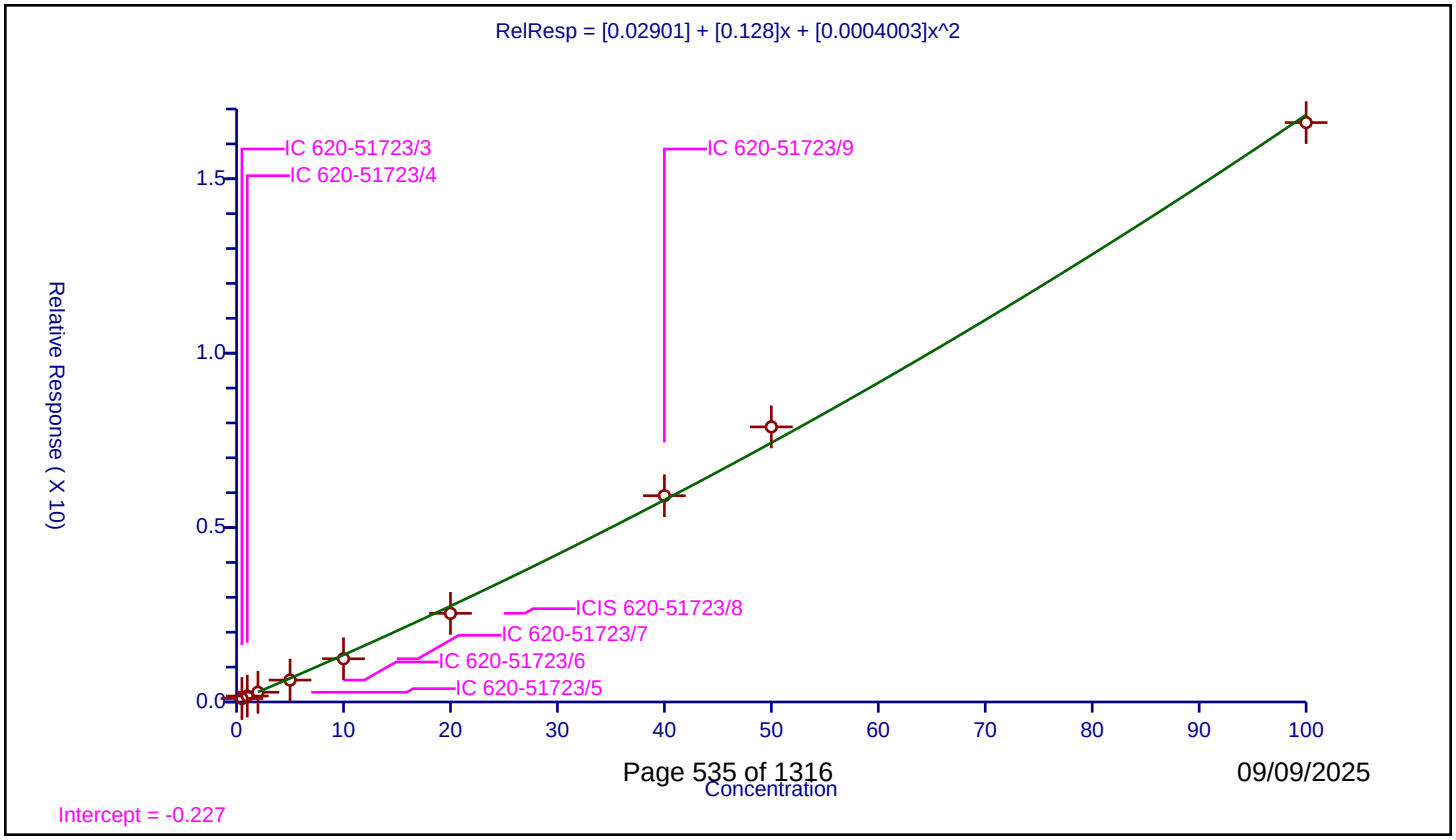
Curve Coefficients

Intercept:	0.02901
Slope:	0.128
Second Order:	0.0004003

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.099765	50.0	367866.0	0.199529	Y
2	IC 620-51723/4	1.0	0.169683	50.0	363913.0	0.169683	Y
3	IC 620-51723/5	2.0	0.278541	50.0	355782.0	0.139271	Y
4	IC 620-51723/6	5.0	0.628359	50.0	360065.0	0.125672	Y
5	IC 620-51723/7	10.0	1.239443	50.0	347414.0	0.123944	Y
6	ICIS 620-51723/8	20.0	2.541896	50.0	346631.0	0.127095	Y
7	IC 620-51723/9	40.0	5.914003	50.0	352663.0	0.14785	Y
8	IC 620-51723/10	50.0	7.88613	50.0	364767.0	0.157723	Y
9	IC 620-51723/11	100.0	16.610976	50.0	383069.0	0.16611	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

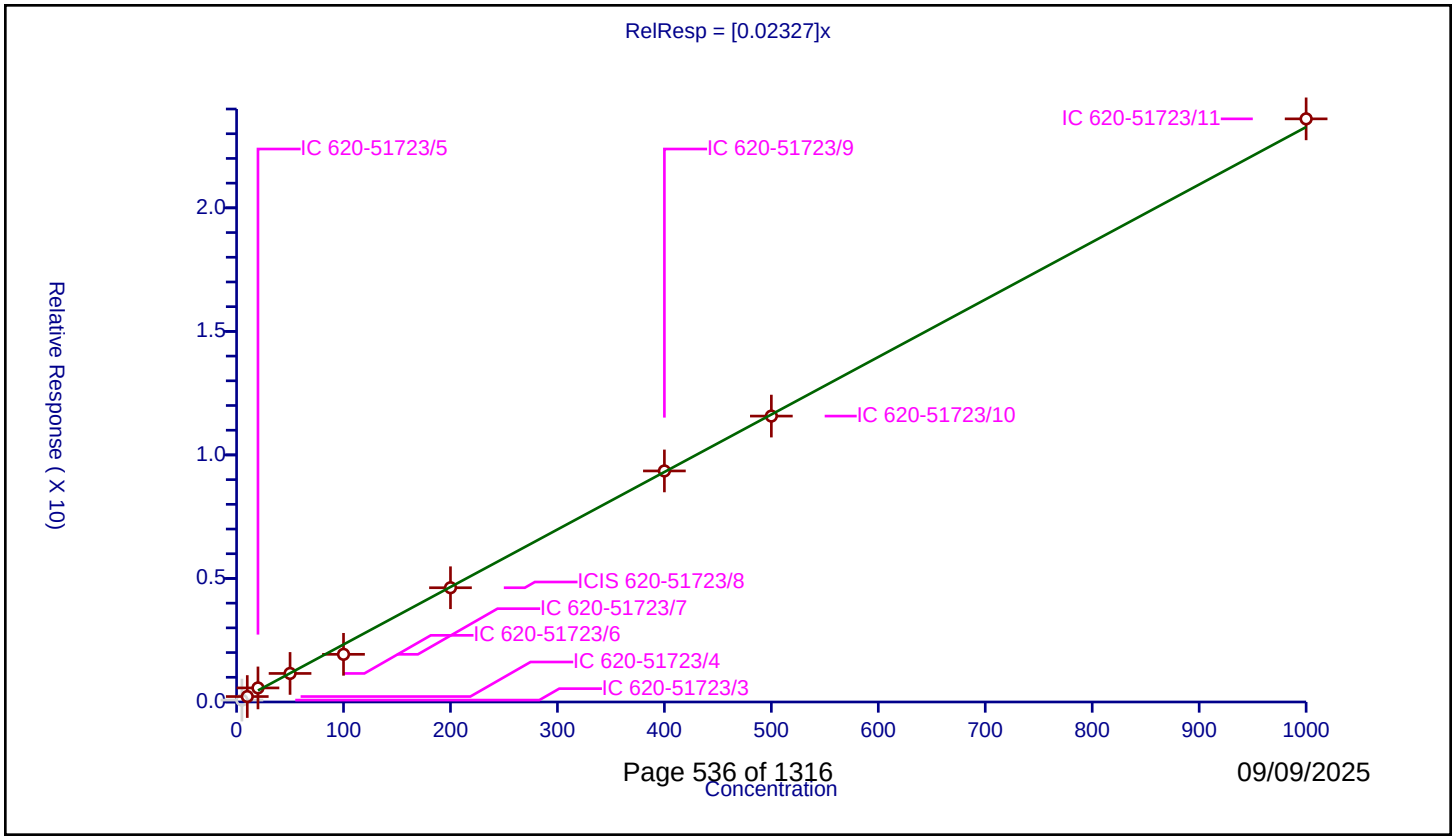
Curve Coefficients

Intercept:	0
Slope:	0.02327

Error Coefficients

Relative Standard Deviation:	10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	5.0	0.077202	50.0	367866.0	0.01544	N
2	IC 620-51723/4	10.0	0.220382	50.0	363913.0	0.022038	Y
3	IC 620-51723/5	20.0	0.56959	50.0	355782.0	0.02848	Y
4	IC 620-51723/6	50.0	1.155486	50.0	360065.0	0.02311	Y
5	IC 620-51723/7	100.0	1.928823	50.0	347414.0	0.019288	Y
6	ICIS 620-51723/8	200.0	4.62437	50.0	346631.0	0.023122	Y
7	IC 620-51723/9	400.0	9.352129	50.0	352663.0	0.02338	Y
8	IC 620-51723/10	500.0	11.572045	50.0	364767.0	0.023144	Y
9	IC 620-51723/11	1000.0	23.602014	50.0	383069.0	0.023602	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

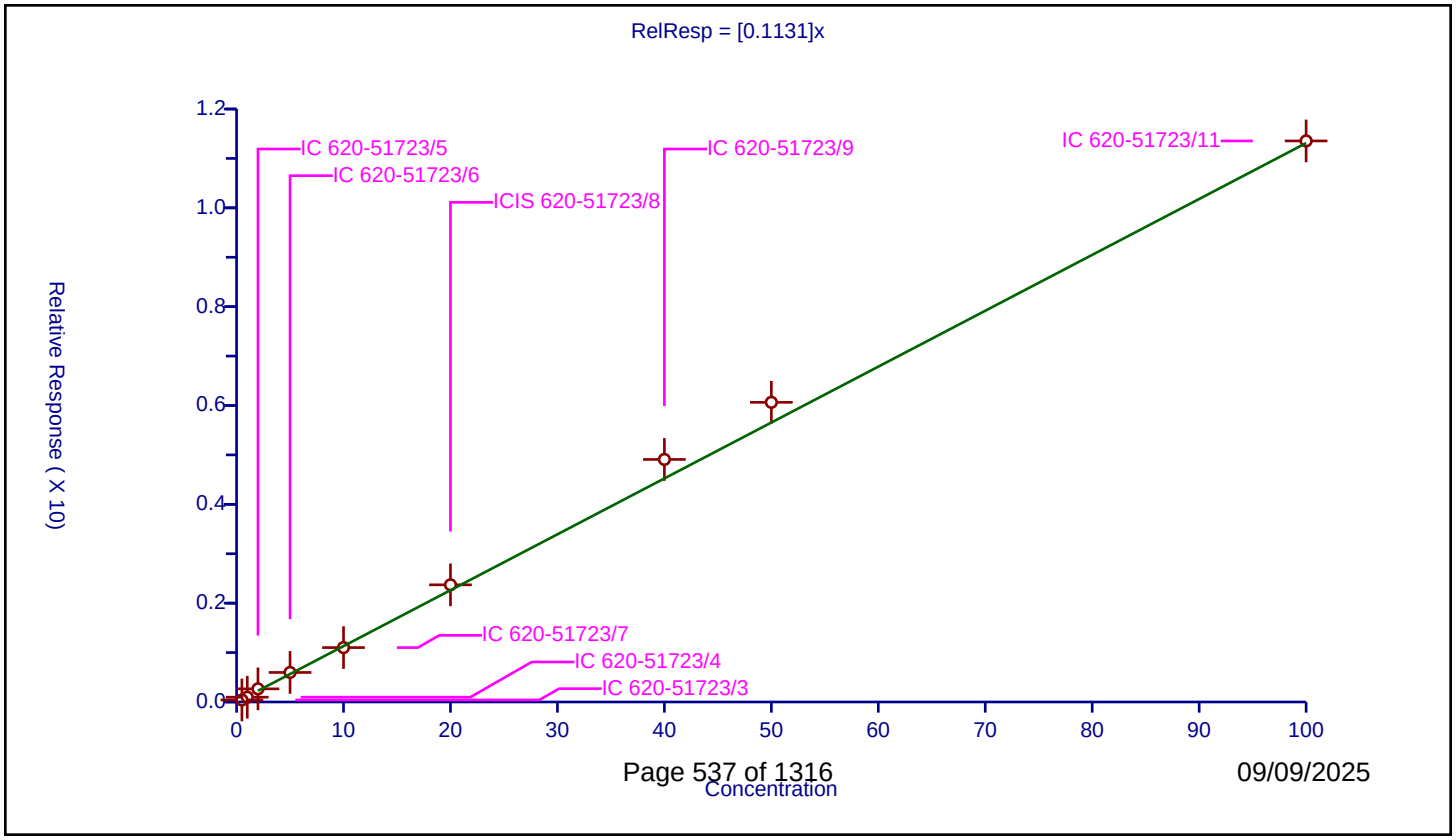
Curve Coefficients

Intercept:	0
Slope:	0.1131

Error Coefficients

Relative Standard Deviation:	13.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.041048	50.0	367866.0	0.082095	Y
2	IC 620-51723/4	1.0	0.097139	50.0	363913.0	0.097139	Y
3	IC 620-51723/5	2.0	0.266034	50.0	355782.0	0.133017	Y
4	IC 620-51723/6	5.0	0.59767	50.0	360065.0	0.119534	Y
5	IC 620-51723/7	10.0	1.100416	50.0	347414.0	0.110042	Y
6	ICIS 620-51723/8	20.0	2.371109	50.0	346631.0	0.118555	Y
7	IC 620-51723/9	40.0	4.908227	50.0	352663.0	0.122706	Y
8	IC 620-51723/10	50.0	6.064419	50.0	364767.0	0.121288	Y
9	IC 620-51723/11	100.0	11.35409	50.0	383069.0	0.113541	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

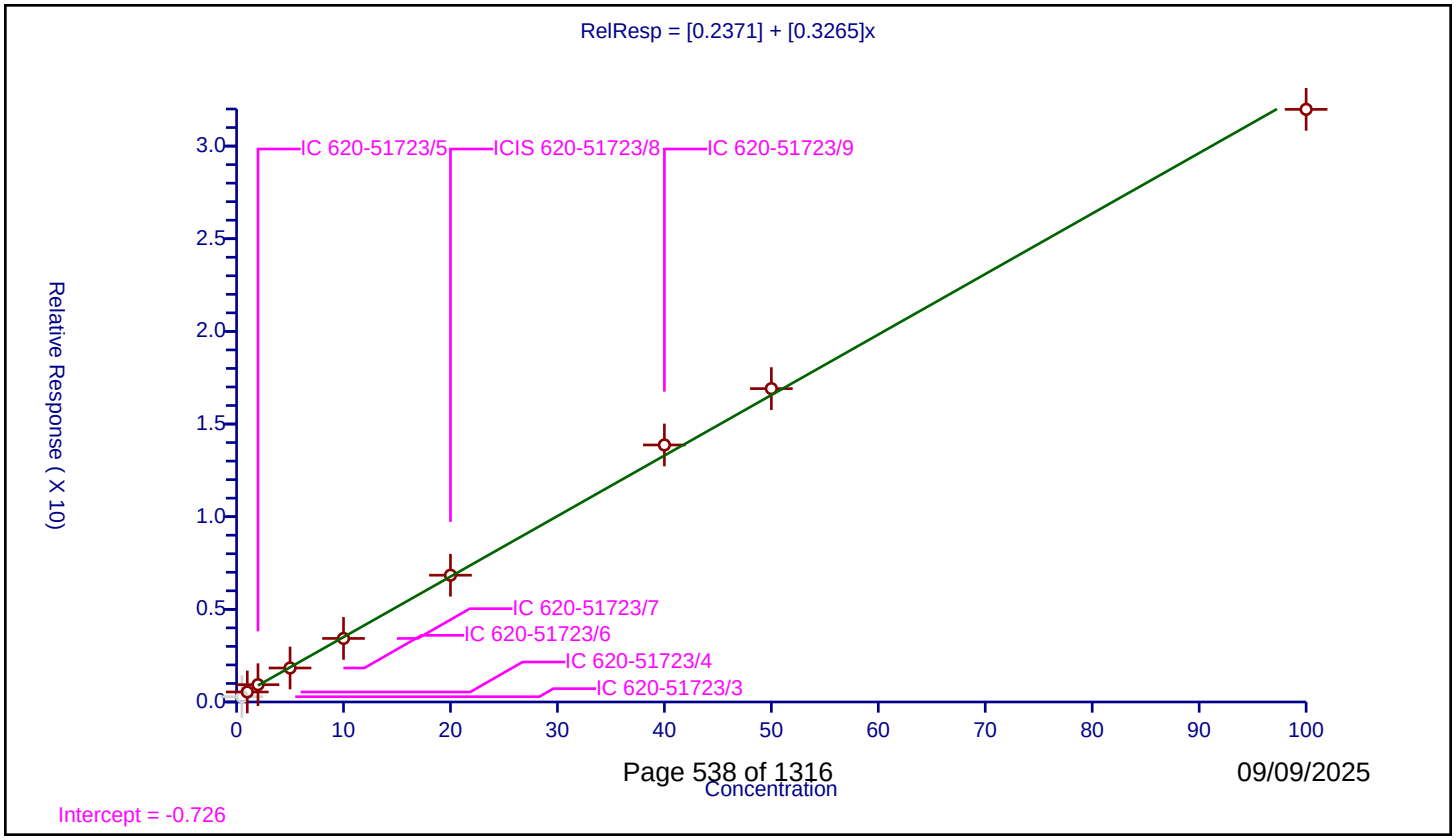
Curve Coefficients

Intercept:	0.2371
Slope:	0.3265

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.285974	50.0	367866.0	0.571947	N
2	IC 620-51723/4	1.0	0.539689	50.0	363913.0	0.539689	Y
3	IC 620-51723/5	2.0	0.934842	50.0	355782.0	0.467421	Y
4	IC 620-51723/6	5.0	1.834252	50.0	360065.0	0.36685	Y
5	IC 620-51723/7	10.0	3.429338	50.0	347414.0	0.342934	Y
6	ICIS 620-51723/8	20.0	6.841569	50.0	346631.0	0.342078	Y
7	IC 620-51723/9	40.0	13.870324	50.0	352663.0	0.346758	Y
8	IC 620-51723/10	50.0	16.911892	50.0	364767.0	0.338238	Y
9	IC 620-51723/11	100.0	31.981184	50.0	383069.0	0.319812	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

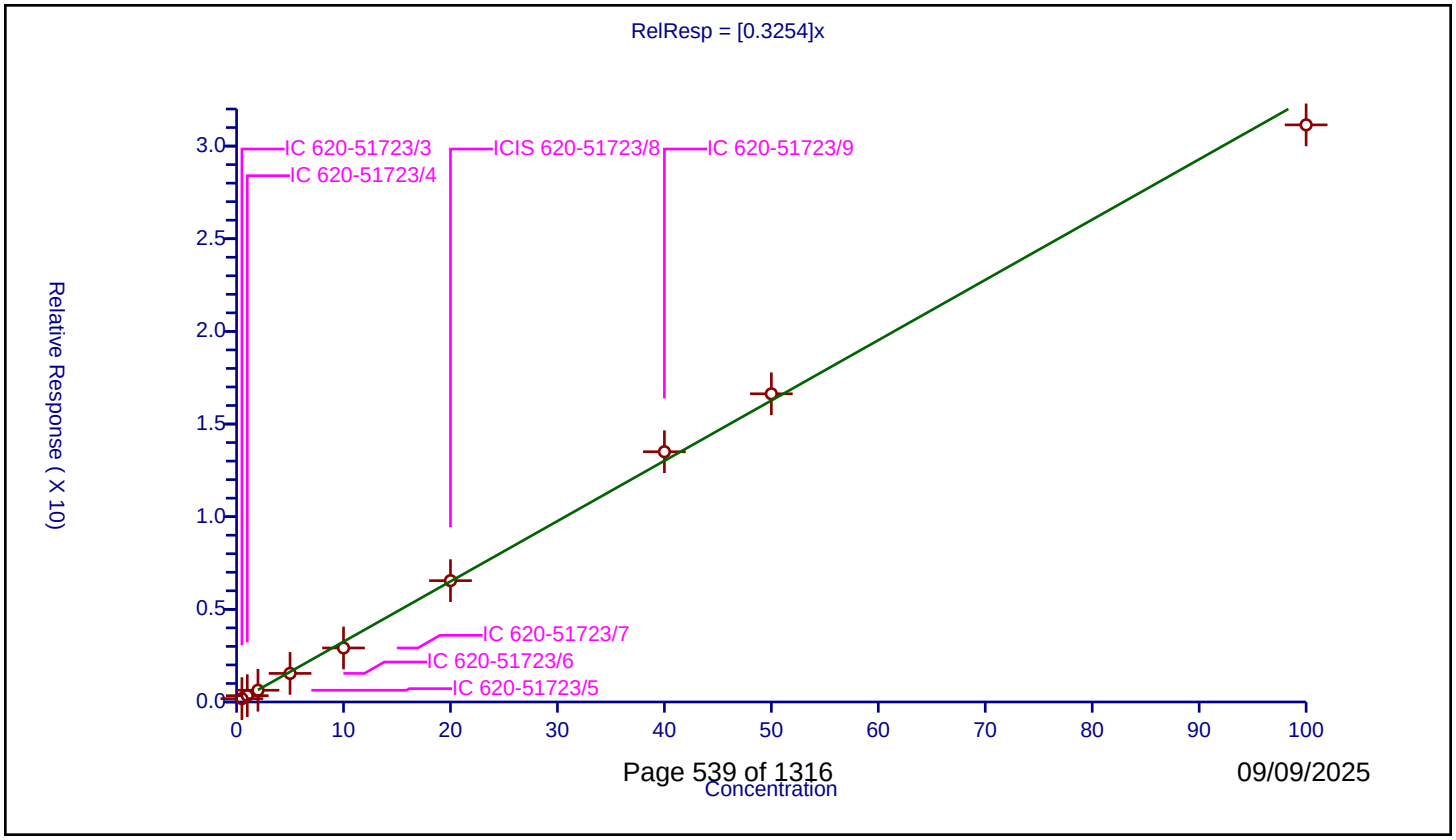
Curve Coefficients

Intercept:	0
Slope:	0.3254

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.181316	50.0	367866.0	0.362632	Y
2	IC 620-51723/4	1.0	0.339779	50.0	363913.0	0.339779	Y
3	IC 620-51723/5	2.0	0.634096	50.0	355782.0	0.317048	Y
4	IC 620-51723/6	5.0	1.542083	50.0	360065.0	0.308417	Y
5	IC 620-51723/7	10.0	2.915398	50.0	347414.0	0.29154	Y
6	ICIS 620-51723/8	20.0	6.548462	50.0	346631.0	0.327423	Y
7	IC 620-51723/9	40.0	13.505386	50.0	352663.0	0.337635	Y
8	IC 620-51723/10	50.0	16.632809	50.0	364767.0	0.332656	Y
9	IC 620-51723/11	100.0	31.143214	50.0	383069.0	0.311432	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

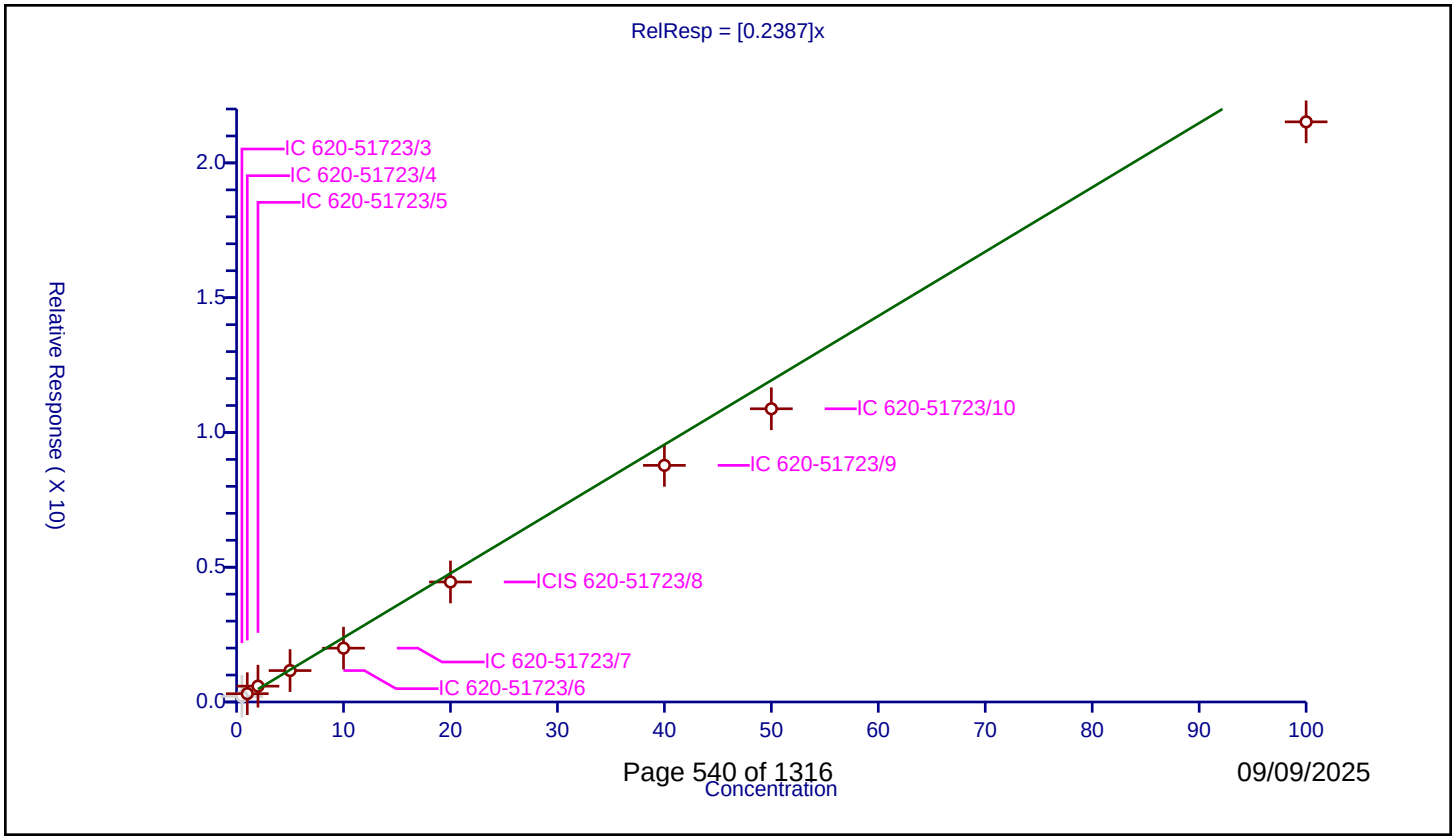
Curve Coefficients

Intercept:	0
Slope:	0.2387

Error Coefficients

Relative Standard Deviation:	16.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.207277	50.0	367866.0	0.414553	N
2	IC 620-51723/4	1.0	0.307766	50.0	363913.0	0.307766	Y
3	IC 620-51723/5	2.0	0.587438	50.0	355782.0	0.293719	Y
4	IC 620-51723/6	5.0	1.166039	50.0	360065.0	0.233208	Y
5	IC 620-51723/7	10.0	1.997041	50.0	347414.0	0.199704	Y
6	ICIS 620-51723/8	20.0	4.452285	50.0	346631.0	0.222614	Y
7	IC 620-51723/9	40.0	8.778777	50.0	352663.0	0.219469	Y
8	IC 620-51723/10	50.0	10.878725	50.0	364767.0	0.217575	Y
9	IC 620-51723/11	100.0	21.523668	50.0	383069.0	0.215237	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

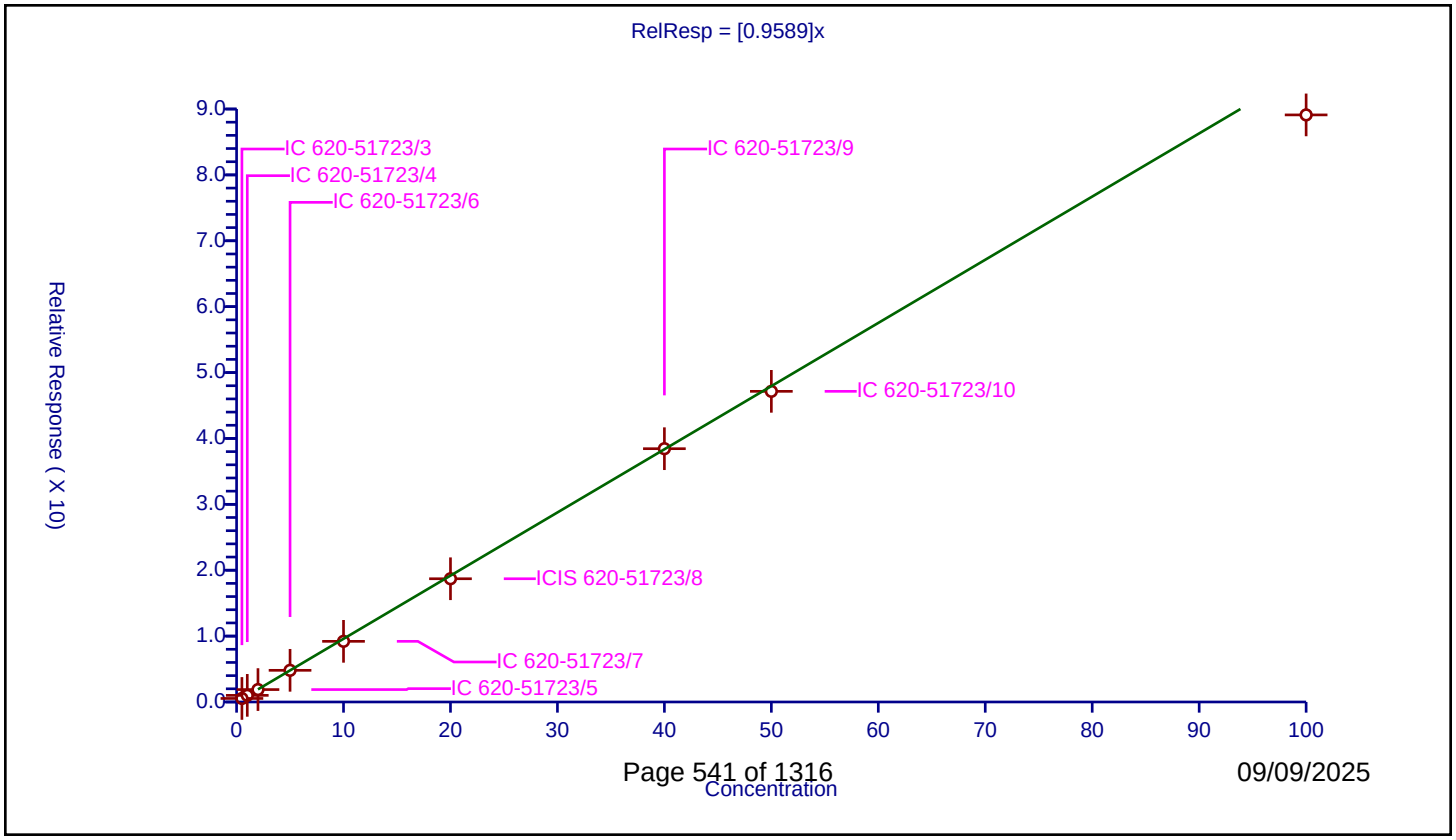
Curve Coefficients

Intercept:	0
Slope:	0.9589

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.534841	50.0	367866.0	1.069683	Y
2	IC 620-51723/4	1.0	1.005323	50.0	363913.0	1.005323	Y
3	IC 620-51723/5	2.0	1.885565	50.0	355782.0	0.942782	Y
4	IC 620-51723/6	5.0	4.80441	50.0	360065.0	0.960882	Y
5	IC 620-51723/7	10.0	9.206451	50.0	347414.0	0.920645	Y
6	ICIS 620-51723/8	20.0	18.706348	50.0	346631.0	0.935317	Y
7	IC 620-51723/9	40.0	38.442507	50.0	352663.0	0.961063	Y
8	IC 620-51723/10	50.0	47.150647	50.0	364767.0	0.943013	Y
9	IC 620-51723/11	100.0	89.105618	50.0	383069.0	0.891056	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

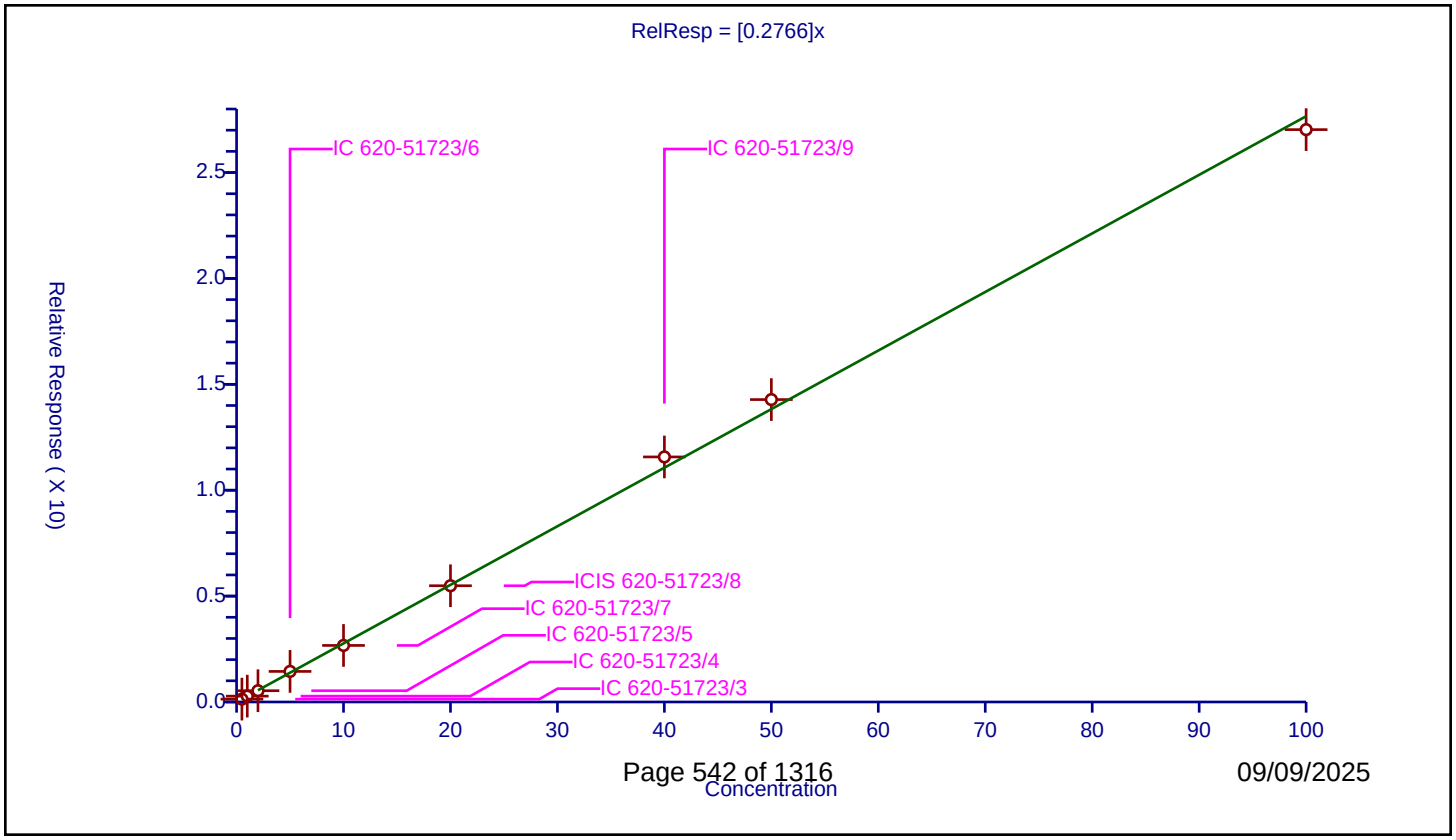
Curve Coefficients

Intercept:	0
Slope:	0.2766

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.135783	50.0	367866.0	0.271566	Y
2	IC 620-51723/4	1.0	0.276028	50.0	363913.0	0.276028	Y
3	IC 620-51723/5	2.0	0.532489	50.0	355782.0	0.266244	Y
4	IC 620-51723/6	5.0	1.443906	50.0	360065.0	0.288781	Y
5	IC 620-51723/7	10.0	2.669869	50.0	347414.0	0.266987	Y
6	ICIS 620-51723/8	20.0	5.489122	50.0	346631.0	0.274456	Y
7	IC 620-51723/9	40.0	11.57082	50.0	352663.0	0.28927	Y
8	IC 620-51723/10	50.0	14.280075	50.0	364767.0	0.285601	Y
9	IC 620-51723/11	100.0	27.026985	50.0	383069.0	0.27027	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

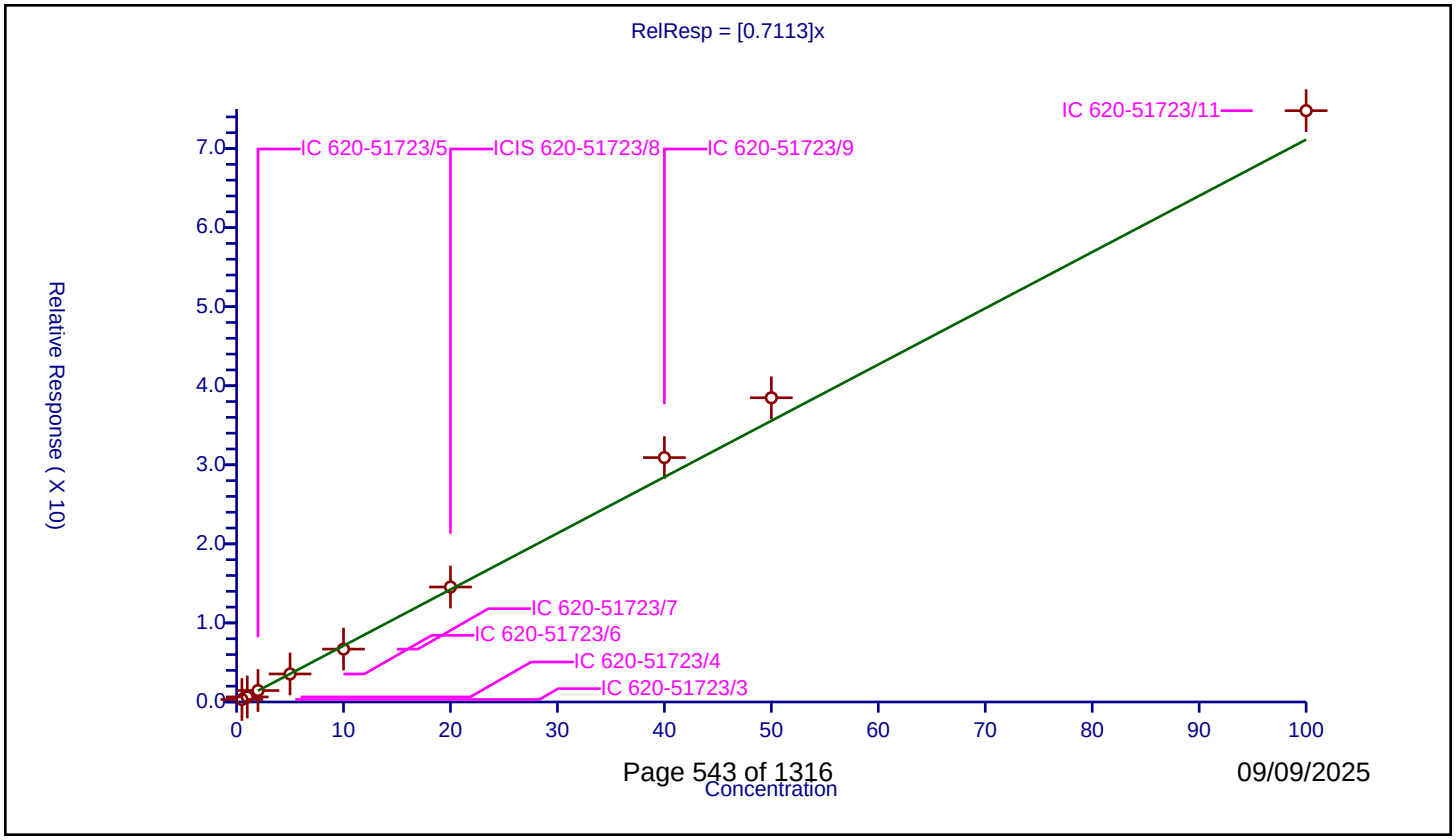
Curve Coefficients

Intercept:	0
Slope:	0.7113

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.319274	50.0	367866.0	0.638548	Y
2	IC 620-51723/4	1.0	0.643973	50.0	363913.0	0.643973	Y
3	IC 620-51723/5	2.0	1.447375	50.0	355782.0	0.723688	Y
4	IC 620-51723/6	5.0	3.54561	50.0	360065.0	0.709122	Y
5	IC 620-51723/7	10.0	6.690289	50.0	347414.0	0.669029	Y
6	ICIS 620-51723/8	20.0	14.541544	50.0	346631.0	0.727077	Y
7	IC 620-51723/9	40.0	30.910388	50.0	352663.0	0.77276	Y
8	IC 620-51723/10	50.0	38.479221	50.0	364767.0	0.769584	Y
9	IC 620-51723/11	100.0	74.789398	50.0	383069.0	0.747894	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

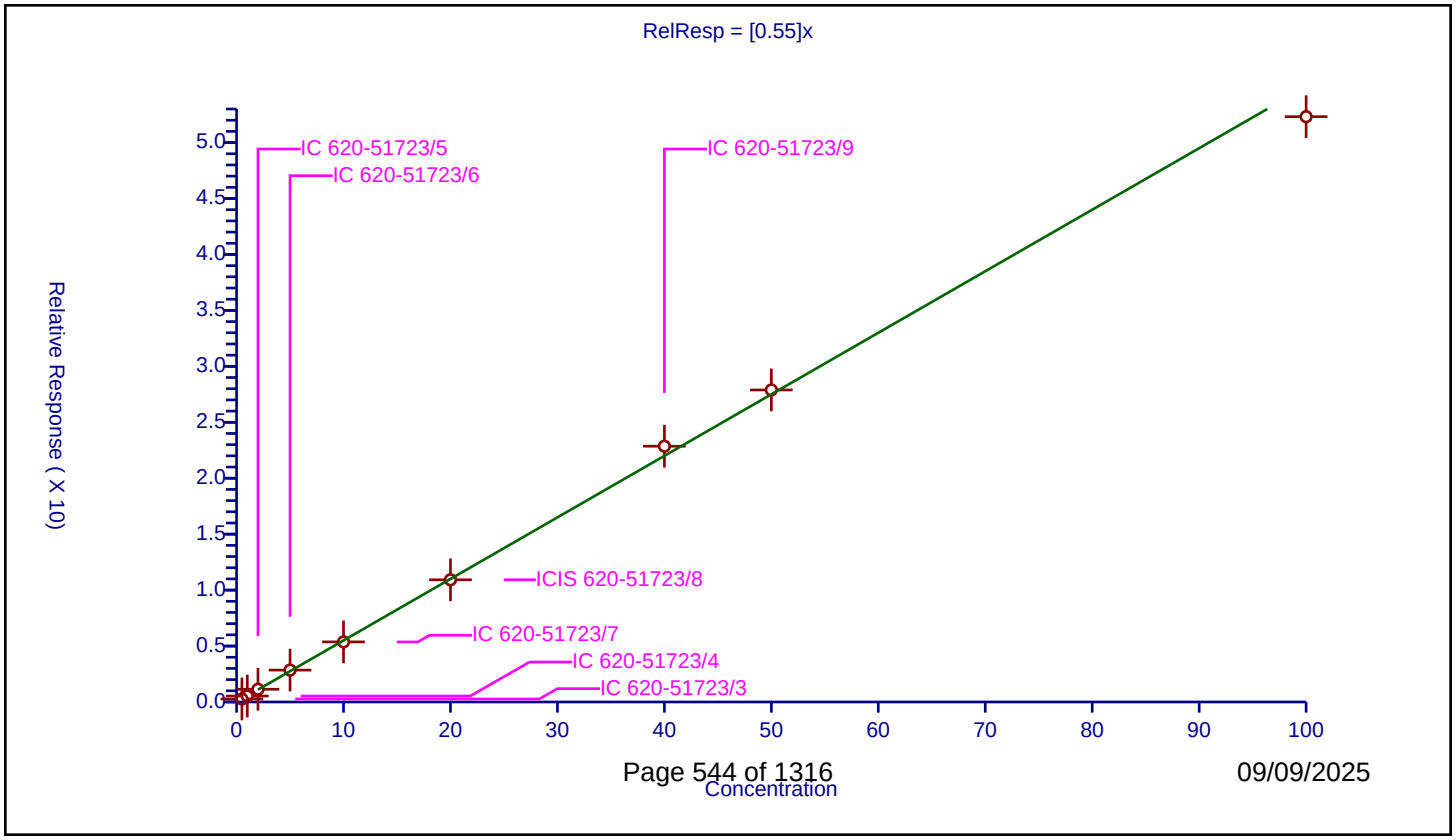
Curve Coefficients

Intercept:	0
Slope:	0.55

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.270071	50.0	367866.0	0.540142	Y
2	IC 620-51723/4	1.0	0.535155	50.0	363913.0	0.535155	Y
3	IC 620-51723/5	2.0	1.138338	50.0	355782.0	0.569169	Y
4	IC 620-51723/6	5.0	2.849069	50.0	360065.0	0.569814	Y
5	IC 620-51723/7	10.0	5.370106	50.0	347414.0	0.537011	Y
6	ICIS 620-51723/8	20.0	10.921556	50.0	346631.0	0.546078	Y
7	IC 620-51723/9	40.0	22.860351	50.0	352663.0	0.571509	Y
8	IC 620-51723/10	50.0	27.890133	50.0	364767.0	0.557803	Y
9	IC 620-51723/11	100.0	52.31551	50.0	383069.0	0.523155	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

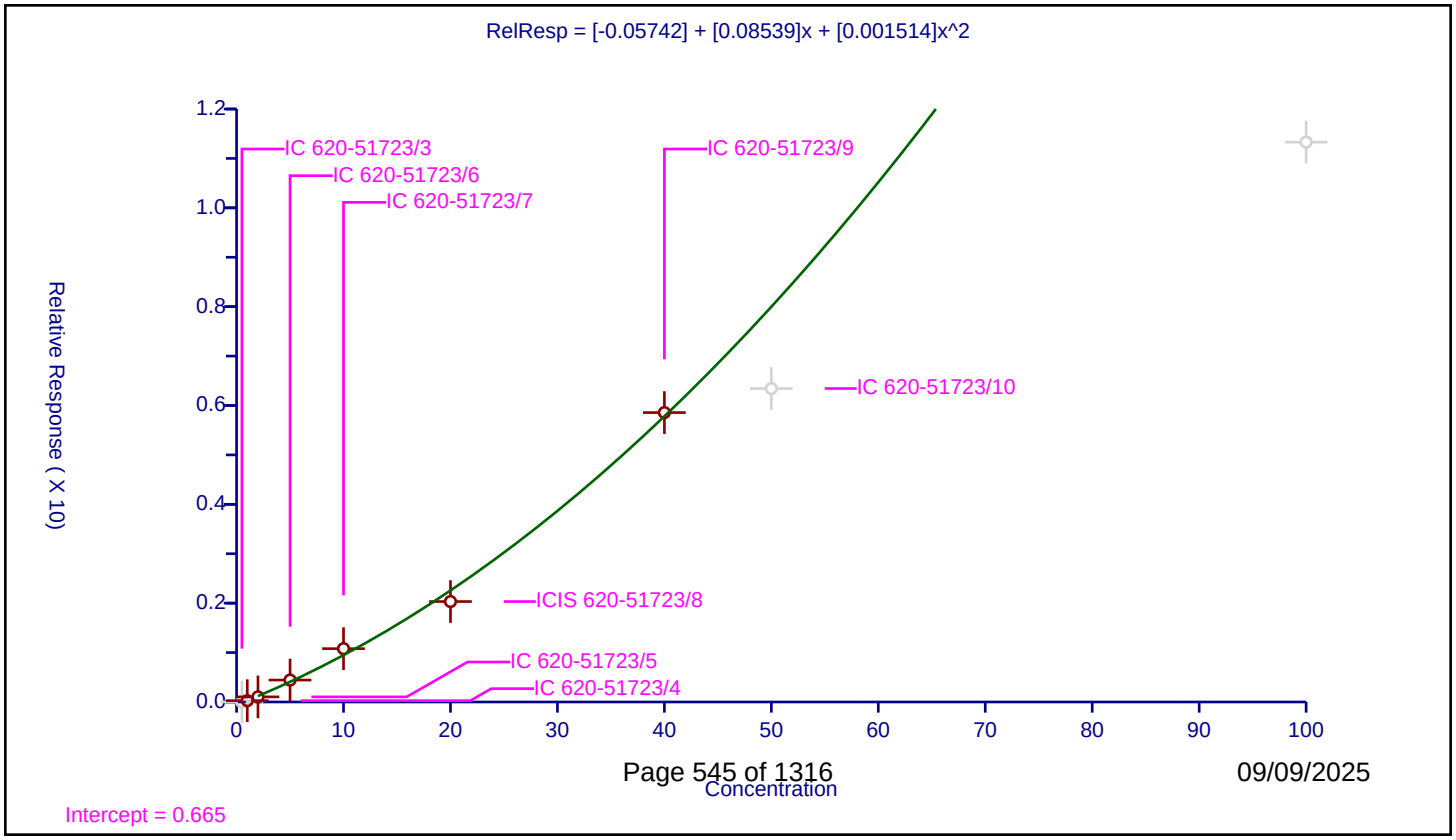
Curve Coefficients

Intercept:	-0.05742
Slope:	0.08539
Second Order:	0.001514

Error Coefficients

Relative Standard Deviation:	10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.0	50.0	367866.0	0.0	N
2	IC 620-51723/4	1.0	0.026517	50.0	363913.0	0.026517	Y
3	IC 620-51723/5	2.0	0.103153	50.0	355782.0	0.051577	Y
4	IC 620-51723/6	5.0	0.443809	50.0	360065.0	0.088762	Y
5	IC 620-51723/7	10.0	1.078972	50.0	347414.0	0.107897	Y
6	ICIS 620-51723/8	20.0	2.032421	50.0	346631.0	0.101621	Y
7	IC 620-51723/9	40.0	5.856441	50.0	352663.0	0.146411	Y
8	IC 620-51723/10	50.0	6.343501	50.0	364767.0	0.12687	N
9	IC 620-51723/11	100.0	11.329943	50.0	383069.0	0.113299	N



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

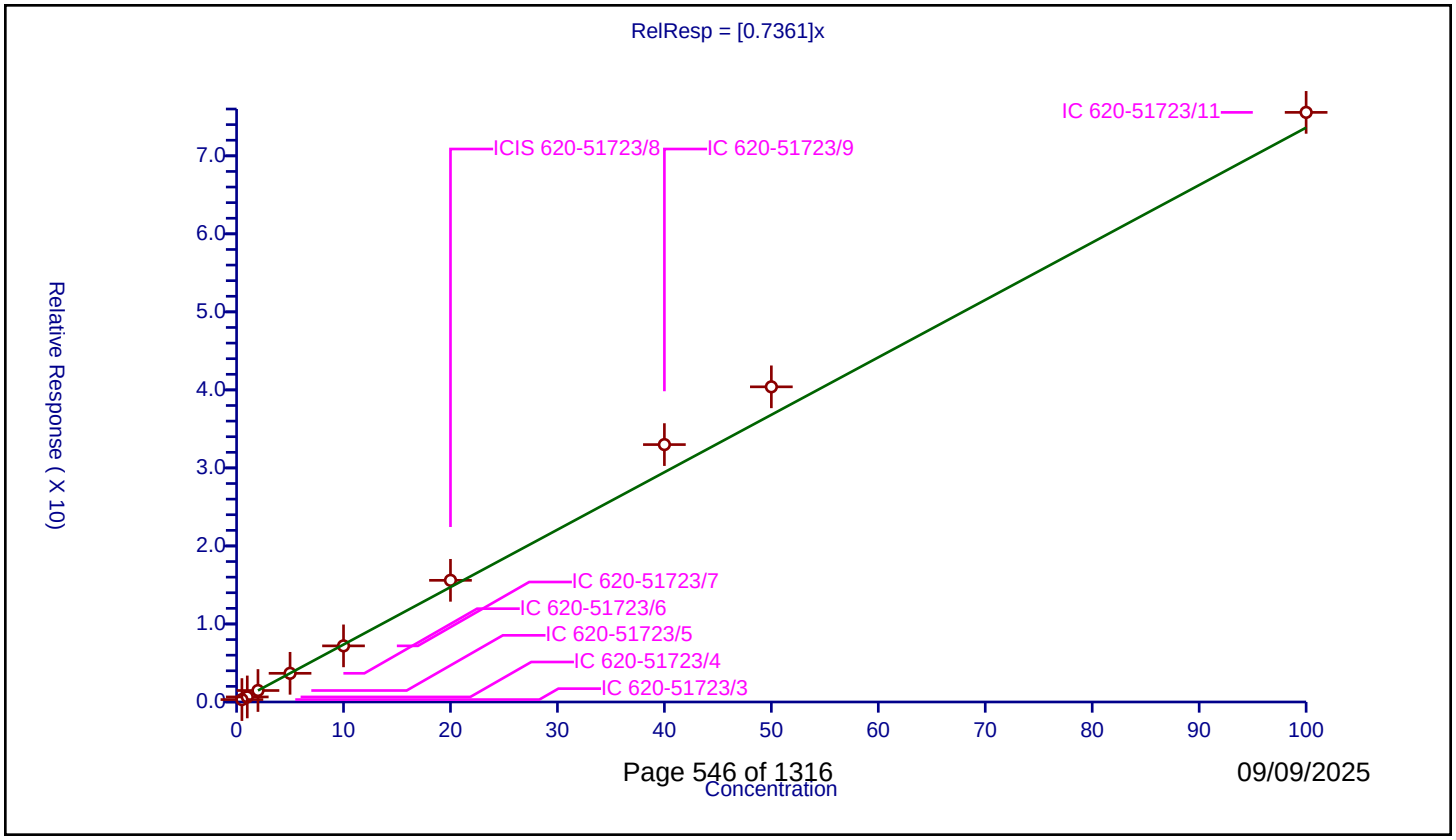
Curve Coefficients

Intercept:	0
Slope:	0.7361

Error Coefficients

Relative Standard Deviation:	9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.309488	50.0	367866.0	0.618975	Y
2	IC 620-51723/4	1.0	0.647957	50.0	363913.0	0.647957	Y
3	IC 620-51723/5	2.0	1.472109	50.0	355782.0	0.736055	Y
4	IC 620-51723/6	5.0	3.674753	50.0	360065.0	0.734951	Y
5	IC 620-51723/7	10.0	7.193579	50.0	347414.0	0.719358	Y
6	ICIS 620-51723/8	20.0	15.594826	50.0	346631.0	0.779741	Y
7	IC 620-51723/9	40.0	32.988859	50.0	352663.0	0.824721	Y
8	IC 620-51723/10	50.0	40.391949	50.0	364767.0	0.807839	Y
9	IC 620-51723/11	100.0	75.570459	50.0	383069.0	0.755705	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

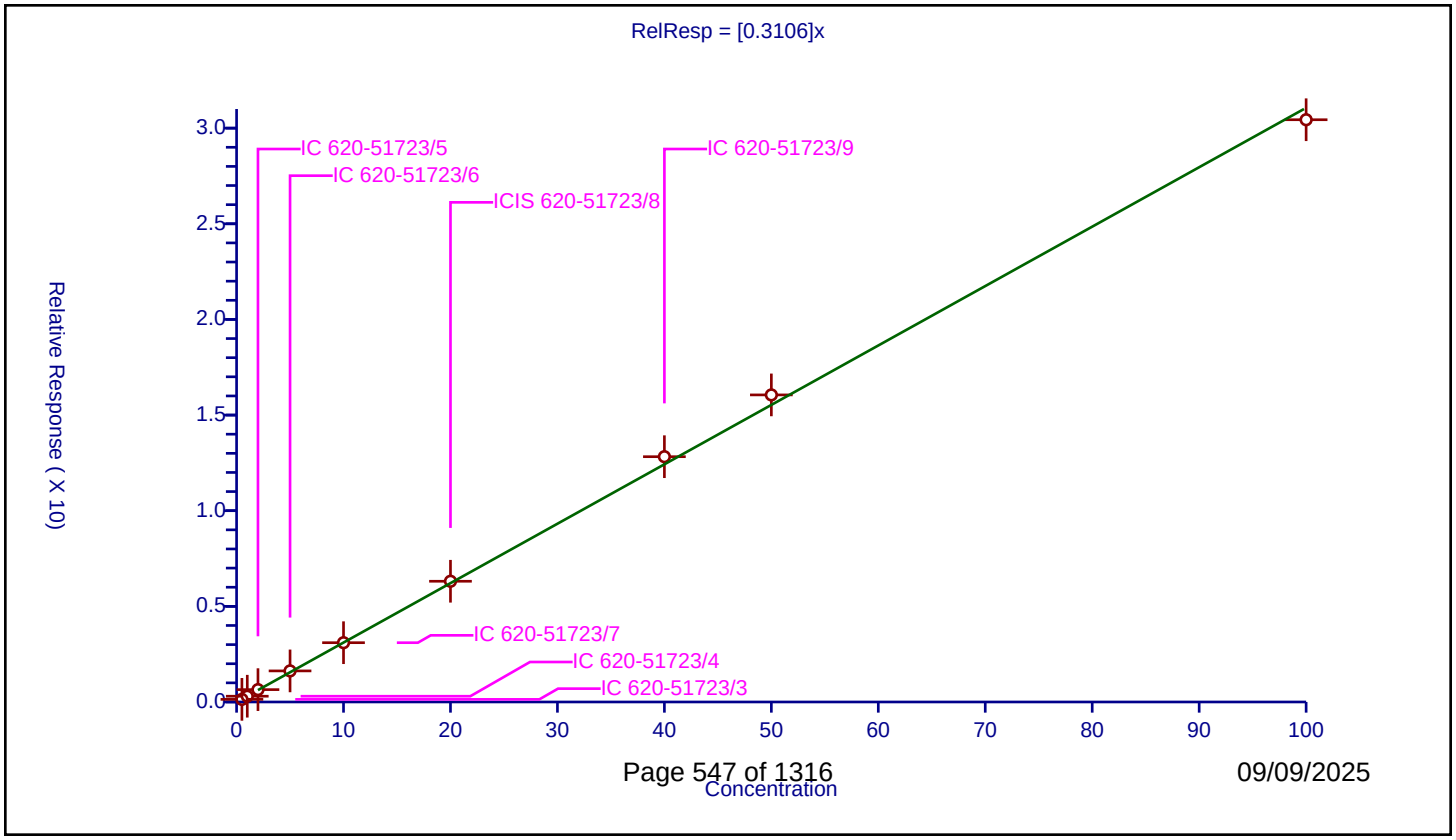
Curve Coefficients

Intercept:	0
Slope:	0.3106

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.136735	50.0	367866.0	0.273469	Y
2	IC 620-51723/4	1.0	0.302133	50.0	363913.0	0.302133	Y
3	IC 620-51723/5	2.0	0.646744	50.0	355782.0	0.323372	Y
4	IC 620-51723/6	5.0	1.625123	50.0	360065.0	0.325025	Y
5	IC 620-51723/7	10.0	3.099328	50.0	347414.0	0.309933	Y
6	ICIS 620-51723/8	20.0	6.311899	50.0	346631.0	0.315595	Y
7	IC 620-51723/9	40.0	12.823857	50.0	352663.0	0.320596	Y
8	IC 620-51723/10	50.0	16.05381	50.0	364767.0	0.321076	Y
9	IC 620-51723/11	100.0	30.440208	50.0	383069.0	0.304402	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

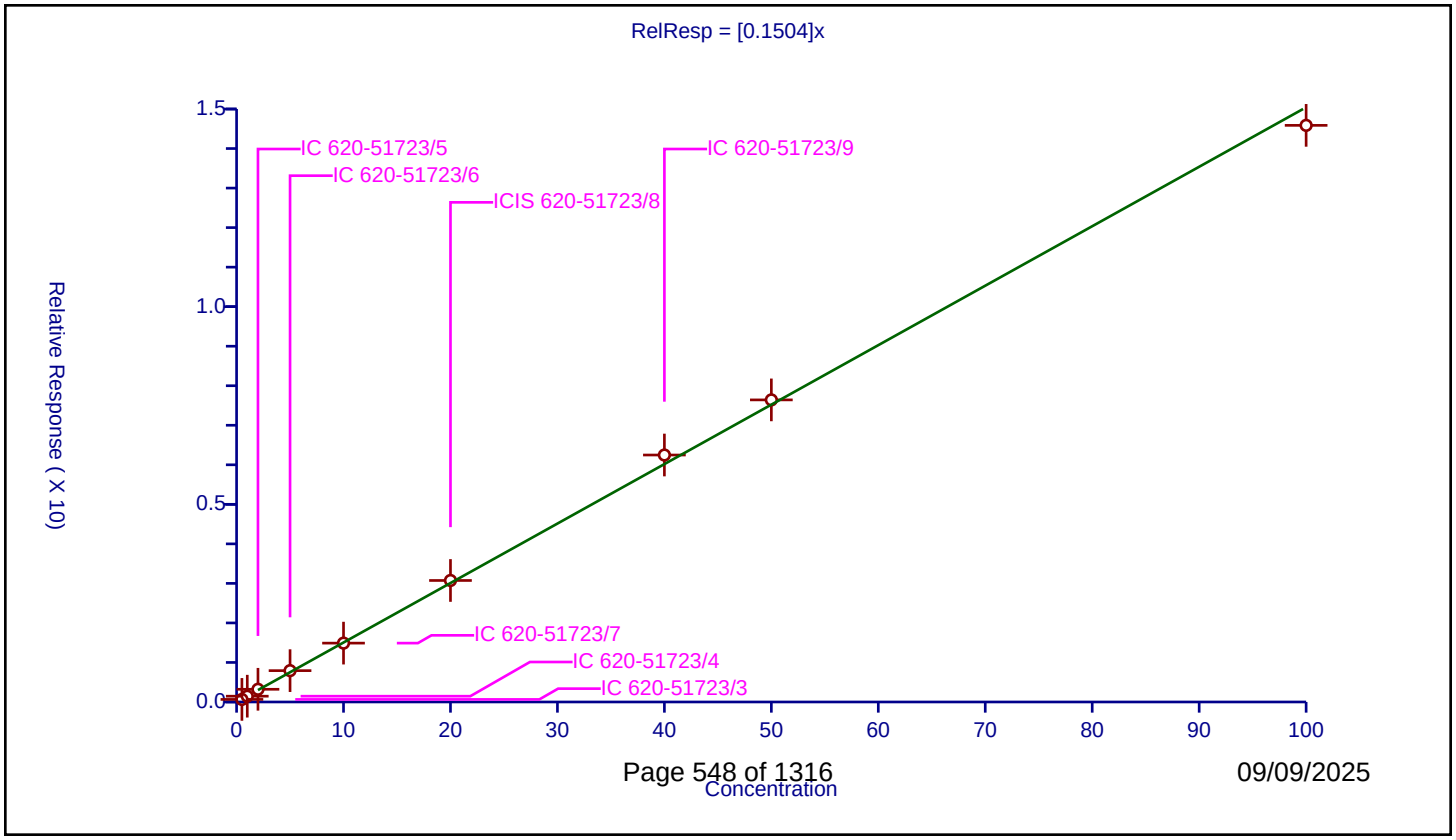
Curve Coefficients

Intercept:	0
Slope:	0.1504

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.065105	50.0	367866.0	0.13021	Y
2	IC 620-51723/4	1.0	0.147013	50.0	363913.0	0.147013	Y
3	IC 620-51723/5	2.0	0.321124	50.0	355782.0	0.160562	Y
4	IC 620-51723/6	5.0	0.792774	50.0	360065.0	0.158555	Y
5	IC 620-51723/7	10.0	1.489433	50.0	347414.0	0.148943	Y
6	ICIS 620-51723/8	20.0	3.073874	50.0	346631.0	0.153694	Y
7	IC 620-51723/9	40.0	6.247466	50.0	352663.0	0.156187	Y
8	IC 620-51723/10	50.0	7.64159	50.0	364767.0	0.152832	Y
9	IC 620-51723/11	100.0	14.586276	50.0	383069.0	0.145863	Y



Calibration / Chloroform

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

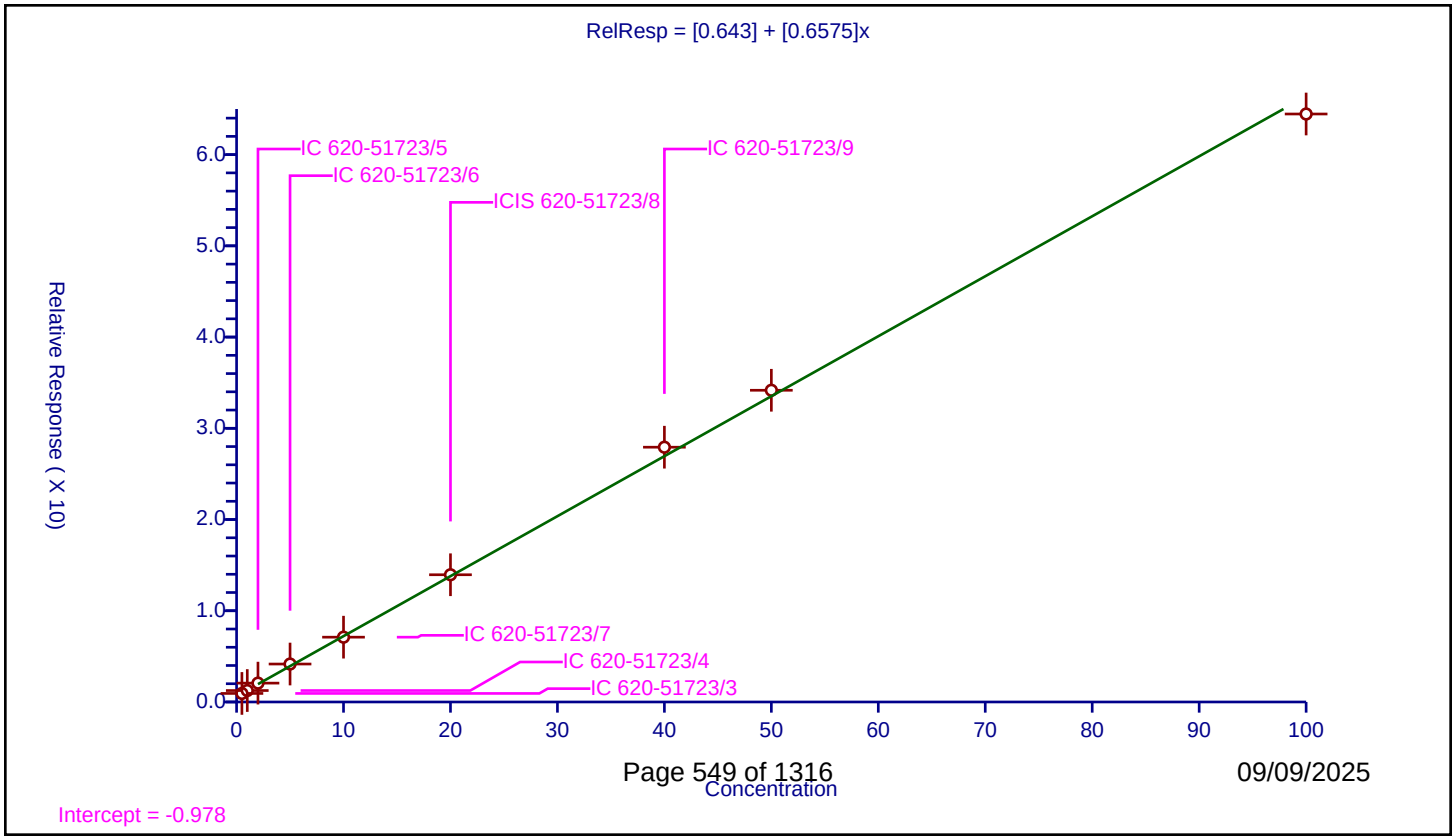
Curve Coefficients

Intercept:	0.643
Slope:	0.6575

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.936346	50.0	367866.0	1.872693	Y
2	IC 620-51723/4	1.0	1.25497	50.0	363913.0	1.25497	Y
3	IC 620-51723/5	2.0	2.068823	50.0	355782.0	1.034412	Y
4	IC 620-51723/6	5.0	4.16161	50.0	360065.0	0.832322	Y
5	IC 620-51723/7	10.0	7.103197	50.0	347414.0	0.71032	Y
6	ICIS 620-51723/8	20.0	13.947685	50.0	346631.0	0.697384	Y
7	IC 620-51723/9	40.0	27.927512	50.0	352663.0	0.698188	Y
8	IC 620-51723/10	50.0	34.169209	50.0	364767.0	0.683384	Y
9	IC 620-51723/11	100.0	64.453923	50.0	383069.0	0.644539	Y



09/09/2025

Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

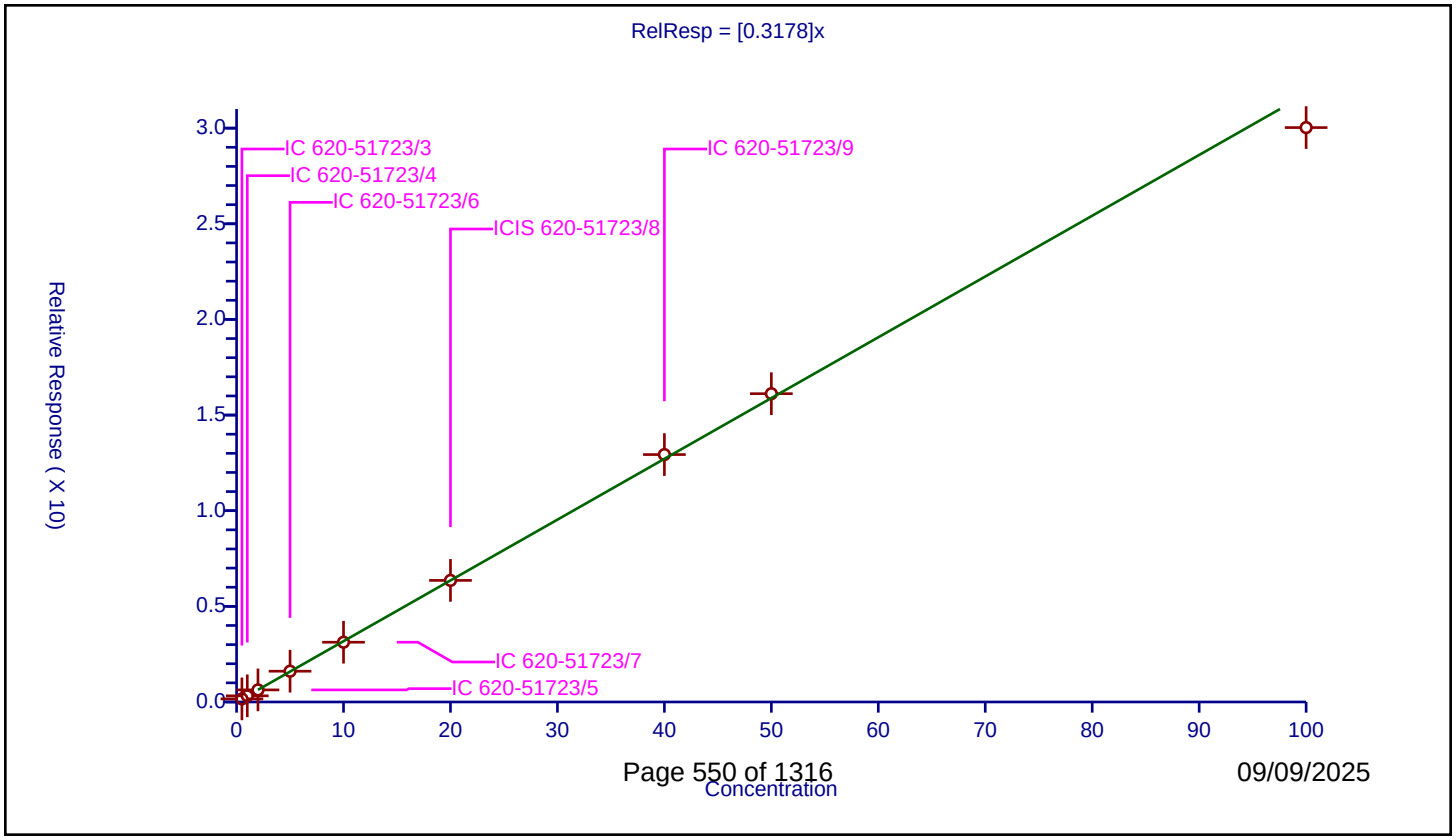
Curve Coefficients

Intercept:	0
Slope:	0.3178

Error Coefficients

Relative Standard Deviation:	2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.162287	50.0	367866.0	0.324575	Y
2	IC 620-51723/4	1.0	0.321093	50.0	363913.0	0.321093	Y
3	IC 620-51723/5	2.0	0.631848	50.0	355782.0	0.315924	Y
4	IC 620-51723/6	5.0	1.609293	50.0	360065.0	0.321859	Y
5	IC 620-51723/7	10.0	3.124946	50.0	347414.0	0.312495	Y
6	ICIS 620-51723/8	20.0	6.356039	50.0	346631.0	0.317802	Y
7	IC 620-51723/9	40.0	12.935437	50.0	352663.0	0.323386	Y
8	IC 620-51723/10	50.0	16.118371	50.0	364767.0	0.322367	Y
9	IC 620-51723/11	100.0	30.029577	50.0	383069.0	0.300296	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

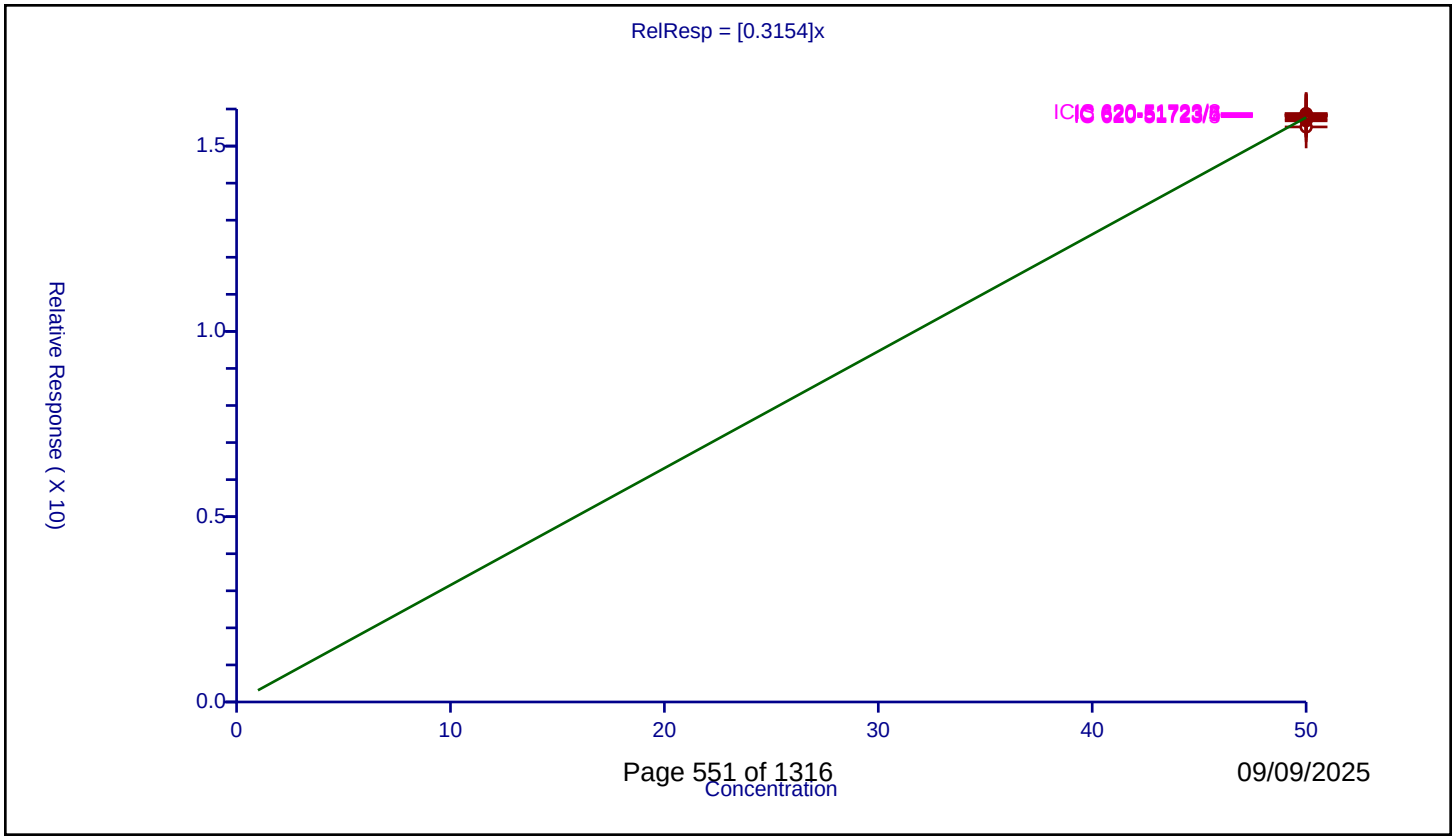
Curve Coefficients

Intercept:	0
Slope:	0.3154

Error Coefficients

Relative Standard Deviation:	0.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	50.0	15.792435	50.0	367866.0	0.315849	Y
2	IC 620-51723/4	50.0	15.820402	50.0	363913.0	0.316408	Y
3	IC 620-51723/5	50.0	15.868144	50.0	355782.0	0.317363	Y
4	IC 620-51723/6	50.0	15.837974	50.0	360065.0	0.316759	Y
5	IC 620-51723/7	50.0	15.825211	50.0	347414.0	0.316504	Y
6	ICIS 620-51723/8	50.0	15.876393	50.0	346631.0	0.317528	Y
7	IC 620-51723/9	50.0	15.729889	50.0	352663.0	0.314598	Y
8	IC 620-51723/10	50.0	15.681517	50.0	364767.0	0.31363	Y
9	IC 620-51723/11	50.0	15.516395	50.0	383069.0	0.310328	Y



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

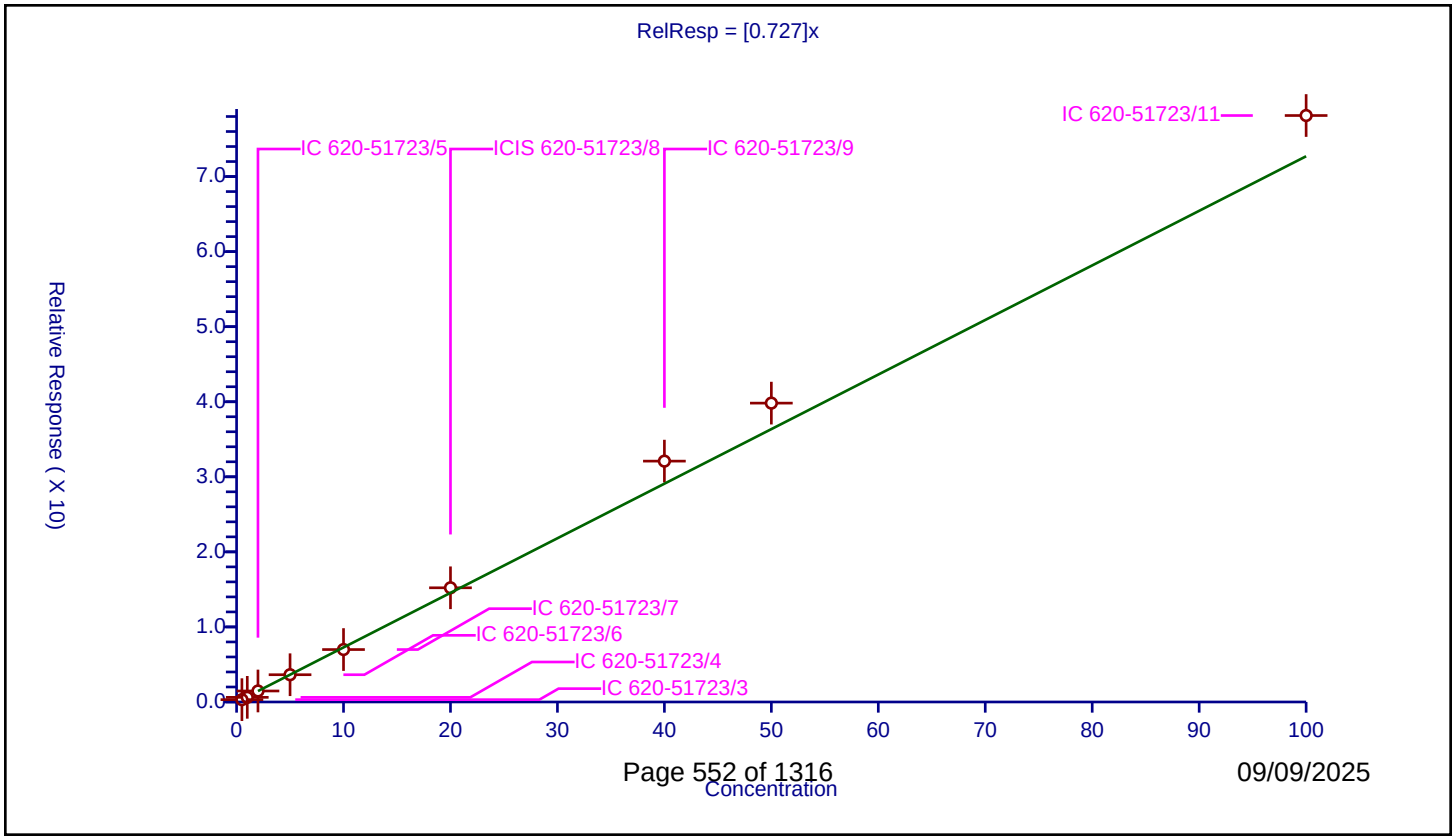
Curve Coefficients

Intercept:	0
Slope:	0.727

Error Coefficients

Relative Standard Deviation:	9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.311662	50.0	367866.0	0.623325	Y
2	IC 620-51723/4	1.0	0.620478	50.0	363913.0	0.620478	Y
3	IC 620-51723/5	2.0	1.46705	50.0	355782.0	0.733525	Y
4	IC 620-51723/6	5.0	3.633649	50.0	360065.0	0.72673	Y
5	IC 620-51723/7	10.0	6.987916	50.0	347414.0	0.698792	Y
6	ICIS 620-51723/8	20.0	15.213152	50.0	346631.0	0.760658	Y
7	IC 620-51723/9	40.0	32.088566	50.0	352663.0	0.802214	Y
8	IC 620-51723/10	50.0	39.817061	50.0	364767.0	0.796341	Y
9	IC 620-51723/11	100.0	78.134749	50.0	383069.0	0.781347	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

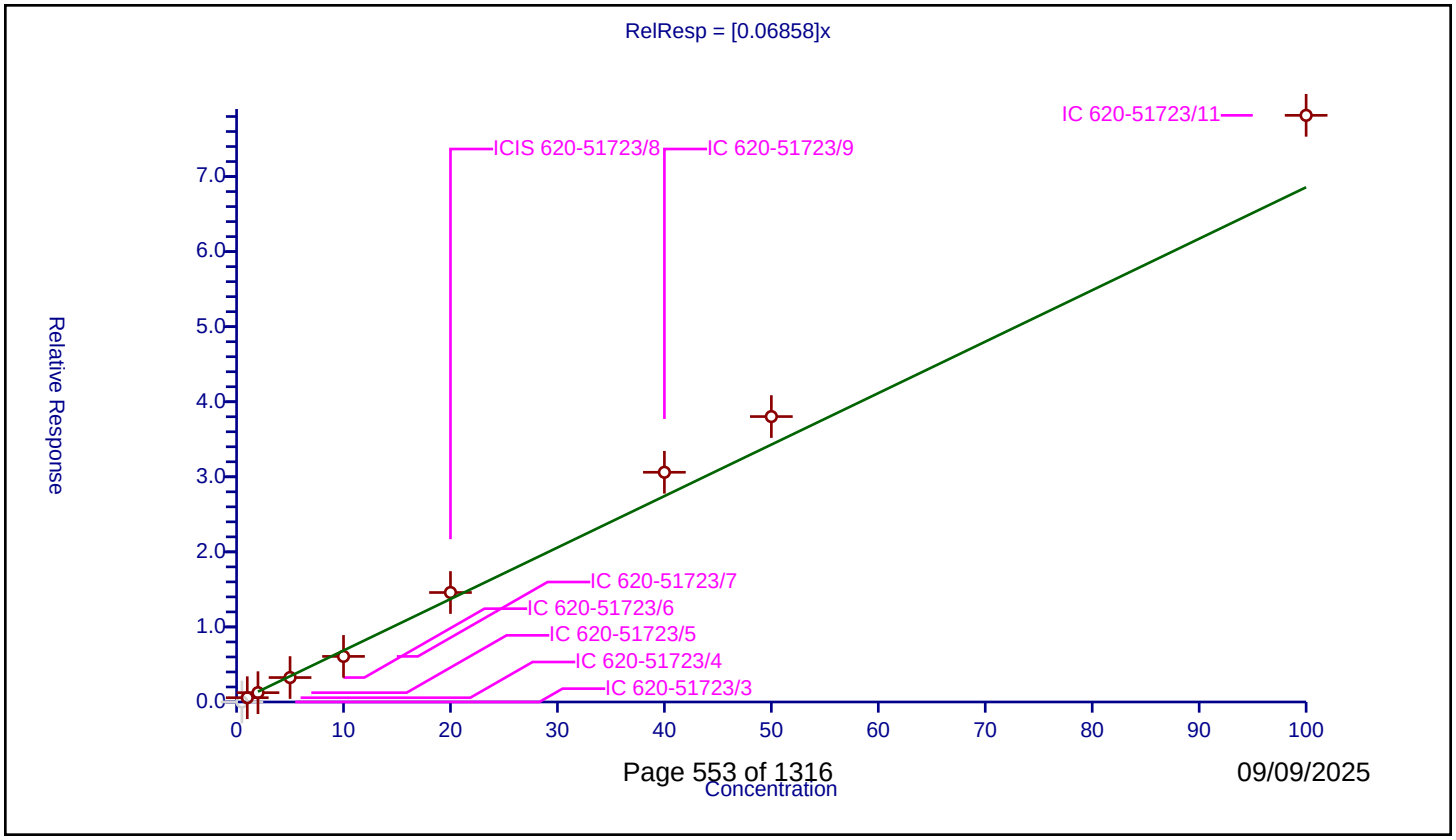
Curve Coefficients

Intercept:	0
Slope:	0.06858

Error Coefficients

Relative Standard Deviation:	12.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.0	50.0	367866.0	0.0	N
2	IC 620-51723/4	1.0	0.057019	50.0	363913.0	0.057019	Y
3	IC 620-51723/5	2.0	0.124233	50.0	355782.0	0.062117	Y
4	IC 620-51723/6	5.0	0.325497	50.0	360065.0	0.065099	Y
5	IC 620-51723/7	10.0	0.607201	50.0	347414.0	0.06072	Y
6	ICIS 620-51723/8	20.0	1.458612	50.0	346631.0	0.072931	Y
7	IC 620-51723/9	40.0	3.060429	50.0	352663.0	0.076511	Y
8	IC 620-51723/10	50.0	3.802564	50.0	364767.0	0.076051	Y
9	IC 620-51723/11	100.0	7.815694	50.0	383069.0	0.078157	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

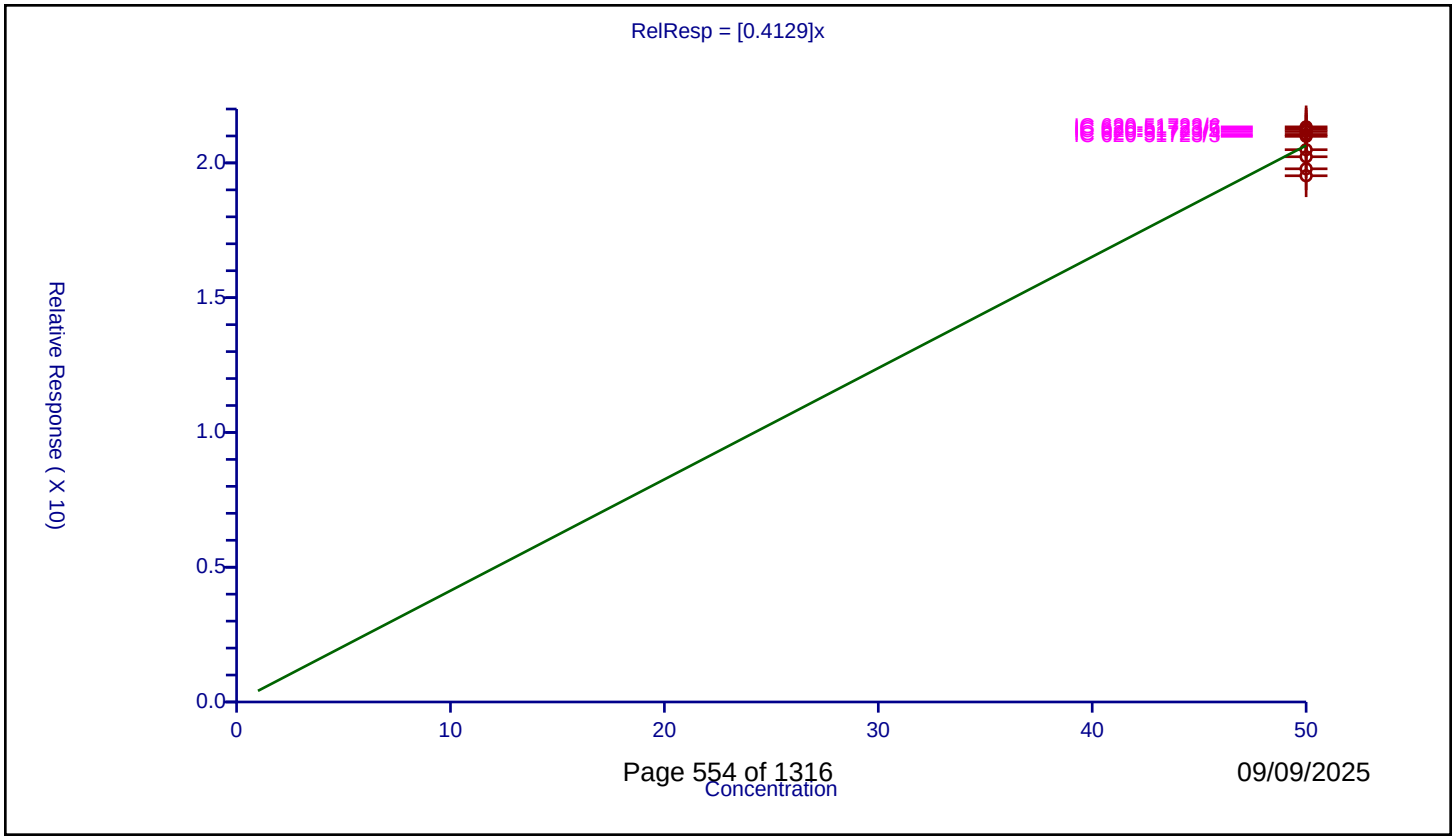
Curve Coefficients

Intercept:	0
Slope:	0.4129

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	50.0	20.985495	50.0	367866.0	0.41971	Y
2	IC 620-51723/4	50.0	21.057368	50.0	363913.0	0.421147	Y
3	IC 620-51723/5	50.0	21.165208	50.0	355782.0	0.423304	Y
4	IC 620-51723/6	50.0	21.338231	50.0	360065.0	0.426765	Y
5	IC 620-51723/7	50.0	21.251302	50.0	347414.0	0.425026	Y
6	ICIS 620-51723/8	50.0	20.49081	50.0	346631.0	0.409816	Y
7	IC 620-51723/9	50.0	20.22866	50.0	352663.0	0.404573	Y
8	IC 620-51723/10	50.0	19.781806	50.0	364767.0	0.395636	Y
9	IC 620-51723/11	50.0	19.524028	50.0	383069.0	0.390481	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

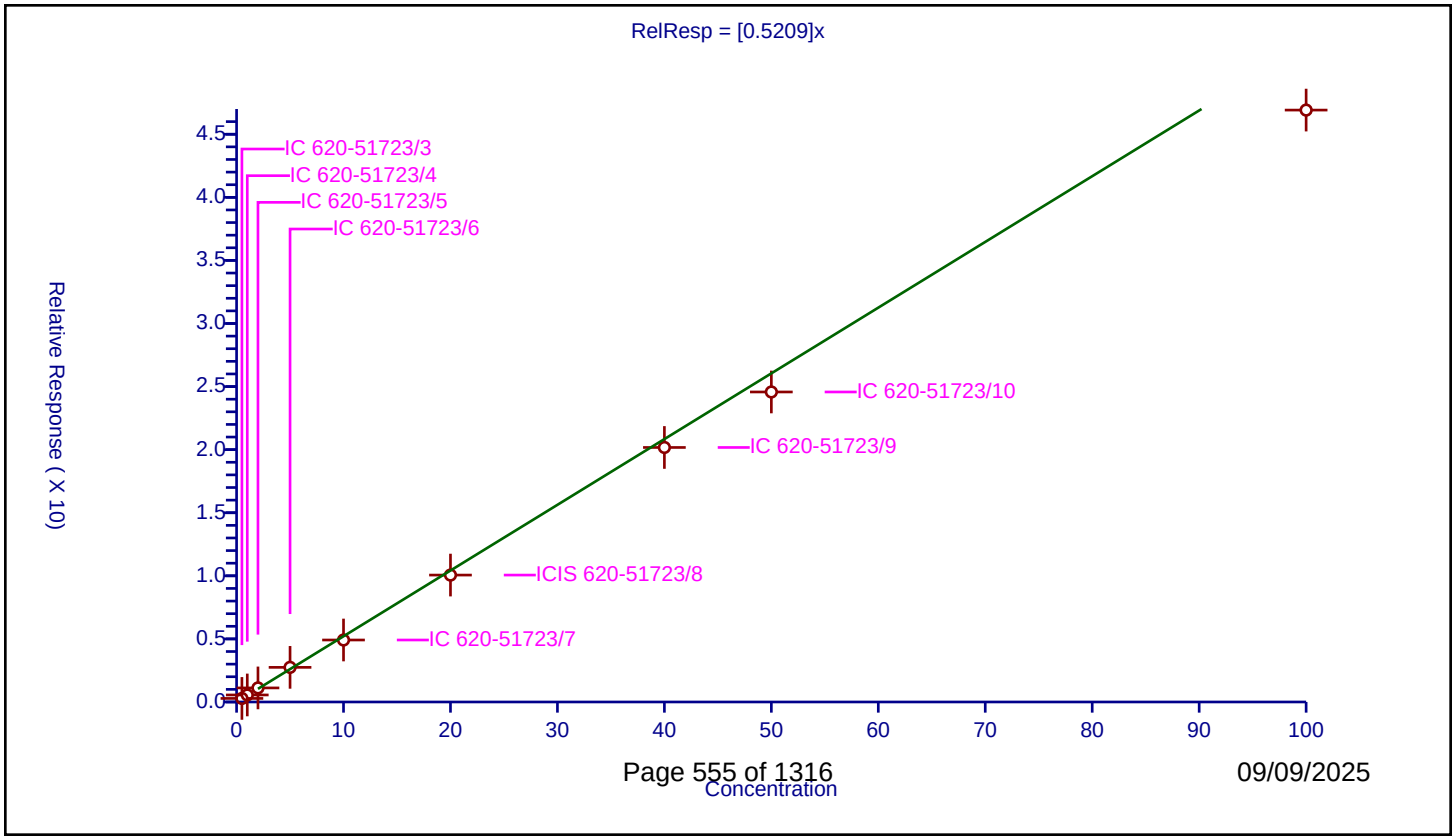
Curve Coefficients

Intercept:	0
Slope:	0.5209

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.282712	50.0	367866.0	0.565423	Y
2	IC 620-51723/4	1.0	0.557139	50.0	363913.0	0.557139	Y
3	IC 620-51723/5	2.0	1.11529	50.0	355782.0	0.557645	Y
4	IC 620-51723/6	5.0	2.744643	50.0	360065.0	0.548929	Y
5	IC 620-51723/7	10.0	4.912871	50.0	347414.0	0.491287	Y
6	ICIS 620-51723/8	20.0	10.060554	50.0	346631.0	0.503028	Y
7	IC 620-51723/9	40.0	20.174217	50.0	352663.0	0.504355	Y
8	IC 620-51723/10	50.0	24.571713	50.0	364767.0	0.491434	Y
9	IC 620-51723/11	100.0	46.914655	50.0	383069.0	0.469147	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

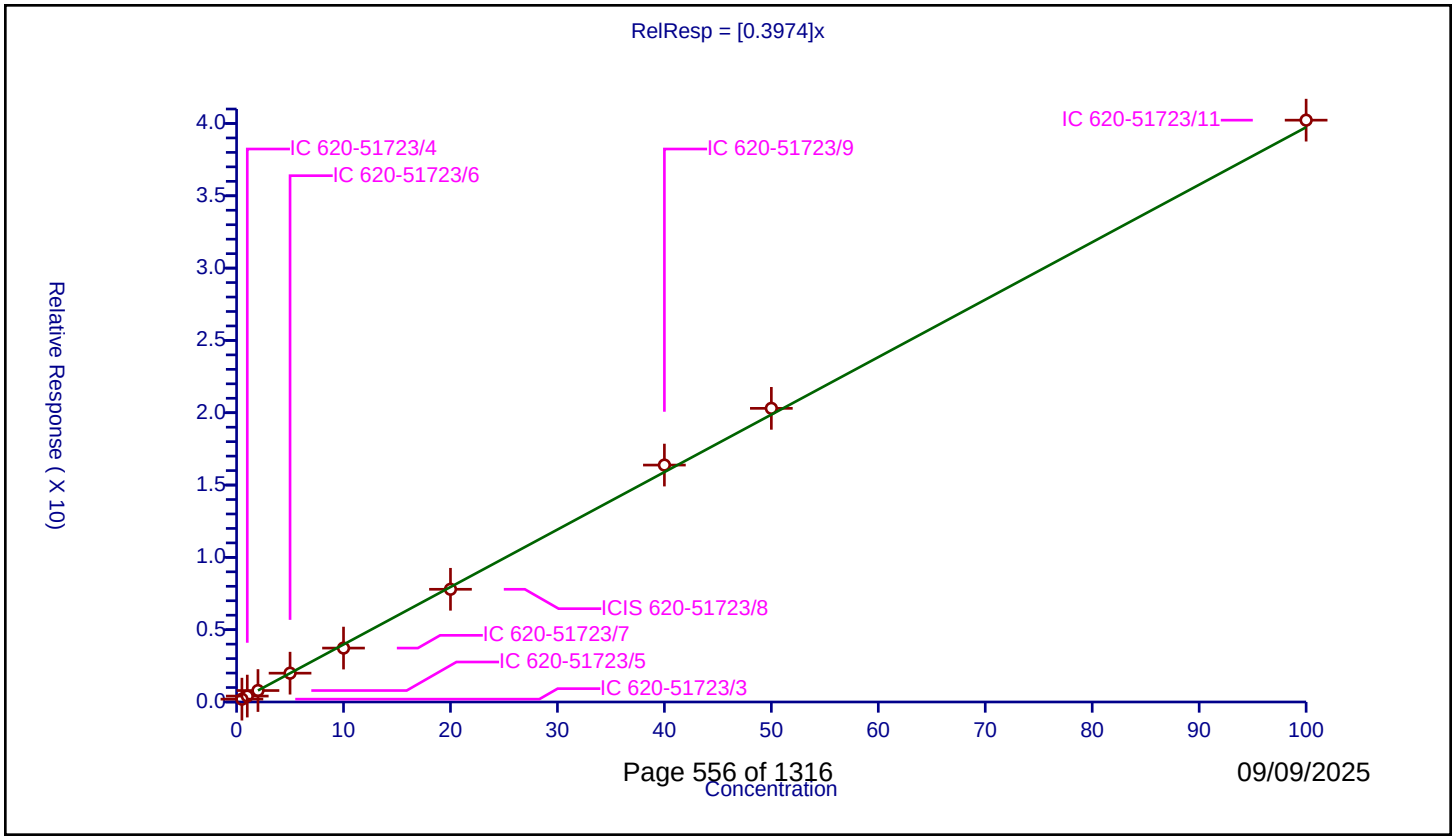
Curve Coefficients

Intercept:	0
Slope:	0.3974

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.196675	50.0	367866.0	0.39335	Y
2	IC 620-51723/4	1.0	0.408477	50.0	363913.0	0.408477	Y
3	IC 620-51723/5	2.0	0.792199	50.0	355782.0	0.396099	Y
4	IC 620-51723/6	5.0	1.992279	50.0	360065.0	0.398456	Y
5	IC 620-51723/7	10.0	3.72639	50.0	347414.0	0.372639	Y
6	ICIS 620-51723/8	20.0	7.792148	50.0	346631.0	0.389607	Y
7	IC 620-51723/9	40.0	16.380511	50.0	352663.0	0.409513	Y
8	IC 620-51723/10	50.0	20.302961	50.0	364767.0	0.406059	Y
9	IC 620-51723/11	100.0	40.229175	50.0	383069.0	0.402292	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

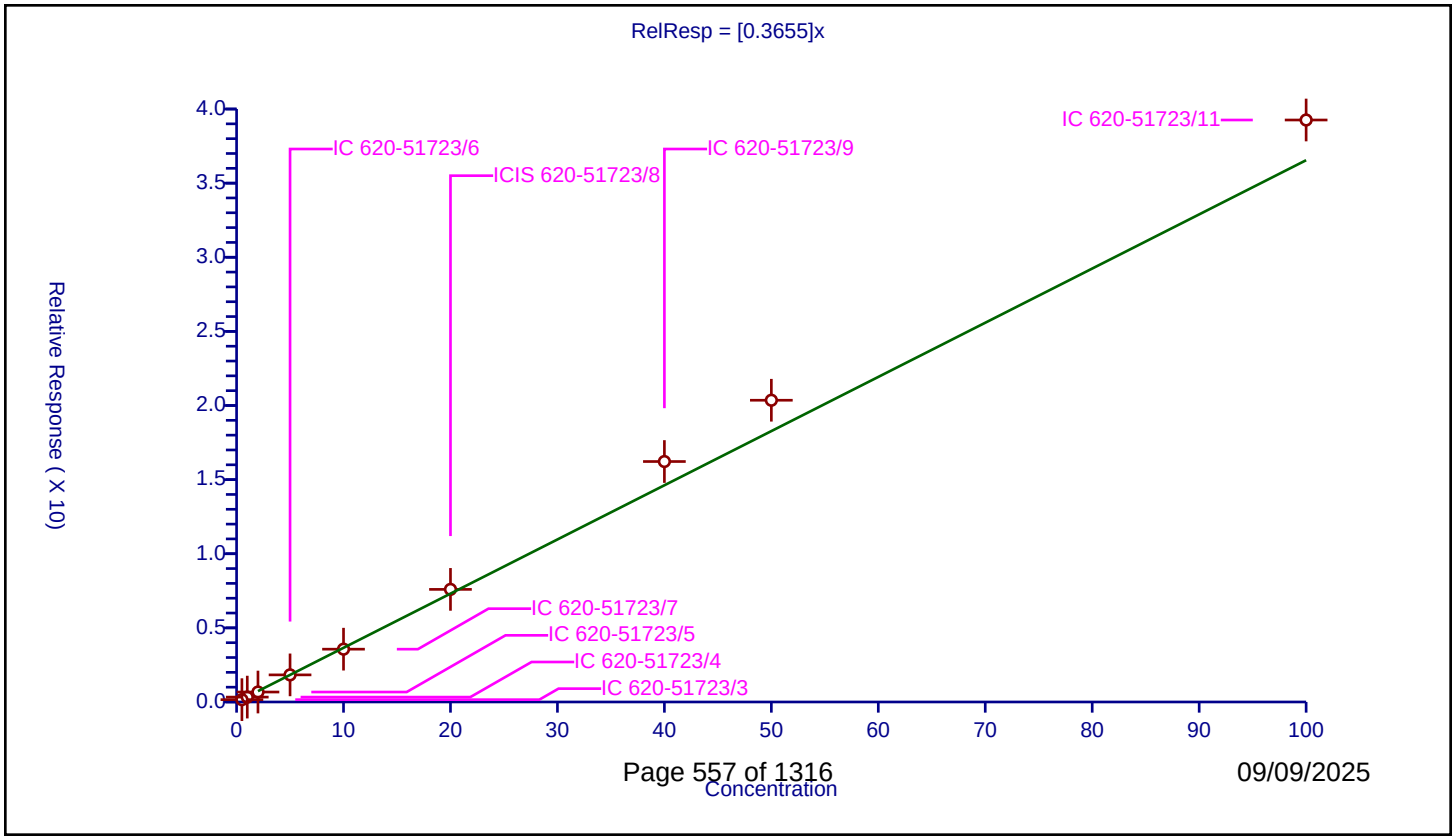
Curve Coefficients

Intercept:	0
Slope:	0.3655

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.15821	50.0	367866.0	0.31642	Y
2	IC 620-51723/4	1.0	0.329474	50.0	363913.0	0.329474	Y
3	IC 620-51723/5	2.0	0.672181	50.0	355782.0	0.336091	Y
4	IC 620-51723/6	5.0	1.828975	50.0	360065.0	0.365795	Y
5	IC 620-51723/7	10.0	3.563472	50.0	347414.0	0.356347	Y
6	ICIS 620-51723/8	20.0	7.595974	50.0	346631.0	0.379799	Y
7	IC 620-51723/9	40.0	16.221577	50.0	352663.0	0.405539	Y
8	IC 620-51723/10	50.0	20.355186	50.0	364767.0	0.407104	Y
9	IC 620-51723/11	100.0	39.258071	50.0	383069.0	0.392581	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

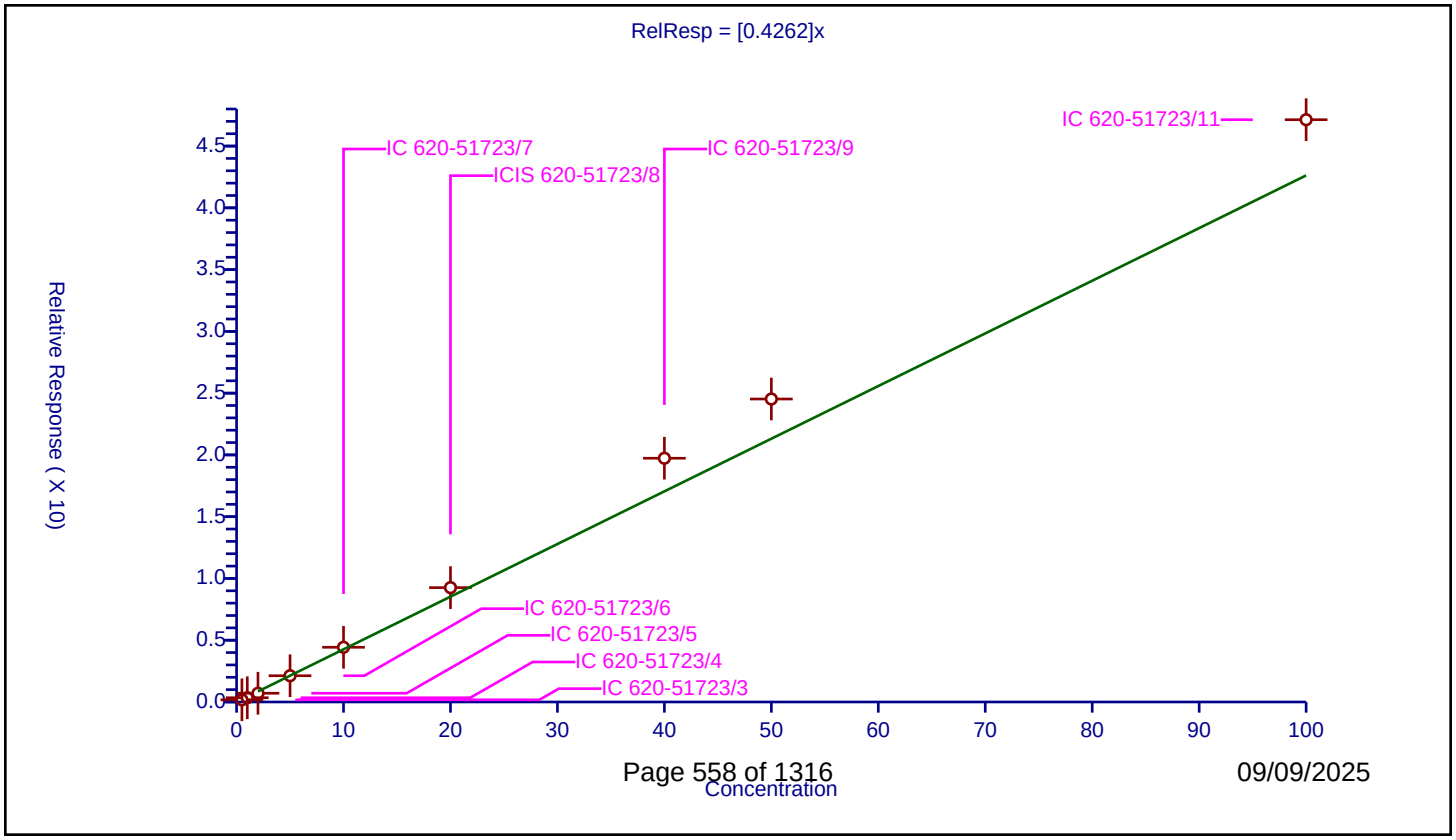
Curve Coefficients

Intercept:	0
Slope:	0.4262

Error Coefficients

Relative Standard Deviation:	14.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.176287	50.0	367866.0	0.352574	Y
2	IC 620-51723/4	1.0	0.344588	50.0	363913.0	0.344588	Y
3	IC 620-51723/5	2.0	0.706191	50.0	355782.0	0.353095	Y
4	IC 620-51723/6	5.0	2.124339	50.0	360065.0	0.424868	Y
5	IC 620-51723/7	10.0	4.429154	50.0	347414.0	0.442915	Y
6	ICIS 620-51723/8	20.0	9.257395	50.0	346631.0	0.46287	Y
7	IC 620-51723/9	40.0	19.730167	50.0	352663.0	0.493254	Y
8	IC 620-51723/10	50.0	24.525656	50.0	364767.0	0.490513	Y
9	IC 620-51723/11	100.0	47.13485	50.0	383069.0	0.471349	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

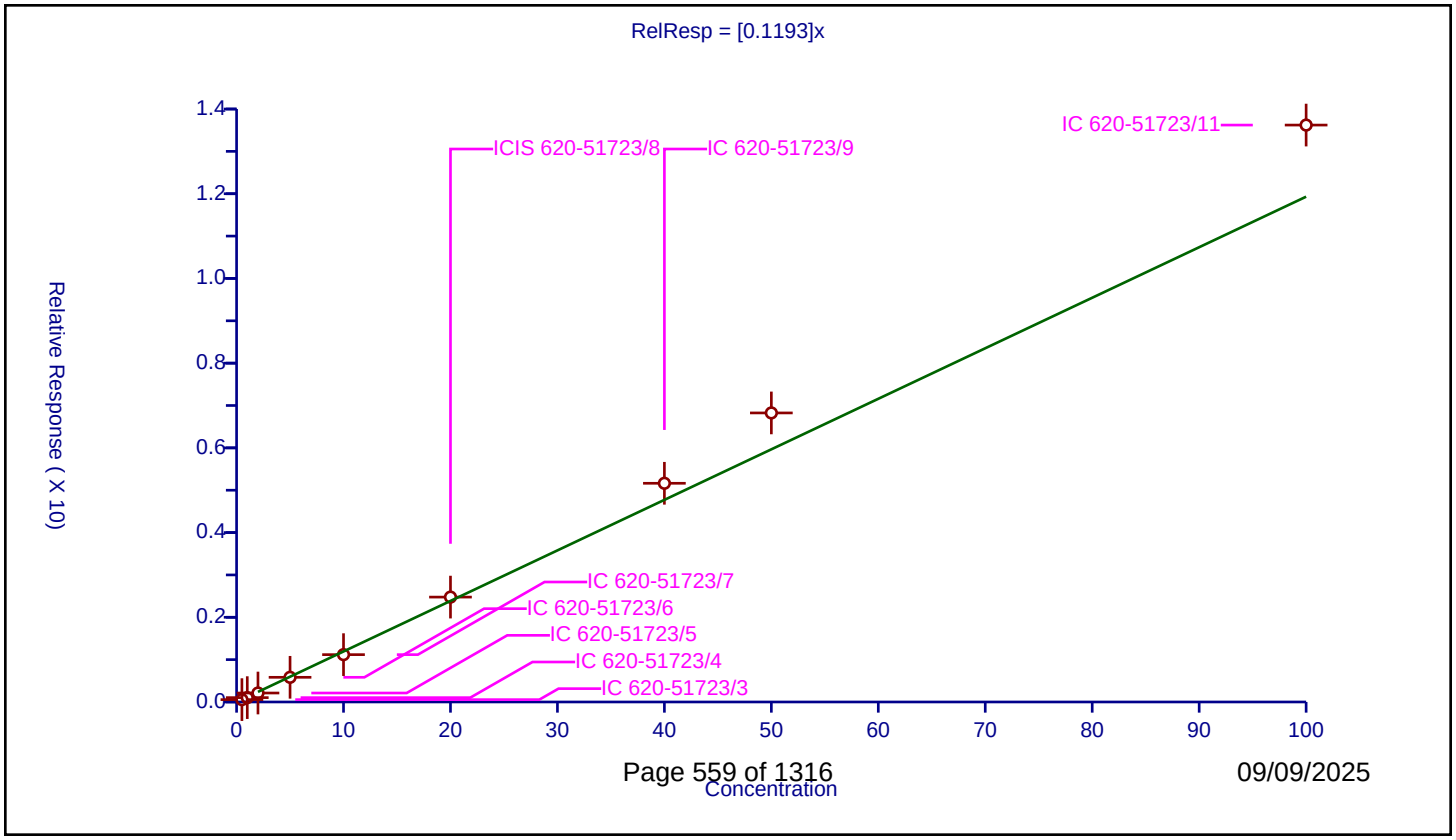
Curve Coefficients

Intercept:	0
Slope:	0.1193

Error Coefficients

Relative Standard Deviation:	10.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.055455	50.0	367866.0	0.11091	Y
2	IC 620-51723/4	1.0	0.103047	50.0	363913.0	0.103047	Y
3	IC 620-51723/5	2.0	0.211646	50.0	355782.0	0.105823	Y
4	IC 620-51723/6	5.0	0.582534	50.0	360065.0	0.116507	Y
5	IC 620-51723/7	10.0	1.117975	50.0	347414.0	0.111797	Y
6	ICIS 620-51723/8	20.0	2.476553	50.0	346631.0	0.123828	Y
7	IC 620-51723/9	40.0	5.16357	50.0	352663.0	0.129089	Y
8	IC 620-51723/10	50.0	6.824631	50.0	364767.0	0.136493	Y
9	IC 620-51723/11	100.0	13.620914	50.0	383069.0	0.136209	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

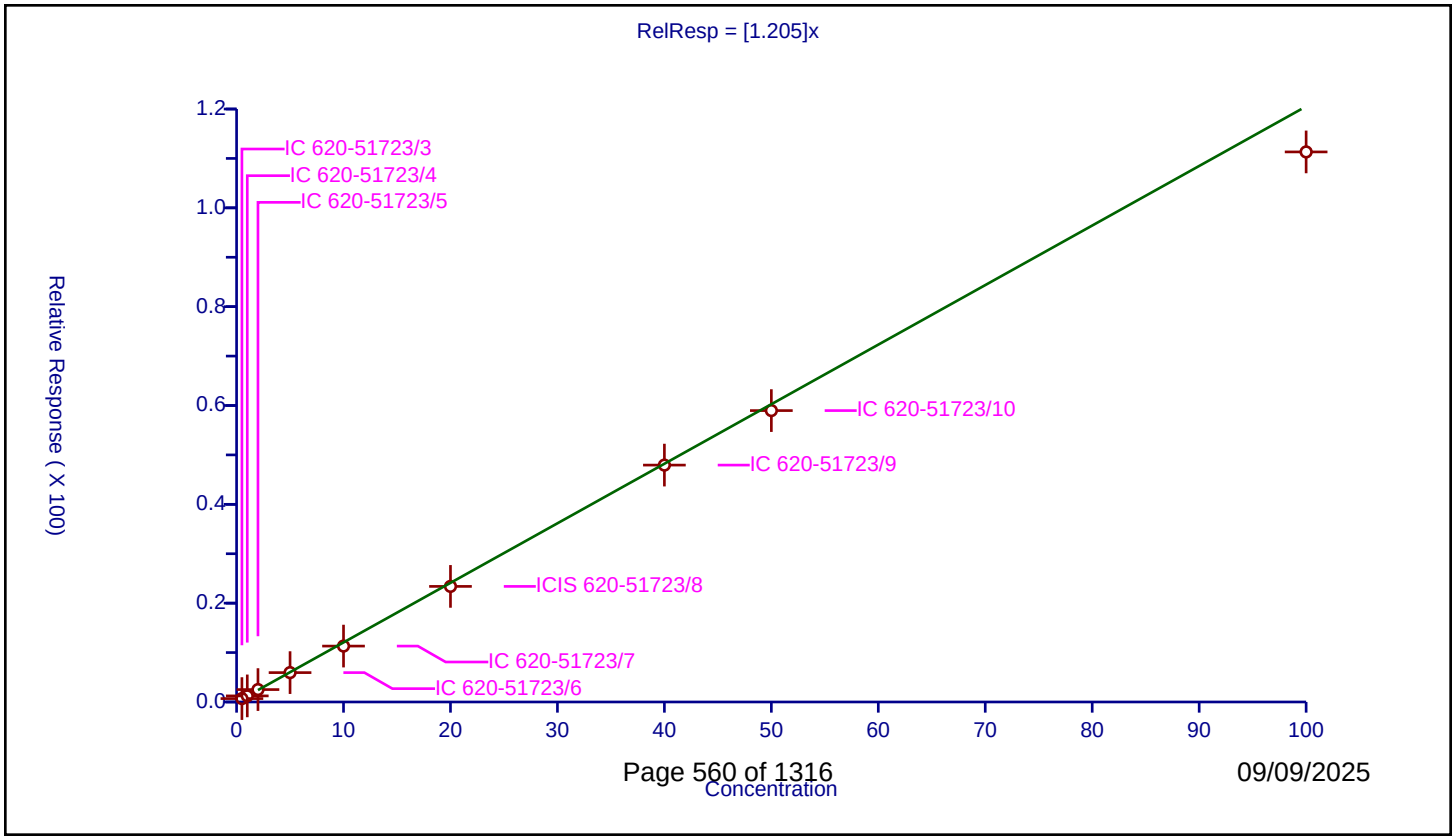
Curve Coefficients

Intercept:	0
Slope:	1.205

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.687886	50.0	367866.0	1.375773	Y
2	IC 620-51723/4	1.0	1.234636	50.0	363913.0	1.234636	Y
3	IC 620-51723/5	2.0	2.510667	50.0	355782.0	1.255333	Y
4	IC 620-51723/6	5.0	5.945871	50.0	360065.0	1.189174	Y
5	IC 620-51723/7	10.0	11.315462	50.0	347414.0	1.131546	Y
6	ICIS 620-51723/8	20.0	23.391734	50.0	346631.0	1.169587	Y
7	IC 620-51723/9	40.0	47.939109	50.0	352663.0	1.198478	Y
8	IC 620-51723/10	50.0	58.971206	50.0	364767.0	1.179424	Y
9	IC 620-51723/11	100.0	111.317674	50.0	383069.0	1.113177	Y



Calibration / Tert-amyl methyl ether

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

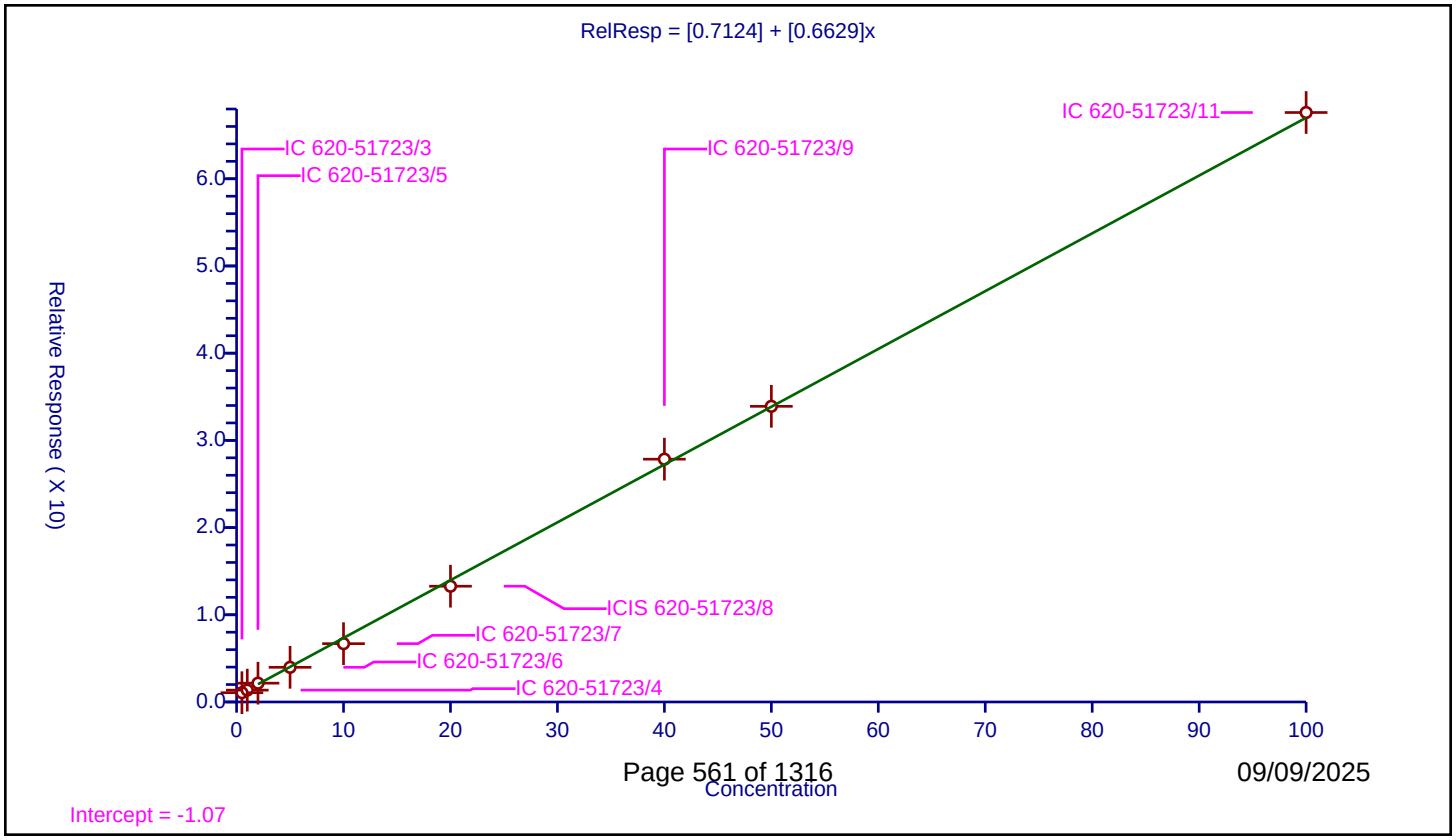
Curve Coefficients

Intercept:	0.7124
Slope:	0.6629

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	1.064926	50.0	367866.0	2.129852	Y
2	IC 620-51723/4	1.0	1.36049	50.0	363913.0	1.36049	Y
3	IC 620-51723/5	2.0	2.158063	50.0	355782.0	1.079032	Y
4	IC 620-51723/6	5.0	3.976365	50.0	360065.0	0.795273	Y
5	IC 620-51723/7	10.0	6.689137	50.0	347414.0	0.668914	Y
6	ICIS 620-51723/8	20.0	13.277808	50.0	346631.0	0.66389	Y
7	IC 620-51723/9	40.0	27.844429	50.0	352663.0	0.696111	Y
8	IC 620-51723/10	50.0	33.906439	50.0	364767.0	0.678129	Y
9	IC 620-51723/11	100.0	67.600093	50.0	383069.0	0.676001	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

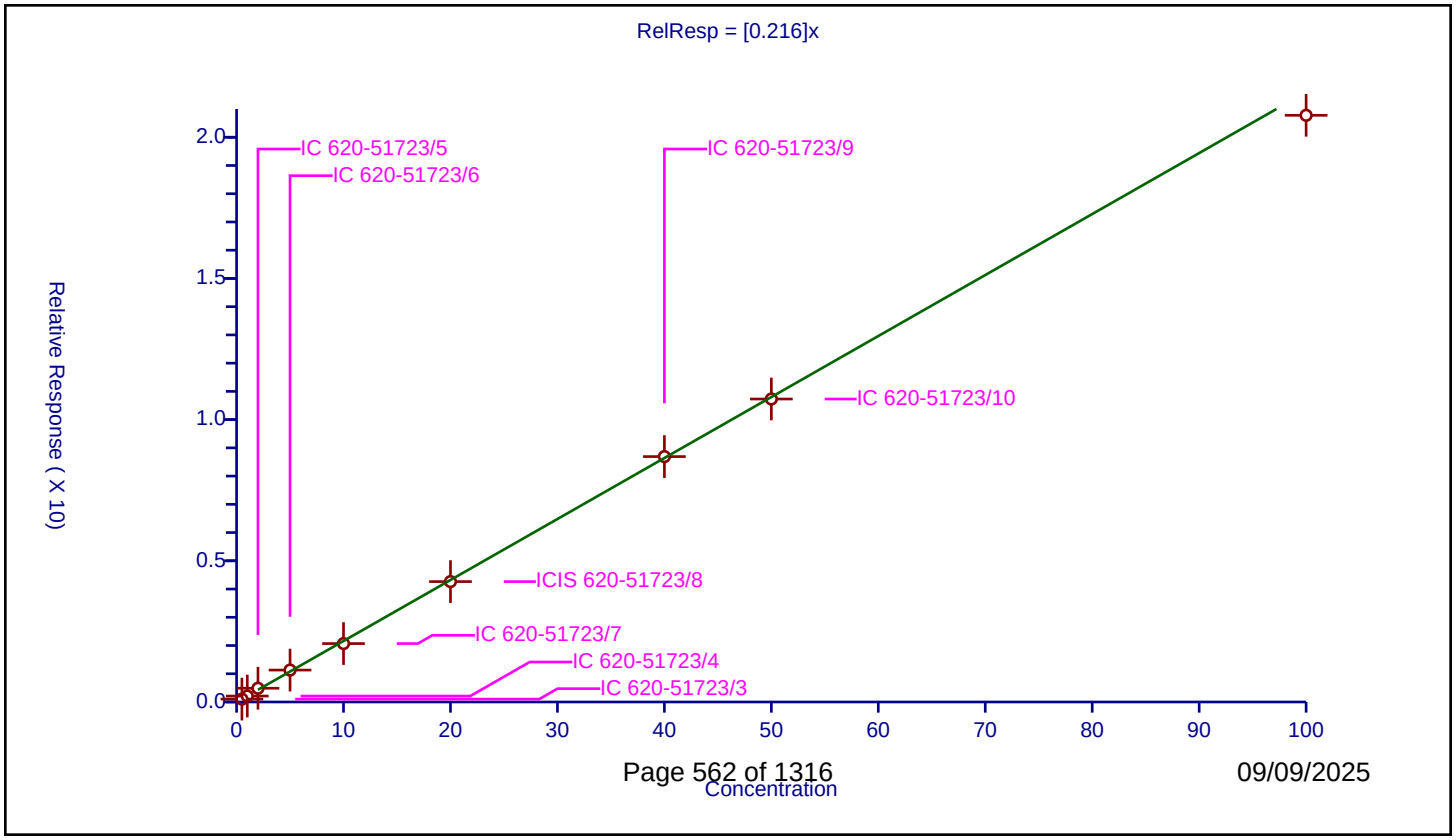
Curve Coefficients

Intercept:	0
Slope:	0.216

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.102483	50.0	367866.0	0.204966	Y
2	IC 620-51723/4	1.0	0.20994	50.0	363913.0	0.20994	Y
3	IC 620-51723/5	2.0	0.486674	50.0	355782.0	0.243337	Y
4	IC 620-51723/6	5.0	1.130213	50.0	360065.0	0.226043	Y
5	IC 620-51723/7	10.0	2.068569	50.0	347414.0	0.206857	Y
6	ICIS 620-51723/8	20.0	4.263756	50.0	346631.0	0.213188	Y
7	IC 620-51723/9	40.0	8.690733	50.0	352663.0	0.217268	Y
8	IC 620-51723/10	50.0	10.730137	50.0	364767.0	0.214603	Y
9	IC 620-51723/11	100.0	20.776936	50.0	383069.0	0.207769	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

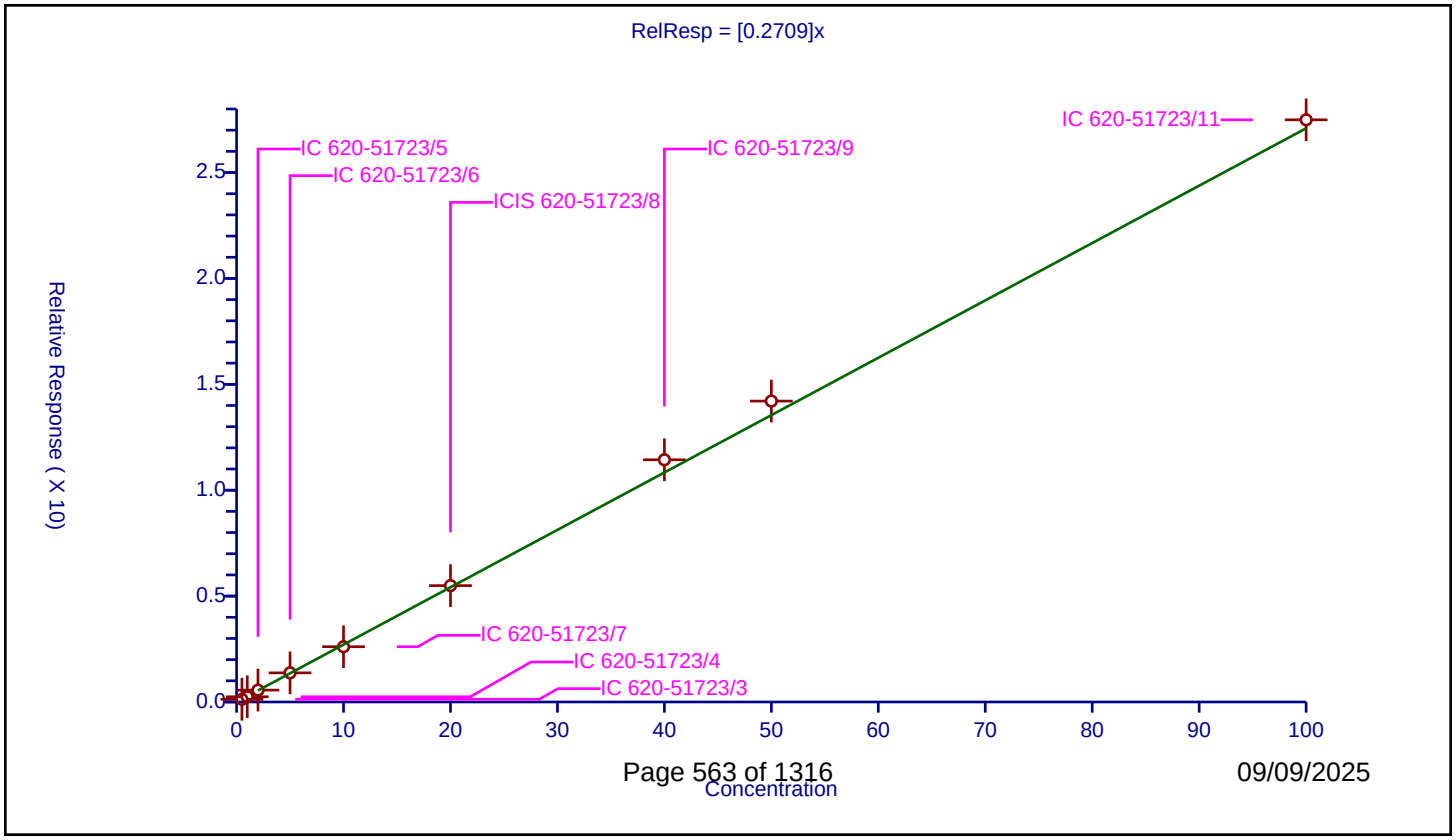
Curve Coefficients

Intercept:	0
Slope:	0.2709

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.127764	50.0	367866.0	0.255528	Y
2	IC 620-51723/4	1.0	0.24635	50.0	363913.0	0.24635	Y
3	IC 620-51723/5	2.0	0.560737	50.0	355782.0	0.280368	Y
4	IC 620-51723/6	5.0	1.375168	50.0	360065.0	0.275034	Y
5	IC 620-51723/7	10.0	2.609279	50.0	347414.0	0.260928	Y
6	ICIS 620-51723/8	20.0	5.495037	50.0	346631.0	0.274752	Y
7	IC 620-51723/9	40.0	11.437548	50.0	352663.0	0.285939	Y
8	IC 620-51723/10	50.0	14.209345	50.0	364767.0	0.284187	Y
9	IC 620-51723/11	100.0	27.490217	50.0	383069.0	0.274902	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

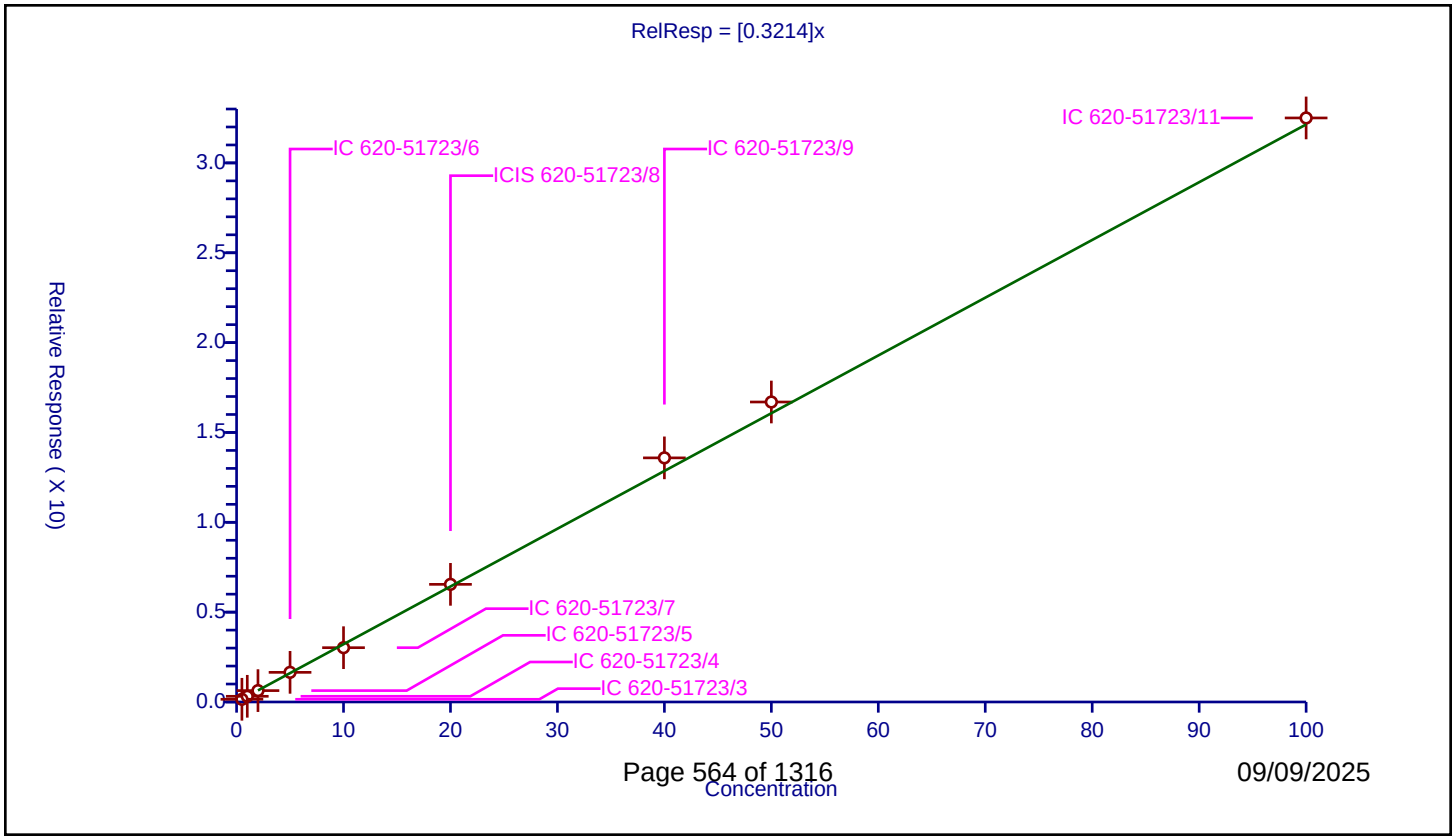
Curve Coefficients

Intercept:	0
Slope:	0.3214

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.150055	50.0	367866.0	0.300109	Y
2	IC 620-51723/4	1.0	0.317521	50.0	363913.0	0.317521	Y
3	IC 620-51723/5	2.0	0.633675	50.0	355782.0	0.316837	Y
4	IC 620-51723/6	5.0	1.64998	50.0	360065.0	0.329996	Y
5	IC 620-51723/7	10.0	3.022906	50.0	347414.0	0.302291	Y
6	ICIS 620-51723/8	20.0	6.54702	50.0	346631.0	0.327351	Y
7	IC 620-51723/9	40.0	13.586058	50.0	352663.0	0.339651	Y
8	IC 620-51723/10	50.0	16.694493	50.0	364767.0	0.33389	Y
9	IC 620-51723/11	100.0	32.502761	50.0	383069.0	0.325028	Y



Calibration / Dichlorobromomethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

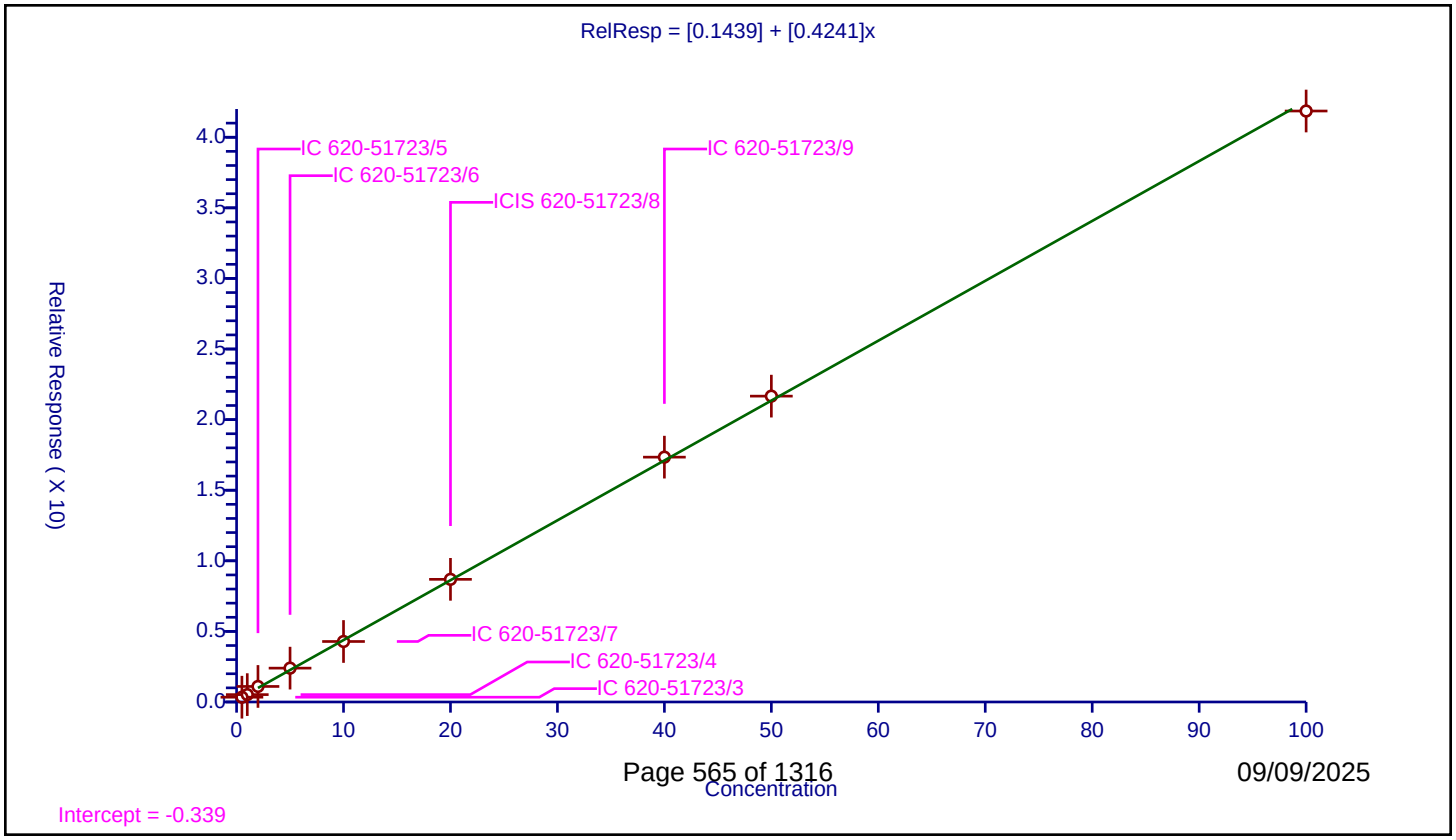
Curve Coefficients

Intercept:	0.1439
Slope:	0.4241

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.33939	50.0	367866.0	0.67878	Y
2	IC 620-51723/4	1.0	0.521965	50.0	363913.0	0.521965	Y
3	IC 620-51723/5	2.0	1.100252	50.0	355782.0	0.550126	Y
4	IC 620-51723/6	5.0	2.398039	50.0	360065.0	0.479608	Y
5	IC 620-51723/7	10.0	4.285089	50.0	347414.0	0.428509	Y
6	ICIS 620-51723/8	20.0	8.688202	50.0	346631.0	0.43441	Y
7	IC 620-51723/9	40.0	17.342619	50.0	352663.0	0.433565	Y
8	IC 620-51723/10	50.0	21.663829	50.0	364767.0	0.433277	Y
9	IC 620-51723/11	100.0	41.857994	50.0	383069.0	0.41858	Y



Calibration / 1,4-Dioxane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

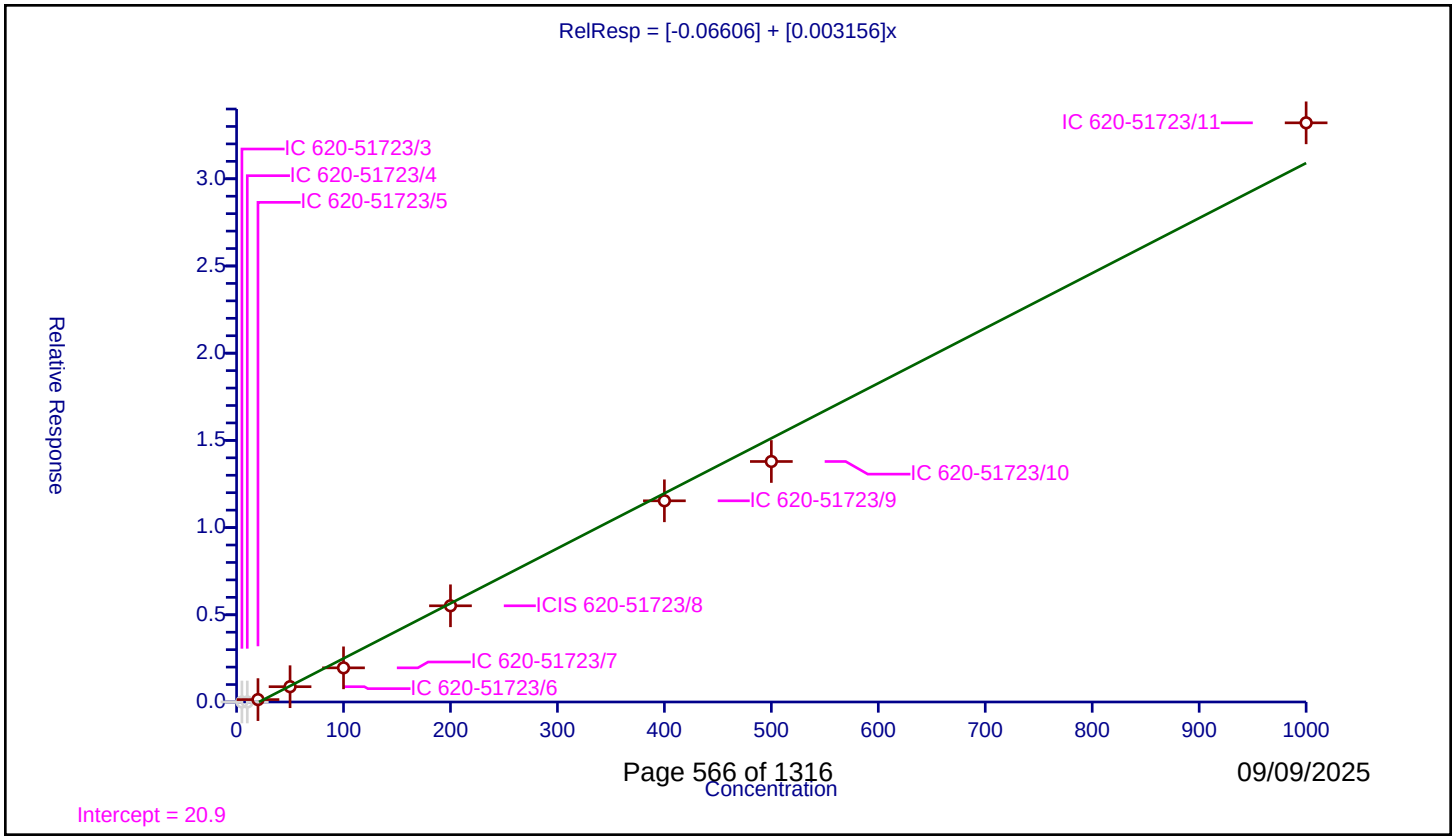
Curve Coefficients

Intercept:	-0.06606
Slope:	0.003156

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	5.0	0.0	50.0	367866.0	0.0	N
2	IC 620-51723/4	10.0	0.0	50.0	363913.0	0.0	N
3	IC 620-51723/5	20.0	0.013632	50.0	355782.0	0.000682	Y
4	IC 620-51723/6	50.0	0.087762	50.0	360065.0	0.001755	Y
5	IC 620-51723/7	100.0	0.195732	50.0	347414.0	0.001957	Y
6	ICIS 620-51723/8	200.0	0.551595	50.0	346631.0	0.002758	Y
7	IC 620-51723/9	400.0	1.153509	50.0	352663.0	0.002884	Y
8	IC 620-51723/10	500.0	1.378962	50.0	364767.0	0.002758	Y
9	IC 620-51723/11	1000.0	3.320812	50.0	383069.0	0.003321	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

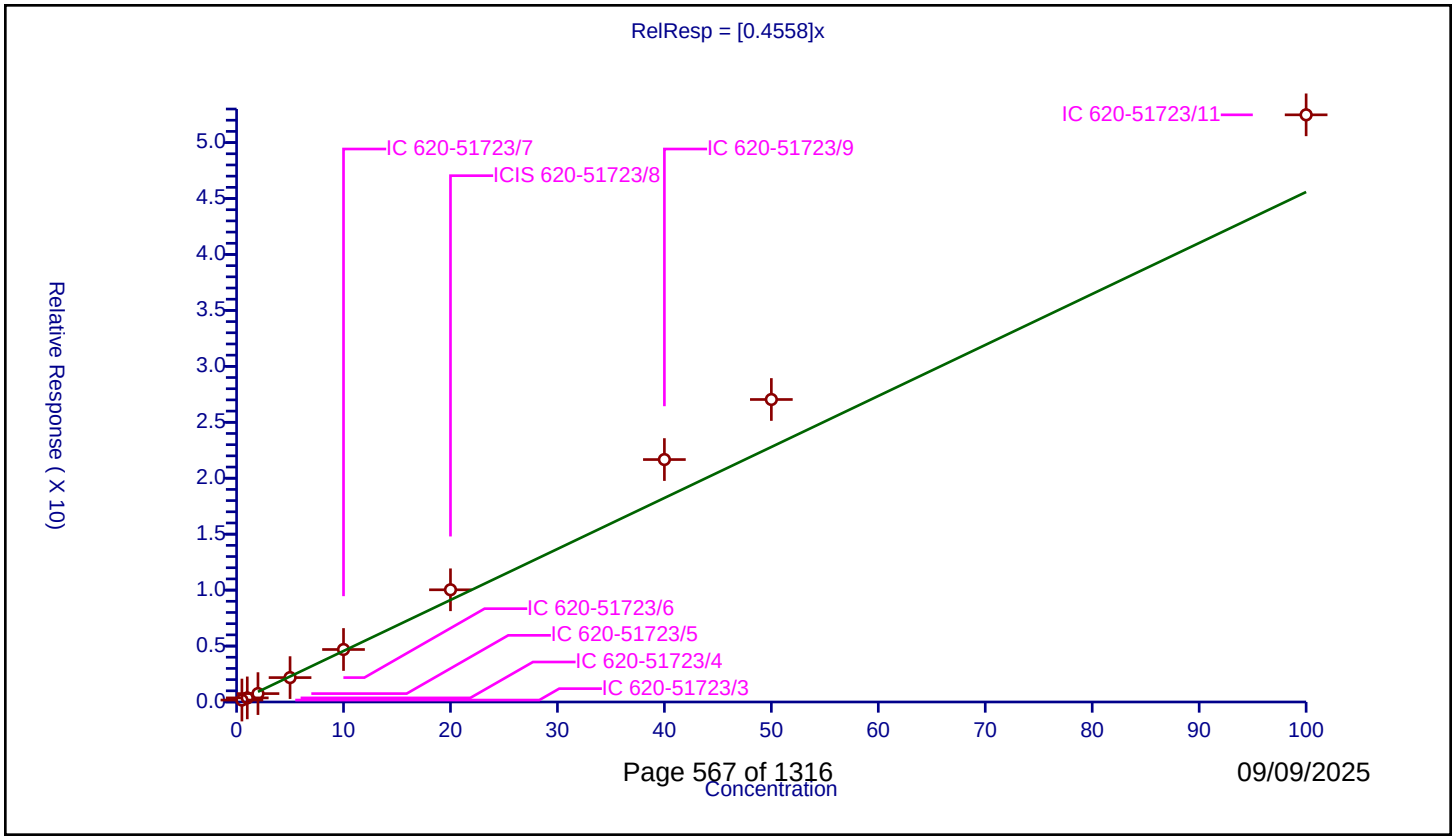
Curve Coefficients

Intercept:	0
Slope:	0.4558

Error Coefficients

Relative Standard Deviation:	17.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.173976	50.0	367866.0	0.347953	Y
2	IC 620-51723/4	1.0	0.365609	50.0	363913.0	0.365609	Y
3	IC 620-51723/5	2.0	0.75046	50.0	355782.0	0.37523	Y
4	IC 620-51723/6	5.0	2.179468	50.0	360065.0	0.435894	Y
5	IC 620-51723/7	10.0	4.692384	50.0	347414.0	0.469238	Y
6	ICIS 620-51723/8	20.0	10.028532	50.0	346631.0	0.501427	Y
7	IC 620-51723/9	40.0	21.66998	50.0	352663.0	0.541749	Y
8	IC 620-51723/10	50.0	27.036437	50.0	364767.0	0.540729	Y
9	IC 620-51723/11	100.0	52.480754	50.0	383069.0	0.524808	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

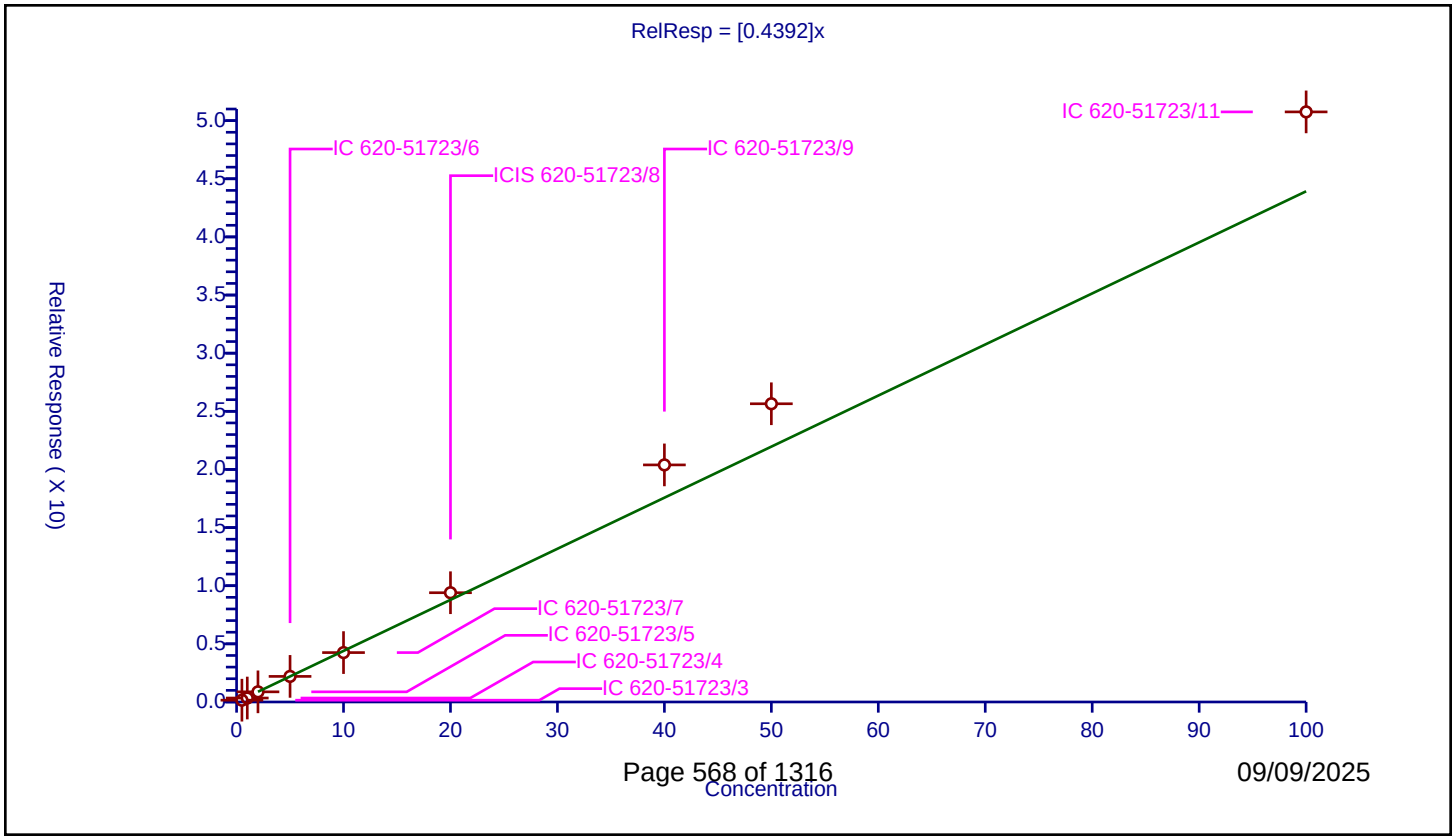
Curve Coefficients

Intercept:	0
Slope:	0.4392

Error Coefficients

Relative Standard Deviation:	16.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.154812	50.0	367866.0	0.309624	Y
2	IC 620-51723/4	1.0	0.341153	50.0	363913.0	0.341153	Y
3	IC 620-51723/5	2.0	0.873709	50.0	355782.0	0.436855	Y
4	IC 620-51723/6	5.0	2.201686	50.0	360065.0	0.440337	Y
5	IC 620-51723/7	10.0	4.248677	50.0	347414.0	0.424868	Y
6	ICIS 620-51723/8	20.0	9.397025	50.0	346631.0	0.469851	Y
7	IC 620-51723/9	40.0	20.389862	50.0	352663.0	0.509747	Y
8	IC 620-51723/10	50.0	25.65021	50.0	364767.0	0.513004	Y
9	IC 620-51723/11	100.0	50.751431	50.0	383069.0	0.507514	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

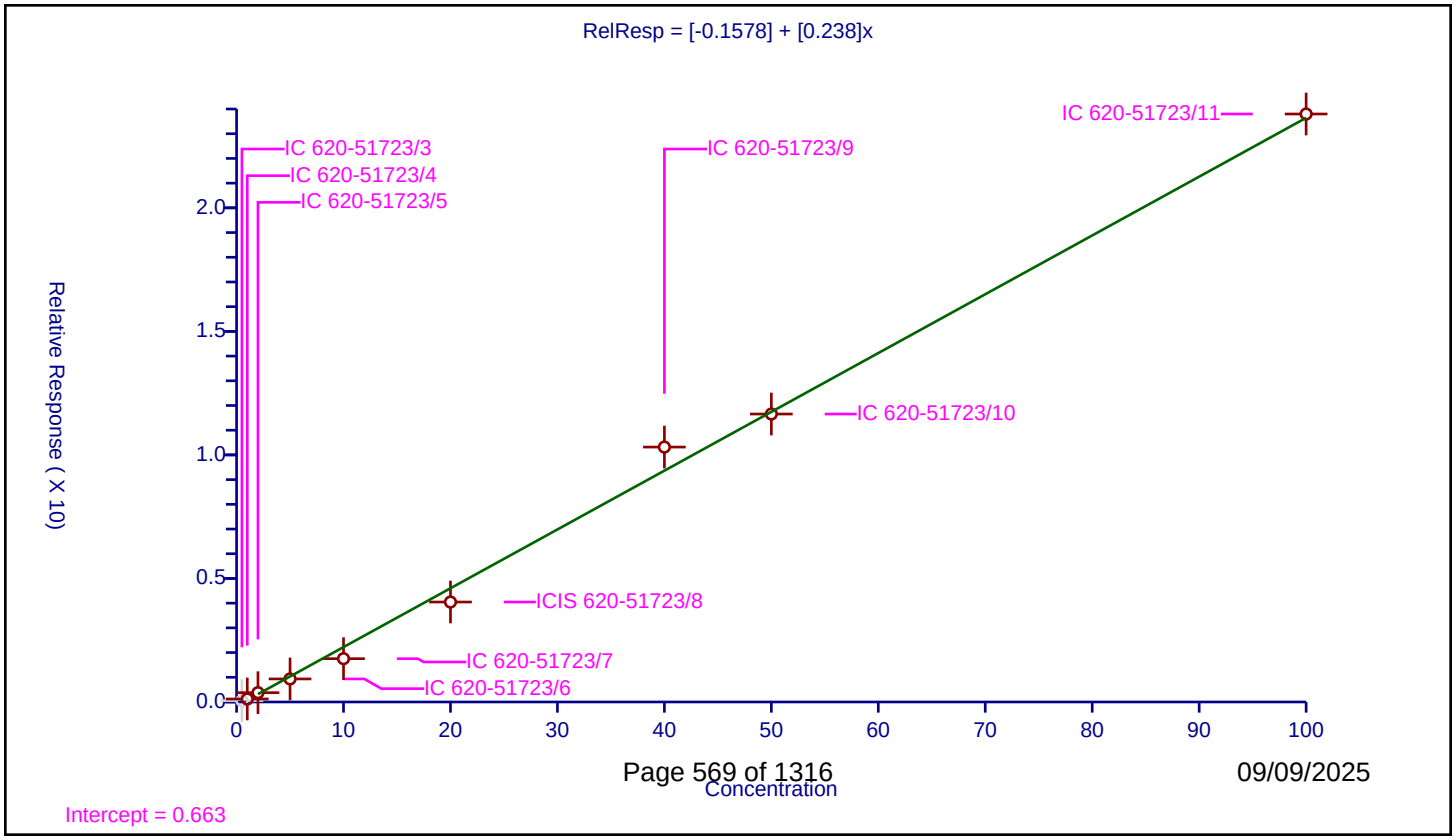
Curve Coefficients

Intercept:	-0.1578
Slope:	0.238

Error Coefficients

Relative Standard Deviation:	13.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.054639	50.0	367866.0	0.109279	N
2	IC 620-51723/4	1.0	0.121732	50.0	363913.0	0.121732	Y
3	IC 620-51723/5	2.0	0.376776	50.0	355782.0	0.188388	Y
4	IC 620-51723/6	5.0	0.933026	50.0	360065.0	0.186605	Y
5	IC 620-51723/7	10.0	1.752952	50.0	347414.0	0.175295	Y
6	ICIS 620-51723/8	20.0	4.046089	50.0	346631.0	0.202304	Y
7	IC 620-51723/9	40.0	10.317215	50.0	352663.0	0.25793	Y
8	IC 620-51723/10	50.0	11.655248	50.0	364767.0	0.233105	Y
9	IC 620-51723/11	100.0	23.798324	50.0	383069.0	0.237983	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

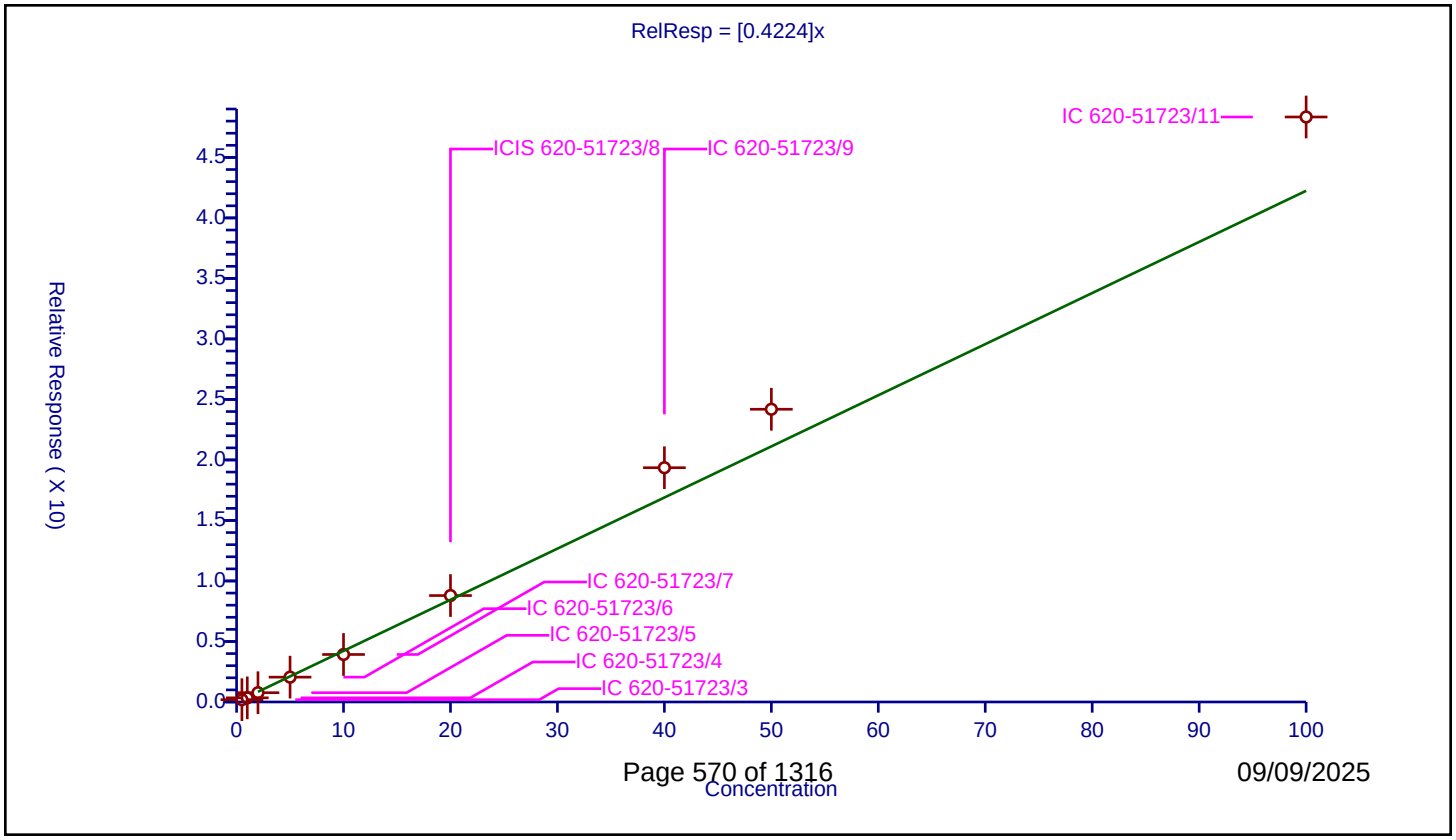
Curve Coefficients

Intercept:	0
Slope:	0.4224

Error Coefficients

Relative Standard Deviation:	12.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.190559	50.0	367866.0	0.381117	Y
2	IC 620-51723/4	1.0	0.34239	50.0	363913.0	0.34239	Y
3	IC 620-51723/5	2.0	0.768589	50.0	355782.0	0.384294	Y
4	IC 620-51723/6	5.0	2.051852	50.0	360065.0	0.41037	Y
5	IC 620-51723/7	10.0	3.926439	50.0	347414.0	0.392644	Y
6	ICIS 620-51723/8	20.0	8.794655	50.0	346631.0	0.439733	Y
7	IC 620-51723/9	40.0	19.360409	50.0	352663.0	0.48401	Y
8	IC 620-51723/10	50.0	24.189825	50.0	364767.0	0.483797	Y
9	IC 620-51723/11	100.0	48.341552	50.0	383069.0	0.483416	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

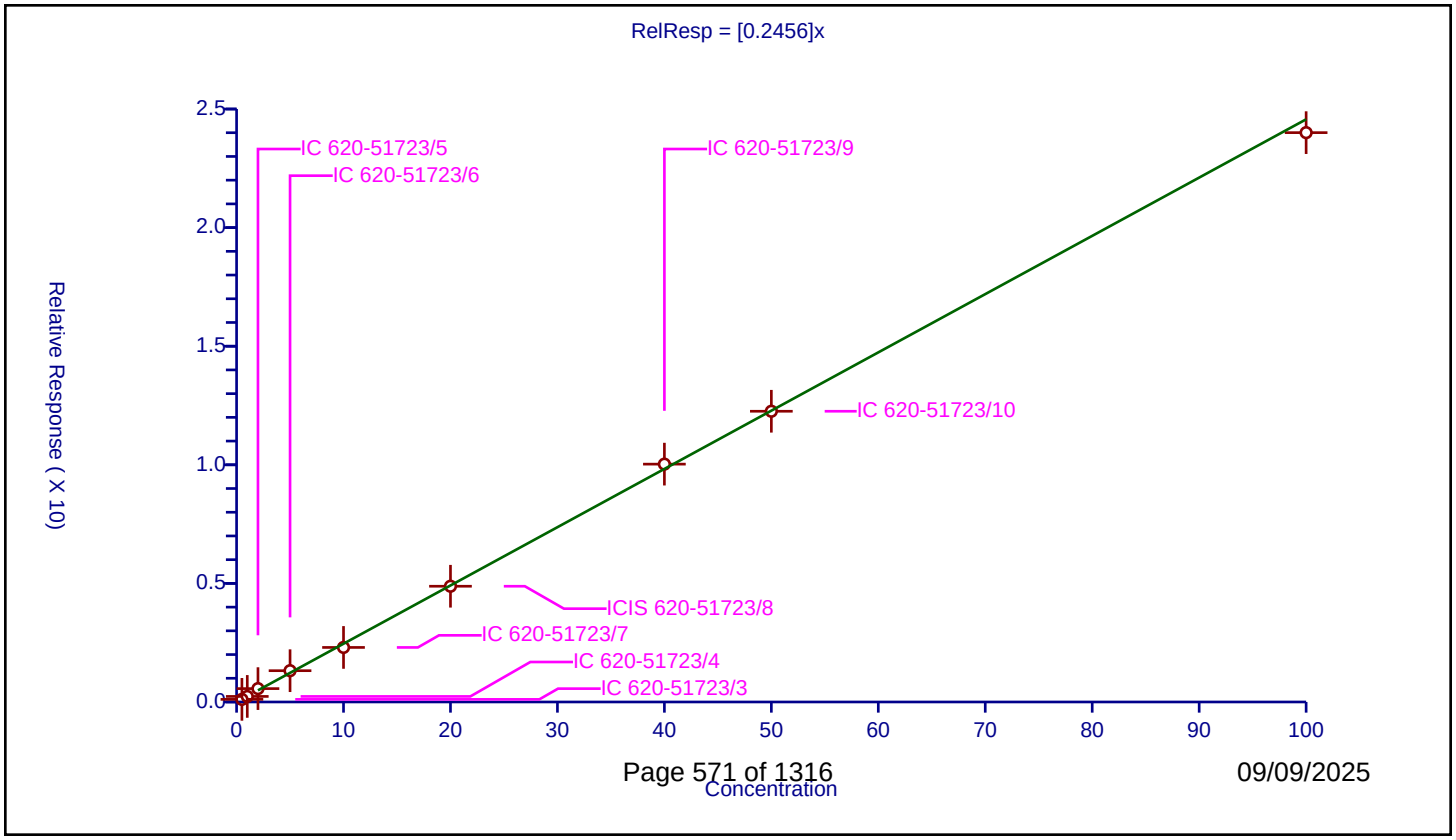
Curve Coefficients

Intercept:	0
Slope:	0.2456

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.11023	50.0	367866.0	0.220461	Y
2	IC 620-51723/4	1.0	0.234809	50.0	363913.0	0.234809	Y
3	IC 620-51723/5	2.0	0.563547	50.0	355782.0	0.281774	Y
4	IC 620-51723/6	5.0	1.319484	50.0	360065.0	0.263897	Y
5	IC 620-51723/7	10.0	2.299994	50.0	347414.0	0.229999	Y
6	ICIS 620-51723/8	20.0	4.880262	50.0	346631.0	0.244013	Y
7	IC 620-51723/9	40.0	10.028129	50.0	352663.0	0.250703	Y
8	IC 620-51723/10	50.0	12.257414	50.0	364767.0	0.245148	Y
9	IC 620-51723/11	100.0	24.004161	50.0	383069.0	0.240042	Y



09/09/2025

Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

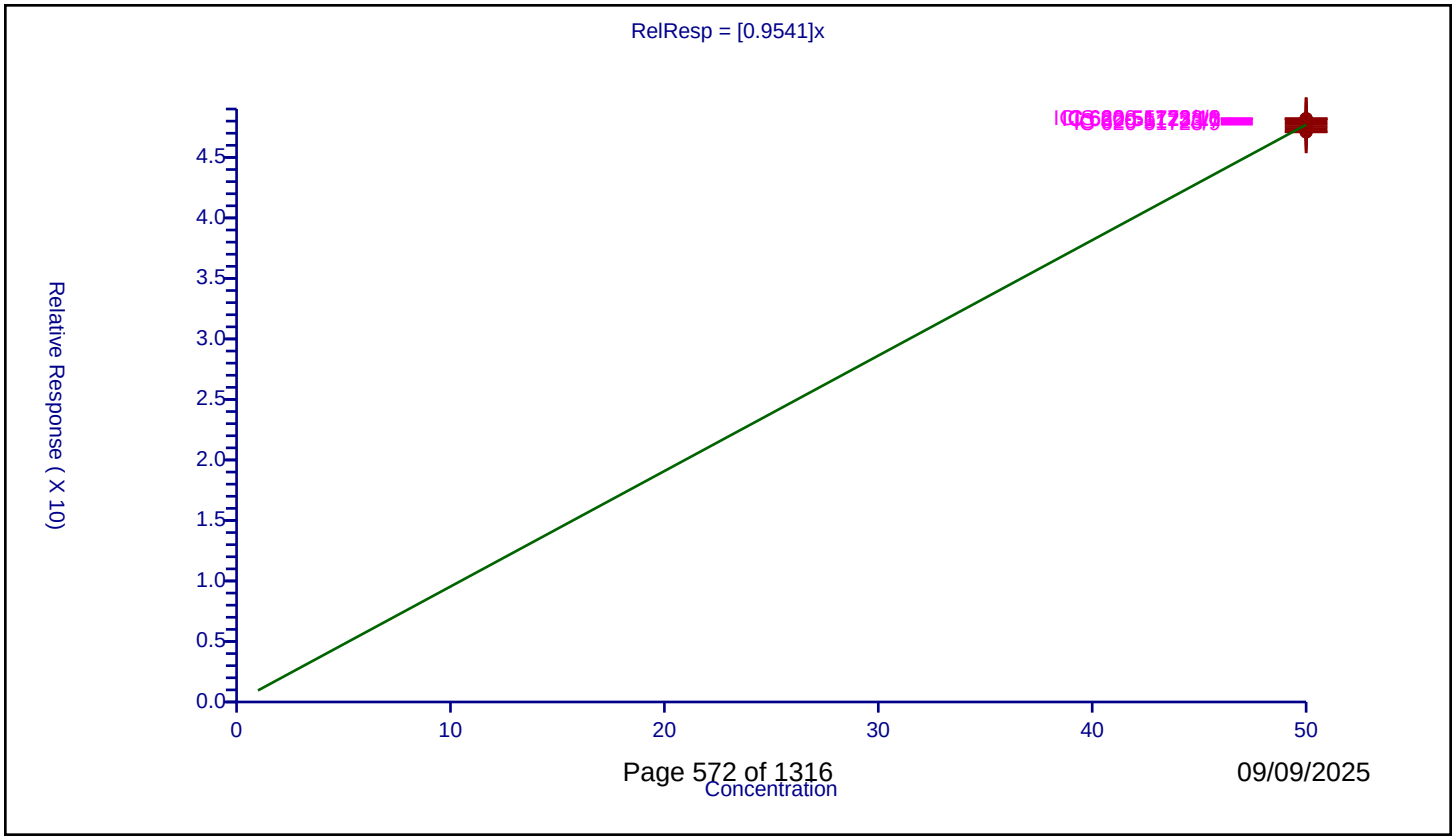
Curve Coefficients

Intercept:	0
Slope:	0.9541

Error Coefficients

Relative Standard Deviation:	0.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	50.0	47.108322	50.0	367866.0	0.942166	Y
2	IC 620-51723/4	50.0	47.150555	50.0	363913.0	0.943011	Y
3	IC 620-51723/5	50.0	47.375359	50.0	355782.0	0.947507	Y
4	IC 620-51723/6	50.0	47.554747	50.0	360065.0	0.951095	Y
5	IC 620-51723/7	50.0	47.899768	50.0	347414.0	0.957995	Y
6	ICIS 620-51723/8	50.0	48.193612	50.0	346631.0	0.963872	Y
7	IC 620-51723/9	50.0	47.744731	50.0	352663.0	0.954895	Y
8	IC 620-51723/10	50.0	48.193504	50.0	364767.0	0.96387	Y
9	IC 620-51723/11	50.0	48.105955	50.0	383069.0	0.962119	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

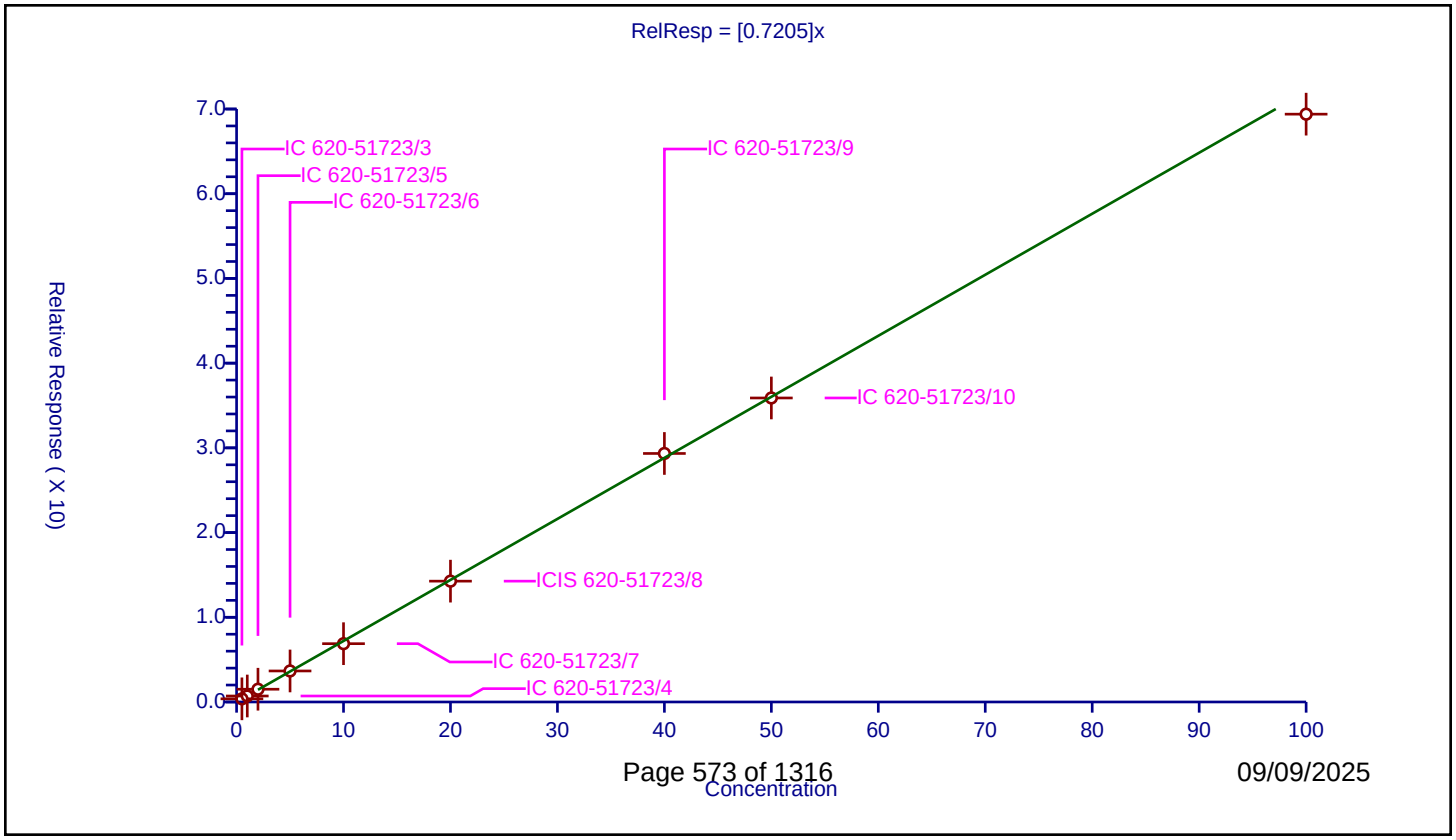
Curve Coefficients

Intercept:	0
Slope:	0.7205

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.371467	50.0	367866.0	0.742934	Y
2	IC 620-51723/4	1.0	0.707861	50.0	363913.0	0.707861	Y
3	IC 620-51723/5	2.0	1.507805	50.0	355782.0	0.753903	Y
4	IC 620-51723/6	5.0	3.663089	50.0	360065.0	0.732618	Y
5	IC 620-51723/7	10.0	6.883862	50.0	347414.0	0.688386	Y
6	ICIS 620-51723/8	20.0	14.264448	50.0	346631.0	0.713222	Y
7	IC 620-51723/9	40.0	29.337781	50.0	352663.0	0.733445	Y
8	IC 620-51723/10	50.0	35.889897	50.0	364767.0	0.717798	Y
9	IC 620-51723/11	100.0	69.392068	50.0	383069.0	0.693921	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

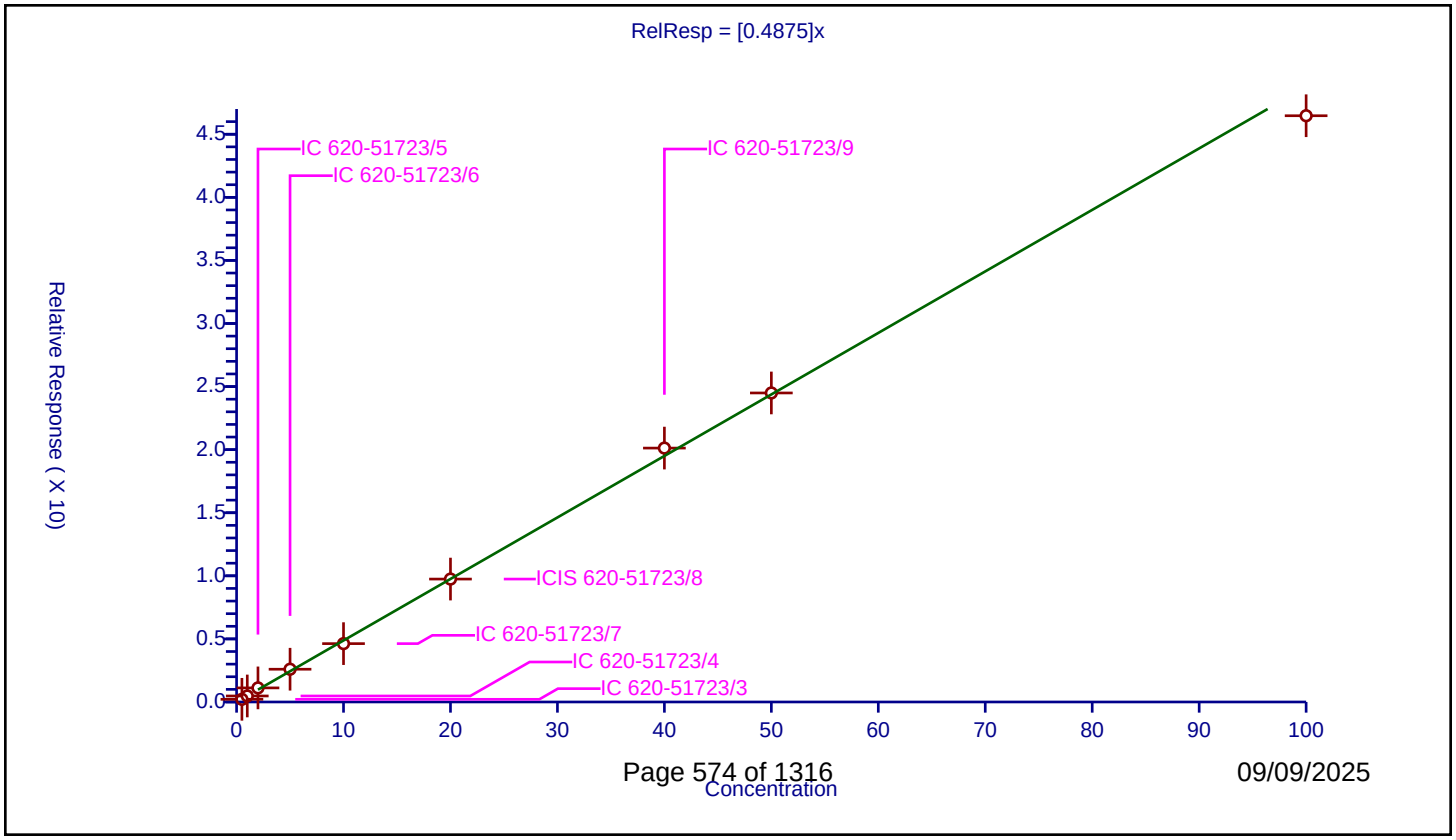
Curve Coefficients

Intercept:	0
Slope:	0.4875

Error Coefficients

Relative Standard Deviation:	7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.213393	50.0	367866.0	0.426786	Y
2	IC 620-51723/4	1.0	0.475801	50.0	363913.0	0.475801	Y
3	IC 620-51723/5	2.0	1.117117	50.0	355782.0	0.558558	Y
4	IC 620-51723/6	5.0	2.596753	50.0	360065.0	0.519351	Y
5	IC 620-51723/7	10.0	4.625893	50.0	347414.0	0.462589	Y
6	ICIS 620-51723/8	20.0	9.742925	50.0	346631.0	0.487146	Y
7	IC 620-51723/9	40.0	20.124878	50.0	352663.0	0.503122	Y
8	IC 620-51723/10	50.0	24.493718	50.0	364767.0	0.489874	Y
9	IC 620-51723/11	100.0	46.466955	50.0	383069.0	0.46467	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

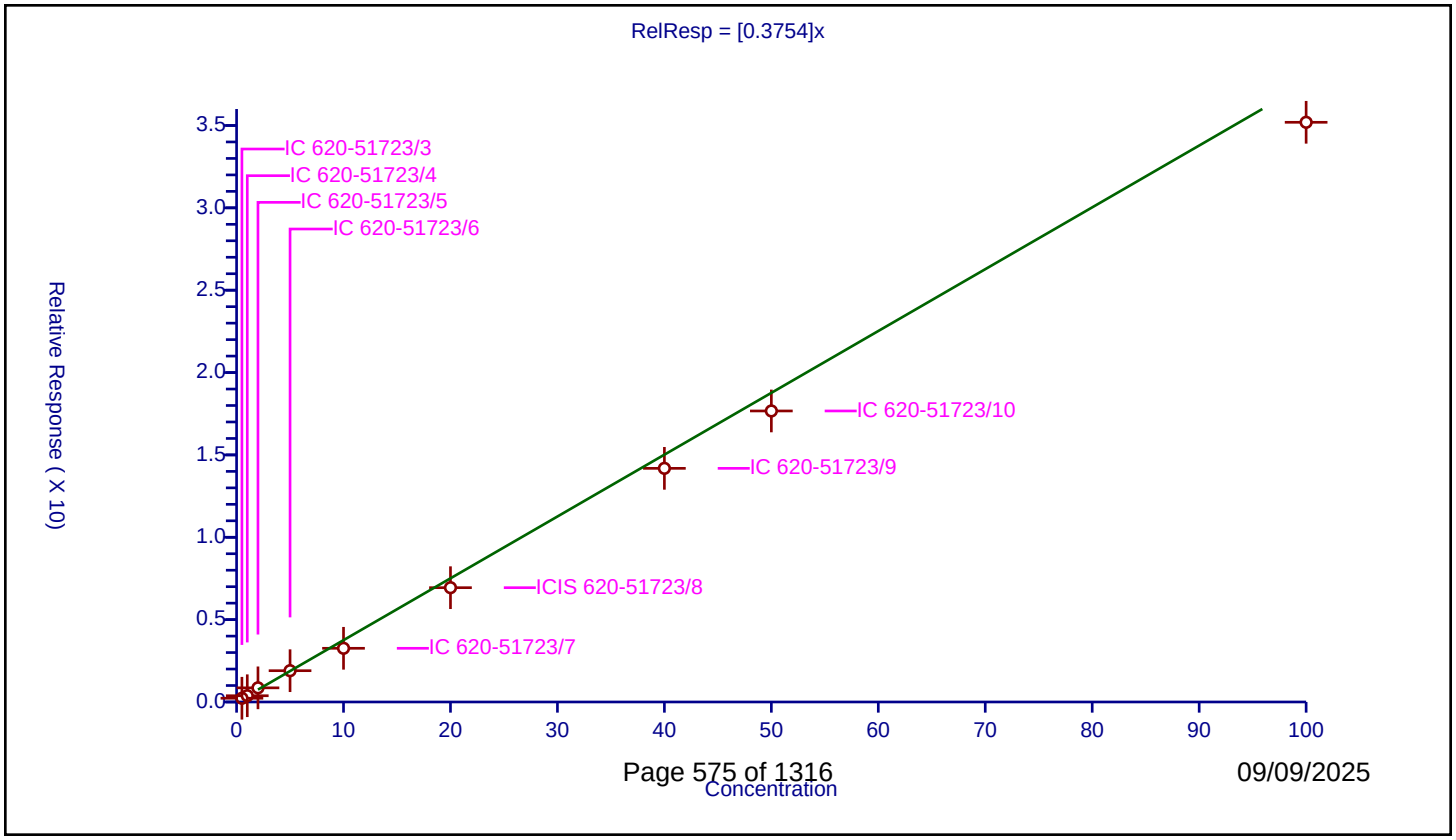
Curve Coefficients

Intercept:	0
Slope:	0.3754

Error Coefficients

Relative Standard Deviation:	11.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.2278	50.0	367866.0	0.455601	Y
2	IC 620-51723/4	1.0	0.380173	50.0	363913.0	0.380173	Y
3	IC 620-51723/5	2.0	0.859375	50.0	355782.0	0.429687	Y
4	IC 620-51723/6	5.0	1.899518	50.0	360065.0	0.379904	Y
5	IC 620-51723/7	10.0	3.259943	50.0	347414.0	0.325994	Y
6	ICIS 620-51723/8	20.0	6.939801	50.0	346631.0	0.34699	Y
7	IC 620-51723/9	40.0	14.18493	50.0	352663.0	0.354623	Y
8	IC 620-51723/10	50.0	17.667854	50.0	364767.0	0.353357	Y
9	IC 620-51723/11	100.0	35.193921	50.0	383069.0	0.351939	Y



Calibration / 2-Hexanone

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

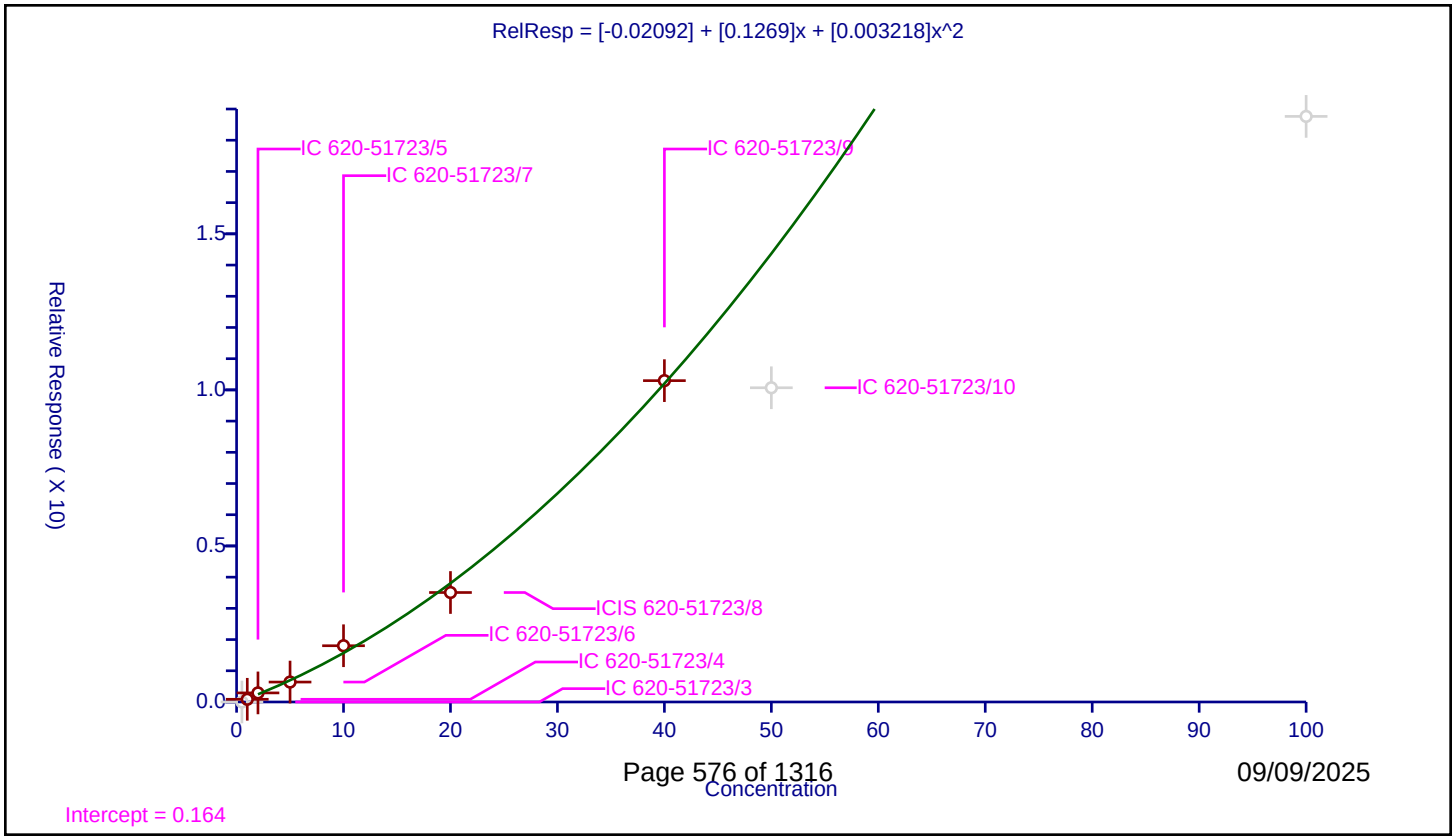
Curve Coefficients

Intercept:	-0.02092
Slope:	0.1269
Second Order:	0.003218

Error Coefficients

Relative Standard Deviation:	16.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.0	50.0	367866.0	0.0	N
2	IC 620-51723/4	1.0	0.086559	50.0	363913.0	0.086559	Y
3	IC 620-51723/5	2.0	0.291049	50.0	355782.0	0.145525	Y
4	IC 620-51723/6	5.0	0.638774	50.0	360065.0	0.127755	Y
5	IC 620-51723/7	10.0	1.80246	50.0	347414.0	0.180246	Y
6	ICIS 620-51723/8	20.0	3.507909	50.0	346631.0	0.175395	Y
7	IC 620-51723/9	40.0	10.296941	50.0	352663.0	0.257424	Y
8	IC 620-51723/10	50.0	10.068208	50.0	364767.0	0.201364	N
9	IC 620-51723/11	100.0	18.762938	50.0	383069.0	0.187629	N



09/09/2025

Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

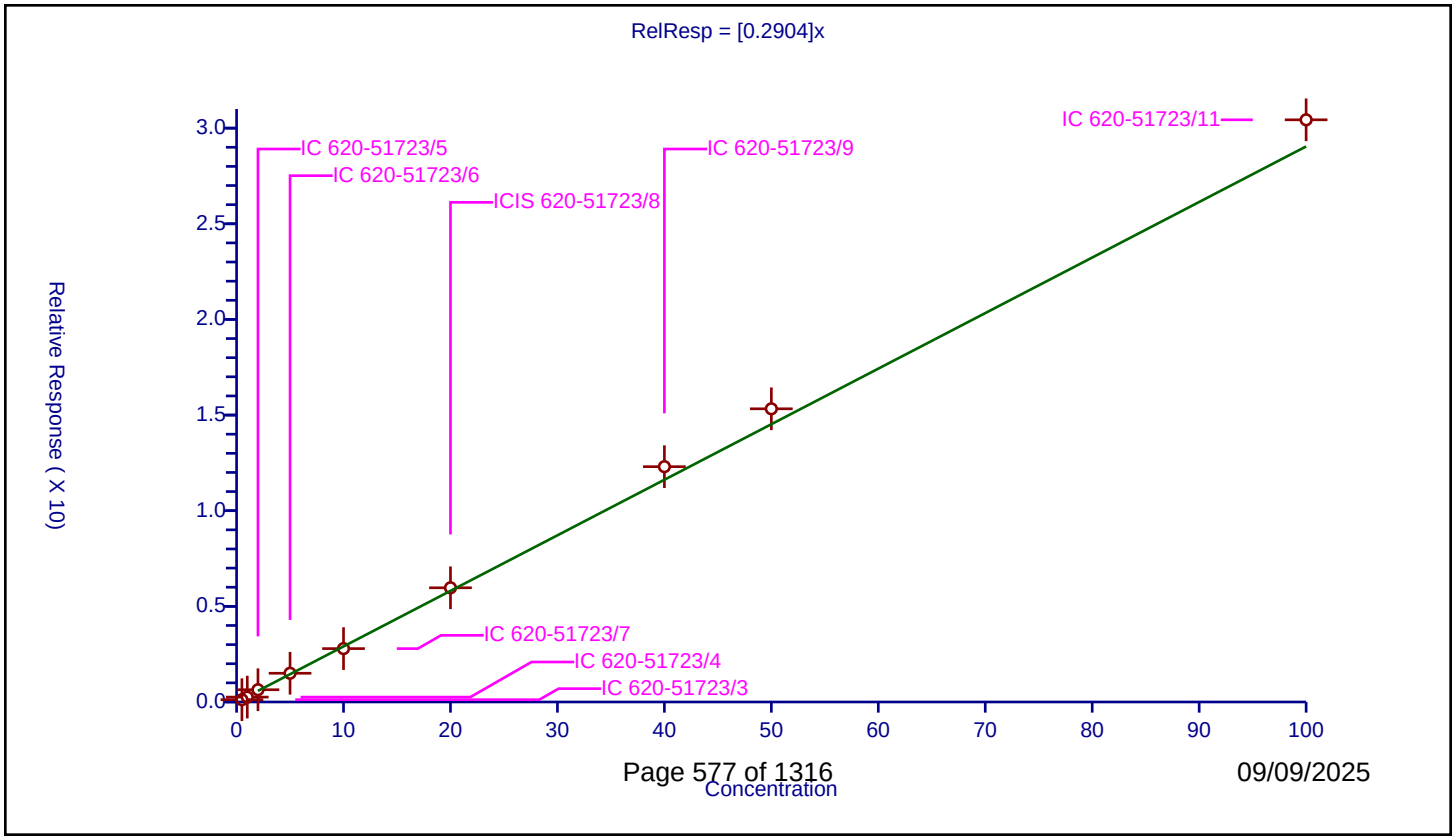
Curve Coefficients

Intercept:	0
Slope:	0.2904

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.120424	50.0	367866.0	0.240849	Y
2	IC 620-51723/4	1.0	0.25638	50.0	363913.0	0.25638	Y
3	IC 620-51723/5	2.0	0.640139	50.0	355782.0	0.32007	Y
4	IC 620-51723/6	5.0	1.502645	50.0	360065.0	0.300529	Y
5	IC 620-51723/7	10.0	2.790907	50.0	347414.0	0.279091	Y
6	ICIS 620-51723/8	20.0	5.970182	50.0	346631.0	0.298509	Y
7	IC 620-51723/9	40.0	12.301687	50.0	352663.0	0.307542	Y
8	IC 620-51723/10	50.0	15.32773	50.0	364767.0	0.306555	Y
9	IC 620-51723/11	100.0	30.434856	50.0	383069.0	0.304349	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

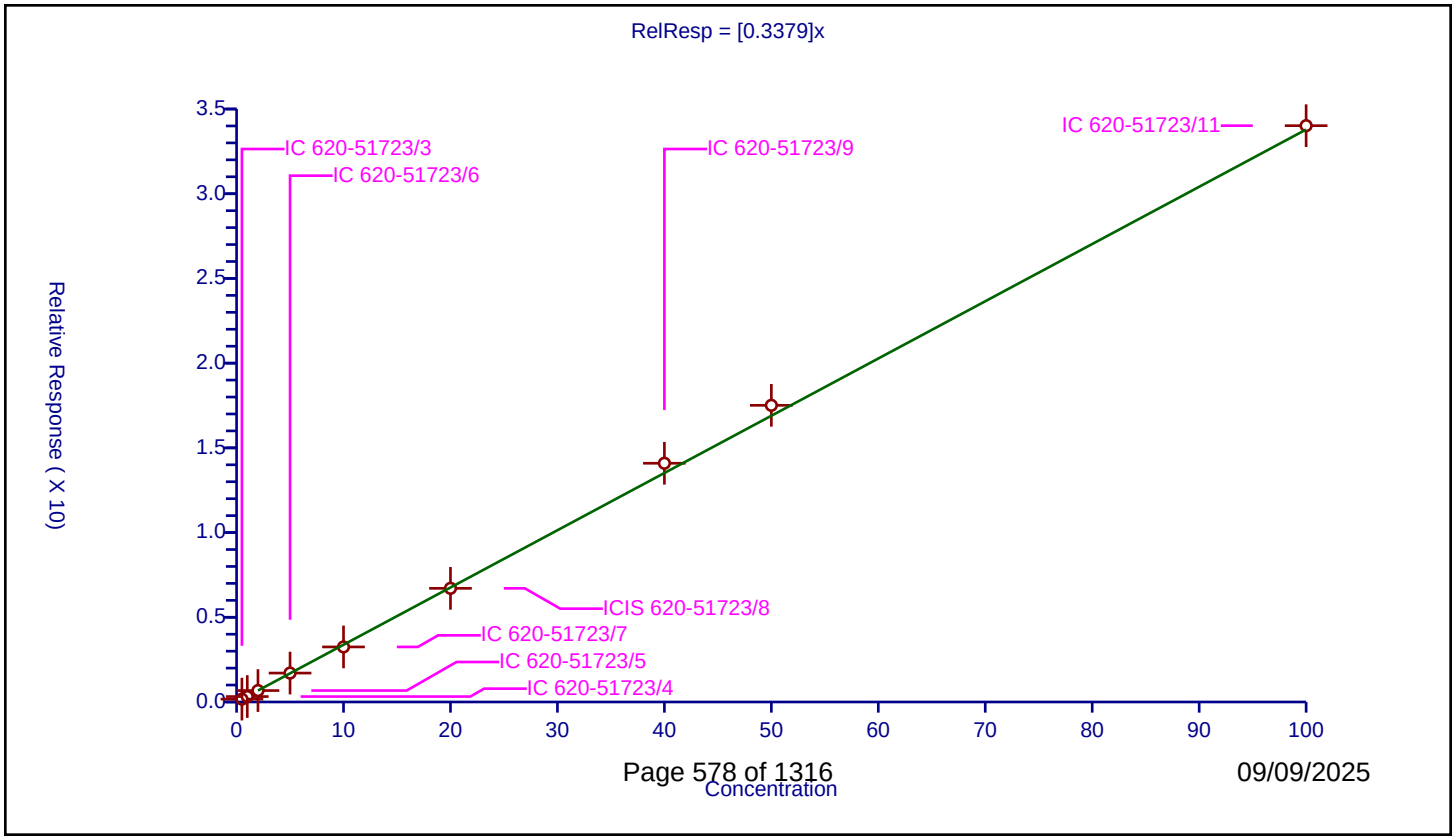
Curve Coefficients

Intercept:	0
Slope:	0.3379

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.169219	50.0	367866.0	0.338438	Y
2	IC 620-51723/4	1.0	0.320956	50.0	363913.0	0.320956	Y
3	IC 620-51723/5	2.0	0.674711	50.0	355782.0	0.337355	Y
4	IC 620-51723/6	5.0	1.706359	50.0	360065.0	0.341272	Y
5	IC 620-51723/7	10.0	3.249437	50.0	347414.0	0.324944	Y
6	ICIS 620-51723/8	20.0	6.707854	50.0	346631.0	0.335393	Y
7	IC 620-51723/9	40.0	14.090931	50.0	352663.0	0.352273	Y
8	IC 620-51723/10	50.0	17.510356	50.0	364767.0	0.350207	Y
9	IC 620-51723/11	100.0	34.015673	50.0	383069.0	0.340157	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

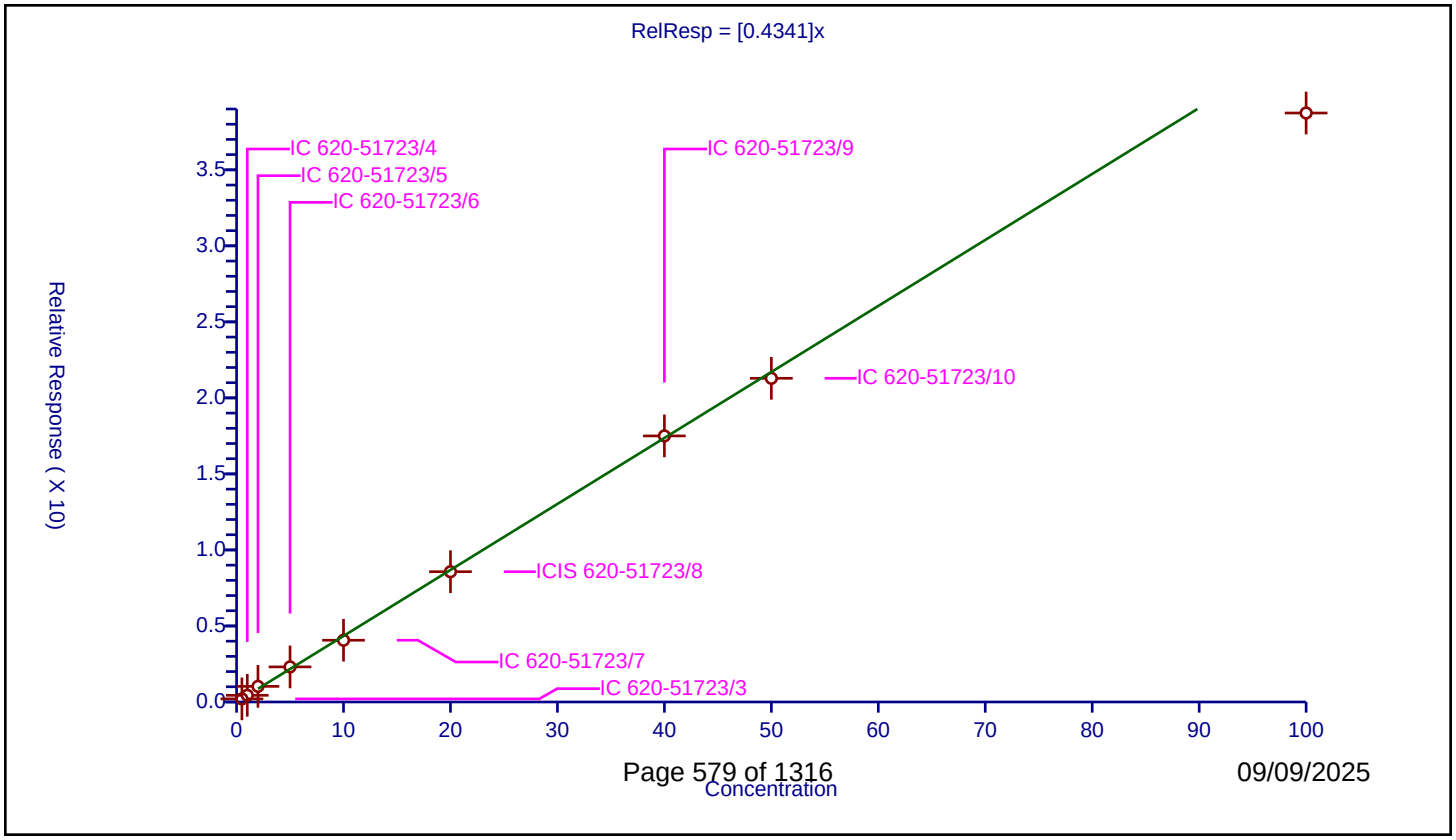
Curve Coefficients

Intercept:	0
Slope:	0.4341

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.203934	50.0	255720.0	0.407868	Y
2	IC 620-51723/4	1.0	0.438771	50.0	251042.0	0.438771	Y
3	IC 620-51723/5	2.0	1.027448	50.0	249891.0	0.513724	Y
4	IC 620-51723/6	5.0	2.307644	50.0	253397.0	0.461529	Y
5	IC 620-51723/7	10.0	4.061416	50.0	248891.0	0.406142	Y
6	ICIS 620-51723/8	20.0	8.56842	50.0	249731.0	0.428421	Y
7	IC 620-51723/9	40.0	17.498525	50.0	262745.0	0.437463	Y
8	IC 620-51723/10	50.0	21.2885	50.0	276593.0	0.42577	Y
9	IC 620-51723/11	100.0	38.737224	50.0	312787.0	0.387372	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

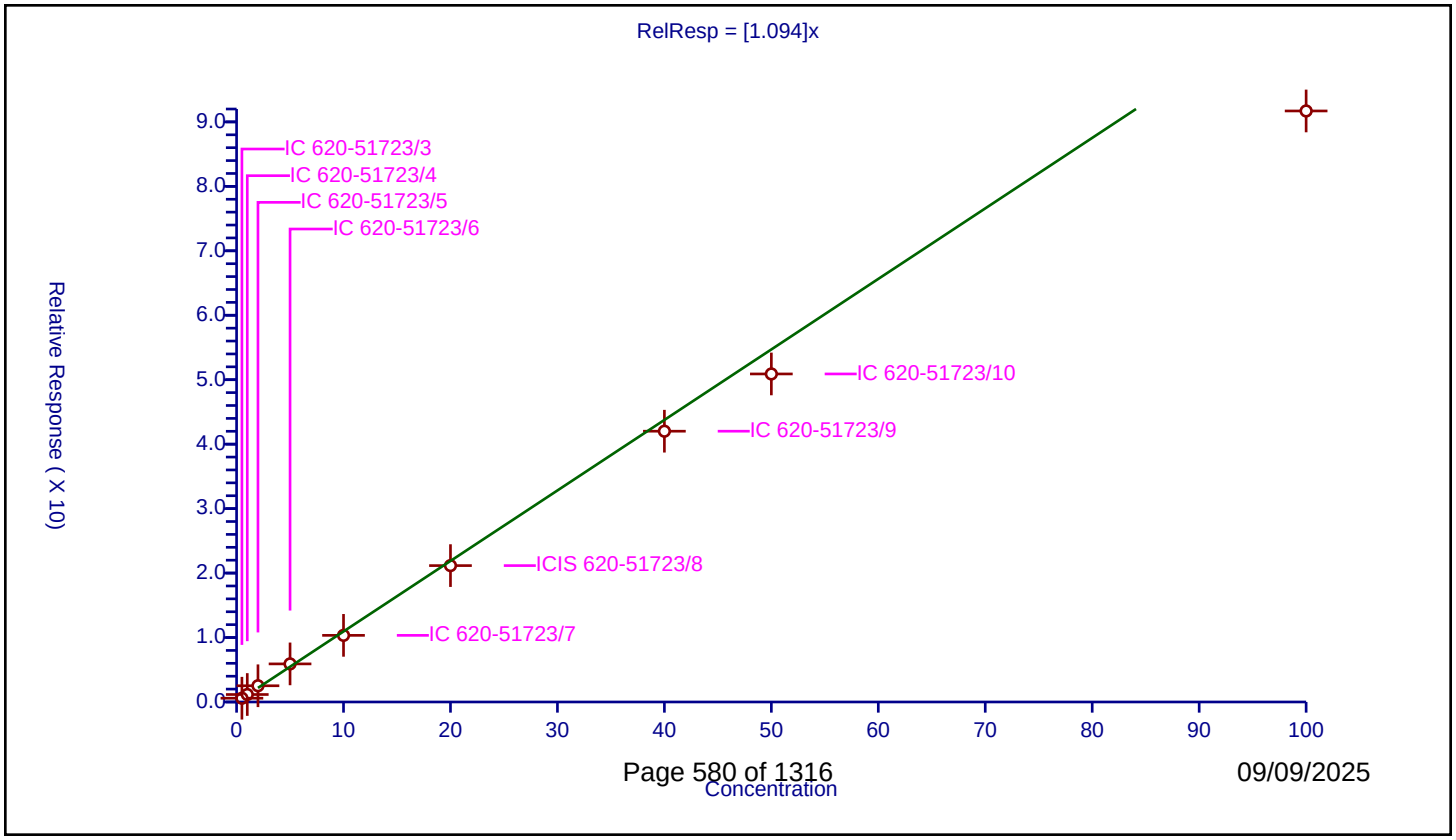
Curve Coefficients

Intercept:	0
Slope:	1.094

Error Coefficients

Relative Standard Deviation:	9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.583451	50.0	255720.0	1.166901	Y
2	IC 620-51723/4	1.0	1.162156	50.0	251042.0	1.162156	Y
3	IC 620-51723/5	2.0	2.515897	50.0	249891.0	1.257948	Y
4	IC 620-51723/6	5.0	5.910094	50.0	253397.0	1.182019	Y
5	IC 620-51723/7	10.0	10.337055	50.0	248891.0	1.033706	Y
6	ICIS 620-51723/8	20.0	21.159367	50.0	249731.0	1.057968	Y
7	IC 620-51723/9	40.0	42.01393	50.0	262745.0	1.050348	Y
8	IC 620-51723/10	50.0	50.894997	50.0	276593.0	1.0179	Y
9	IC 620-51723/11	100.0	91.697225	50.0	312787.0	0.916972	Y



09/09/2025

Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

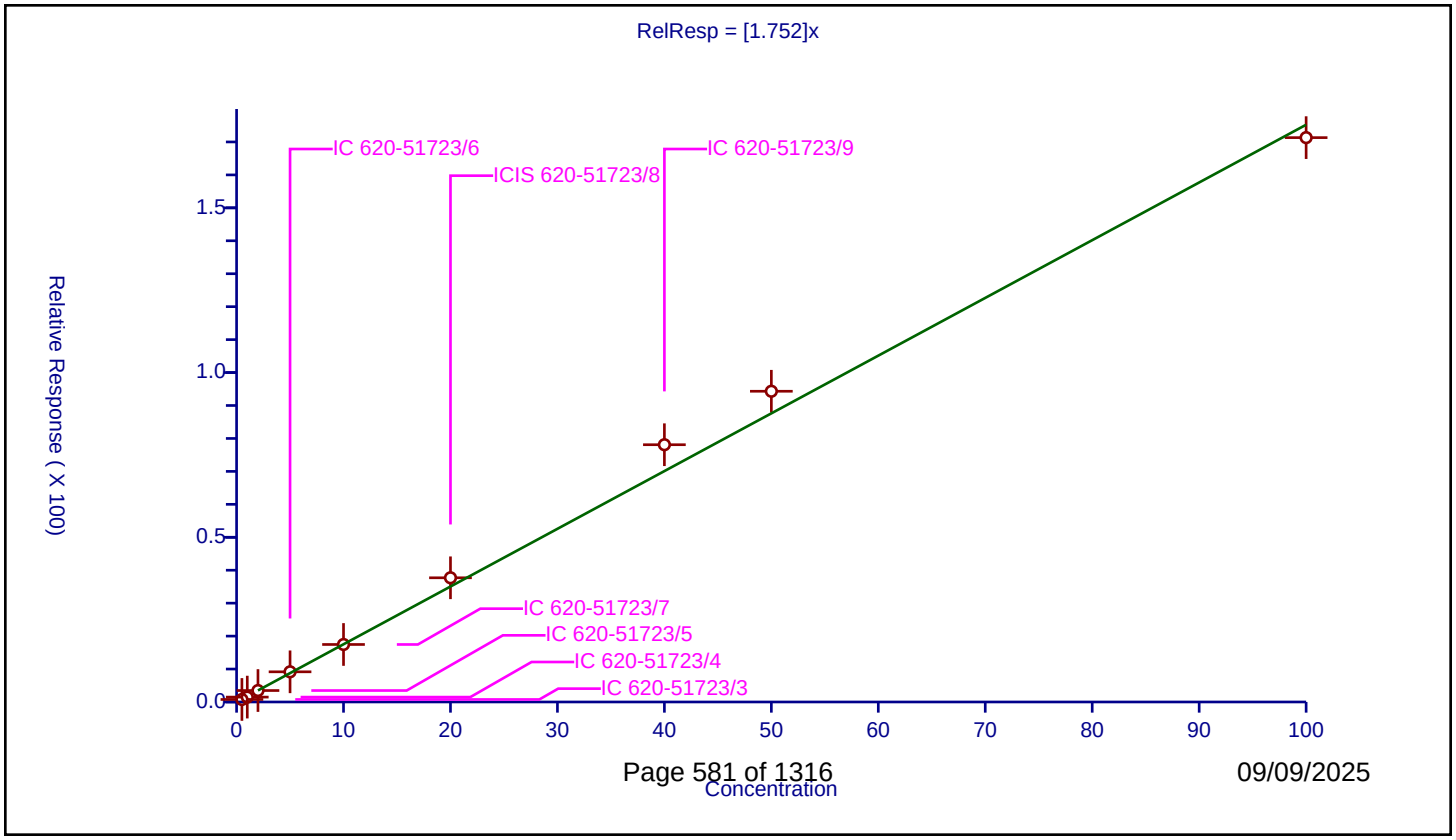
Curve Coefficients

Intercept:	0
Slope:	1.752

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.766268	50.0	255720.0	1.532536	Y
2	IC 620-51723/4	1.0	1.48262	50.0	251042.0	1.48262	Y
3	IC 620-51723/5	2.0	3.480518	50.0	249891.0	1.740259	Y
4	IC 620-51723/6	5.0	9.160527	50.0	253397.0	1.832105	Y
5	IC 620-51723/7	10.0	17.453825	50.0	248891.0	1.745383	Y
6	ICIS 620-51723/8	20.0	37.702568	50.0	249731.0	1.885128	Y
7	IC 620-51723/9	40.0	78.097585	50.0	262745.0	1.95244	Y
8	IC 620-51723/10	50.0	94.320717	50.0	276593.0	1.886414	Y
9	IC 620-51723/11	100.0	171.316423	50.0	312787.0	1.713164	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

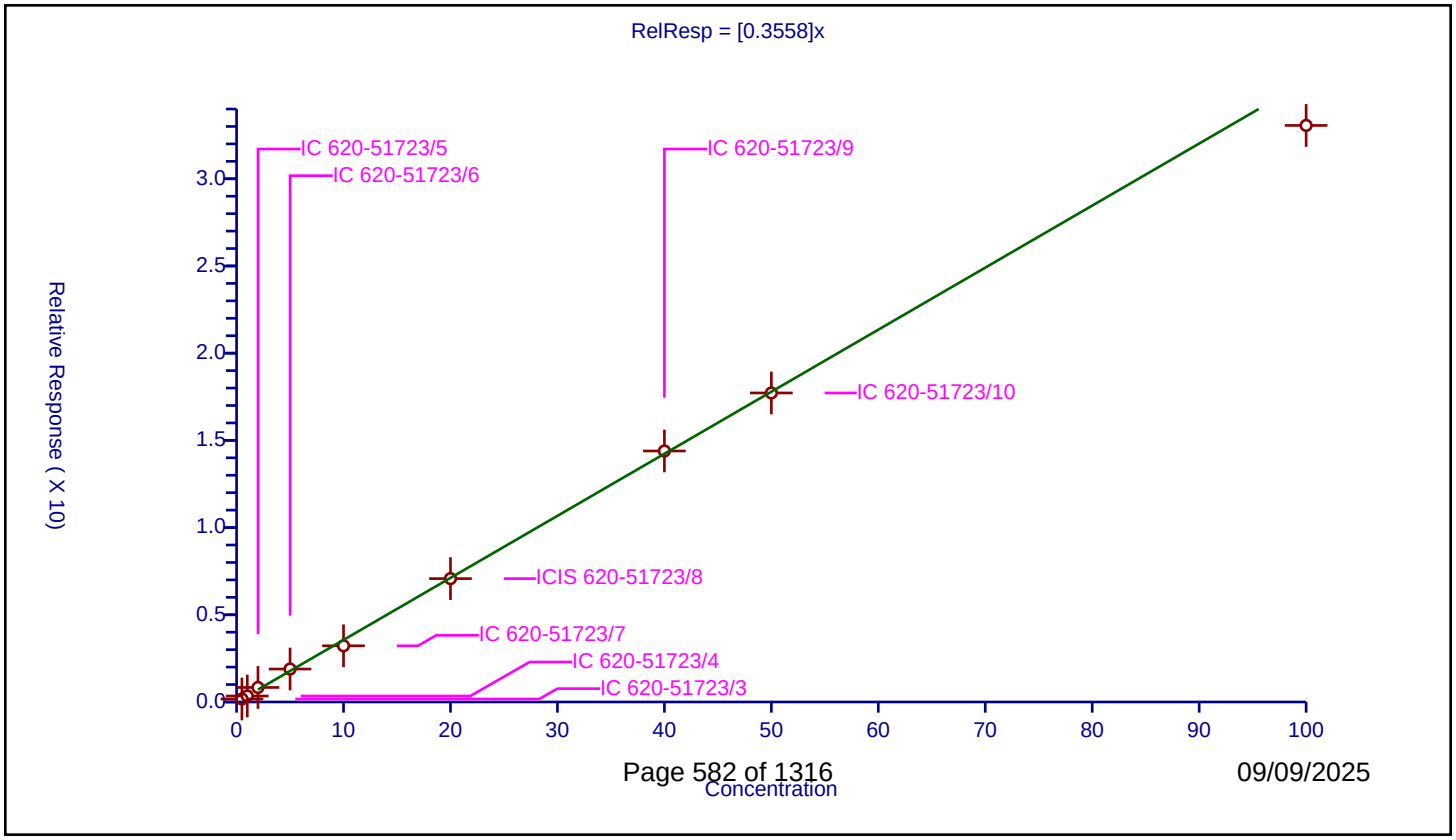
Curve Coefficients

Intercept:	0
Slope:	0.3558

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.172259	50.0	255720.0	0.344517	Y
2	IC 620-51723/4	1.0	0.342771	50.0	251042.0	0.342771	Y
3	IC 620-51723/5	2.0	0.832363	50.0	249891.0	0.416181	Y
4	IC 620-51723/6	5.0	1.889328	50.0	253397.0	0.377866	Y
5	IC 620-51723/7	10.0	3.221491	50.0	248891.0	0.322149	Y
6	ICIS 620-51723/8	20.0	7.074612	50.0	249731.0	0.353731	Y
7	IC 620-51723/9	40.0	14.392472	50.0	262745.0	0.359812	Y
8	IC 620-51723/10	50.0	17.718272	50.0	276593.0	0.354365	Y
9	IC 620-51723/11	100.0	33.058119	50.0	312787.0	0.330581	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

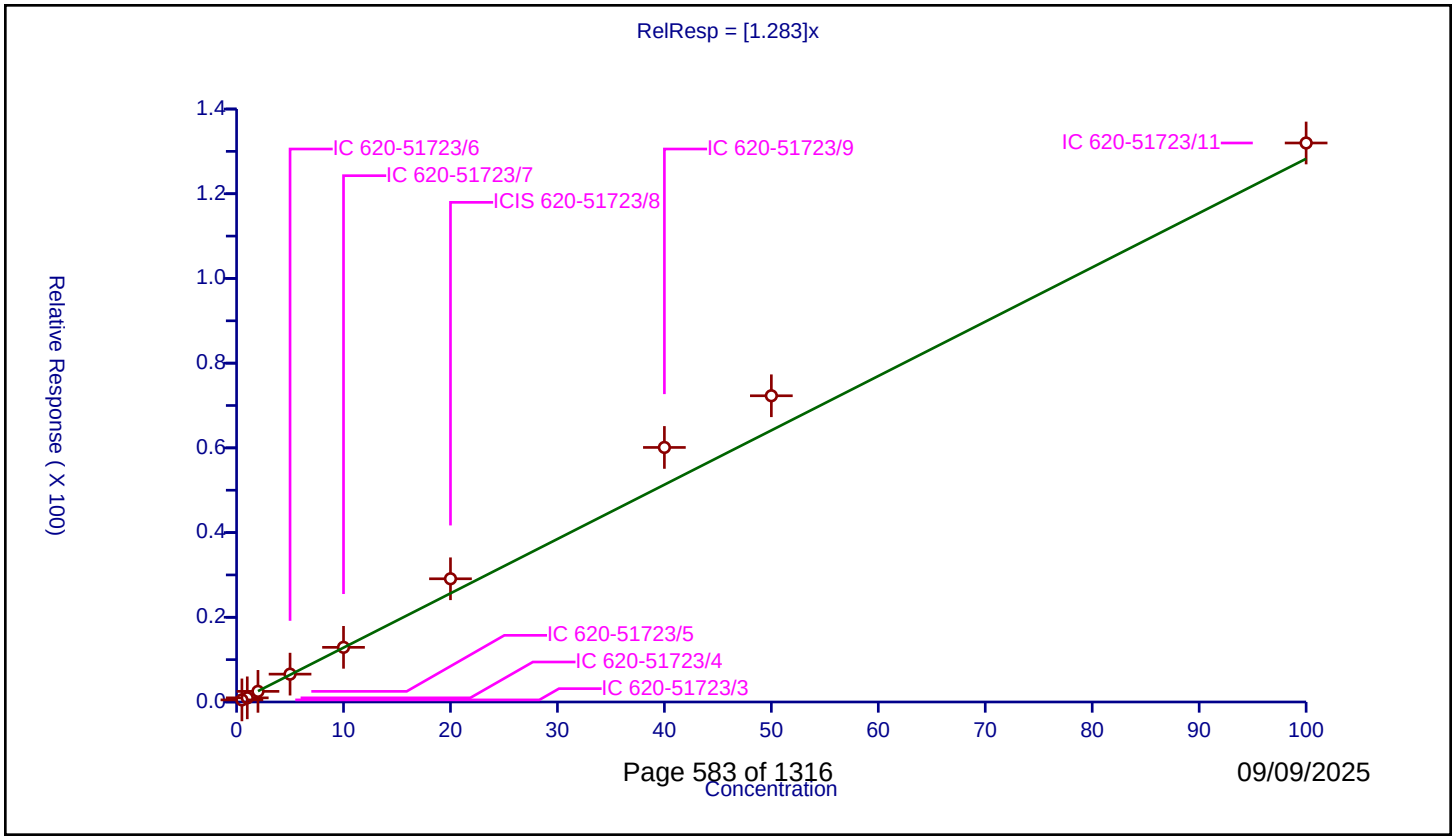
Curve Coefficients

Intercept:	0
Slope:	1.283

Error Coefficients

Relative Standard Deviation:	14.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.491553	50.0	255720.0	0.983107	Y
2	IC 620-51723/4	1.0	0.976928	50.0	251042.0	0.976928	Y
3	IC 620-51723/5	2.0	2.509494	50.0	249891.0	1.254747	Y
4	IC 620-51723/6	5.0	6.578215	50.0	253397.0	1.315643	Y
5	IC 620-51723/7	10.0	12.903038	50.0	248891.0	1.290304	Y
6	ICIS 620-51723/8	20.0	29.090702	50.0	249731.0	1.454535	Y
7	IC 620-51723/9	40.0	60.098765	50.0	262745.0	1.502469	Y
8	IC 620-51723/10	50.0	72.297744	50.0	276593.0	1.445955	Y
9	IC 620-51723/11	100.0	131.98007	50.0	312787.0	1.319801	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

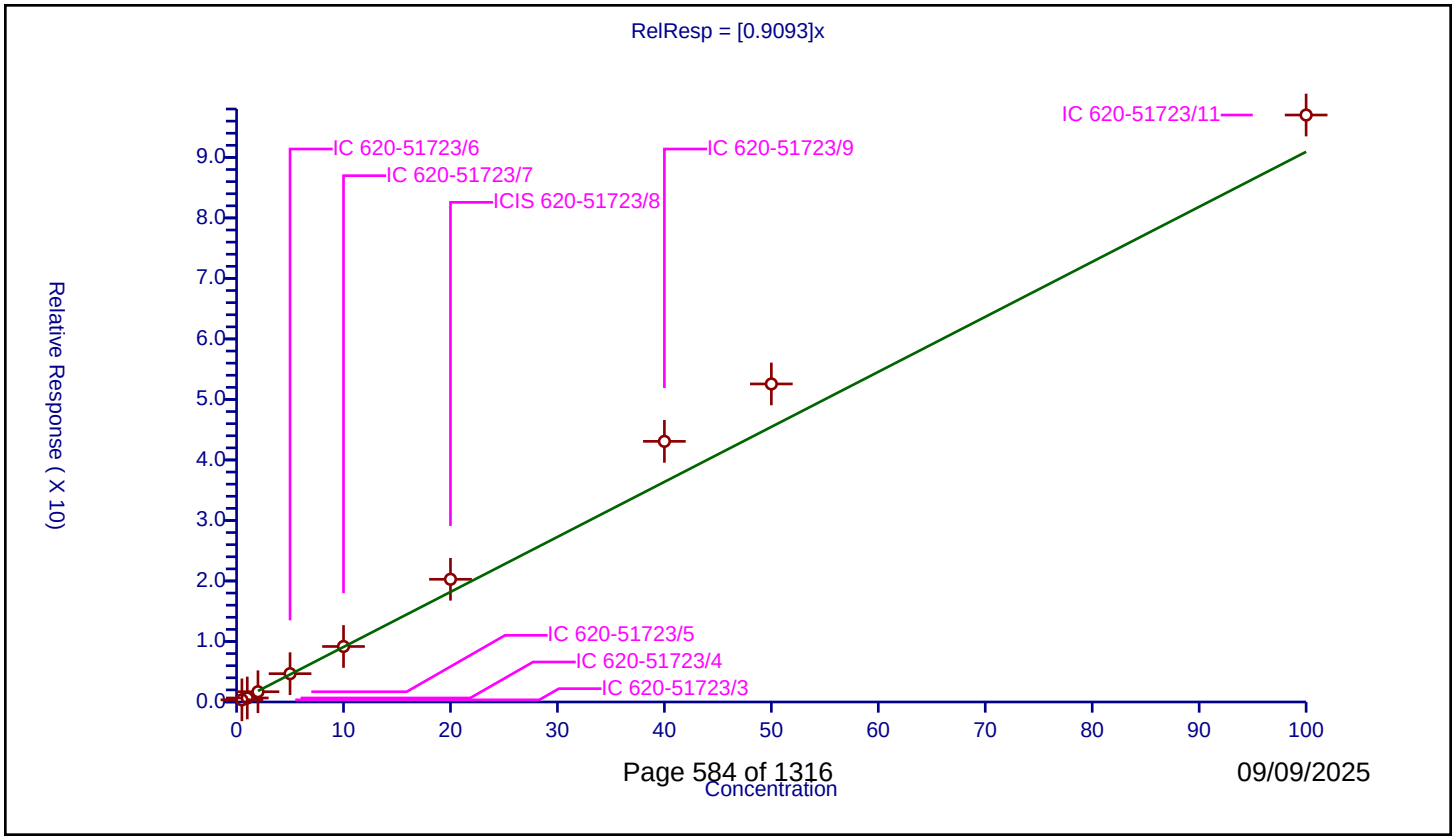
Curve Coefficients

Intercept:	0
Slope:	0.9093

Error Coefficients

Relative Standard Deviation:	16.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.353903	50.0	255720.0	0.707805	Y
2	IC 620-51723/4	1.0	0.662837	50.0	251042.0	0.662837	Y
3	IC 620-51723/5	2.0	1.69614	50.0	249891.0	0.84807	Y
4	IC 620-51723/6	5.0	4.678035	50.0	253397.0	0.935607	Y
5	IC 620-51723/7	10.0	9.174096	50.0	248891.0	0.91741	Y
6	ICIS 620-51723/8	20.0	20.277819	50.0	249731.0	1.013891	Y
7	IC 620-51723/9	40.0	43.074654	50.0	262745.0	1.076866	Y
8	IC 620-51723/10	50.0	52.561887	50.0	276593.0	1.051238	Y
9	IC 620-51723/11	100.0	97.007868	50.0	312787.0	0.970079	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

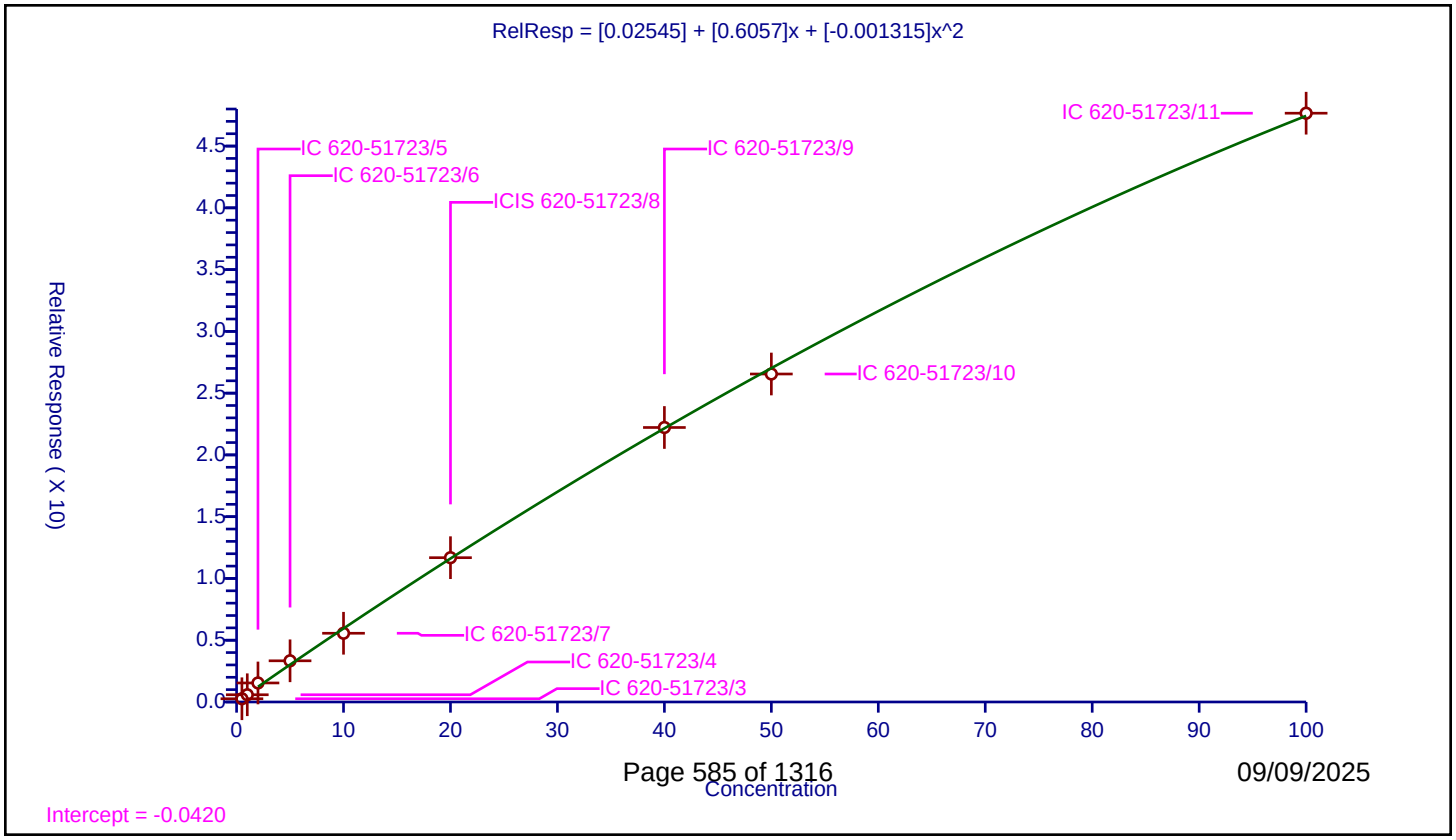
Curve Coefficients

Intercept:	0.02545
Slope:	0.6057
Second Order:	-0.001315

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.262201	50.0	255720.0	0.524402	Y
2	IC 620-51723/4	1.0	0.585161	50.0	251042.0	0.585161	Y
3	IC 620-51723/5	2.0	1.541072	50.0	249891.0	0.770536	Y
4	IC 620-51723/6	5.0	3.334294	50.0	253397.0	0.666859	Y
5	IC 620-51723/7	10.0	5.562877	50.0	248891.0	0.556288	Y
6	ICIS 620-51723/8	20.0	11.681369	50.0	249731.0	0.584068	Y
7	IC 620-51723/9	40.0	22.220214	50.0	262745.0	0.555505	Y
8	IC 620-51723/10	50.0	26.54966	50.0	276593.0	0.530993	Y
9	IC 620-51723/11	100.0	47.661348	50.0	312787.0	0.476613	Y



09/09/2025

Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

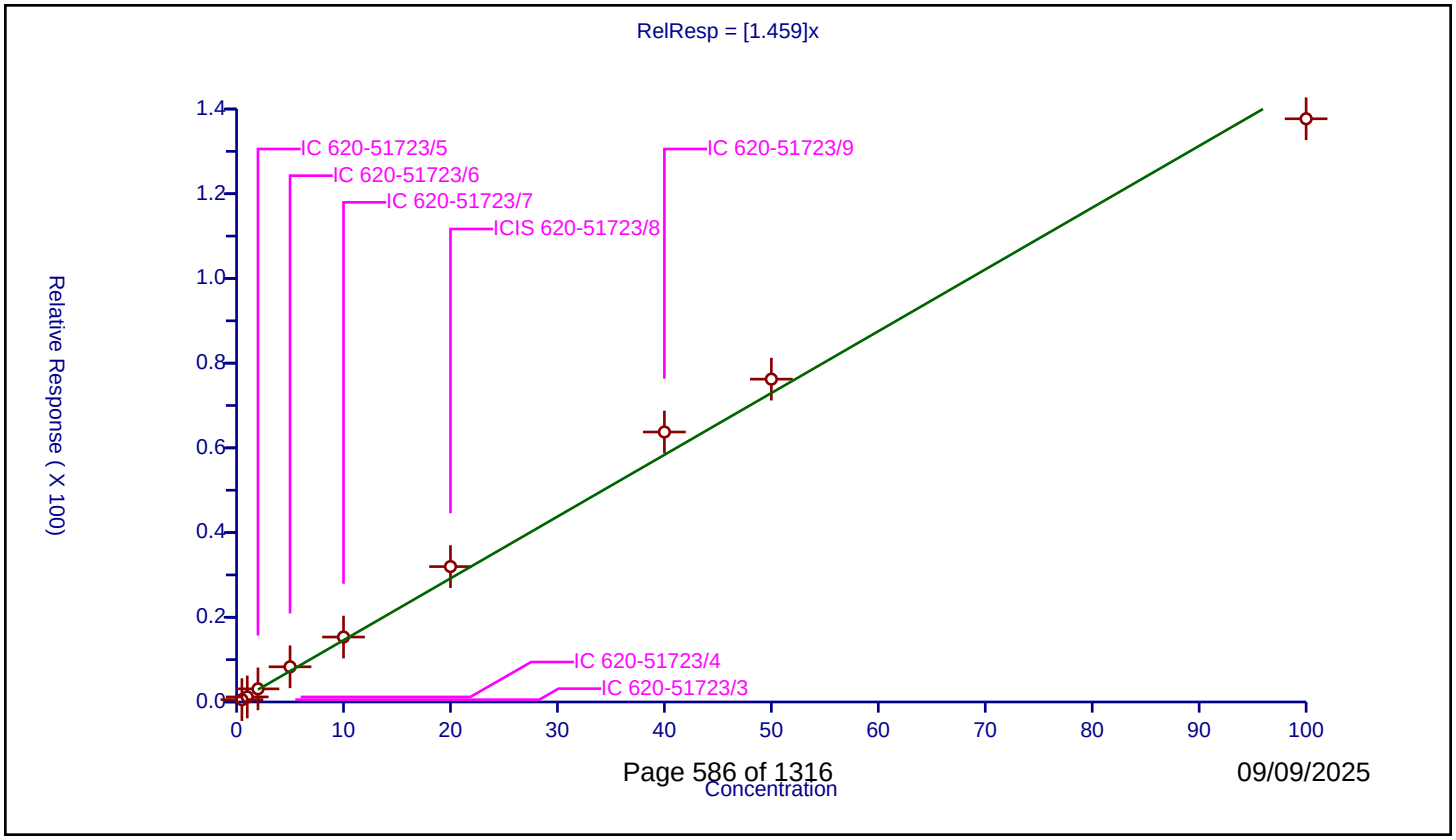
Curve Coefficients

Intercept:	0
Slope:	1.459

Error Coefficients

Relative Standard Deviation:	13.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.548256	50.0	255720.0	1.096512	Y
2	IC 620-51723/4	1.0	1.195816	50.0	251042.0	1.195816	Y
3	IC 620-51723/5	2.0	3.09615	50.0	249891.0	1.548075	Y
4	IC 620-51723/6	5.0	8.309688	50.0	253397.0	1.661938	Y
5	IC 620-51723/7	10.0	15.33583	50.0	248891.0	1.533583	Y
6	ICIS 620-51723/8	20.0	31.9698	50.0	249731.0	1.59849	Y
7	IC 620-51723/9	40.0	63.740699	50.0	262745.0	1.593517	Y
8	IC 620-51723/10	50.0	76.222464	50.0	276593.0	1.524449	Y
9	IC 620-51723/11	100.0	137.697379	50.0	312787.0	1.376974	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

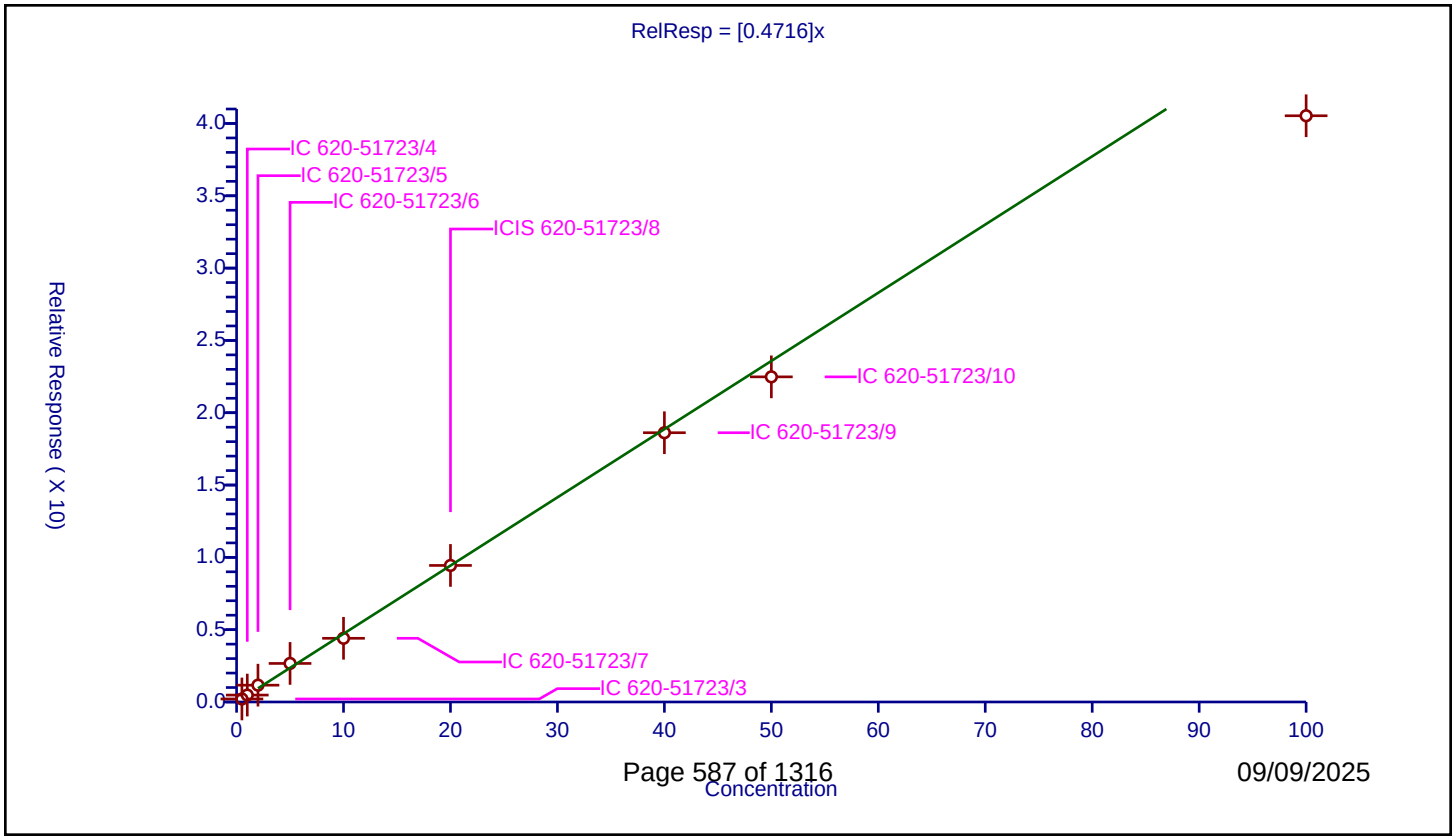
Curve Coefficients

Intercept:	0
Slope:	0.4716

Error Coefficients

Relative Standard Deviation:	11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.209213	50.0	255720.0	0.418426	Y
2	IC 620-51723/4	1.0	0.478406	50.0	251042.0	0.478406	Y
3	IC 620-51723/5	2.0	1.162907	50.0	249891.0	0.581454	Y
4	IC 620-51723/6	5.0	2.665777	50.0	253397.0	0.533155	Y
5	IC 620-51723/7	10.0	4.404338	50.0	248891.0	0.440434	Y
6	ICIS 620-51723/8	20.0	9.440558	50.0	249731.0	0.472028	Y
7	IC 620-51723/9	40.0	18.618052	50.0	262745.0	0.465451	Y
8	IC 620-51723/10	50.0	22.481408	50.0	276593.0	0.449628	Y
9	IC 620-51723/11	100.0	40.534133	50.0	312787.0	0.405341	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

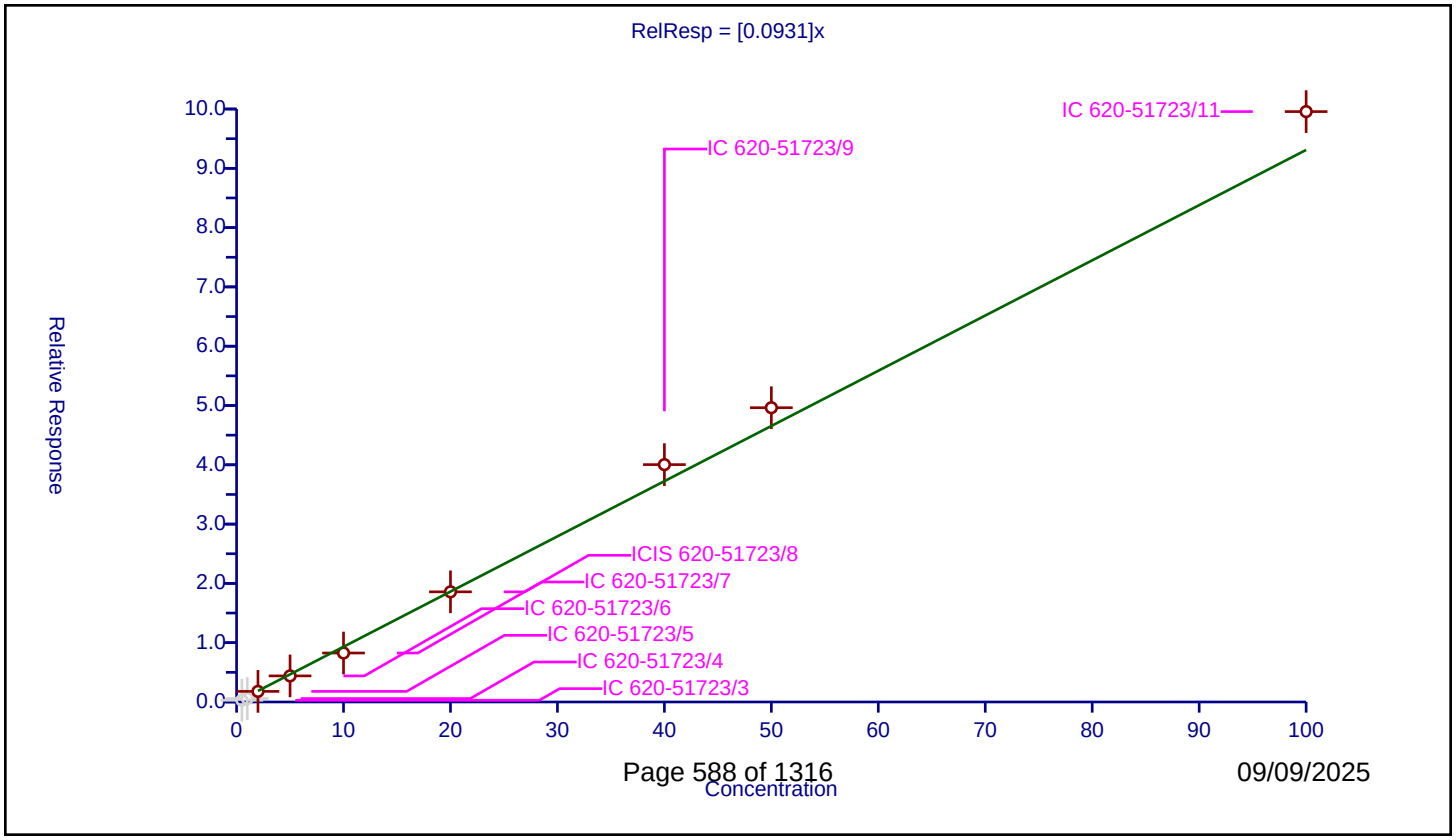
Curve Coefficients

Intercept:	0
Slope:	0.0931

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.028951	50.0	367866.0	0.057902	N
2	IC 620-51723/4	1.0	0.058256	50.0	363913.0	0.058256	N
3	IC 620-51723/5	2.0	0.178621	50.0	355782.0	0.08931	Y
4	IC 620-51723/6	5.0	0.440059	50.0	360065.0	0.088012	Y
5	IC 620-51723/7	10.0	0.82596	50.0	347414.0	0.082596	Y
6	ICIS 620-51723/8	20.0	1.857451	50.0	346631.0	0.092873	Y
7	IC 620-51723/9	40.0	4.003113	50.0	352663.0	0.100078	Y
8	IC 620-51723/10	50.0	4.96262	50.0	364767.0	0.099252	Y
9	IC 620-51723/11	100.0	9.95617	50.0	383069.0	0.099562	Y



09/09/2025

Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

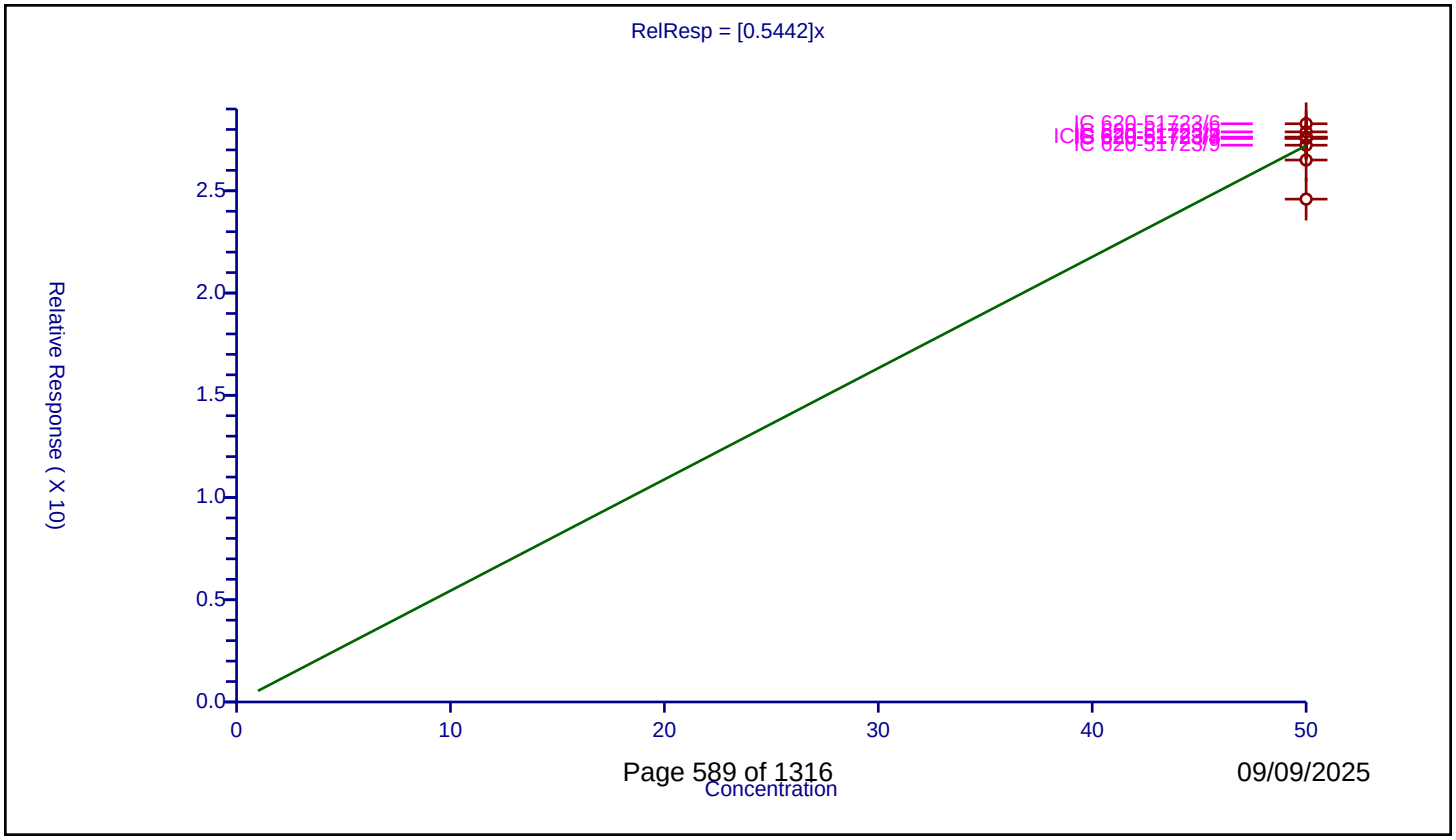
Curve Coefficients

Intercept:	0
Slope:	0.5442

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	50.0	27.619858	50.0	255720.0	0.552397	Y
2	IC 620-51723/4	50.0	27.55993	50.0	251042.0	0.551199	Y
3	IC 620-51723/5	50.0	27.882357	50.0	249891.0	0.557647	Y
4	IC 620-51723/6	50.0	28.278946	50.0	253397.0	0.565579	Y
5	IC 620-51723/7	50.0	27.590994	50.0	248891.0	0.55182	Y
6	ICIS 620-51723/8	50.0	27.622121	50.0	249731.0	0.552442	Y
7	IC 620-51723/9	50.0	27.229633	50.0	262745.0	0.544593	Y
8	IC 620-51723/10	50.0	26.505371	50.0	276593.0	0.530107	Y
9	IC 620-51723/11	50.0	24.593733	50.0	312787.0	0.491875	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

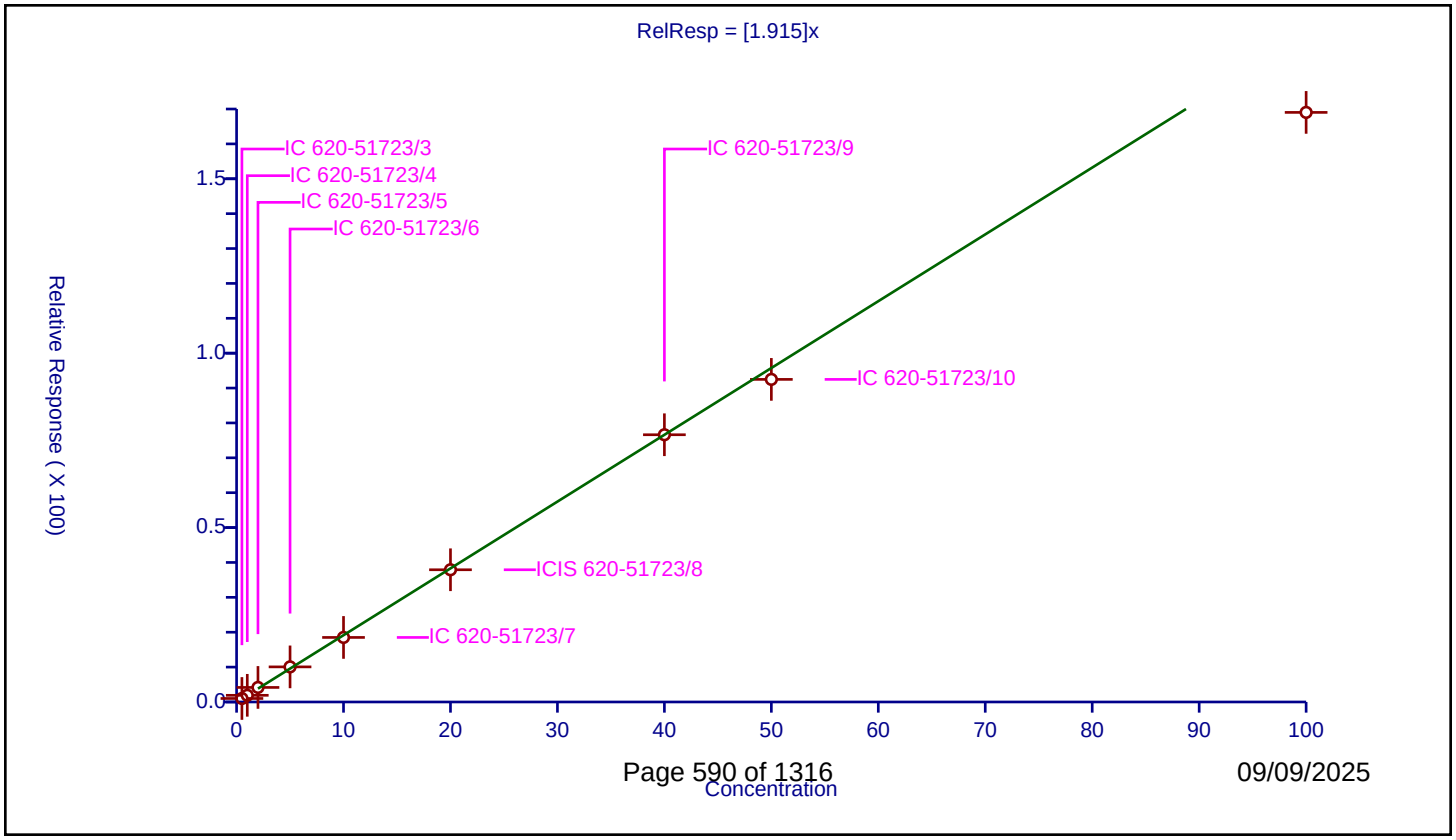
Curve Coefficients

Intercept:	0
Slope:	1.915

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	1.00872	50.0	255720.0	2.017441	Y
2	IC 620-51723/4	1.0	1.917807	50.0	251042.0	1.917807	Y
3	IC 620-51723/5	2.0	4.17362	50.0	249891.0	2.08681	Y
4	IC 620-51723/6	5.0	10.062668	50.0	253397.0	2.012534	Y
5	IC 620-51723/7	10.0	18.501272	50.0	248891.0	1.850127	Y
6	ICIS 620-51723/8	20.0	37.908389	50.0	249731.0	1.895419	Y
7	IC 620-51723/9	40.0	76.617252	50.0	262745.0	1.915431	Y
8	IC 620-51723/10	50.0	92.483179	50.0	276593.0	1.849664	Y
9	IC 620-51723/11	100.0	169.031162	50.0	312787.0	1.690312	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

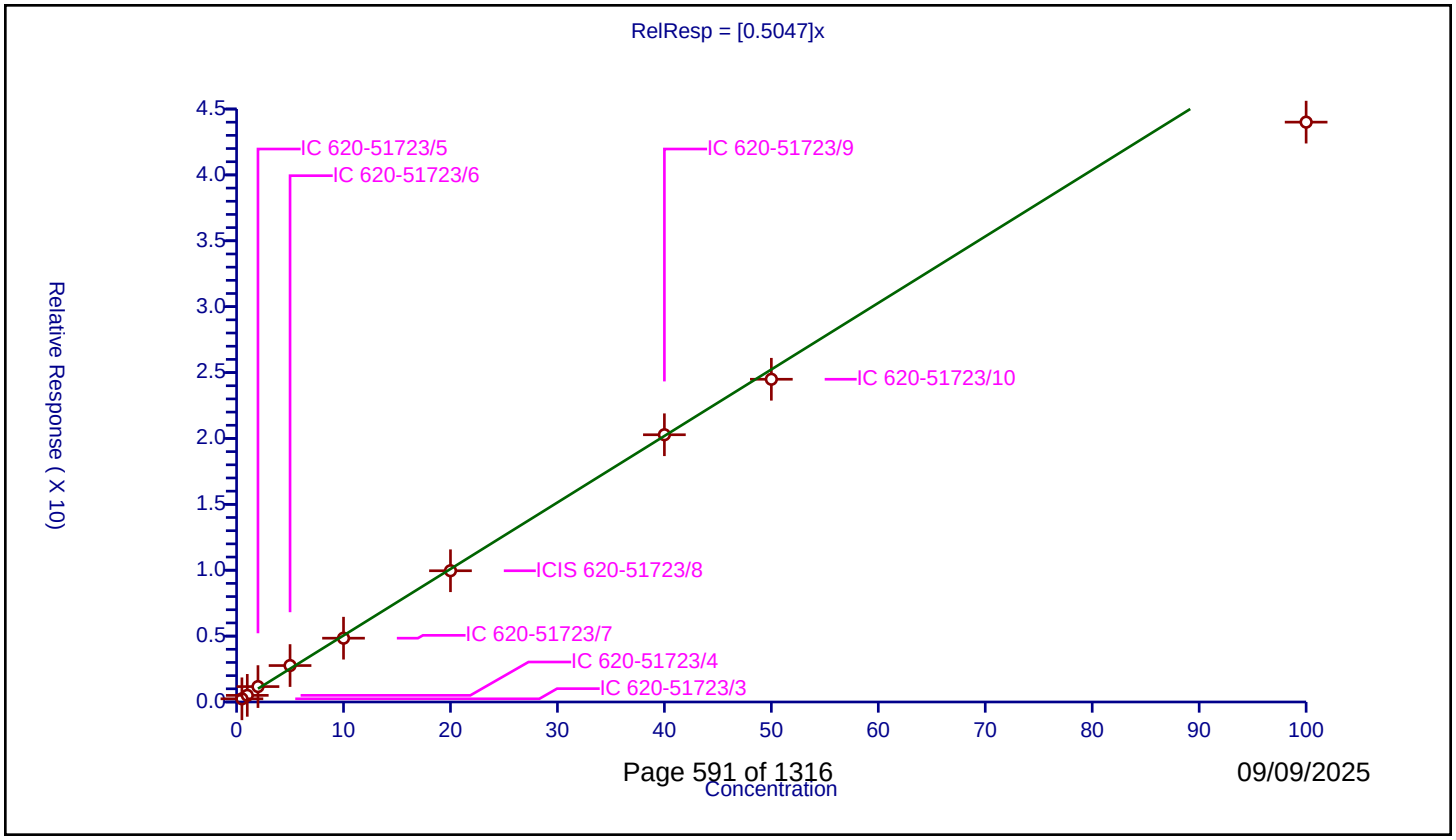
Curve Coefficients

Intercept:	0
Slope:	0.5047

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.241671	50.0	255720.0	0.483341	Y
2	IC 620-51723/4	1.0	0.502506	50.0	251042.0	0.502506	Y
3	IC 620-51723/5	2.0	1.168309	50.0	249891.0	0.584155	Y
4	IC 620-51723/6	5.0	2.765818	50.0	253397.0	0.553164	Y
5	IC 620-51723/7	10.0	4.840874	50.0	248891.0	0.484087	Y
6	ICIS 620-51723/8	20.0	9.960317	50.0	249731.0	0.498016	Y
7	IC 620-51723/9	40.0	20.280881	50.0	262745.0	0.507022	Y
8	IC 620-51723/10	50.0	24.490858	50.0	276593.0	0.489817	Y
9	IC 620-51723/11	100.0	44.004227	50.0	312787.0	0.440042	Y



Calibration / N-Propylbenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

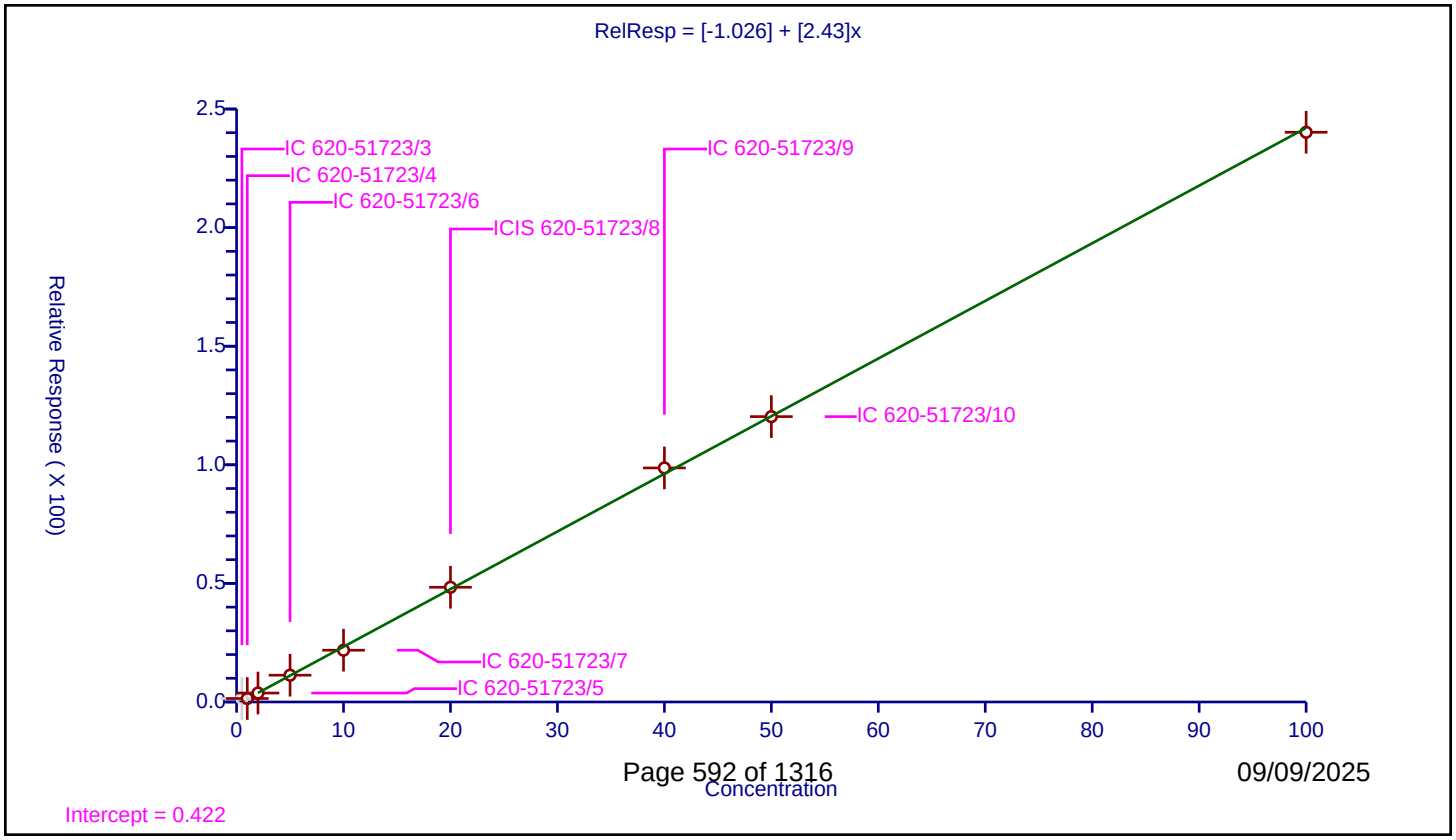
Curve Coefficients

Intercept:	-1.026
Slope:	2.43

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	1.471922	50.0	255720.0	2.943845	N
2	IC 620-51723/4	1.0	1.469674	50.0	251042.0	1.469674	Y
3	IC 620-51723/5	2.0	3.769243	50.0	249891.0	1.884622	Y
4	IC 620-51723/6	5.0	11.291965	50.0	253397.0	2.258393	Y
5	IC 620-51723/7	10.0	21.825418	50.0	248891.0	2.182542	Y
6	ICIS 620-51723/8	20.0	48.366843	50.0	249731.0	2.418342	Y
7	IC 620-51723/9	40.0	98.679518	50.0	262745.0	2.466988	Y
8	IC 620-51723/10	50.0	120.310167	50.0	276593.0	2.406203	Y
9	IC 620-51723/11	100.0	240.192367	50.0	312787.0	2.401924	Y



09/09/2025

Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

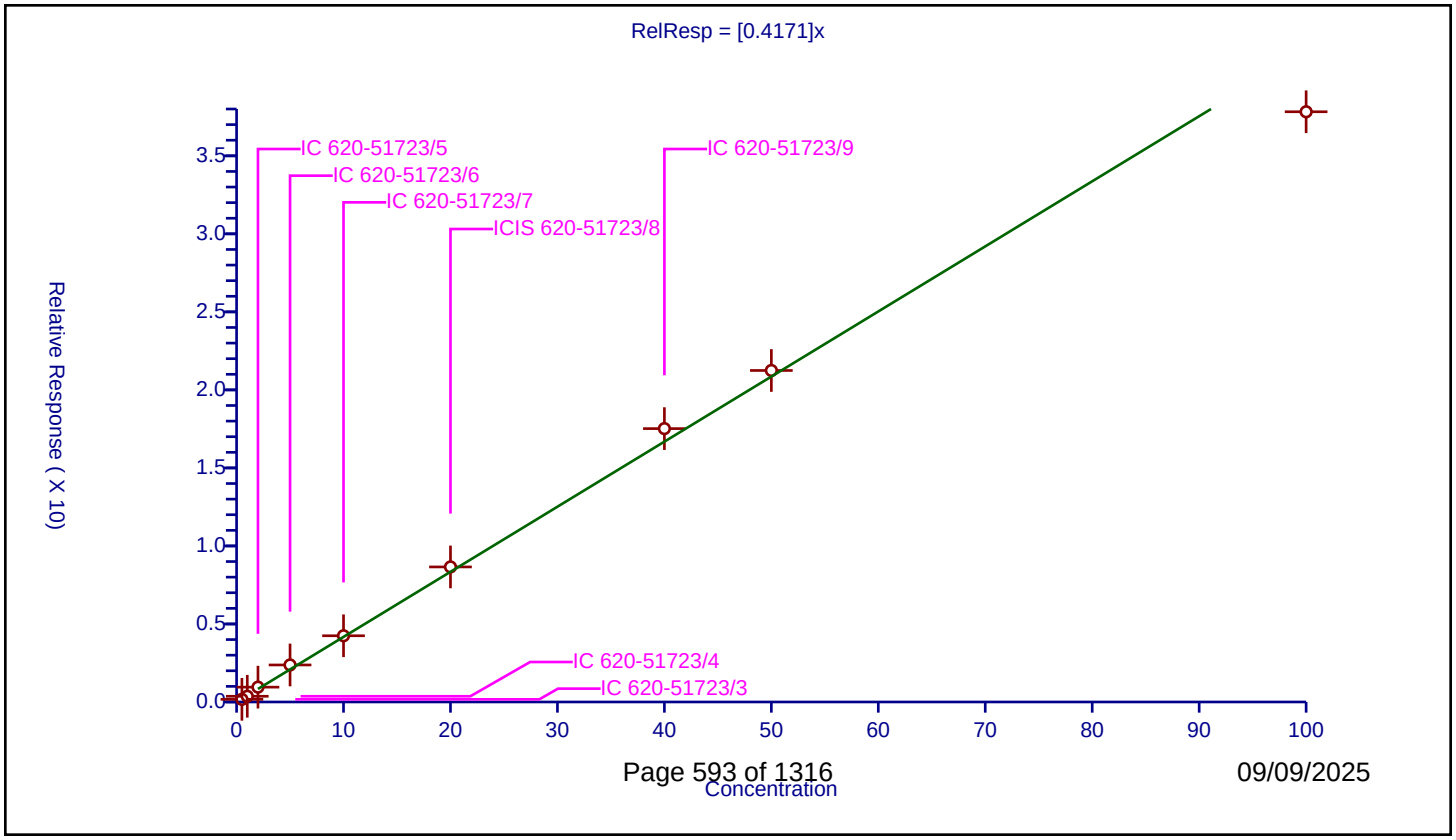
Curve Coefficients

Intercept:	0
Slope:	0.4171

Error Coefficients

Relative Standard Deviation:	11.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.169912	50.0	255720.0	0.339825	Y
2	IC 620-51723/4	1.0	0.365875	50.0	251042.0	0.365875	Y
3	IC 620-51723/5	2.0	0.951015	50.0	249891.0	0.475507	Y
4	IC 620-51723/6	5.0	2.37197	50.0	253397.0	0.474394	Y
5	IC 620-51723/7	10.0	4.243826	50.0	248891.0	0.424383	Y
6	ICIS 620-51723/8	20.0	8.654512	50.0	249731.0	0.432726	Y
7	IC 620-51723/9	40.0	17.519268	50.0	262745.0	0.437982	Y
8	IC 620-51723/10	50.0	21.244211	50.0	276593.0	0.424884	Y
9	IC 620-51723/11	100.0	37.823183	50.0	312787.0	0.378232	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

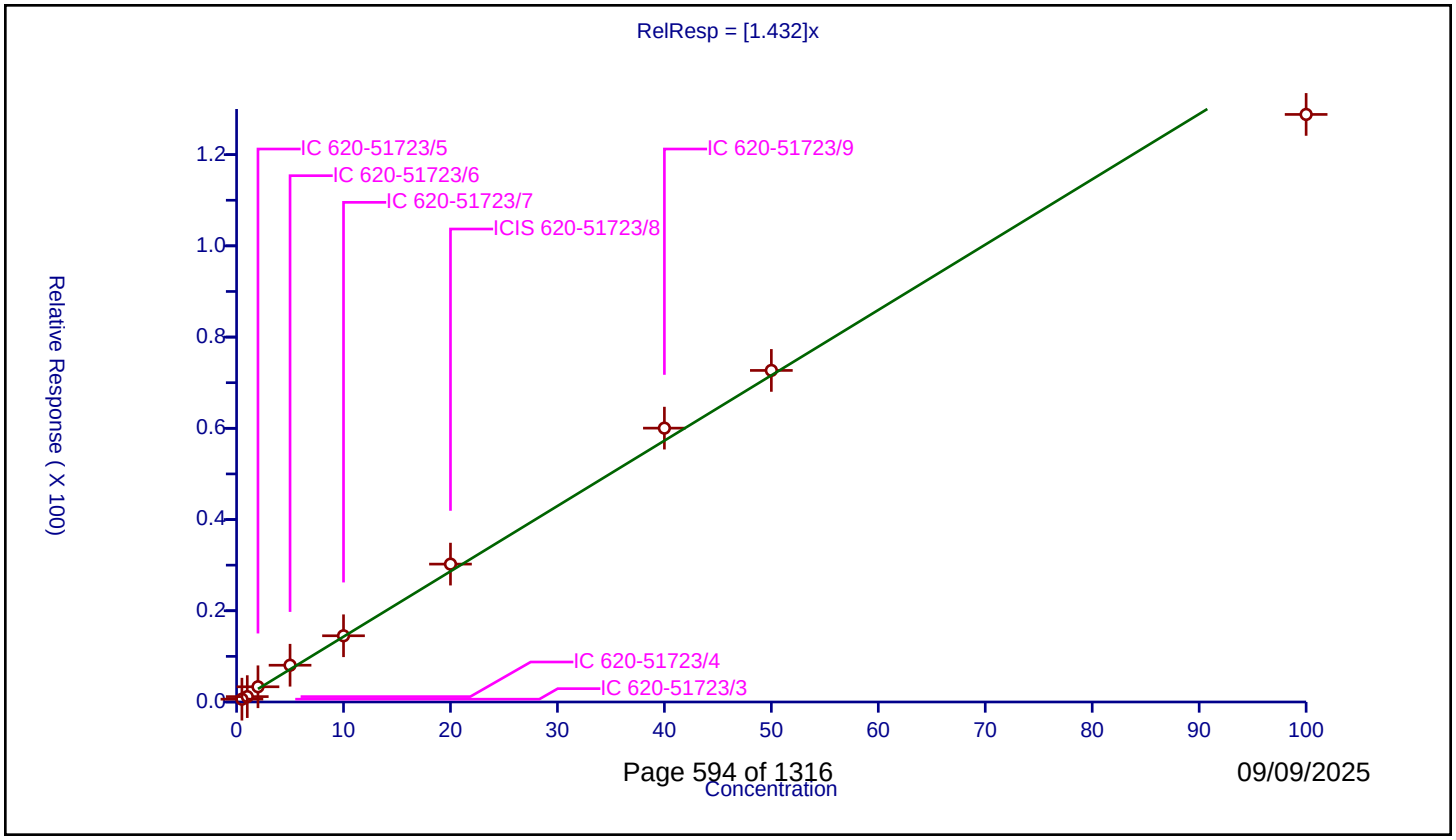
Curve Coefficients

Intercept:	0
Slope:	1.432

Error Coefficients

Relative Standard Deviation:	11.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.61493	50.0	255720.0	1.229861	Y
2	IC 620-51723/4	1.0	1.176895	50.0	251042.0	1.176895	Y
3	IC 620-51723/5	2.0	3.332453	50.0	249891.0	1.666226	Y
4	IC 620-51723/6	5.0	8.058304	50.0	253397.0	1.611661	Y
5	IC 620-51723/7	10.0	14.516194	50.0	248891.0	1.451619	Y
6	ICIS 620-51723/8	20.0	30.227525	50.0	249731.0	1.511376	Y
7	IC 620-51723/9	40.0	60.037489	50.0	262745.0	1.500937	Y
8	IC 620-51723/10	50.0	72.690921	50.0	276593.0	1.453818	Y
9	IC 620-51723/11	100.0	128.814177	50.0	312787.0	1.288142	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

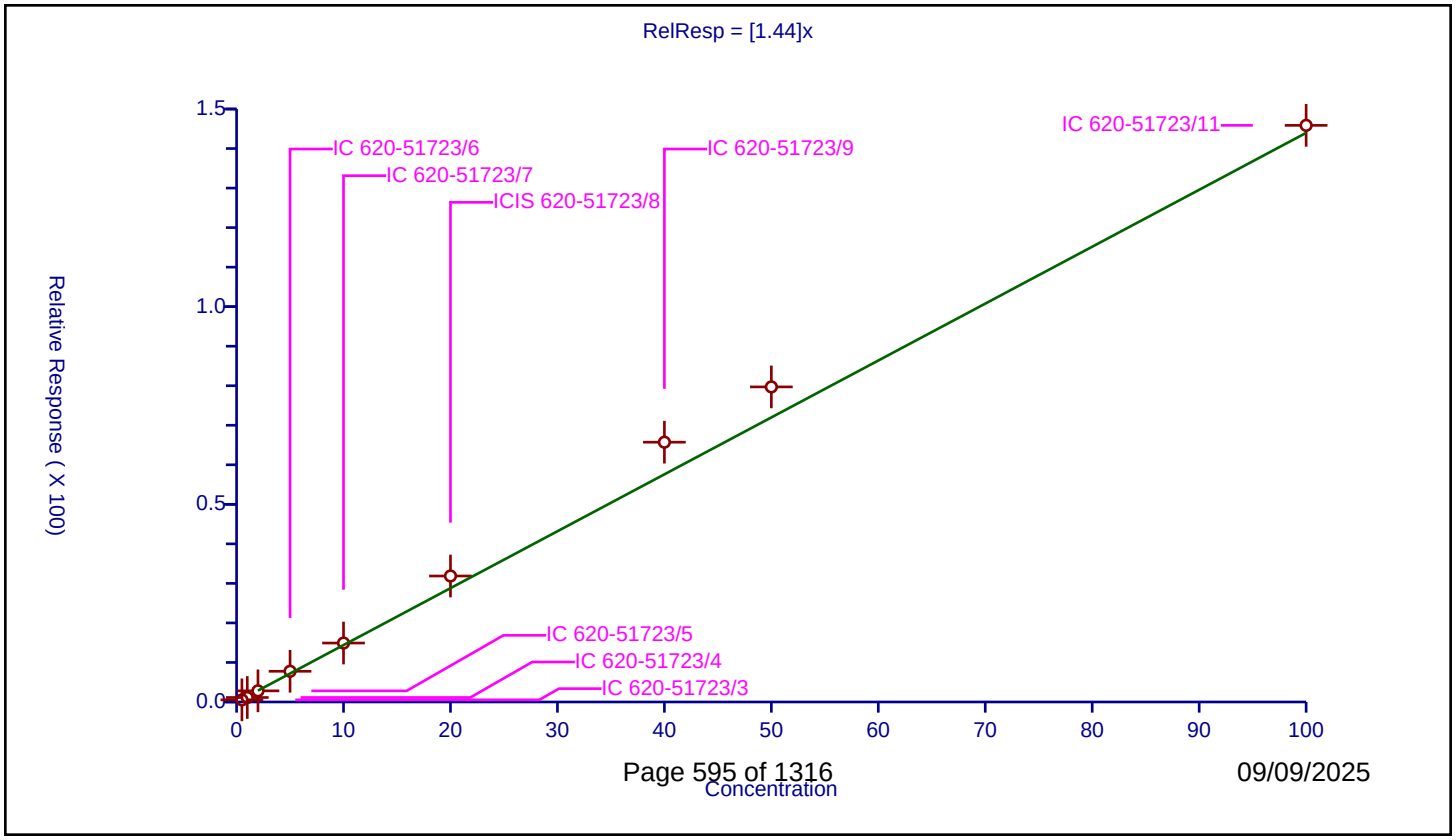
Curve Coefficients

Intercept:	0
Slope:	1.44

Error Coefficients

Relative Standard Deviation:	14.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.540044	50.0	255720.0	1.080088	Y
2	IC 620-51723/4	1.0	1.13487	50.0	251042.0	1.13487	Y
3	IC 620-51723/5	2.0	2.815428	50.0	249891.0	1.407714	Y
4	IC 620-51723/6	5.0	7.767061	50.0	253397.0	1.553412	Y
5	IC 620-51723/7	10.0	14.90994	50.0	248891.0	1.490994	Y
6	ICIS 620-51723/8	20.0	31.872094	50.0	249731.0	1.593605	Y
7	IC 620-51723/9	40.0	65.719804	50.0	262745.0	1.642995	Y
8	IC 620-51723/10	50.0	79.701583	50.0	276593.0	1.594032	Y
9	IC 620-51723/11	100.0	145.866676	50.0	312787.0	1.458667	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

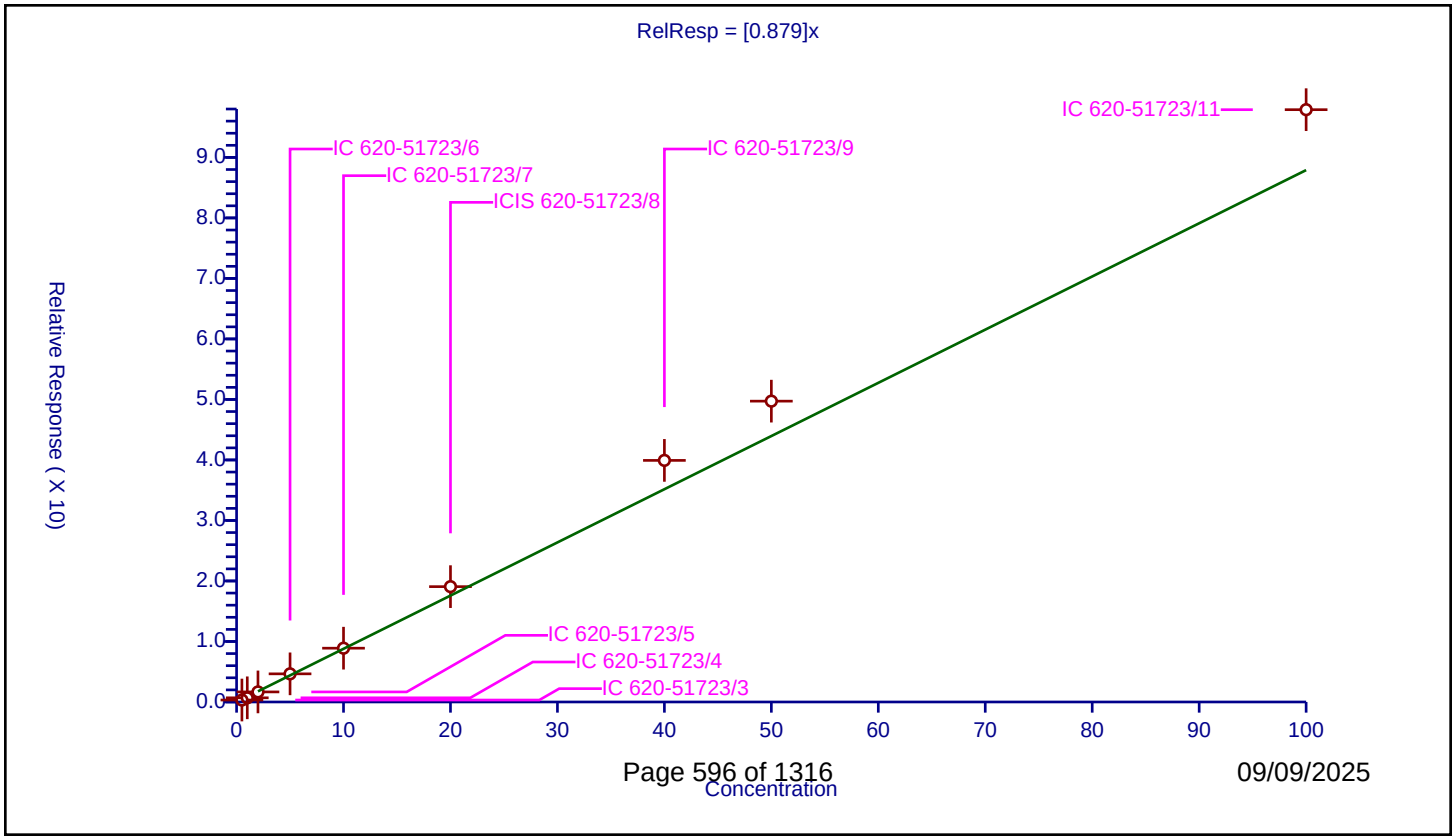
Curve Coefficients

Intercept:	0
Slope:	0.879

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.323351	50.0	367866.0	0.646703	Y
2	IC 620-51723/4	1.0	0.688351	50.0	363913.0	0.688351	Y
3	IC 620-51723/5	2.0	1.664924	50.0	355782.0	0.832462	Y
4	IC 620-51723/6	5.0	4.650271	50.0	360065.0	0.930054	Y
5	IC 620-51723/7	10.0	8.891409	50.0	347414.0	0.889141	Y
6	ICIS 620-51723/8	20.0	19.063356	50.0	346631.0	0.953168	Y
7	IC 620-51723/9	40.0	39.928629	50.0	352663.0	0.998216	Y
8	IC 620-51723/10	50.0	49.720232	50.0	364767.0	0.994405	Y
9	IC 620-51723/11	100.0	97.891503	50.0	383069.0	0.978915	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

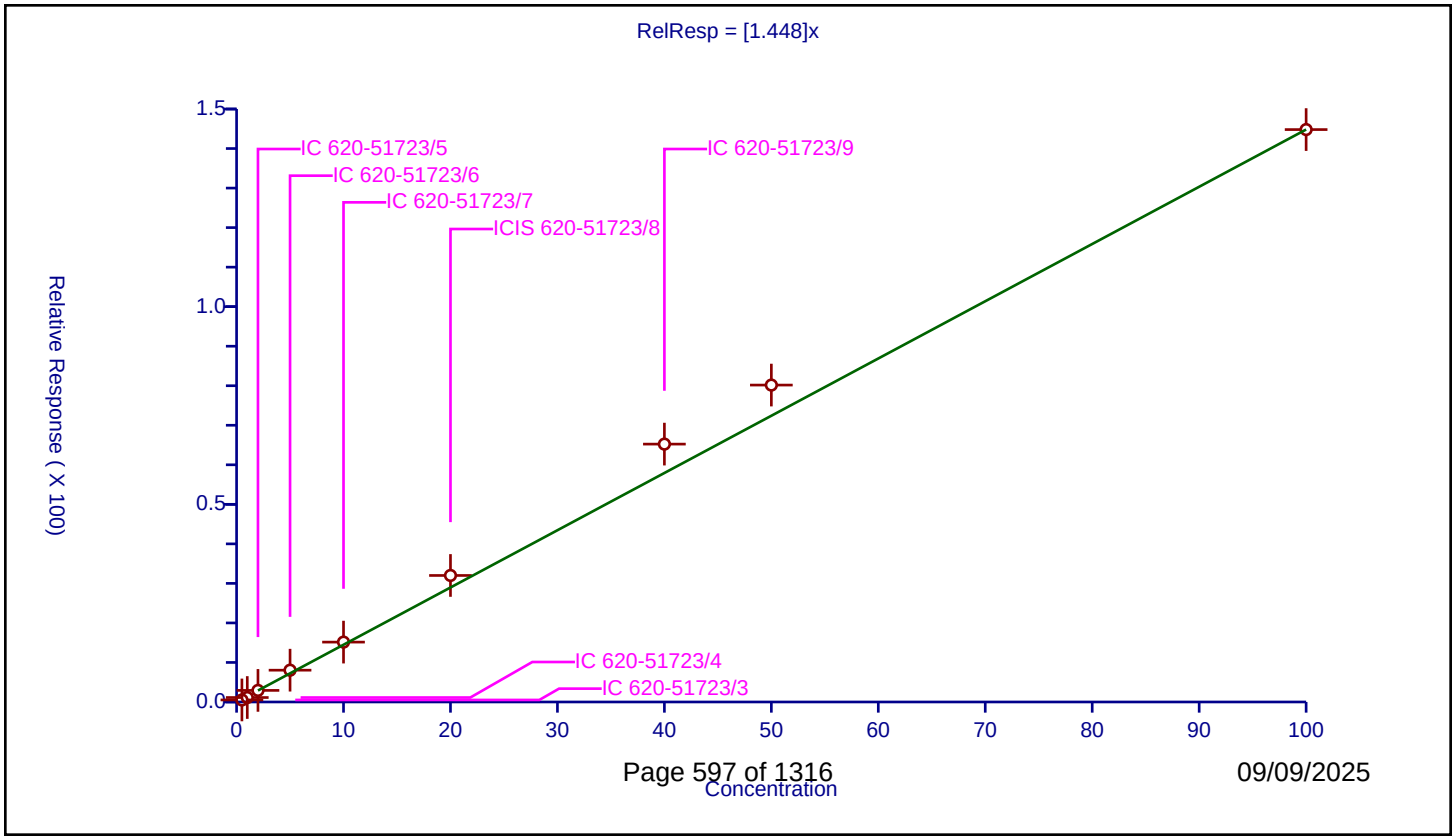
Curve Coefficients

Intercept:	0
Slope:	1.448

Error Coefficients

Relative Standard Deviation:	15.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.517167	50.0	255720.0	1.034334	Y
2	IC 620-51723/4	1.0	1.127301	50.0	251042.0	1.127301	Y
3	IC 620-51723/5	2.0	2.930678	50.0	249891.0	1.465339	Y
4	IC 620-51723/6	5.0	8.042913	50.0	253397.0	1.608583	Y
5	IC 620-51723/7	10.0	15.150407	50.0	248891.0	1.515041	Y
6	ICIS 620-51723/8	20.0	32.00784	50.0	249731.0	1.600392	Y
7	IC 620-51723/9	40.0	65.234543	50.0	262745.0	1.630864	Y
8	IC 620-51723/10	50.0	80.167249	50.0	276593.0	1.603345	Y
9	IC 620-51723/11	100.0	144.802214	50.0	312787.0	1.448022	Y



09/09/2025

Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

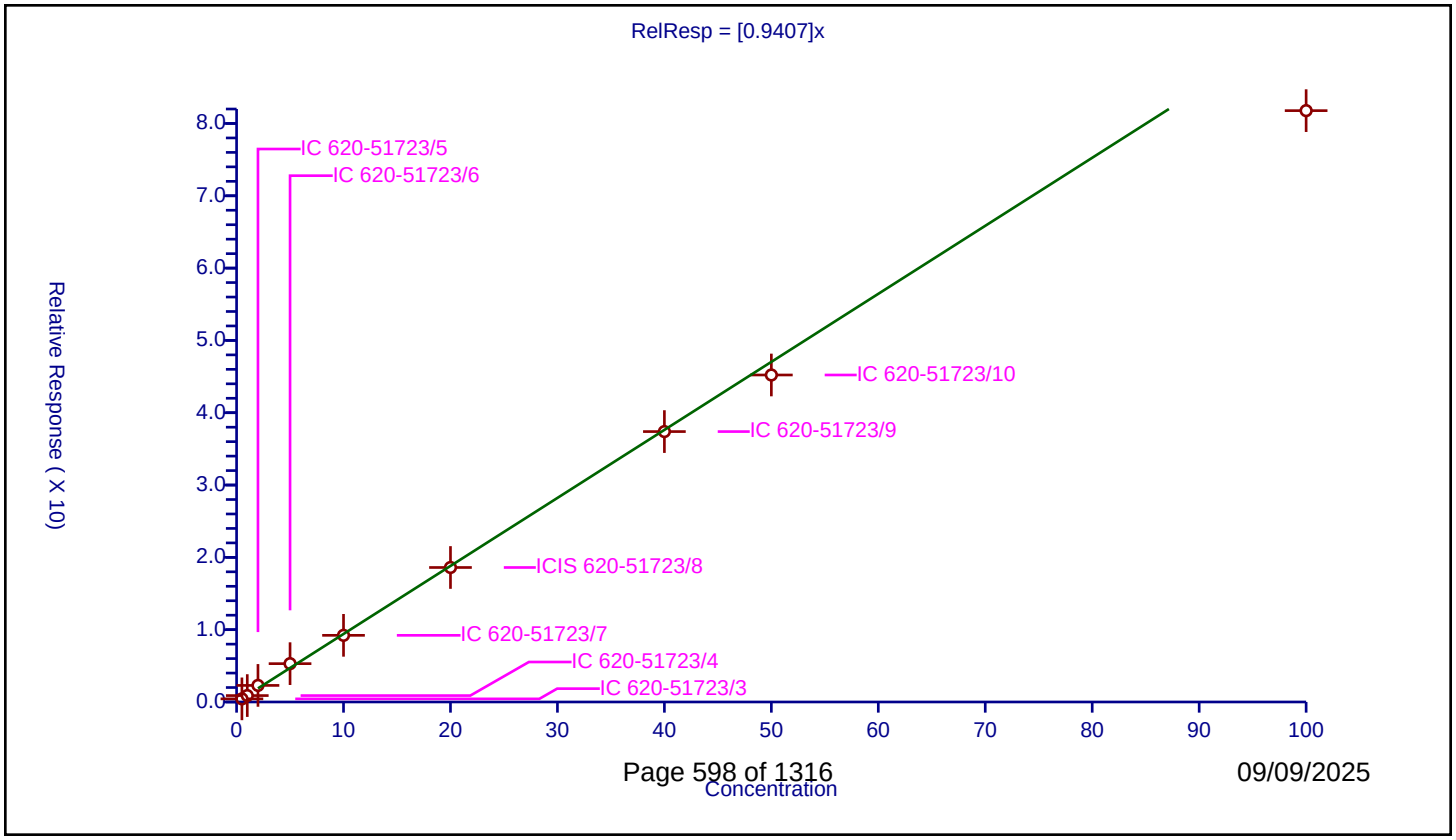
Curve Coefficients

Intercept:	0
Slope:	0.9407

Error Coefficients

Relative Standard Deviation:	10.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.432504	50.0	255720.0	0.865009	Y
2	IC 620-51723/4	1.0	0.886306	50.0	251042.0	0.886306	Y
3	IC 620-51723/5	2.0	2.291799	50.0	249891.0	1.1459	Y
4	IC 620-51723/6	5.0	5.30097	50.0	253397.0	1.060194	Y
5	IC 620-51723/7	10.0	9.218091	50.0	248891.0	0.921809	Y
6	ICIS 620-51723/8	20.0	18.598412	50.0	249731.0	0.929921	Y
7	IC 620-51723/9	40.0	37.393671	50.0	262745.0	0.934842	Y
8	IC 620-51723/10	50.0	45.218426	50.0	276593.0	0.904369	Y
9	IC 620-51723/11	100.0	81.776097	50.0	312787.0	0.817761	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

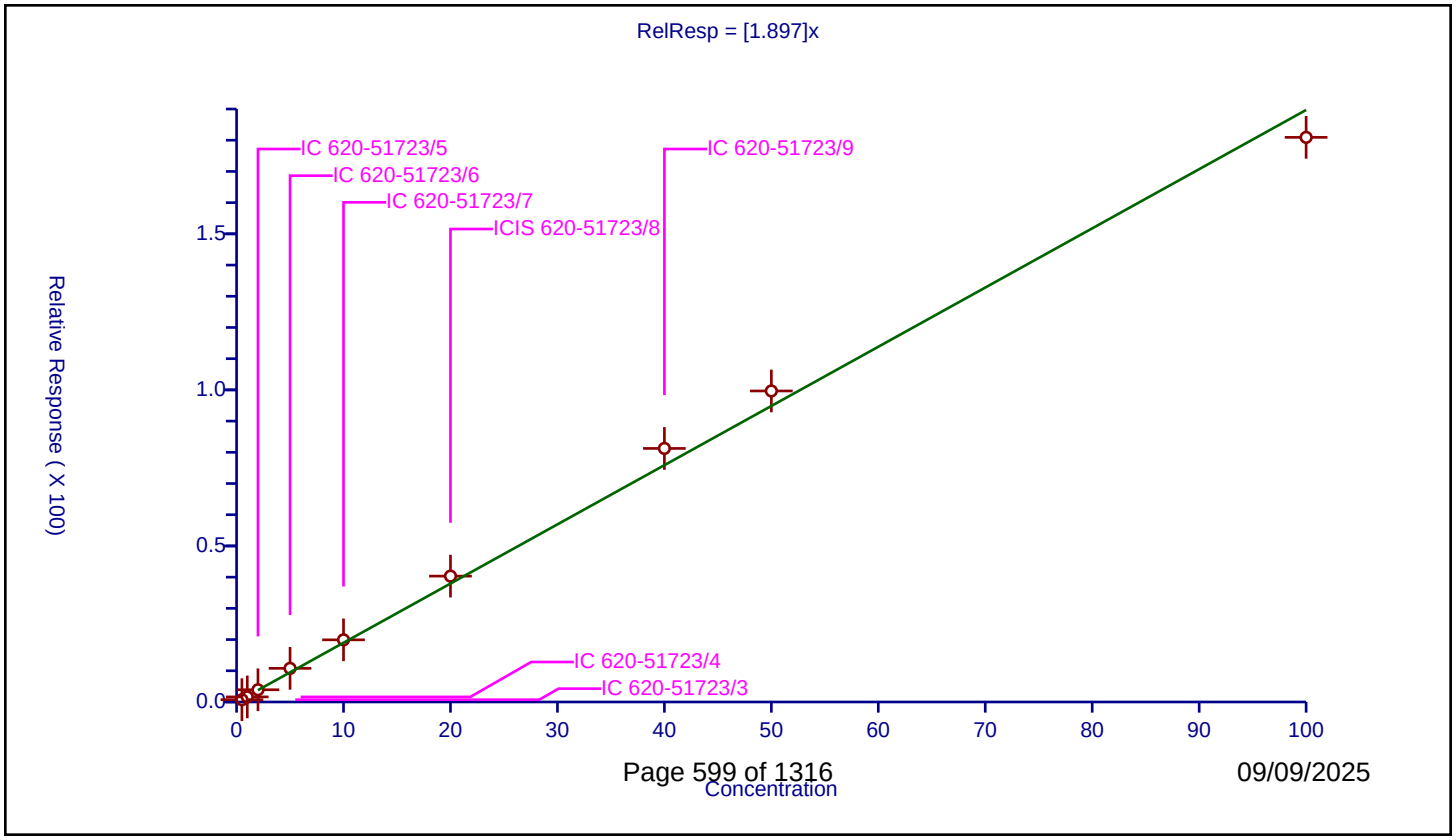
Curve Coefficients

Intercept:	0
Slope:	1.897

Error Coefficients

Relative Standard Deviation:	11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.743196	50.0	255720.0	1.486391	Y
2	IC 620-51723/4	1.0	1.628811	50.0	251042.0	1.628811	Y
3	IC 620-51723/5	2.0	3.918508	50.0	249891.0	1.959254	Y
4	IC 620-51723/6	5.0	10.779725	50.0	253397.0	2.155945	Y
5	IC 620-51723/7	10.0	19.914742	50.0	248891.0	1.991474	Y
6	ICIS 620-51723/8	20.0	40.336202	50.0	249731.0	2.01681	Y
7	IC 620-51723/9	40.0	81.246836	50.0	262745.0	2.031171	Y
8	IC 620-51723/10	50.0	99.659247	50.0	276593.0	1.993185	Y
9	IC 620-51723/11	100.0	180.916087	50.0	312787.0	1.809161	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

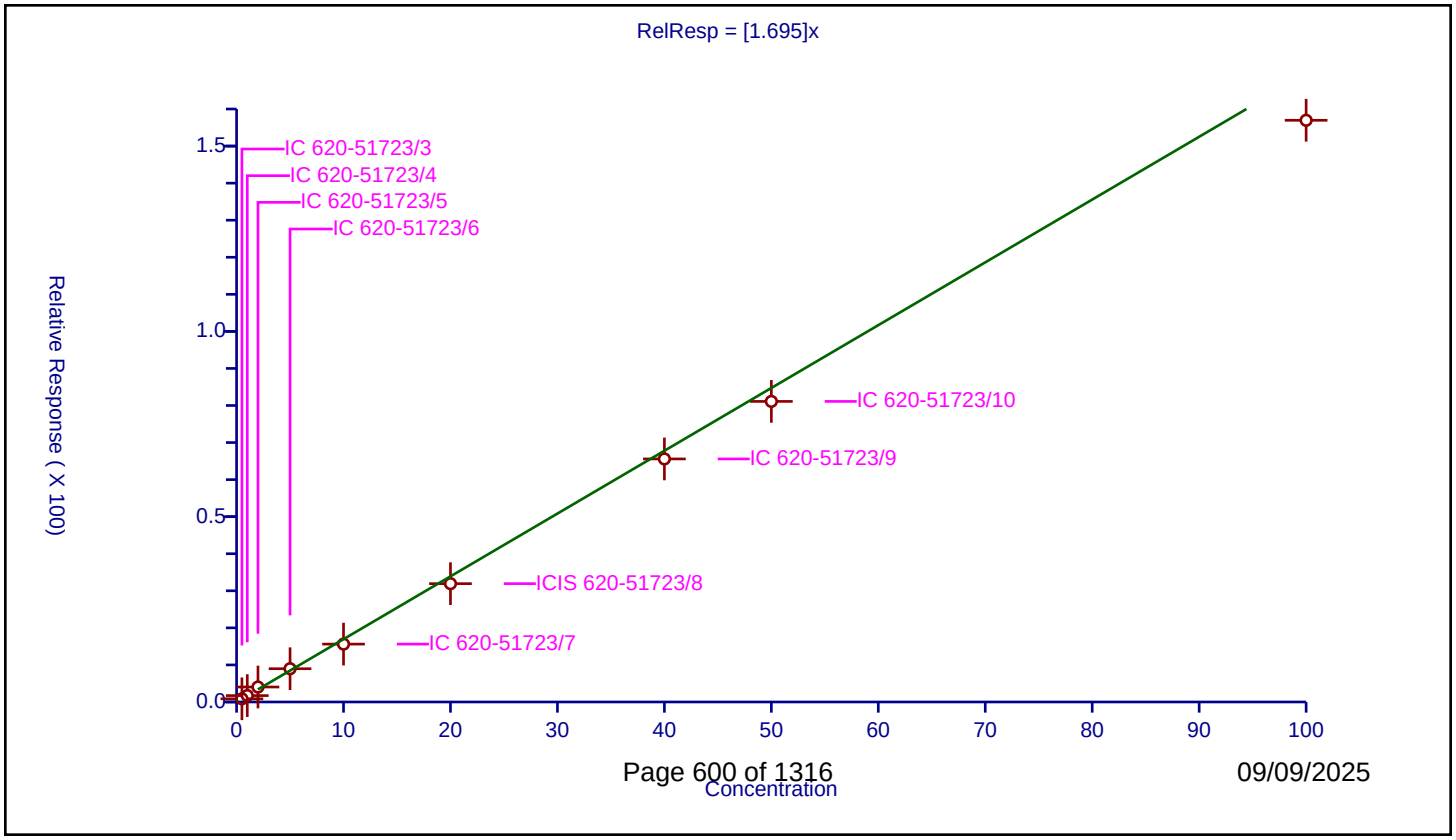
Curve Coefficients

Intercept:	0
Slope:	1.695

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.860138	50.0	153580.0	1.720276	Y
2	IC 620-51723/4	1.0	1.726664	50.0	152230.0	1.726664	Y
3	IC 620-51723/5	2.0	4.037331	50.0	150223.0	2.018666	Y
4	IC 620-51723/6	5.0	8.978249	50.0	154245.0	1.79565	Y
5	IC 620-51723/7	10.0	15.617331	50.0	148729.0	1.561733	Y
6	ICIS 620-51723/8	20.0	31.932793	50.0	147217.0	1.59664	Y
7	IC 620-51723/9	40.0	65.578689	50.0	148655.0	1.639467	Y
8	IC 620-51723/10	50.0	81.105956	50.0	152818.0	1.622119	Y
9	IC 620-51723/11	100.0	156.956981	50.0	160091.0	1.56957	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

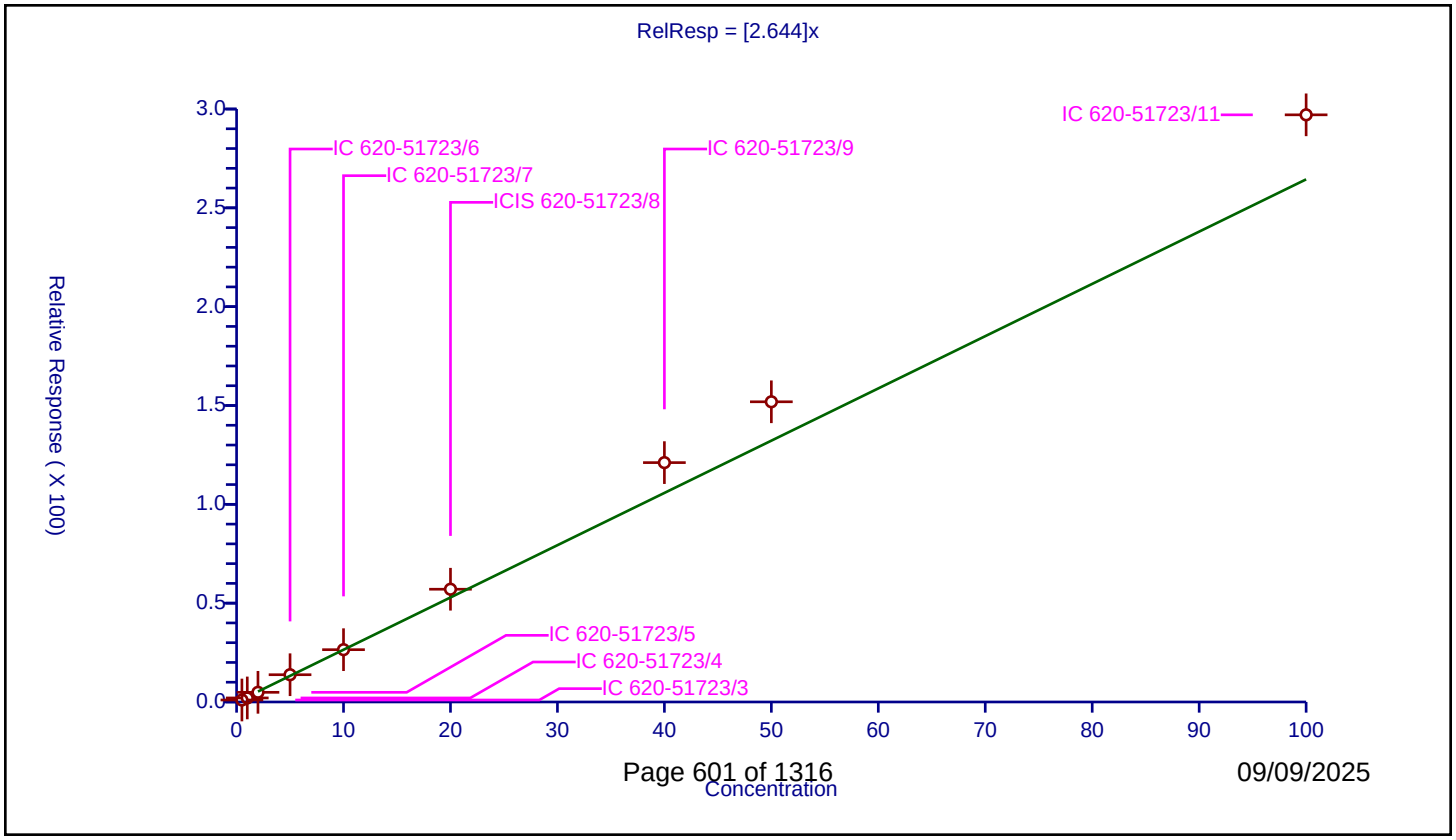
Curve Coefficients

Intercept:	0
Slope:	2.644

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	1.005339	50.0	153580.0	2.010678	Y
2	IC 620-51723/4	1.0	2.044932	50.0	152230.0	2.044932	Y
3	IC 620-51723/5	2.0	4.89439	50.0	150223.0	2.447195	Y
4	IC 620-51723/6	5.0	13.792668	50.0	154245.0	2.758534	Y
5	IC 620-51723/7	10.0	26.468947	50.0	148729.0	2.646895	Y
6	ICIS 620-51723/8	20.0	57.044363	50.0	147217.0	2.852218	Y
7	IC 620-51723/9	40.0	121.108944	50.0	148655.0	3.027724	Y
8	IC 620-51723/10	50.0	151.880014	50.0	152818.0	3.0376	Y
9	IC 620-51723/11	100.0	297.059173	50.0	160091.0	2.970592	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

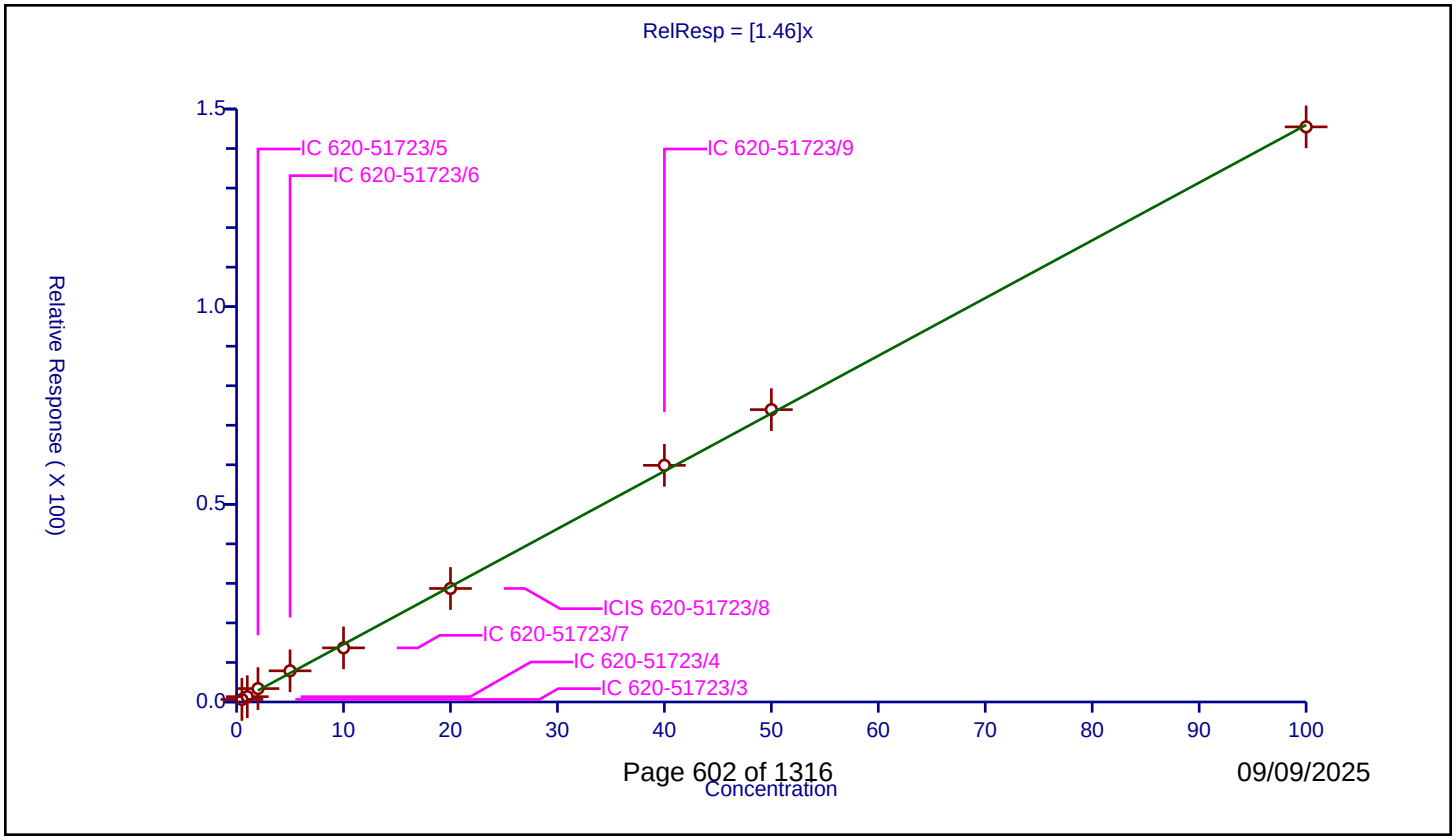
Curve Coefficients

Intercept:	0
Slope:	1.46

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.643638	50.0	153580.0	1.287277	Y
2	IC 620-51723/4	1.0	1.342705	50.0	152230.0	1.342705	Y
3	IC 620-51723/5	2.0	3.390293	50.0	150223.0	1.695147	Y
4	IC 620-51723/6	5.0	7.882589	50.0	154245.0	1.576518	Y
5	IC 620-51723/7	10.0	13.68731	50.0	148729.0	1.368731	Y
6	ICIS 620-51723/8	20.0	28.716113	50.0	147217.0	1.435806	Y
7	IC 620-51723/9	40.0	59.862769	50.0	148655.0	1.496569	Y
8	IC 620-51723/10	50.0	73.958238	50.0	152818.0	1.479165	Y
9	IC 620-51723/11	100.0	145.481945	50.0	160091.0	1.454819	Y



09/09/2025

Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

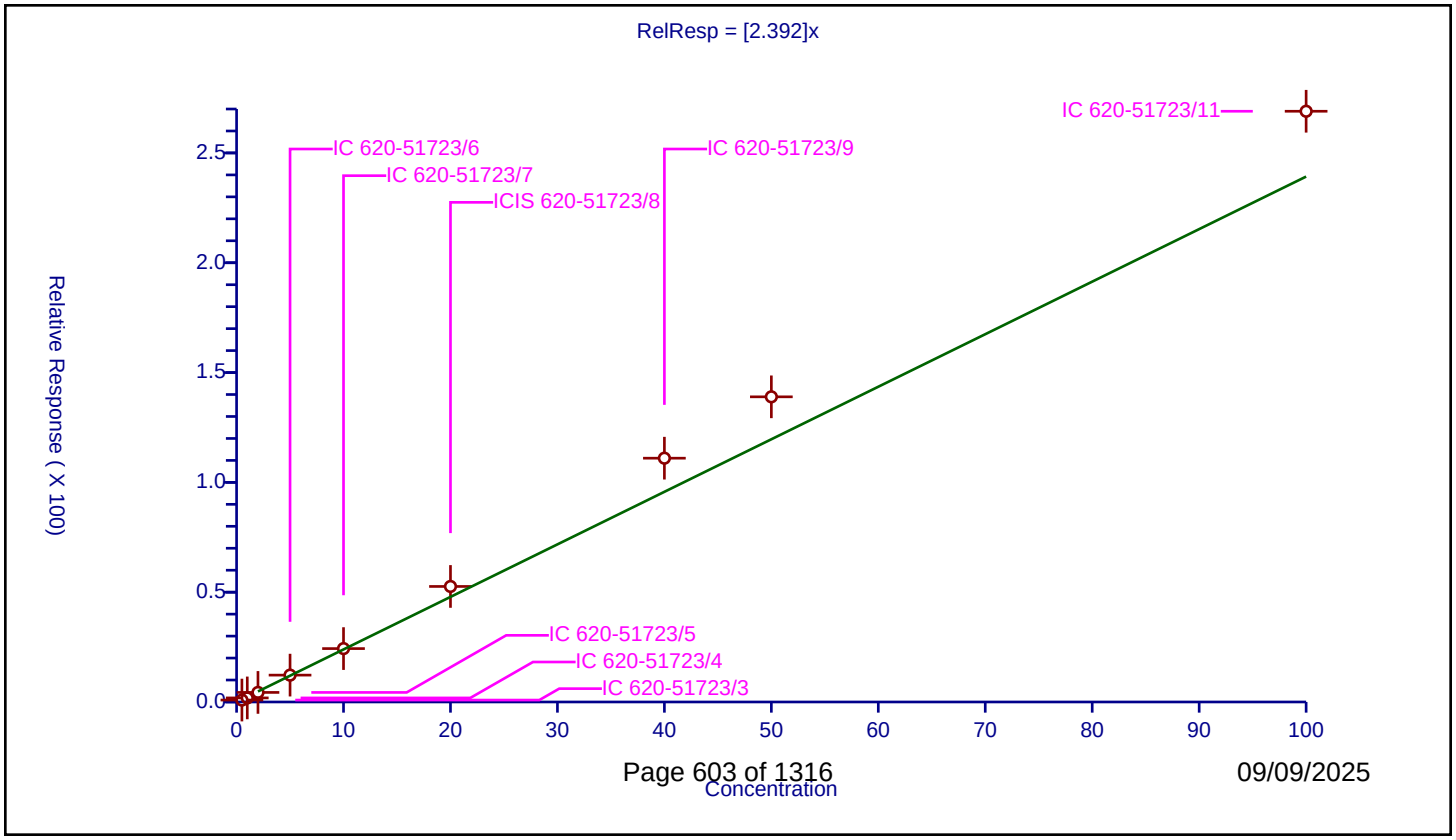
Curve Coefficients

Intercept:	0
Slope:	2.392

Error Coefficients

Relative Standard Deviation:	16.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.87544	50.0	153580.0	1.750879	Y
2	IC 620-51723/4	1.0	1.851475	50.0	152230.0	1.851475	Y
3	IC 620-51723/5	2.0	4.354526	50.0	150223.0	2.177263	Y
4	IC 620-51723/6	5.0	12.231191	50.0	154245.0	2.446238	Y
5	IC 620-51723/7	10.0	24.308978	50.0	148729.0	2.430898	Y
6	ICIS 620-51723/8	20.0	52.600583	50.0	147217.0	2.630029	Y
7	IC 620-51723/9	40.0	111.009048	50.0	148655.0	2.775226	Y
8	IC 620-51723/10	50.0	138.952872	50.0	152818.0	2.779057	Y
9	IC 620-51723/11	100.0	268.985764	50.0	160091.0	2.689858	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

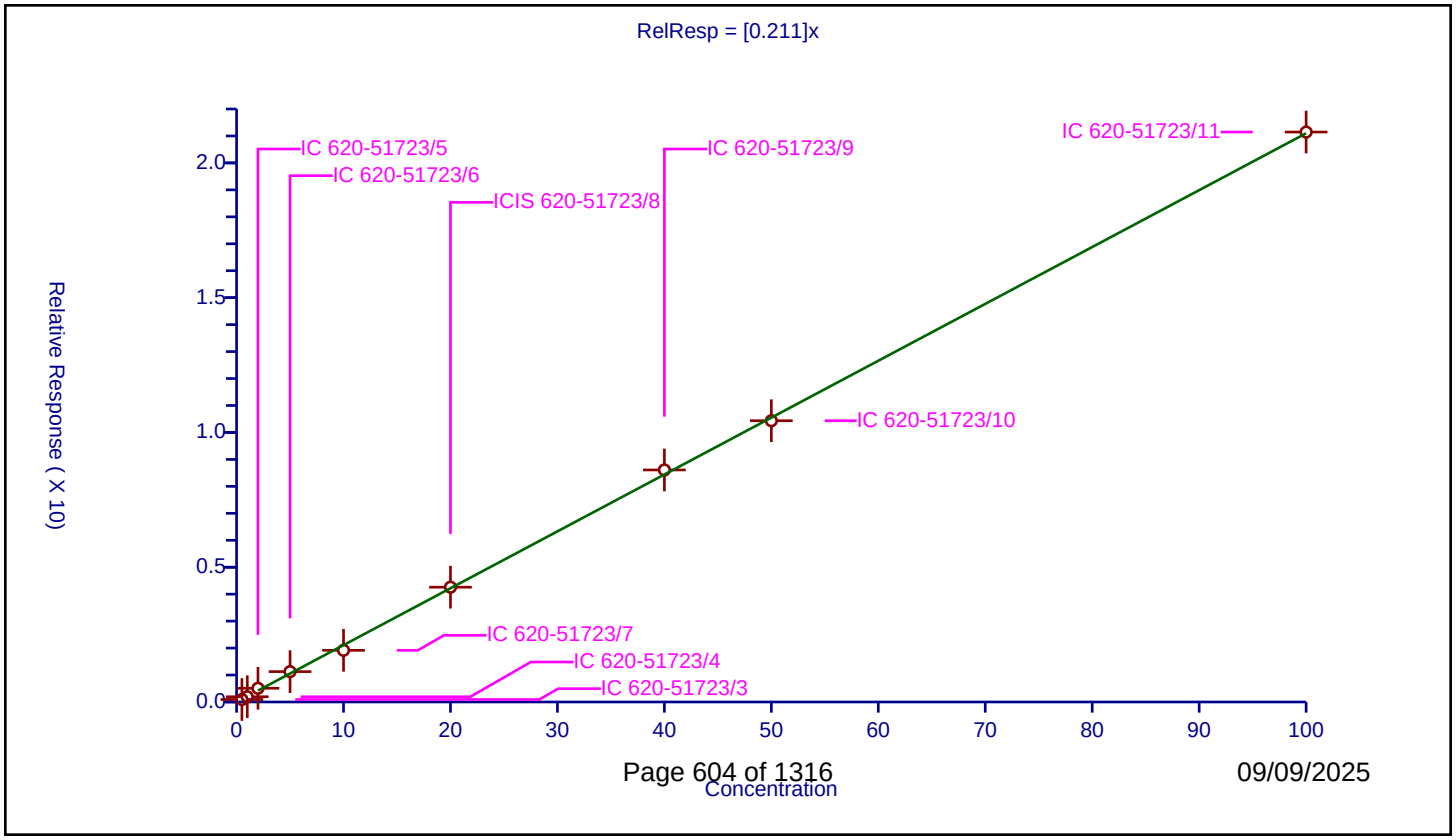
Curve Coefficients

Intercept:	0
Slope:	0.211

Error Coefficients

Relative Standard Deviation:	9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.09246	50.0	153580.0	0.18492	Y
2	IC 620-51723/4	1.0	0.194443	50.0	152230.0	0.194443	Y
3	IC 620-51723/5	2.0	0.508577	50.0	150223.0	0.254289	Y
4	IC 620-51723/6	5.0	1.126131	50.0	154245.0	0.225226	Y
5	IC 620-51723/7	10.0	1.917245	50.0	148729.0	0.191725	Y
6	ICIS 620-51723/8	20.0	4.259019	50.0	147217.0	0.212951	Y
7	IC 620-51723/9	40.0	8.608523	50.0	148655.0	0.215213	Y
8	IC 620-51723/10	50.0	10.434962	50.0	152818.0	0.208699	Y
9	IC 620-51723/11	100.0	21.145474	50.0	160091.0	0.211455	Y



Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

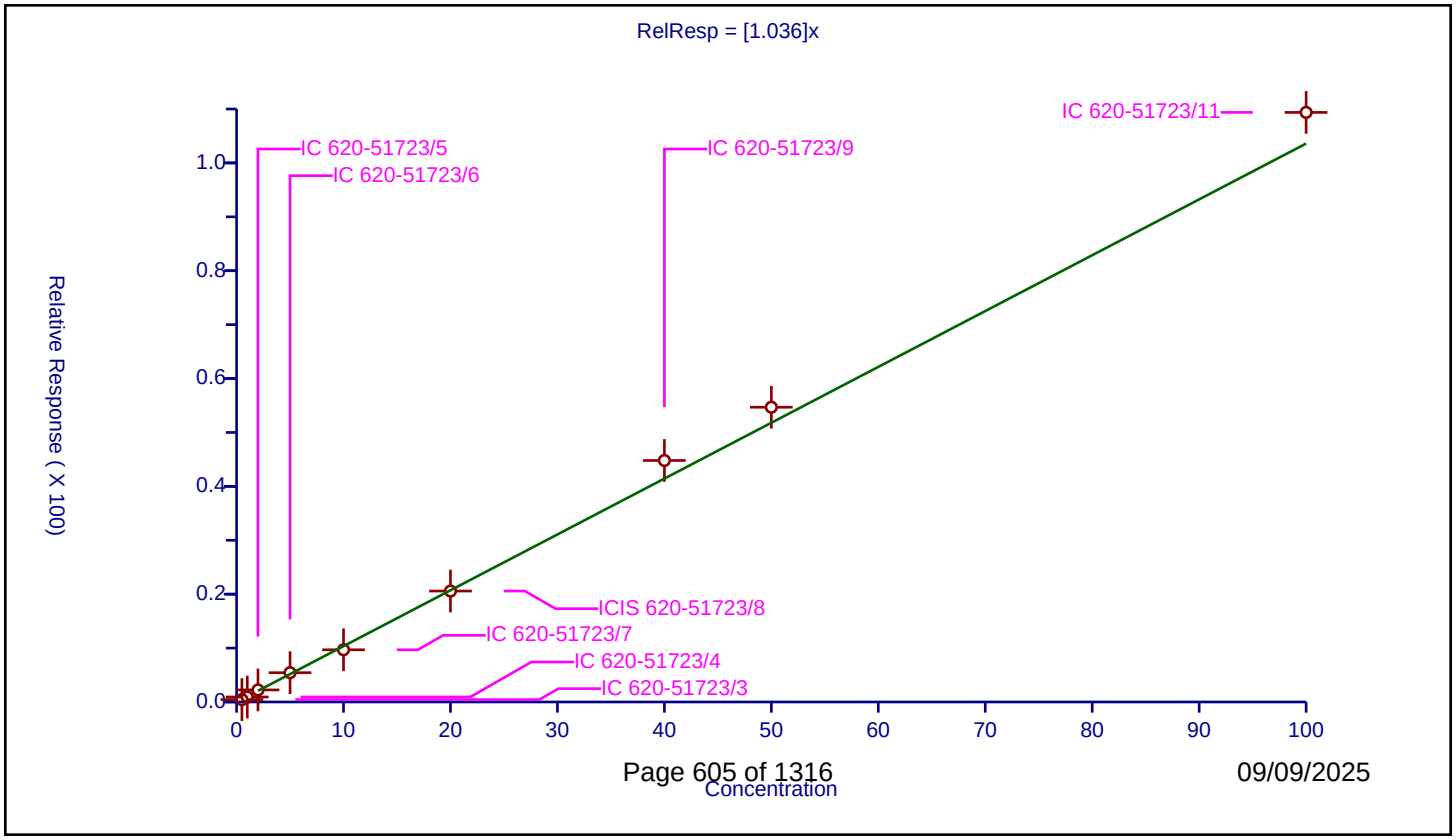
Curve Coefficients

Intercept:	0
Slope:	1.036

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.443092	50.0	153580.0	0.886183	Y
2	IC 620-51723/4	1.0	0.927544	50.0	152230.0	0.927544	Y
3	IC 620-51723/5	2.0	2.236342	50.0	150223.0	1.118171	Y
4	IC 620-51723/6	5.0	5.433239	50.0	154245.0	1.086648	Y
5	IC 620-51723/7	10.0	9.685401	50.0	148729.0	0.96854	Y
6	ICIS 620-51723/8	20.0	20.581862	50.0	147217.0	1.029093	Y
7	IC 620-51723/9	40.0	44.80004	50.0	148655.0	1.120001	Y
8	IC 620-51723/10	50.0	54.681059	50.0	152818.0	1.093621	Y
9	IC 620-51723/11	100.0	109.371857	50.0	160091.0	1.093719	Y



09/09/2025

Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

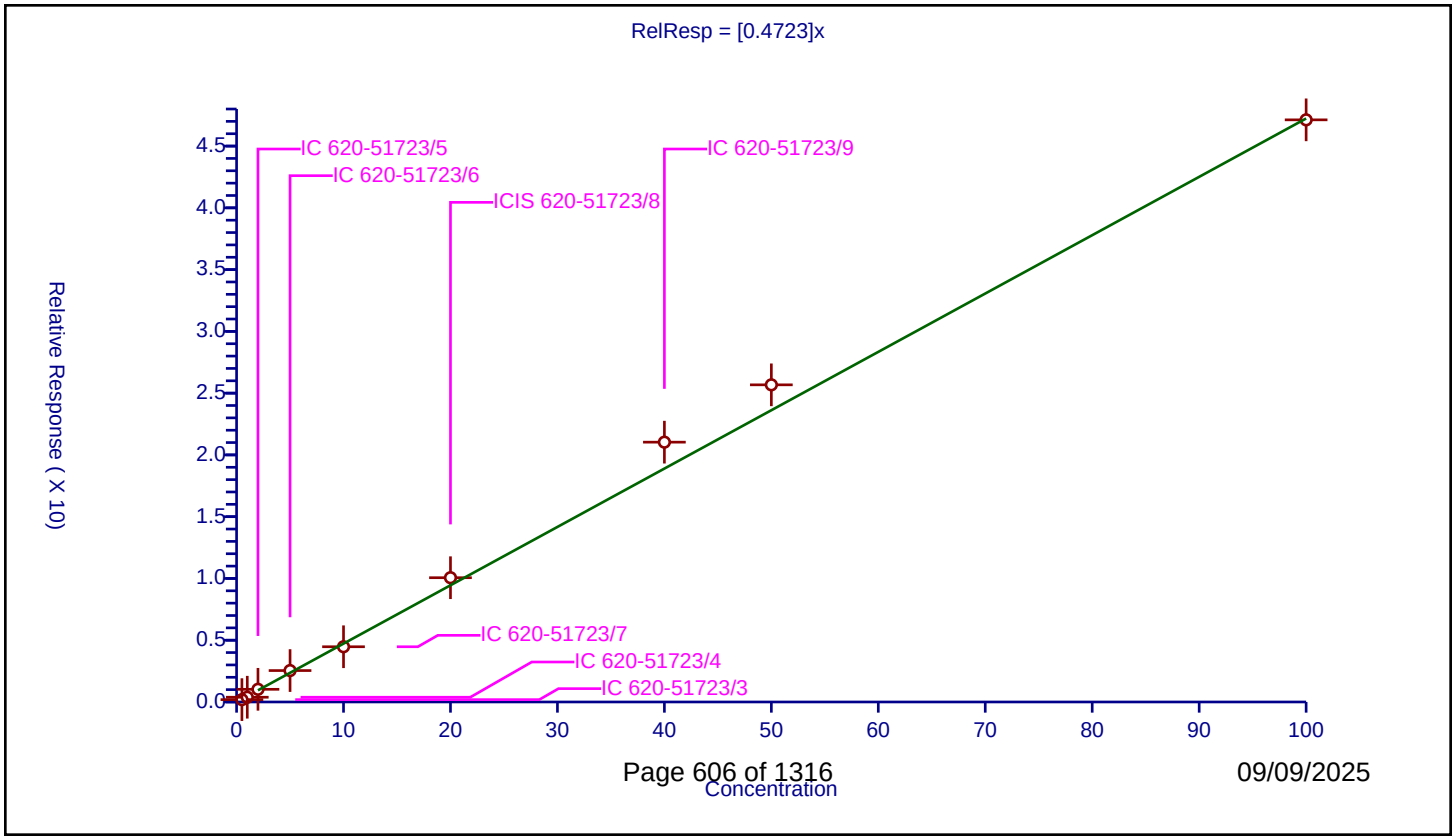
Curve Coefficients

Intercept:	0
Slope:	0.4723

Error Coefficients

Relative Standard Deviation:	11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.191616	50.0	255720.0	0.383232	Y
2	IC 620-51723/4	1.0	0.384796	50.0	251042.0	0.384796	Y
3	IC 620-51723/5	2.0	1.027248	50.0	249891.0	0.513624	Y
4	IC 620-51723/6	5.0	2.543242	50.0	253397.0	0.508648	Y
5	IC 620-51723/7	10.0	4.471034	50.0	248891.0	0.447103	Y
6	ICIS 620-51723/8	20.0	10.060225	50.0	249731.0	0.503011	Y
7	IC 620-51723/9	40.0	21.032941	50.0	262745.0	0.525824	Y
8	IC 620-51723/10	50.0	25.673462	50.0	276593.0	0.513469	Y
9	IC 620-51723/11	100.0	47.123442	50.0	312787.0	0.471234	Y



Calibration / Naphthalene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

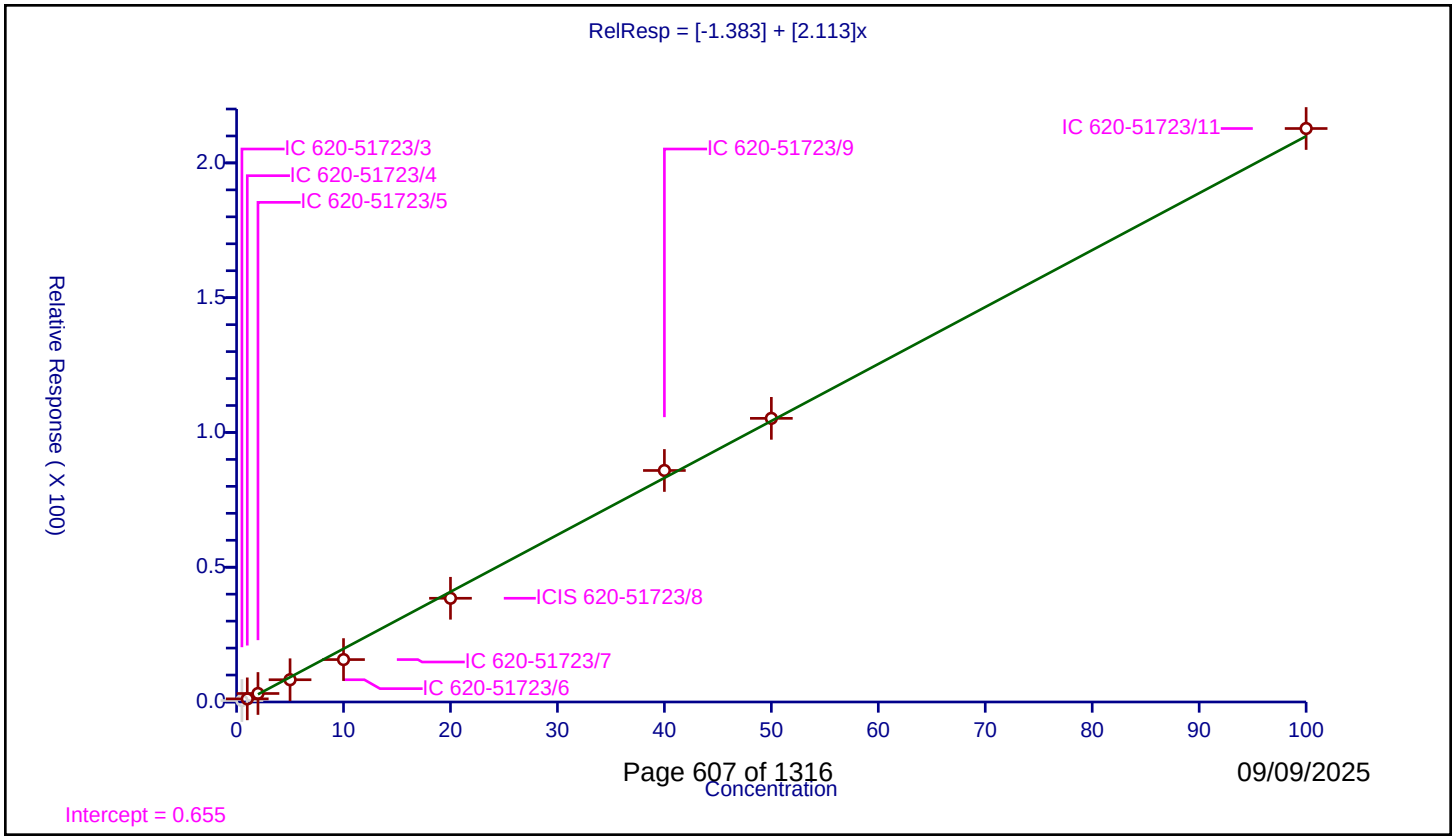
Curve Coefficients

Intercept:	-1.383
Slope:	2.113

Error Coefficients

Relative Standard Deviation:	12.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.539458	50.0	153580.0	1.078917	N
2	IC 620-51723/4	1.0	1.16567	50.0	152230.0	1.16567	Y
3	IC 620-51723/5	2.0	3.146655	50.0	150223.0	1.573328	Y
4	IC 620-51723/6	5.0	8.258615	50.0	154245.0	1.651723	Y
5	IC 620-51723/7	10.0	15.739365	50.0	148729.0	1.573936	Y
6	ICIS 620-51723/8	20.0	38.477214	50.0	147217.0	1.923861	Y
7	IC 620-51723/9	40.0	85.891494	50.0	148655.0	2.147287	Y
8	IC 620-51723/10	50.0	105.228769	50.0	152818.0	2.104575	Y
9	IC 620-51723/11	100.0	212.766801	50.0	160091.0	2.127668	Y



09/09/2025

Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

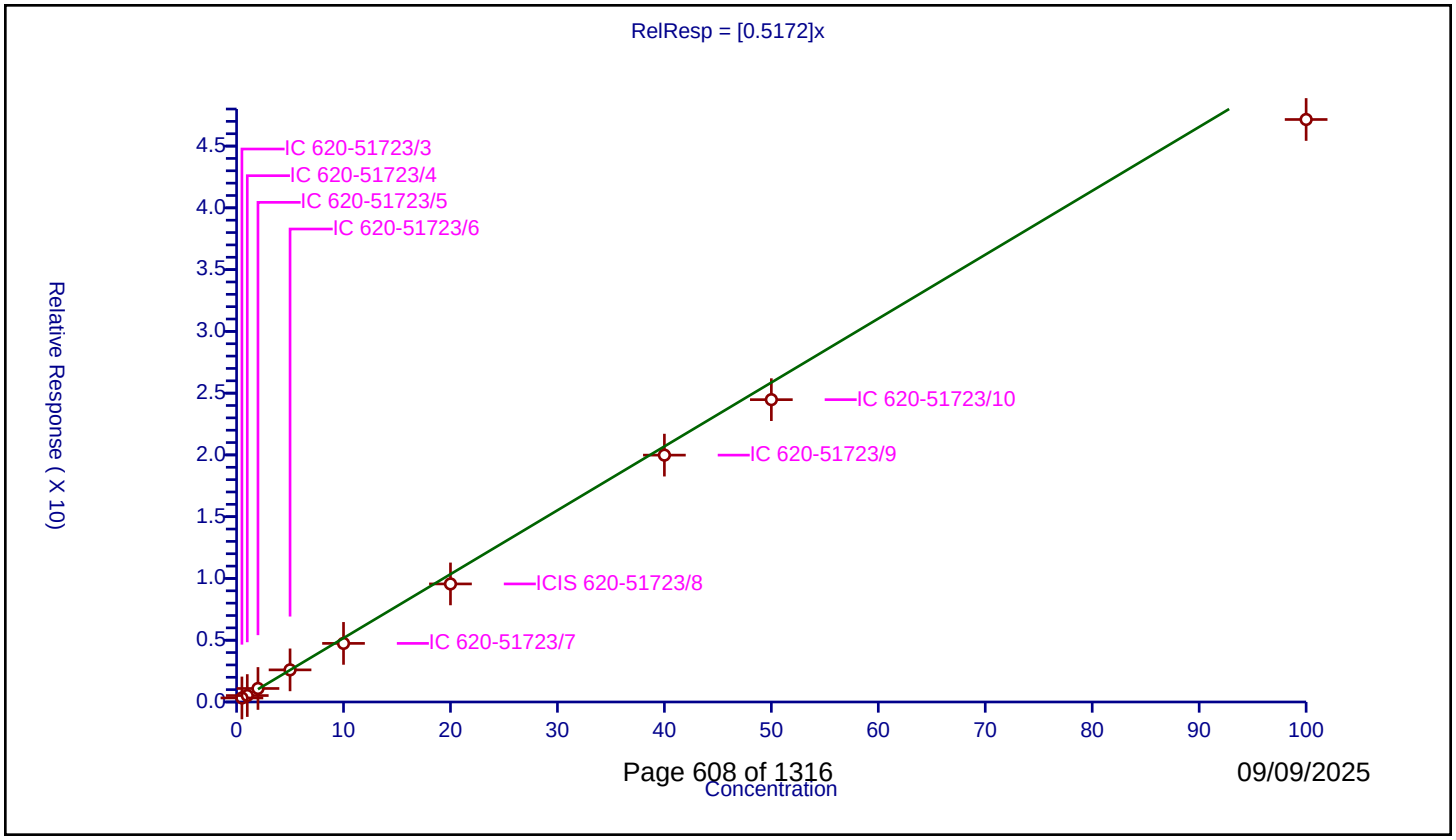
Curve Coefficients

Intercept:	0
Slope:	0.5172

Error Coefficients

Relative Standard Deviation:	11.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.327517	50.0	153580.0	0.655033	Y
2	IC 620-51723/4	1.0	0.520922	50.0	152230.0	0.520922	Y
3	IC 620-51723/5	2.0	1.092709	50.0	150223.0	0.546354	Y
4	IC 620-51723/6	5.0	2.600084	50.0	154245.0	0.520017	Y
5	IC 620-51723/7	10.0	4.742518	50.0	148729.0	0.474252	Y
6	ICIS 620-51723/8	20.0	9.55732	50.0	147217.0	0.477866	Y
7	IC 620-51723/9	40.0	19.982846	50.0	148655.0	0.499571	Y
8	IC 620-51723/10	50.0	24.472575	50.0	152818.0	0.489452	Y
9	IC 620-51723/11	100.0	47.15162	50.0	160091.0	0.471516	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

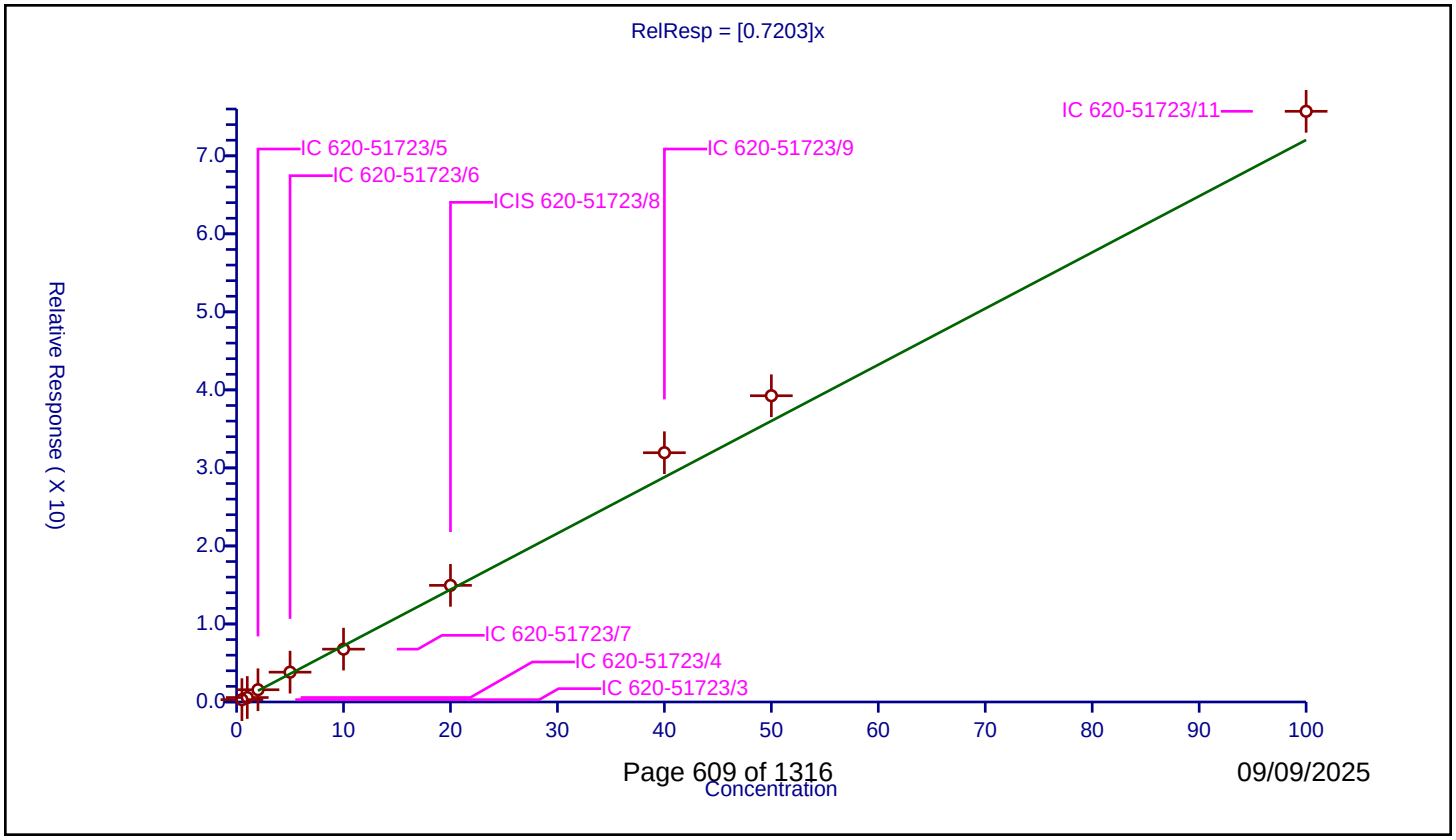
Curve Coefficients

Intercept:	0
Slope:	0.7203

Error Coefficients

Relative Standard Deviation:	11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.297565	50.0	153580.0	0.59513	Y
2	IC 620-51723/4	1.0	0.571832	50.0	152230.0	0.571832	Y
3	IC 620-51723/5	2.0	1.571996	50.0	150223.0	0.785998	Y
4	IC 620-51723/6	5.0	3.823139	50.0	154245.0	0.764628	Y
5	IC 620-51723/7	10.0	6.773393	50.0	148729.0	0.677339	Y
6	ICIS 620-51723/8	20.0	14.946304	50.0	147217.0	0.747315	Y
7	IC 620-51723/9	40.0	31.94679	50.0	148655.0	0.79867	Y
8	IC 620-51723/10	50.0	39.253229	50.0	152818.0	0.785065	Y
9	IC 620-51723/11	100.0	75.706317	50.0	160091.0	0.757063	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab Sample ID: ICV 620-51723/16 Calibration Date: 08/07/2025 15:14

Instrument ID: HPV4 Calib Start Date: 07/22/2025 11:31

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 07/22/2025 14:40

Lab File ID: V4-080725-16.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
Ethyl methacrylate	Qua1		0.3093	0.0500		20.0		20.0
Vinyl acetate	Qua1					20.0		20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab Sample ID: ICV 620-51723/16 Calibration Date: 08/07/2025 15:14

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-080725-16.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 (Freon 12)	Ave	0.4092	0.2938	0.0100	14.4	20.0	-28.2	50.0
Chloromethane	Ave	0.3336	0.2725	0.0500	16.3	20.0	-18.3	20.0
Vinyl chloride	Ave	0.2562	0.2179	0.0500	17.0	20.0	-15.0	20.0
Bromomethane	Lin1		0.1674	0.0100	19.4	20.0	-3.1	50.0
Chloroethane	Ave	0.1681	0.1520	0.0830	18.1	20.0	-9.6	50.0
Ethanol	Ave	0.0026	0.0022*	0.0023	331	400	-17.2	20.0
Trichlorofluoromethane (Freon 11)	Ave	0.5758	0.5640	0.0500	19.6	20.0	-2.0	20.0
Acetone	Ave	0.1826	0.1460	0.0870	16.0	20.0	-20.1	50.0
Ethyl ether	Ave	0.2313	0.2072	0.0500	17.9	20.0	-10.4	20.0
1,1-Dichloroethene	Ave	0.2619	0.2332	0.0500	17.8	20.0	-10.9	20.0
Iodomethane	Qua1		0.1161	0.0500	17.0	20.0	-15.0	20.0
tert-Butanol	Ave	0.0233	0.0179	0.0080	154	200	-23.2*	20.0
Acrylonitrile	Ave	0.1131	0.1014	0.0430	17.9	20.0	-10.4	20.0
Methylene Chloride	Lin1		0.3113	0.0500	18.3	20.0	-8.3	20.0
1,1,2-Trichlorotrifluoroethane (Freon 113)	Ave	0.3254	0.2744	0.0500	16.9	20.0	-15.7	20.0
Methyl acetate	Ave	0.2387	0.2357	0.0500	19.8	20.0	-1.2	20.0
Carbon disulfide	Ave	0.9589	0.9278	0.0500	19.4	20.0	-3.2	20.0
trans-1,2-Dichloroethene	Ave	0.2766	0.2628	0.0500	19.0	20.0	-5.0	20.0
Methyl tert-butyl ether	Ave	0.7113	0.6903	0.0500	19.4	20.0	-3.0	20.0
1,1-Dichloroethane	Ave	0.5500	0.5062	0.0500	18.4	20.0	-8.0	20.0
2-Butanone (MEK)	Qua1		0.0816*	0.0950	15.5	20.0	-22.4	50.0
di-Isopropyl ether	Ave	0.7361	0.7124	0.0500	19.4	20.0	-3.2	20.0
cis-1,2-Dichloroethene	Ave	0.3106	0.2996	0.0500	19.3	20.0	-3.5	20.0
Bromochloromethane	Ave	0.1504	0.1391	0.0900	18.5	20.0	-7.5	20.0
Chloroform	Lin1		0.6492	0.0500	18.8	20.0	-6.2	20.0
2,2-Dichloropropane	Ave	0.3178	0.3044	0.0500	19.2	20.0	-4.2	20.0
Ethyl tert-butyl ether	Ave	0.7270	0.7005	0.0500	19.3	20.0	-3.6	20.0
Tetrahydrofuran	Ave	0.0686	0.0582	0.0290	17.0	20.0	-15.2	20.0
1,2-Dichloroethane	Ave	0.5209	0.4403	0.0500	16.9	20.0	-15.5	20.0
1,1,1-Trichloroethane	Ave	0.3974	0.3961	0.0500	19.9	20.0	-0.3	20.0
1,1-Dichloropropene	Ave	0.3655	0.3668	0.0500	20.1	20.0	0.4	20.0
Cyclohexane	Ave	0.4262	0.5082	0.0500	23.8	20.0	19.2	20.0
Carbon tetrachloride	Ave	0.1193	0.1679	0.0500	28.1	20.0	40.7*	20.0
Benzene	Ave	1.205	1.038	0.0500	17.2	20.0	-13.9	20.0
Tert-amyl methyl ether	Lin1		0.6241	0.0500	17.8	20.0	-11.2	20.0
Dibromomethane	Ave	0.2160	0.1948	0.1100	18.0	20.0	-9.8	20.0
1,2-Dichloropropane	Ave	0.2709	0.2553	0.0500	18.8	20.0	-5.8	20.0
Trichloroethene	Ave	0.3214	0.2868	0.0500	17.8	20.0	-10.8	20.0
Bromodichloromethane	Lin1		0.4318	0.0500	20.0	20.0	0.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab Sample ID: ICV 620-51723/16 Calibration Date: 08/07/2025 15:14

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-080725-16.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
1,4-Dioxane	Lin1		0.0023	0.0010	164	200	-17.8	50.0
Methylcyclohexane	Ave	0.4558	0.5688	0.0500	25.0	20.0	24.8*	20.0
cis-1,3-Dichloropropene	Ave	0.4392	0.4347	0.0500	19.8	20.0	-1.0	20.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.1691	0.0990	14.9	20.0	-25.6	50.0
trans-1,3-Dichloropropene	Ave	0.4224	0.4265	0.0500	20.2	20.0	1.0	20.0
1,1,2-Trichloroethane	Ave	0.2456	0.2188	0.0500	17.8	20.0	-10.9	20.0
Toluene	Ave	0.7205	0.6379	0.0500	17.7	20.0	-11.5	20.0
1,3-Dichloropropane	Ave	0.4875	0.4432	0.0500	18.2	20.0	-9.1	20.0
Dibromochloromethane	Ave	0.3754	0.3203	0.0500	17.1	20.0	-14.7	20.0
2-Hexanone (MBK)	Qua1		0.1743	0.0860	18.7	20.0	-6.3	50.0
1,2-Dibromoethane (EDB)	Ave	0.2904	0.2684	0.0500	18.5	20.0	-7.6	20.0
Tetrachloroethene	Ave	0.3379	0.3097	0.0500	18.3	20.0	-8.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4341	0.3840	0.0500	17.7	20.0	-11.5	20.0
Chlorobenzene	Ave	1.094	0.9868	0.0500	18.0	20.0	-9.8	20.0
Ethylbenzene	Ave	1.752	1.672	0.0500	19.1	20.0	-4.6	20.0
Bromoform	Ave	0.3558	0.3122	0.0500	17.6	20.0	-12.2	20.0
m,p-Xylene	Ave	1.283	1.322	0.0500	41.2	40.0	3.1	20.0
Styrene	Ave	0.9093	0.9581	0.0500	21.1	20.0	5.4	20.0
1,1,2,2-Tetrachloroethane	Qua1		0.4713	0.0500	16.1	20.0	-19.6	20.0
o-Xylene	Ave	1.459	1.393	0.0500	19.1	20.0	-4.5	20.0
1,2,3-Trichloropropane	Ave	0.4716	0.3885	0.0500	16.5	20.0	-17.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.0931	0.0791*	0.0910	17.0	20.0	-15.0	20.0
Isopropylbenzene	Ave	1.915	1.672	0.0500	17.5	20.0	-12.7	20.0
Bromobenzene	Ave	0.5047	0.4551	0.0500	18.0	20.0	-9.8	20.0
N-Propylbenzene	Lin1		2.233	0.0500	18.8	20.0	-6.0	20.0
2-Chlorotoluene	Ave	0.4171	0.3943	0.0500	18.9	20.0	-5.5	20.0
4-Chlorotoluene	Ave	1.432	1.338	0.0500	18.7	20.0	-6.6	20.0
1,3,5-Trimethylbenzene	Ave	1.440	1.411	0.0500	19.6	20.0	-2.0	20.0
tert-Butylbenzene	Ave	0.8790	0.8709	0.0500	19.8	20.0	-0.9	20.0
1,2,4-Trimethylbenzene	Ave	1.448	1.435	0.0500	19.8	20.0	-0.9	20.0
1,3-Dichlorobenzene	Ave	0.9407	0.8459	0.0500	18.0	20.0	-10.1	20.0
sec-Butylbenzene	Ave	1.897	1.785	0.0500	18.8	20.0	-5.9	20.0
1,4-Dichlorobenzene	Ave	1.695	1.494	0.0500	17.6	20.0	-11.8	20.0
4-Isopropyltoluene	Ave	2.644	2.643	0.0500	20.0	20.0	-0.0	20.0
1,2-Dichlorobenzene	Ave	1.460	1.370	0.0500	18.8	20.0	-6.1	20.0
n-Butylbenzene	Ave	2.392	2.611	0.0500	21.8	20.0	9.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2110	0.1670	0.0630	15.8	20.0	-20.9*	20.0
1,3,5-Trichlorobenzene	Ave	1.036	1.002	0.0500	19.3	20.0	-3.3	20.0
1,2,4-Trichlorobenzene	Ave	0.4723	0.4512	0.0500	19.1	20.0	-4.5	20.0
Naphthalene	Lin1		1.634	0.0500	16.1	20.0	-19.4	20.0
Hexachlorobutadiene	Ave	0.5172	0.4446	0.0500	17.2	20.0	-14.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab Sample ID: ICV 620-51723/16 Calibration Date: 08/07/2025 15:14

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-080725-16.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
1,2,3-Trichlorobenzene	Ave	0.7203	0.6771	0.0500	18.8	20.0	-6.0	20.0
Dibromofluoromethane (Surr)	Ave	0.3154	0.3185	0.0500	50.5	50.0	1.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4129	0.3963	0.0500	48.0	50.0	-4.0	20.0
Toluene-d8 (Surr)	Ave	0.9541	0.9485	0.0500	49.7	50.0	-0.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5442	0.5450	0.0500	50.1	50.0	0.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCVIS 620-52091/3 Calibration Date: 08/14/2025 17:54

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-081425-25.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 (Freon 12)	Ave	0.4092	0.3728	0.0100	18.2	20.0	-8.9	50.0
Chloromethane	Ave	0.3336	0.2343	0.0500	14.0	20.0	-29.8	50.0
Vinyl chloride	Ave	0.2562	0.2544	0.0500	19.9	20.0	-0.7	20.0
Bromomethane	Lin1		0.1330	0.0100	15.2	20.0	-23.9	50.0
Chloroethane	Ave	0.1681	0.1508	0.0830	17.9	20.0	-10.3	50.0
Ethanol	Ave	0.0026	0.0037	0.0023	571	400	42.9	50.0
Trichlorofluoromethane (Freon 11)	Ave	0.5758	0.5972	0.0500	20.7	20.0	3.7	20.0
Acetone	Ave	0.1826	0.2460	0.0870	27.0	20.0	34.8	50.0
Ethyl ether	Ave	0.2313	0.2310	0.0500	20.0	20.0	-0.1	20.0
1,1-Dichloroethene	Ave	0.2619	0.2696	0.0500	20.6	20.0	3.0	20.0
Iodomethane	Qua1		0.1419	0.0500	20.6	20.0	3.1	20.0
tert-Butanol	Ave	0.0233	0.0265	0.0080	228	200	13.8	20.0
Acrylonitrile	Ave	0.1131	0.1312	0.0430	23.2	20.0	16.0	20.0
Methylene Chloride	Lin1		0.3429	0.0500	20.3	20.0	1.4	20.0
1,1,2-Trichlorotrifluoroethane (Freon 113)	Ave	0.3254	0.3161	0.0500	19.4	20.0	-2.9	20.0
Methyl acetate	Ave	0.2387	0.2306	0.0500	19.3	20.0	-3.4	20.0
Carbon disulfide	Ave	0.9589	1.008	0.0500	21.0	20.0	5.2	20.0
trans-1,2-Dichloroethene	Ave	0.2766	0.2771	0.0500	20.0	20.0	0.2	20.0
Methyl tert-butyl ether	Ave	0.7113	0.7089	0.0500	19.9	20.0	-0.3	20.0
1,1-Dichloroethane	Ave	0.5500	0.5688	0.0500	20.7	20.0	3.4	20.0
2-Butanone (MEK)	Qua1		0.1439	0.0950	24.1	20.0	20.5	50.0
di-Isopropyl ether	Ave	0.7361	0.7610	0.0500	20.7	20.0	3.4	20.0
cis-1,2-Dichloroethene	Ave	0.3106	0.3335	0.0500	21.5	20.0	7.4	20.0
Bromochloromethane	Ave	0.1504	0.1626	0.0900	21.6	20.0	8.1	50.0
Chloroform	Lin1		0.7418	0.0500	21.6	20.0	7.9	20.0
2,2-Dichloropropane	Ave	0.3178	0.3525	0.0500	22.2	20.0	10.9	20.0
Ethyl tert-butyl ether	Ave	0.7270	0.7584	0.0500	20.9	20.0	4.3	20.0
Tetrahydrofuran	Ave	0.0686	0.0745	0.0290	21.7	20.0	8.7	20.0
1,2-Dichloroethane	Ave	0.5209	0.5642	0.0500	21.7	20.0	8.3	20.0
1,1,1-Trichloroethane	Ave	0.3974	0.4433	0.0500	22.3	20.0	11.6	20.0
1,1-Dichloropropene	Ave	0.3655	0.3794	0.0500	20.8	20.0	3.8	20.0
Cyclohexane	Ave	0.4262	0.4654	0.0500	21.8	20.0	9.2	20.0
Carbon tetrachloride	Ave	0.1193	0.1672	0.0500	28.0	20.0	40.2*	20.0
Benzene	Ave	1.205	1.204	0.0500	20.0	20.0	-0.0	20.0
Tert-amyl methyl ether	Lin1		0.6883	0.0500	19.7	20.0	-1.5	20.0
Dibromomethane	Ave	0.2160	0.2386	0.1100	22.1	20.0	10.5	20.0
1,2-Dichloropropane	Ave	0.2709	0.2773	0.0500	20.5	20.0	2.4	20.0
Trichloroethene	Ave	0.3214	0.3373	0.0500	21.0	20.0	4.9	20.0
Bromodichloromethane	Lin1		0.5095	0.0500	23.7	20.0	18.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCVIS 620-52091/3 Calibration Date: 08/14/2025 17:54

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-081425-25.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
1,4-Dioxane	Lin1		0.0027	0.0010	195	200	-2.5	50.0
Methylcyclohexane	Ave	0.4558	0.5124	0.0500	22.5	20.0	12.4	20.0
cis-1,3-Dichloropropene	Ave	0.4392	0.4737	0.0500	21.6	20.0	7.8	20.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.2447	0.0990	21.2	20.0	6.1	50.0
trans-1,3-Dichloropropene	Ave	0.4224	0.4569	0.0500	21.6	20.0	8.2	20.0
1,1,2-Trichloroethane	Ave	0.2456	0.2691	0.0500	21.9	20.0	9.5	20.0
Toluene	Ave	0.7205	0.7679	0.0500	21.3	20.0	6.6	20.0
1,3-Dichloropropane	Ave	0.4875	0.5293	0.0500	21.7	20.0	8.6	20.0
Dibromochloromethane	Ave	0.3754	0.3857	0.0500	20.6	20.0	2.8	20.0
2-Hexanone (MBK)	Qua1		0.2357	0.0860	23.4	20.0	17.1	50.0
1,2-Dibromoethane (EDB)	Ave	0.2904	0.3333	0.0500	23.0	20.0	14.8	20.0
Tetrachloroethene	Ave	0.3379	0.3705	0.0500	21.9	20.0	9.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4341	0.4678	0.0500	21.6	20.0	7.8	20.0
Chlorobenzene	Ave	1.094	1.138	0.0500	20.8	20.0	4.0	20.0
Ethylbenzene	Ave	1.752	2.049	0.0500	23.4	20.0	16.9	20.0
Bromoform	Ave	0.3558	0.3980	0.0500	22.4	20.0	11.9	50.0
m,p-Xylene	Ave	1.283	1.590	0.0500	24.8	20.0	24.0*	20.0
Styrene	Ave	0.9093	1.114	0.0500	24.5	20.0	22.5*	20.0
1,1,2,2-Tetrachloroethane	Qua1		0.6431	0.0500	22.3	20.0	11.4	20.0
o-Xylene	Ave	1.459	1.764	0.0500	24.2	20.0	20.9*	20.0
1,2,3-Trichloropropane	Ave	0.4716	0.5351	0.0500	22.7	20.0	13.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.0931	0.0990	0.0910	21.3	20.0	6.3	20.0
Isopropylbenzene	Ave	1.915	2.106	0.0500	22.0	20.0	10.0	20.0
Bromobenzene	Ave	0.5047	0.5561	0.0500	22.0	20.0	10.2	20.0
N-Propylbenzene	Lin1		2.547	0.0500	21.4	20.0	6.9	20.0
2-Chlorotoluene	Ave	0.4171	0.4711	0.0500	22.6	20.0	12.9	20.0
4-Chlorotoluene	Ave	1.432	1.660	0.0500	23.2	20.0	15.9	20.0
1,3,5-Trimethylbenzene	Ave	1.440	1.717	0.0500	23.8	20.0	19.2	20.0
tert-Butylbenzene	Ave	0.8790	1.060	0.0500	24.1	20.0	20.5*	20.0
1,2,4-Trimethylbenzene	Ave	1.448	1.746	0.0500	24.1	20.0	20.6*	20.0
1,3-Dichlorobenzene	Ave	0.9407	1.034	0.0500	22.0	20.0	9.9	20.0
sec-Butylbenzene	Ave	1.897	2.240	0.0500	23.6	20.0	18.1	20.0
1,4-Dichlorobenzene	Ave	1.695	1.738	0.0500	20.5	20.0	2.5	20.0
4-Isopropyltoluene	Ave	2.644	3.069	0.0500	23.2	20.0	16.1	20.0
1,2-Dichlorobenzene	Ave	1.460	1.538	0.0500	21.1	20.0	5.4	20.0
n-Butylbenzene	Ave	2.392	2.840	0.0500	23.7	20.0	18.7	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2110	0.2286	0.0630	21.7	20.0	8.4	20.0
1,3,5-Trichlorobenzene	Ave	1.036	1.103	0.0500	21.3	20.0	6.4	20.0
1,2,4-Trichlorobenzene	Ave	0.4723	0.5243	0.0500	22.2	20.0	11.0	20.0
Naphthalene	Lin1		1.962	0.0500	19.2	20.0	-3.9	20.0
Hexachlorobutadiene	Ave	0.5172	0.5321	0.0500	20.6	20.0	2.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCVIS 620-52091/3 Calibration Date: 08/14/2025 17:54

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-081425-25.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
1,2,3-Trichlorobenzene	Ave	0.7203	0.7806	0.0500	21.7	20.0	8.4	20.0
Dibromofluoromethane (Surr)	Ave	0.3154	0.3334	0.0500	52.8	50.0	5.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4129	0.4365	0.0500	52.9	50.0	5.7	20.0
Toluene-d8 (Surr)	Ave	0.9541	0.9765	0.0500	51.2	50.0	2.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5442	0.5687	0.0500	52.3	50.0	4.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCVIS 620-52137/3 Calibration Date: 08/15/2025 07:44

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-081425-03.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 (Freon 12)	Ave	0.4092	0.3365	0.0100	16.4	20.0	-17.8	50.0
Chloromethane	Ave	0.3336	0.2425	0.0500	14.5	20.0	-27.3	50.0
Vinyl chloride	Ave	0.2562	0.2319	0.0500	18.1	20.0	-9.5	20.0
Bromomethane	Lin1		0.1490	0.0100	17.2	20.0	-14.2	50.0
Chloroethane	Ave	0.1681	0.1577	0.0830	18.8	20.0	-6.2	50.0
Ethanol	Ave	0.0026	0.0027	0.0023	418	400	4.4	50.0
Trichlorofluoromethane (Freon 11)	Ave	0.5758	0.5746	0.0500	20.0	20.0	-0.2	20.0
Acetone	Ave	0.1826	0.1765	0.0870	19.3	20.0	-3.3	50.0
Ethyl ether	Ave	0.2313	0.1982	0.0500	17.1	20.0	-14.3	20.0
1,1-Dichloroethene	Ave	0.2619	0.2378	0.0500	18.2	20.0	-9.2	20.0
Iodomethane	Qua1		0.0438*	0.0500	6.49	20.0	-67.6*	20.0
tert-Butanol	Ave	0.0233	0.0189	0.0080	163	200	-18.7	20.0
Acrylonitrile	Ave	0.1131	0.1038	0.0430	18.4	20.0	-8.2	20.0
Methylene Chloride	Lin1		0.3113	0.0500	18.3	20.0	-8.3	20.0
1,1,2-Trichlorotrifluoroethane (Freon 113)	Ave	0.3254	0.2948	0.0500	18.1	20.0	-9.4	20.0
Methyl acetate	Ave	0.2387	0.1802	0.0500	15.1	20.0	-24.5*	20.0
Carbon disulfide	Ave	0.9589	0.8673	0.0500	18.1	20.0	-9.6	20.0
trans-1,2-Dichloroethene	Ave	0.2766	0.2504	0.0500	18.1	20.0	-9.5	20.0
Methyl tert-butyl ether	Ave	0.7113	0.6268	0.0500	17.6	20.0	-11.9	20.0
1,1-Dichloroethane	Ave	0.5500	0.5157	0.0500	18.8	20.0	-6.2	20.0
2-Butanone (MEK)	Qua1		0.0894*	0.0950	16.7	20.0	-16.6	50.0
di-Isopropyl ether	Ave	0.7361	0.6498	0.0500	17.7	20.0	-11.7	20.0
cis-1,2-Dichloroethene	Ave	0.3106	0.2979	0.0500	19.2	20.0	-4.1	20.0
Bromochloromethane	Ave	0.1504	0.1496	0.0900	19.9	20.0	-0.5	50.0
Chloroform	Lin1		0.6874	0.0500	19.9	20.0	-0.3	20.0
2,2-Dichloropropane	Ave	0.3178	0.3386	0.0500	21.3	20.0	6.5	20.0
Ethyl tert-butyl ether	Ave	0.7270	0.6452	0.0500	17.7	20.0	-11.3	20.0
Tetrahydrofuran	Ave	0.0686	0.0558	0.0290	16.3	20.0	-18.7	20.0
1,2-Dichloroethane	Ave	0.5209	0.4999	0.0500	19.2	20.0	-4.0	20.0
1,1,1-Trichloroethane	Ave	0.3974	0.4643	0.0500	23.4	20.0	16.8	20.0
1,1-Dichloropropene	Ave	0.3655	0.3409	0.0500	18.7	20.0	-6.7	20.0
Cyclohexane	Ave	0.4262	0.4040	0.0500	19.0	20.0	-5.2	20.0
Carbon tetrachloride	Ave	0.1193	0.2245	0.0500	37.6	20.0	88.2*	20.0
Benzene	Ave	1.205	1.064	0.0500	17.7	20.0	-11.7	20.0
Tert-amyl methyl ether	Lin1		0.5877	0.0500	16.7	20.0	-16.7	20.0
Dibromomethane	Ave	0.2160	0.2130	0.1100	19.7	20.0	-1.4	20.0
1,2-Dichloropropane	Ave	0.2709	0.2472	0.0500	18.3	20.0	-8.7	20.0
Trichloroethene	Ave	0.3214	0.3147	0.0500	19.6	20.0	-2.1	20.0
Bromodichloromethane	Lin1		0.4899	0.0500	22.8	20.0	13.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCVIS 620-52137/3 Calibration Date: 08/15/2025 07:44

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-081425-03.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
1,4-Dioxane	Lin1		0.0016	0.0010	123	200	-38.3	50.0
Methylcyclohexane	Ave	0.4558	0.4504	0.0500	19.8	20.0	-1.2	20.0
cis-1,3-Dichloropropene	Ave	0.4392	0.4127	0.0500	18.8	20.0	-6.0	20.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.1589	0.0990	14.0	20.0	-29.9	50.0
trans-1,3-Dichloropropene	Ave	0.4224	0.4020	0.0500	19.0	20.0	-4.8	20.0
1,1,2-Trichloroethane	Ave	0.2456	0.2337	0.0500	19.0	20.0	-4.9	20.0
Toluene	Ave	0.7205	0.6754	0.0500	18.7	20.0	-6.3	20.0
1,3-Dichloropropane	Ave	0.4875	0.4629	0.0500	19.0	20.0	-5.1	20.0
Dibromochloromethane	Ave	0.3754	0.3488	0.0500	18.6	20.0	-7.1	20.0
2-Hexanone (MBK)	Qua1		0.1457	0.0860	16.4	20.0	-18.2	50.0
1,2-Dibromoethane (EDB)	Ave	0.2904	0.2849	0.0500	19.6	20.0	-1.9	20.0
Tetrachloroethene	Ave	0.3379	0.3198	0.0500	18.9	20.0	-5.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4341	0.4329	0.0500	19.9	20.0	-0.3	20.0
Chlorobenzene	Ave	1.094	1.025	0.0500	18.7	20.0	-6.3	20.0
Ethylbenzene	Ave	1.752	1.785	0.0500	20.4	20.0	1.9	20.0
Bromoform	Ave	0.3558	0.3578	0.0500	20.1	20.0	0.6	50.0
m,p-Xylene	Ave	1.283	1.399	0.0500	21.8	20.0	9.1	20.0
Styrene	Ave	0.9093	0.9628	0.0500	21.2	20.0	5.9	20.0
1,1,2,2-Tetrachloroethane	Qua1		0.5546	0.0500	19.1	20.0	-4.7	20.0
o-Xylene	Ave	1.459	1.572	0.0500	21.5	20.0	7.7	20.0
1,2,3-Trichloropropane	Ave	0.4716	0.4540	0.0500	19.3	20.0	-3.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.0931	0.0814*	0.0910	17.5	20.0	-12.6	20.0
Isopropylbenzene	Ave	1.915	1.843	0.0500	19.2	20.0	-3.8	20.0
Bromobenzene	Ave	0.5047	0.4920	0.0500	19.5	20.0	-2.5	20.0
N-Propylbenzene	Lin1		2.270	0.0500	19.1	20.0	-4.5	20.0
2-Chlorotoluene	Ave	0.4171	0.4199	0.0500	20.1	20.0	0.7	20.0
4-Chlorotoluene	Ave	1.432	1.480	0.0500	20.7	20.0	3.3	20.0
1,3,5-Trimethylbenzene	Ave	1.440	1.499	0.0500	20.8	20.0	4.1	20.0
tert-Butylbenzene	Ave	0.8790	0.9128	0.0500	20.8	20.0	3.8	20.0
1,2,4-Trimethylbenzene	Ave	1.448	1.553	0.0500	21.4	20.0	7.2	20.0
1,3-Dichlorobenzene	Ave	0.9407	0.9171	0.0500	19.5	20.0	-2.5	20.0
sec-Butylbenzene	Ave	1.897	1.987	0.0500	21.0	20.0	4.8	20.0
1,4-Dichlorobenzene	Ave	1.695	1.508	0.0500	17.8	20.0	-11.0	20.0
4-Isopropyltoluene	Ave	2.644	2.601	0.0500	19.7	20.0	-1.6	20.0
1,2-Dichlorobenzene	Ave	1.460	1.320	0.0500	18.1	20.0	-9.6	20.0
n-Butylbenzene	Ave	2.392	2.377	0.0500	19.9	20.0	-0.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2110	0.1806	0.0630	17.1	20.0	-14.4	20.0
1,3,5-Trichlorobenzene	Ave	1.036	0.9074	0.0500	17.5	20.0	-12.4	20.0
1,2,4-Trichlorobenzene	Ave	0.4723	0.4167	0.0500	17.6	20.0	-11.8	20.0
Naphthalene	Lin1		1.382	0.0500	13.7	20.0	-31.3*	20.0
Hexachlorobutadiene	Ave	0.5172	0.4207	0.0500	16.3	20.0	-18.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCVIS 620-52137/3 Calibration Date: 08/15/2025 07:44

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-081425-03.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
1,2,3-Trichlorobenzene	Ave	0.7203	0.5861	0.0500	16.3	20.0	-18.6	20.0
Dibromofluoromethane (Surr)	Ave	0.3154	0.3397	0.0500	53.8	50.0	7.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4129	0.4436	0.0500	53.7	50.0	7.4	20.0
Toluene-d8 (Surr)	Ave	0.9541	0.9822	0.0500	51.5	50.0	3.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5442	0.5722	0.0500	52.6	50.0	5.1	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52091/7

Matrix: Water | Lab File ID: V4-081425-29.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 19:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	10	U	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52091/7

Matrix: Water | Lab File ID: V4-081425-29.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 19:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	1.0	U	1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52091/7

Matrix: Water | Lab File ID: V4-081425-29.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 19:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52137/6

Matrix: Water | Lab File ID: V4-081425-06.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 08:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	10	U	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52137/6

Matrix: Water | Lab File ID: V4-081425-06.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 08:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	0.497	J	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	1.0	U	1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52137/6

Matrix: Water | Lab File ID: V4-081425-06.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 08:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52091/4

Matrix: Water | Lab File ID: V4-081425-26.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 18:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	21.4		1.0	0.20
67-64-1	Acetone	22.0		10	0.90
107-13-1	Acrylonitrile	22.5		1.0	0.36
71-43-2	Benzene	20.3		1.0	0.25
108-86-1	Bromobenzene	21.9		1.0	0.40
74-97-5	Bromochloromethane	21.8		1.0	0.39
75-27-4	Bromodichloromethane	24.0		0.50	0.33
75-25-2	Bromoform	22.5		1.0	0.45
74-83-9	Bromomethane	18.0		2.0	0.63
78-93-3	2-Butanone (MEK)	20.8		2.0	0.58
104-51-8	n-Butylbenzene	24.4		1.0	0.45
135-98-8	sec-Butylbenzene	23.8		1.0	0.40
98-06-6	tert-Butylbenzene	24.1		1.0	0.40
75-15-0	Carbon disulfide	21.4		2.0	0.44
56-23-5	Carbon tetrachloride	30.1		1.0	0.25
108-90-7	Chlorobenzene	20.6		1.0	0.42
75-00-3	Chloroethane	18.6		2.0	0.41
67-66-3	Chloroform	21.4		1.0	0.30
74-87-3	Chloromethane	14.6		2.0	0.49
95-49-8	2-Chlorotoluene	22.7		1.0	0.43
106-43-4	4-Chlorotoluene	22.7		1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	22.0		2.0	0.51
124-48-1	Dibromochloromethane	20.5		0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	22.7		0.50	0.34
74-95-3	Dibromomethane	22.2		1.0	0.36
95-50-1	1,2-Dichlorobenzene	21.7		1.0	0.48
541-73-1	1,3-Dichlorobenzene	22.0		1.0	0.50
106-46-7	1,4-Dichlorobenzene	20.7		1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	18.2		2.0	0.29
75-34-3	1,1-Dichloroethane	20.6		1.0	0.36
107-06-2	1,2-Dichloroethane	21.1		1.0	0.26
75-35-4	1,1-Dichloroethene	21.1		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52091/4

Matrix: Water | Lab File ID: V4-081425-26.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 18:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	21.9		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	20.5		1.0	0.19
78-87-5	1,2-Dichloropropane	20.9		1.0	0.36
142-28-9	1,3-Dichloropropane	21.8		1.0	0.32
594-20-7	2,2-Dichloropropane	23.1		1.0	0.49
563-58-6	1,1-Dichloropropene	21.7		1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	21.7		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	21.9		0.50	0.37
100-41-4	Ethylbenzene	23.3		1.0	0.36
87-68-3	Hexachlorobutadiene	21.7		1.0	0.24
591-78-6	2-Hexanone (MBK)	20.4		2.0	0.69
98-82-8	Isopropylbenzene	22.0		1.0	0.38
99-87-6	4-Isopropyltoluene	23.8		1.0	0.43
1634-04-4	Methyl tert-butyl ether	20.7		1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	20.7		2.0	0.35
75-09-2	Methylene Chloride	20.5		2.0	0.54
91-20-3	Naphthalene	19.6		2.0	0.70
103-65-1	N-Propylbenzene	21.6		1.0	0.36
100-42-5	Styrene	24.3		1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	21.7		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	21.9		0.50	0.46
127-18-4	Tetrachloroethene	21.8		1.0	0.36
108-88-3	Toluene	21.3		1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	22.3		1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	22.9		1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	22.1		1.0	0.54
71-55-6	1,1,1-Trichloroethane	23.3		1.0	0.33
79-00-5	1,1,2-Trichloroethane	21.7		1.0	0.35
79-01-6	Trichloroethene	21.2		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	21.2		1.0	0.23
96-18-4	1,2,3-Trichloropropane	22.1		1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	24.0		1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52091/4

Matrix: Water | Lab File ID: V4-081425-26.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 18:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	23.9		1.0	0.45
75-01-4	Vinyl chloride	20.2		1.0	0.26
179601-23-1	m,p-Xylene	24.7		1.0	0.78
95-47-6	o-Xylene	24.2		1.0	0.43
109-99-9	Tetrahydrofuran	21.6		2.0	0.70
60-29-7	Ethyl ether	20.6		1.0	0.42
994-05-8	Tert-amyl methyl ether	20.4		1.0	0.26
637-92-3	Ethyl tert-butyl ether	21.5		1.0	0.29
108-20-3	di-Isopropyl ether	21.1		1.0	0.26
75-65-0	tert-Butanol	255		10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	21.2		5.0	0.81
64-17-5	Ethanol	595		200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52137/4

Matrix: Water | Lab File ID: V4-081425-04.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 08:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	20.7		1.0	0.20
67-64-1	Acetone	17.6		10	0.90
107-13-1	Acrylonitrile	19.1		1.0	0.36
71-43-2	Benzene	19.0		1.0	0.25
108-86-1	Bromobenzene	20.5		1.0	0.40
74-97-5	Bromochloromethane	20.4		1.0	0.39
75-27-4	Bromodichloromethane	24.0		0.50	0.33
75-25-2	Bromoform	21.0		1.0	0.45
74-83-9	Bromomethane	19.5		2.0	0.63
78-93-3	2-Butanone (MEK)	15.8		2.0	0.58
104-51-8	n-Butylbenzene	21.7		1.0	0.45
135-98-8	sec-Butylbenzene	21.7		1.0	0.40
98-06-6	tert-Butylbenzene	21.7		1.0	0.40
75-15-0	Carbon disulfide	19.4		2.0	0.44
56-23-5	Carbon tetrachloride	40.3		1.0	0.25
108-90-7	Chlorobenzene	19.9		1.0	0.42
75-00-3	Chloroethane	21.6		2.0	0.41
67-66-3	Chloroform	20.8		1.0	0.30
74-87-3	Chloromethane	15.9		2.0	0.49
95-49-8	2-Chlorotoluene	21.0		1.0	0.43
106-43-4	4-Chlorotoluene	21.7		1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	17.7		2.0	0.51
124-48-1	Dibromochloromethane	19.4		0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	20.8		0.50	0.34
74-95-3	Dibromomethane	20.3		1.0	0.36
95-50-1	1,2-Dichlorobenzene	19.6		1.0	0.48
541-73-1	1,3-Dichlorobenzene	20.1		1.0	0.50
106-46-7	1,4-Dichlorobenzene	19.3		1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	17.6		2.0	0.29
75-34-3	1,1-Dichloroethane	19.6		1.0	0.36
107-06-2	1,2-Dichloroethane	19.9		1.0	0.26
75-35-4	1,1-Dichloroethene	19.7		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52137/4

Matrix: Water | Lab File ID: V4-081425-04.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 08:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	20.2		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	18.9		1.0	0.19
78-87-5	1,2-Dichloropropane	19.3		1.0	0.36
142-28-9	1,3-Dichloropropane	20.0		1.0	0.32
594-20-7	2,2-Dichloropropane	22.7		1.0	0.49
563-58-6	1,1-Dichloropropene	20.2		1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	20.5		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	20.2		0.50	0.37
100-41-4	Ethylbenzene	21.4		1.0	0.36
87-68-3	Hexachlorobutadiene	18.8		1.0	0.24
591-78-6	2-Hexanone (MBK)	15.0		2.0	0.69
98-82-8	Isopropylbenzene	20.3		1.0	0.38
99-87-6	4-Isopropyltoluene	21.6		1.0	0.43
1634-04-4	Methyl tert-butyl ether	19.3		1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	14.7		2.0	0.35
75-09-2	Methylene Chloride	19.4		2.0	0.54
91-20-3	Naphthalene	15.1		2.0	0.70
103-65-1	N-Propylbenzene	19.8		1.0	0.36
100-42-5	Styrene	22.2		1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	20.9		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	19.2		0.50	0.46
127-18-4	Tetrachloroethene	20.2		1.0	0.36
108-88-3	Toluene	19.9		1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	18.2		1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	19.2		1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	19.4		1.0	0.54
71-55-6	1,1,1-Trichloroethane	24.4		1.0	0.33
79-00-5	1,1,2-Trichloroethane	20.0		1.0	0.35
79-01-6	Trichloroethene	20.8		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	21.0		1.0	0.23
96-18-4	1,2,3-Trichloropropane	19.3		1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	22.1		1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52137/4

Matrix: Water | Lab File ID: V4-081425-04.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 08:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	22.1		1.0	0.45
75-01-4	Vinyl chloride	18.8		1.0	0.26
179601-23-1	m,p-Xylene	22.6		1.0	0.78
95-47-6	o-Xylene	22.4		1.0	0.43
109-99-9	Tetrahydrofuran	17.5		2.0	0.70
60-29-7	Ethyl ether	18.7		1.0	0.42
994-05-8	Tert-amyl methyl ether	18.0		1.0	0.26
637-92-3	Ethyl tert-butyl ether	19.1		1.0	0.29
108-20-3	di-Isopropyl ether	19.2		1.0	0.26
75-65-0	tert-Butanol	172		10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	18.5		5.0	0.81
64-17-5	Ethanol	431		200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52091/5

Matrix: Water | Lab File ID: V4-081425-27.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 18:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	21.2		1.0	0.20
67-64-1	Acetone	20.0		10	0.90
107-13-1	Acrylonitrile	23.4		1.0	0.36
71-43-2	Benzene	20.0		1.0	0.25
108-86-1	Bromobenzene	21.8		1.0	0.40
74-97-5	Bromochloromethane	21.8		1.0	0.39
75-27-4	Bromodichloromethane	23.5		0.50	0.33
75-25-2	Bromoform	22.1		1.0	0.45
74-83-9	Bromomethane	18.1		2.0	0.63
78-93-3	2-Butanone (MEK)	20.4		2.0	0.58
104-51-8	n-Butylbenzene	24.2		1.0	0.45
135-98-8	sec-Butylbenzene	23.5		1.0	0.40
98-06-6	tert-Butylbenzene	23.6		1.0	0.40
75-15-0	Carbon disulfide	20.7		2.0	0.44
56-23-5	Carbon tetrachloride	30.1		1.0	0.25
108-90-7	Chlorobenzene	20.6		1.0	0.42
75-00-3	Chloroethane	18.7		2.0	0.41
67-66-3	Chloroform	21.2		1.0	0.30
74-87-3	Chloromethane	14.5		2.0	0.49
95-49-8	2-Chlorotoluene	22.3		1.0	0.43
106-43-4	4-Chlorotoluene	22.1		1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	22.2		2.0	0.51
124-48-1	Dibromochloromethane	20.5		0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	22.9		0.50	0.34
74-95-3	Dibromomethane	22.1		1.0	0.36
95-50-1	1,2-Dichlorobenzene	21.5		1.0	0.48
541-73-1	1,3-Dichlorobenzene	21.6		1.0	0.50
106-46-7	1,4-Dichlorobenzene	20.3		1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	18.1		2.0	0.29
75-34-3	1,1-Dichloroethane	20.5		1.0	0.36
107-06-2	1,2-Dichloroethane	21.0		1.0	0.26
75-35-4	1,1-Dichloroethene	21.1		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52091/5

Matrix: Water | Lab File ID: V4-081425-27.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 18:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	21.4		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	20.7		1.0	0.19
78-87-5	1,2-Dichloropropane	20.6		1.0	0.36
142-28-9	1,3-Dichloropropane	21.7		1.0	0.32
594-20-7	2,2-Dichloropropane	22.8		1.0	0.49
563-58-6	1,1-Dichloropropene	21.7		1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	21.9		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	22.2		0.50	0.37
100-41-4	Ethylbenzene	23.3		1.0	0.36
87-68-3	Hexachlorobutadiene	21.6		1.0	0.24
591-78-6	2-Hexanone (MBK)	18.5		2.0	0.69
98-82-8	Isopropylbenzene	21.2		1.0	0.38
99-87-6	4-Isopropyltoluene	23.2		1.0	0.43
1634-04-4	Methyl tert-butyl ether	21.4		1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	20.7		2.0	0.35
75-09-2	Methylene Chloride	20.1		2.0	0.54
91-20-3	Naphthalene	19.5		2.0	0.70
103-65-1	N-Propylbenzene	21.2		1.0	0.36
100-42-5	Styrene	24.1		1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	21.7		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	22.3		0.50	0.46
127-18-4	Tetrachloroethene	21.6		1.0	0.36
108-88-3	Toluene	20.9		1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	22.3		1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	23.0		1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	22.1		1.0	0.54
71-55-6	1,1,1-Trichloroethane	23.5		1.0	0.33
79-00-5	1,1,2-Trichloroethane	22.1		1.0	0.35
79-01-6	Trichloroethene	21.5		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	20.6		1.0	0.23
96-18-4	1,2,3-Trichloropropane	22.0		1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	23.8		1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52091/5

Matrix: Water | Lab File ID: V4-081425-27.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/14/2025 18:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52091 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	23.8		1.0	0.45
75-01-4	Vinyl chloride	19.2		1.0	0.26
179601-23-1	m,p-Xylene	24.4		1.0	0.78
95-47-6	o-Xylene	23.8		1.0	0.43
109-99-9	Tetrahydrofuran	21.7		2.0	0.70
60-29-7	Ethyl ether	20.7		1.0	0.42
994-05-8	Tert-amyl methyl ether	20.5		1.0	0.26
637-92-3	Ethyl tert-butyl ether	21.7		1.0	0.29
108-20-3	di-Isopropyl ether	20.8		1.0	0.26
75-65-0	tert-Butanol	252		10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	20.7		5.0	0.81
64-17-5	Ethanol	523		200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52137/5

Matrix: Water | Lab File ID: V4-081425-05.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 08:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	19.5		1.0	0.20
67-64-1	Acetone	14.2		10	0.90
107-13-1	Acrylonitrile	19.1		1.0	0.36
71-43-2	Benzene	18.7		1.0	0.25
108-86-1	Bromobenzene	20.3		1.0	0.40
74-97-5	Bromochloromethane	20.5		1.0	0.39
75-27-4	Bromodichloromethane	23.1		0.50	0.33
75-25-2	Bromoform	20.8		1.0	0.45
74-83-9	Bromomethane	19.2		2.0	0.63
78-93-3	2-Butanone (MEK)	14.0		2.0	0.58
104-51-8	n-Butylbenzene	21.5		1.0	0.45
135-98-8	sec-Butylbenzene	21.3		1.0	0.40
98-06-6	tert-Butylbenzene	21.3		1.0	0.40
75-15-0	Carbon disulfide	18.9		2.0	0.44
56-23-5	Carbon tetrachloride	40.0		1.0	0.25
108-90-7	Chlorobenzene	19.7		1.0	0.42
75-00-3	Chloroethane	21.3		2.0	0.41
67-66-3	Chloroform	20.2		1.0	0.30
74-87-3	Chloromethane	15.4		2.0	0.49
95-49-8	2-Chlorotoluene	20.7		1.0	0.43
106-43-4	4-Chlorotoluene	21.1		1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	18.5		2.0	0.51
124-48-1	Dibromochloromethane	19.4		0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	20.3		0.50	0.34
74-95-3	Dibromomethane	20.0		1.0	0.36
95-50-1	1,2-Dichlorobenzene	19.4		1.0	0.48
541-73-1	1,3-Dichlorobenzene	20.1		1.0	0.50
106-46-7	1,4-Dichlorobenzene	18.8		1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	17.0		2.0	0.29
75-34-3	1,1-Dichloroethane	19.3		1.0	0.36
107-06-2	1,2-Dichloroethane	19.4		1.0	0.26
75-35-4	1,1-Dichloroethene	19.3		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52137/5

Matrix: Water | Lab File ID: V4-081425-05.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 08:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	20.2		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	19.8		1.0	0.19
78-87-5	1,2-Dichloropropane	19.3		1.0	0.36
142-28-9	1,3-Dichloropropane	19.9		1.0	0.32
594-20-7	2,2-Dichloropropane	22.5		1.0	0.49
563-58-6	1,1-Dichloropropene	20.4		1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	20.6		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	20.2		0.50	0.37
100-41-4	Ethylbenzene	21.3		1.0	0.36
87-68-3	Hexachlorobutadiene	18.0		1.0	0.24
591-78-6	2-Hexanone (MBK)	14.0		2.0	0.69
98-82-8	Isopropylbenzene	19.9		1.0	0.38
99-87-6	4-Isopropyltoluene	21.3		1.0	0.43
1634-04-4	Methyl tert-butyl ether	19.7		1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	15.0		2.0	0.35
75-09-2	Methylene Chloride	19.3		2.0	0.54
91-20-3	Naphthalene	15.3		2.0	0.70
103-65-1	N-Propylbenzene	19.9		1.0	0.36
100-42-5	Styrene	22.2		1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	20.5		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	19.4		0.50	0.46
127-18-4	Tetrachloroethene	20.0		1.0	0.36
108-88-3	Toluene	19.8		1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	17.9		1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	19.1		1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	19.2		1.0	0.54
71-55-6	1,1,1-Trichloroethane	24.5		1.0	0.33
79-00-5	1,1,2-Trichloroethane	19.8		1.0	0.35
79-01-6	Trichloroethene	19.6		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	20.4		1.0	0.23
96-18-4	1,2,3-Trichloropropane	19.4		1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	21.9		1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52137/5

Matrix: Water | Lab File ID: V4-081425-05.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2025 08:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52137 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	21.8		1.0	0.45
75-01-4	Vinyl chloride	18.4		1.0	0.26
179601-23-1	m,p-Xylene	22.7		1.0	0.78
95-47-6	o-Xylene	22.3		1.0	0.43
109-99-9	Tetrahydrofuran	17.7		2.0	0.70
60-29-7	Ethyl ether	17.9		1.0	0.42
994-05-8	Tert-amyl methyl ether	18.1		1.0	0.26
637-92-3	Ethyl tert-butyl ether	19.5		1.0	0.29
108-20-3	di-Isopropyl ether	19.3		1.0	0.26
75-65-0	tert-Butanol	179		10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	18.3		5.0	0.81
64-17-5	Ethanol	372		200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Instrument ID: HPV4 Start Date: 08/07/2025 08:22

Analysis Batch Number: 51723 End Date: 08/07/2025 16:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 620-51723/2		08/07/2025 08:22	1	V4-080725-02.D	DB-VRX 0.18(mm)
IC 620-51723/3		08/07/2025 08:50	1	V4-080725-03.D	DB-VRX 0.18(mm)
IC 620-51723/4		08/07/2025 09:12	1	V4-080725-04.D	DB-VRX 0.18(mm)
IC 620-51723/5		08/07/2025 09:35	1	V4-080725-05.D	DB-VRX 0.18(mm)
IC 620-51723/6		08/07/2025 09:58	1	V4-080725-06.D	DB-VRX 0.18(mm)
IC 620-51723/7		08/07/2025 10:21	1	V4-080725-07.D	DB-VRX 0.18(mm)
ICIS 620-51723/8		08/07/2025 10:44	1	V4-080725-08.D	DB-VRX 0.18(mm)
IC 620-51723/9		08/07/2025 11:07	1	V4-080725-09.D	DB-VRX 0.18(mm)
IC 620-51723/10		08/07/2025 11:30	1	V4-080725-10.D	DB-VRX 0.18(mm)
IC 620-51723/11		08/07/2025 11:53	1	V4-080725-11.D	DB-VRX 0.18(mm)
ICV 620-51723/16		08/07/2025 15:14	1	V4-080725-16.D	DB-VRX 0.18(mm)
ZZZZZ (QC)		08/07/2025 15:37	1		DB-VRX 0.18(mm)
ZZZZZ (QC)		08/07/2025 16:00	1		DB-VRX 0.18(mm)
ZZZZZ (QC)		08/07/2025 16:46	1		DB-VRX 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Instrument ID: HPV4 Start Date: 08/14/2025 17:31

Analysis Batch Number: 52091 End Date: 08/15/2025 03:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 620-52091/2		08/14/2025 17:31	1	V4-081425-24.D	DB-VRX 0.18(mm)
CCVIS 620-52091/3		08/14/2025 17:54	1	V4-081425-25.D	DB-VRX 0.18(mm)
LCS 620-52091/4		08/14/2025 18:18	1	V4-081425-26.D	DB-VRX 0.18(mm)
LCSD 620-52091/5		08/14/2025 18:42	1	V4-081425-27.D	DB-VRX 0.18(mm)
MB 620-52091/7		08/14/2025 19:29	1	V4-081425-29.D	DB-VRX 0.18(mm)
620-28538-10	TB/250812	08/14/2025 19:52	1	V4-081425-30.D	DB-VRX 0.18(mm)
620-28538-1	MW-104I/250812	08/14/2025 20:15	1	V4-081425-31.D	DB-VRX 0.18(mm)
620-28538-2	MW-104E/250812	08/14/2025 20:38	1	V4-081425-32.D	DB-VRX 0.18(mm)
620-28538-3	MW-101I/250812	08/14/2025 21:01	1	V4-081425-33.D	DB-VRX 0.18(mm)
620-28538-4	MW-100I/250812	08/14/2025 21:24	1	V4-081425-34.D	DB-VRX 0.18(mm)
620-28538-5	MW-103ER/250812	08/14/2025 21:47	1	V4-081425-35.D	DB-VRX 0.18(mm)
620-28538-6	MW-103B/250812	08/14/2025 22:10	1	V4-081425-36.D	DB-VRX 0.18(mm)
620-28538-7	MW-102ER/250812	08/14/2025 22:33	1	V4-081425-37.D	DB-VRX 0.18(mm)
620-28538-8	DUP/250812	08/14/2025 22:56	1	V4-081425-38.D	DB-VRX 0.18(mm)
620-28538-9	FB/250812	08/14/2025 23:19	1	V4-081425-39.D	DB-VRX 0.18(mm)
ZZZZZ (Client)		08/14/2025 23:42	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 00:05	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 00:28	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 00:50	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 01:13	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 01:36	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 01:59	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 02:22	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 02:45	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 03:08	1		DB-VRX 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Instrument ID: HPV4 Start Date: 08/15/2025 07:21

Analysis Batch Number: 52137 End Date: 08/15/2025 16:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 620-52137/2		08/15/2025 07:21	1	V4-081425-02.D	DB-VRX 0.18(mm)
CCVIS 620-52137/3		08/15/2025 07:44	1	V4-081425-03.D	DB-VRX 0.18(mm)
LCS 620-52137/4		08/15/2025 08:06	1	V4-081425-04.D	DB-VRX 0.18(mm)
LCSD 620-52137/5		08/15/2025 08:29	1	V4-081425-05.D	DB-VRX 0.18(mm)
MB 620-52137/6		08/15/2025 08:52	1	V4-081425-06.D	DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 09:15	1000		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 09:38	10		DB-VRX 0.18(mm)
620-28538-1 DL	MW-104I/250812 DL	08/15/2025 10:01	10	V4-081425-09.D	DB-VRX 0.18(mm)
620-28538-3 DL	MW-101I/250812 DL	08/15/2025 10:24	10	V4-081425-10.D	DB-VRX 0.18(mm)
620-28538-4 DL	MW-100I/250812 DL	08/15/2025 10:47	10	V4-081425-11.D	DB-VRX 0.18(mm)
620-28538-8 DL	DUP/250812 DL	08/15/2025 11:10	10	V4-081425-12.D	DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 11:33	10		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 11:56	10		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 12:18	20		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 12:41	20		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 13:04	20		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 13:27	20		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 13:50	20		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 14:13	20		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 14:36	10		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 14:59	10		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 15:22	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 15:45	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 16:08	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/15/2025 16:31	1		DB-VRX 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Batch Number: 51723 Batch Start Date: 08/07/25 08:22 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date: 08/07/25 20:22

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	VO8260BFB 00010	VO8260IS/SS 00026	VO8260Primary 00143	VO8260Second 00123
BFB 620-51723/2		8260C			5 mL	5 mL	5 uL	5 uL		
IC 620-51723/3		8260C			5 mL	5 mL		5 uL	0.5 uL	
IC 620-51723/4		8260C			5 mL	5 mL		5 uL	1 uL	
IC 620-51723/5		8260C			5 mL	5 mL		5 uL	2 uL	
IC 620-51723/6		8260C			5 mL	5 mL		5 uL	5 uL	
IC 620-51723/7		8260C			5 mL	5 mL		5 uL	10 uL	
ICIS 620-51723/8		8260C			5 mL	5 mL		5 uL	20 uL	
IC 620-51723/9		8260C			5 mL	5 mL		5 uL	40 uL	
IC 620-51723/10		8260C			5 mL	5 mL		5 uL	50 uL	
IC 620-51723/11		8260C			5 mL	5 mL		5 uL	100 uL	
ICV 620-51723/16		8260C			5 mL	5 mL		5 uL		20 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	VOTCL_EM/VA_S 00002					
BFB 620-51723/2		8260C								
IC 620-51723/3		8260C								
IC 620-51723/4		8260C								
IC 620-51723/5		8260C								
IC 620-51723/6		8260C								
IC 620-51723/7		8260C								
ICIS 620-51723/8		8260C								
IC 620-51723/9		8260C								
IC 620-51723/10		8260C								
IC 620-51723/11		8260C								
ICV 620-51723/16		8260C			20 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 Rhode Island Job No.: 620-28538-1

SDG No.:

Batch Number: 51723 Batch Start Date: 08/07/25 08:22 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date: 08/07/25 20:22

Batch Notes	
pH Indicator ID	141866
Residual Chlorine Indicator ID	141875
Pipette/Syringe/Dispenser ID	V2UL01 V5UL01 V25UL01 V50UL01 V100UL01
Vial Lot Number	0102701K

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 Rhode Island Job No.: 620-28538-1

SDG No.:

Batch Number: 52091 Batch Start Date: 08/14/25 17:31 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date: 08/15/25 05:31

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	VO8260BFB 00010
BFB 620-52091/2		8260C			5 mL	5 mL				5 uL
CCVIS 620-52091/3		8260C			5 mL	5 mL	< 2 SU			
LCS 620-52091/4		8260C			5 mL	5 mL	< 2 SU			
LCSD 620-52091/5		8260C			5 mL	5 mL	< 2 SU			
MB 620-52091/7		8260C			5 mL	5 mL	< 2 SU			
620-28538-A-10	TB/250812	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28538-A-1	MW-104I/250812	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28538-A-2	MW-104E/250812	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28538-A-3	MW-101I/250812	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28538-A-4	MW-100I/250812	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28538-A-5	MW-10BER/250812	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28538-A-6	MW-103B/250812	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28538-A-7	MW-102ER/250812	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28538-A-8	DUP/250812	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28538-A-9	FB/250812	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	VO8260IS/SS 00026	VO8260Primary 00143				
BFB 620-52091/2		8260C			5 uL					
CCVIS 620-52091/3		8260C			5 uL	20 uL				
LCS 620-52091/4		8260C			5 uL	20 uL				
LCSD 620-52091/5		8260C			5 uL	20 uL				
MB 620-52091/7		8260C			5 uL					
620-28538-A-10	TB/250812	8260C	Water	T	5 uL					
620-28538-A-1	MW-104I/250812	8260C	Water	T	5 uL					
620-28538-A-2	MW-104E/250812	8260C	Water	T	5 uL					
620-28538-A-3	MW-101I/250812	8260C	Water	T	5 uL					
620-28538-A-4	MW-100I/250812	8260C	Water	T	5 uL					
620-28538-A-5	MW-10BER/250812	8260C	Water	T	5 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 Rhode Island Job No.: 620-28538-1

SDG No.:

Batch Number: 52091 Batch Start Date: 08/14/25 17:31 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date: 08/15/25 05:31

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	VO8260IS/SS 00026	VO8260Primary 00143				
620-28538-A-6	MW-103B/250812	8260C	Water	T	5 uL					
620-28538-A-7	MW-102ER/250812	8260C	Water	T	5 uL					
620-28538-A-8	DUP/250812	8260C	Water	T	5 uL					
620-28538-A-9	FB/250812	8260C	Water	T	5 uL					

Batch Notes	
pH Indicator ID	141866
Residual Chlorine Indicator ID	141875
Pipette/Syringe/Dispenser ID	V50uL01
Vial Lot Number	0102701K

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 Rhode Island Job No.: 620-28538-1

SDG No.:

Batch Number: 52137 Batch Start Date: 08/15/25 07:21 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date: 08/15/25 19:21

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	VO8260BFB 00010
BFB 620-52137/2		8260C			5 mL	5 mL				5 uL
CCVIS 620-52137/3		8260C			5 mL	5 mL	< 2 SU			
LCS 620-52137/4		8260C			5 mL	5 mL	< 2 SU			
LCSD 620-52137/5		8260C			5 mL	5 mL	< 2 SU			
MB 620-52137/6		8260C			5 mL	5 mL	< 2 SU			
620-28538-C-1	MW-104I/250812	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28538-C-3	MW-101I/250812	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28538-C-4	MW-100I/250812	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28538-C-8	DUP/250812	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	VO8260IS/SS 00026	VO8260Primary 00143				
BFB 620-52137/2		8260C			5 uL					
CCVIS 620-52137/3		8260C			5 uL	20 uL				
LCS 620-52137/4		8260C			5 uL	20 uL				
LCSD 620-52137/5		8260C			5 uL	20 uL				
MB 620-52137/6		8260C			5 uL					
620-28538-C-1	MW-104I/250812	8260C	Water	T	5 uL					
620-28538-C-3	MW-101I/250812	8260C	Water	T	5 uL					
620-28538-C-4	MW-100I/250812	8260C	Water	T	5 uL					
620-28538-C-8	DUP/250812	8260C	Water	T	5 uL					

Batch Notes	
pH Indicator ID	141866
Residual Chlorine Indicator ID	141875
Pipette/Syringe/Dispenser ID	50UL01 v25UL01
Vial Lot Number	0102701K

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 Rhode Island Job No.: 620-28538-1

SDG No.:

Batch Number: 52137 Batch Start Date: 08/15/25 07:21 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date: 08/15/25 19:21

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.

8270D_SIM_MS_ID

Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): HP-5MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DXE #
MW-100I/250812	620-28538-4	13
MW-103ER/250812	620-28538-5	14
MW-103B/250812	620-28538-6	14
MW-102ER/250812	620-28538-7	11
DUP/250812	620-28538-8	11
FB/250812	620-28538-9	12
	MB 620-52299/1-A	14
	LCS 620-52299/2-A	12
	LCSD 620-52299/3-A	12

	QC LIMITS
DXE = 1,4-Dioxane-d8	10-150

Column to be used to flag recovery values

FORM II 8270D SIM ID

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S8-082025-04.D

Lab ID: LCS 620-52299/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	4.00	5.57	139	40-140	
1,4-Dioxane-d8	4.00	0.481	12	10-150	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S8-082025-05.D

Lab ID: LCSD 620-52299/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	4.00	4.98	125	11	30	40-140	
1,4-Dioxane-d8	4.00	0.482	12			10-150	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab File ID: S8-082025-03.D Lab Sample ID: MB 620-52299/1-A

Matrix: Water Date Extracted: 08/18/2025 18:42

Instrument ID: HPS8 Date Analyzed: 08/20/2025 11:03

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 620-52299/2-A	S8-082025-04.D	08/20/2025 11:21
	LCSD 620-52299/3-A	S8-082025-05.D	08/20/2025 11:38
MW-100I/250812	620-28538-4	S8-082025-11.D	08/20/2025 13:23
MW-103ER/250812	620-28538-5	S8-082025-12.D	08/20/2025 13:41
MW-102ER/250812	620-28538-7	S8-082025-14.D	08/20/2025 14:16
DUP/250812	620-28538-8	S8-082025-15.D	08/20/2025 14:34
FB/250812	620-28538-9	S8-082025-16.D	08/20/2025 14:52
MW-103B/250812	620-28538-6	S8-082025-19.D	08/20/2025 15:44

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab File ID: S8-052825-06.D DFTPP Injection Date: 05/28/2025

Instrument ID: HPS8 DFTPP Injection Time: 11:48

Analysis Batch No.: 48403

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	54.9	
70	Less than 2% of mass 69	0.4	(0.8) 1
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.3	
365	Greater than 1% of mass 198	4.2	
441	present but less than 24% of mass 442	14.3	(16.1) 2
442	Greater than 50% of mass 198	88.8	
443	15-24% of mass 442	17.6	(19.8) 2

1-Value is % mass 69 2-Value is % mass 442

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 620-48403/2	S8-052825-07.	05/28/2025	12:08
	IC 620-48403/3	S8-052825-08.	05/28/2025	12:26
	IC 620-48403/4	S8-052825-09.	05/28/2025	12:44
	IC 620-48403/5	S8-052825-10.	05/28/2025	13:28
	ICIS 620-48403/6	S8-052825-11.	05/28/2025	13:46
	IC 620-48403/7	S8-052825-12.	05/28/2025	14:05
	IC 620-48403/8	S8-052825-13.	05/28/2025	14:23
	ICV 620-48403/9	S8-052825-14.	05/28/2025	14:41

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab File ID: S8-082025-01.D DFTPP Injection Date: 08/20/2025

Instrument ID: HPS8 DFTPP Injection Time: 10:22

Analysis Batch No.: 52418

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of mass 69	0.4	(0.9) 1
69	Mass 69 Relative abundance	45.3	
70	Less than 2% of mass 69	0.2	(0.4) 1
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.9	
365	Greater than 1% of mass 198	2.8	
441	present but less than 24% of mass 442	7.5	(15.8) 2
442	Greater than 50% of mass 198	47.8	
443	15-24% of mass 442	9.0	(18.8) 2

1-Value is % mass 69 2-Value is % mass 442

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 620-52418/2	S8-082025-02.	08/20/2025	10:42
	MB 620-52299/1-A	S8-082025-03.	08/20/2025	11:03
	LCS 620-52299/2-A	S8-082025-04.	08/20/2025	11:21
	LCSD 620-52299/3-A	S8-082025-05.	08/20/2025	11:38
MW-100I/250812	620-28538-4	S8-082025-11.	08/20/2025	13:23
MW-103ER/250812	620-28538-5	S8-082025-12.	08/20/2025	13:41
MW-102ER/250812	620-28538-7	S8-082025-14.	08/20/2025	14:16
DUP/250812	620-28538-8	S8-082025-15.	08/20/2025	14:34
FB/250812	620-28538-9	S8-082025-16.	08/20/2025	14:52
MW-103B/250812	620-28538-6	S8-082025-19.	08/20/2025	15:44

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

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Sample No.: ICIS 620-48403/6 Date Analyzed: 05/28/2025 13:46

Instrument ID: HPS8 GC Column: HP-5MS ID: 0.25(mm)

Lab File ID (Standard): S8-052825-11.D Heated Purge: (Y/N) N

Calibration ID: 10043

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		64588	5.91				
UPPER LIMIT		129176	6.41				
LOWER LIMIT		32294	5.41				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 620-48403/9		87851	5.94				

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 SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Sample No.: CCVIS 620-52418/2 Date Analyzed: 08/20/2025 10:42

Instrument ID: HPS8 GC Column: HP-5MS ID: 0.25(mm)

Lab File ID (Standard): S8-082025-02.D Heated Purge: (Y/N) N

Calibration ID: 10043

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		69968	5.72				
UPPER LIMIT		139936	6.22				
LOWER LIMIT		34984	5.22				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 620-52299/1-A		95724	5.70				
LCS 620-52299/2-A		105283	5.70				
LCSD 620-52299/3-A		104327	5.68				
620-28538-4	MW-100I/250812	99409	5.66				
620-28538-5	MW-103ER/250812	98845	5.66				
620-28538-7	MW-102ER/250812	106466	5.64				
620-28538-8	DUP/250812	103710	5.64				
620-28538-9	FB/250812	106294	5.64				
620-28538-6	MW-103B/250812	92512	5.66				

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 SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-100I/250812 | Lab Sample ID: 620-28538-4

Matrix: Water | Lab File ID: S8-082025-11.D

Analysis Method: 8270D SIM ID | Date Collected: 08/12/2025 12:15

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 255(mL) | Date Analyzed: 08/20/2025 13:23

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	2.3		0.20	0.19

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	13		10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-103ER/250812 Lab Sample ID: 620-28538-5

Matrix: Water Lab File ID: S8-082025-12.D

Analysis Method: 8270D SIM ID Date Collected: 08/12/2025 13:05

Extract. Method: 3510C Date Extracted: 08/18/2025 18:42

Sample wt/vol: 230(mL) Date Analyzed: 08/20/2025 13:41

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 52418 Units: ug/L

Preparation Batch No.: 52299 Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	3.4		0.22	0.21

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	14		10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-103B/250812 | Lab Sample ID: 620-28538-6

Matrix: Water | Lab File ID: S8-082025-19.D

Analysis Method: 8270D SIM ID | Date Collected: 08/12/2025 14:30

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 255(mL) | Date Analyzed: 08/20/2025 15:44

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	24		0.98	0.93

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	14		10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-102ER/250812 | Lab Sample ID: 620-28538-7

Matrix: Water | Lab File ID: S8-082025-14.D

Analysis Method: 8270D SIM ID | Date Collected: 08/12/2025 14:45

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 230(mL) | Date Analyzed: 08/20/2025 14:16

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.5		0.22	0.21

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	11		10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: DUP/250812 | Lab Sample ID: 620-28538-8

Matrix: Water | Lab File ID: S8-082025-15.D

Analysis Method: 8270D SIM ID | Date Collected: 08/12/2025 00:00

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 260(mL) | Date Analyzed: 08/20/2025 14:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	2.2		0.19	0.18

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	11		10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: FB/250812 | Lab Sample ID: 620-28538-9

Matrix: Water | Lab File ID: S8-082025-16.D

Analysis Method: 8270D SIM ID | Date Collected: 08/12/2025 15:00

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 255(mL) | Date Analyzed: 08/20/2025 14:52

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.20	U	0.20	0.19

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	12		10-150

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1 Analy Batch No.: 48403

SDG No.:

Instrument ID: HPS8 GC Column: HP-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2025 12:08 Calibration End Date: 05/28/2025 14:23 Calibration ID: 10043

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-48403/2	S8-052825-07.D
Level 2	IC 620-48403/3	S8-052825-08.D
Level 3	IC 620-48403/4	S8-052825-09.D
Level 4	IC 620-48403/5	S8-052825-10.D
Level 5	ICIS 620-48403/6	S8-052825-11.D
Level 6	IC 620-48403/7	S8-052825-12.D
Level 7	IC 620-48403/8	S8-052825-13.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 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.9385 1.1172	1.0737 1.0698	1.4313	1.3259	1.2148	AveID		1.1673				14.4		20.0			
1,4-Dioxane-d8	0.3966 0.4595	0.3997 0.3192	0.3276	0.3417	0.4209	Ave		0.3807				13.8		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 SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1 | Analy Batch No.: 48403

SDG No.:

Instrument ID: HPS8 | GC Column: HP-5MS | ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2025 12:08 | Calibration End Date: 05/28/2025 14:23 | Calibration ID: 10043

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-48403/2	S8-052825-07.D
Level 2	IC 620-48403/3	S8-052825-08.D
Level 3	IC 620-48403/4	S8-052825-09.D
Level 4	IC 620-48403/5	S8-052825-10.D
Level 5	ICIS 620-48403/6	S8-052825-11.D
Level 6	IC 620-48403/7	S8-052825-12.D
Level 7	IC 620-48403/8	S8-052825-13.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane		AveID	4995 303191	11253 601950	31255	63869	132448	0.0502 2.51	0.100 5.02	0.251	0.502	1.00
1,4-Dioxane-d8	DCBd4	Ave	105965 108067	104335 112034	86954	95910	108543	1.00 1.00	1.00 1.00	1.00	1.00	1.00

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1 Analy Batch No.: 48403

SDG No.:

Instrument ID: HPS8 GC Column: HP-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2025 12:08 Calibration End Date: 05/28/2025 14:23 Calibration ID: 10043

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-48403/2	S8-052825-07.D
Level 2	IC 620-48403/3	S8-052825-08.D
Level 3	IC 620-48403/4	S8-052825-09.D
Level 4	IC 620-48403/5	S8-052825-10.D
Level 5	ICIS 620-48403/6	S8-052825-11.D
Level 6	IC 620-48403/7	S8-052825-12.D
Level 7	IC 620-48403/8	S8-052825-13.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dioxane-d8	4.2						30					

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

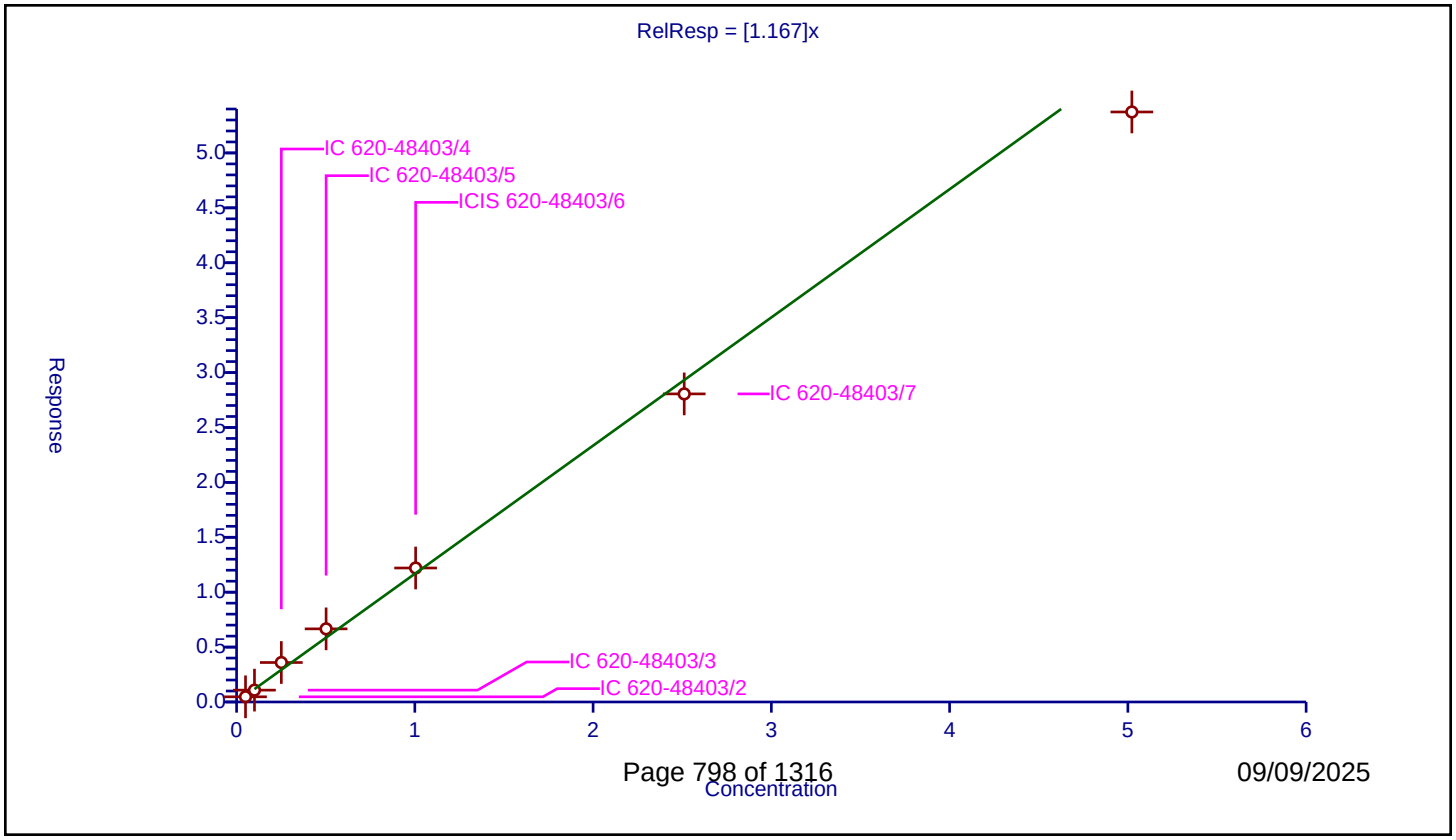
Curve Coefficients

Intercept:	0
Slope:	1.167

Error Coefficients

Relative Standard Deviation:	14.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-48403/2	0.050225	0.047138	1.0	105965.0	0.938541	Y
2	IC 620-48403/3	0.10045	0.107855	1.0	104335.0	1.073713	Y
3	IC 620-48403/4	0.251125	0.359443	1.0	86954.0	1.431331	Y
4	IC 620-48403/5	0.50225	0.665926	1.0	95910.0	1.325886	Y
5	ICIS 620-48403/6	1.0045	1.220235	1.0	108543.0	1.214769	Y
6	IC 620-48403/7	2.51125	2.805584	1.0	108067.0	1.117206	Y
7	IC 620-48403/8	5.0225	5.372923	1.0	112034.0	1.069771	Y



09/09/2025

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab Sample ID: ICV 620-48403/9 Calibration Date: 05/28/2025 14:41

Instrument ID: HPS8 Calib Start Date: 05/28/2025 12:08

GC Column: HP-5MS ID: 0.25(mm) Calib End Date: 05/28/2025 14:23

Lab File ID: S8-052825-14.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.167	1.179		1.01	1.00	1.0	20.0
1,4-Dioxane-d8	Ave	0.3807	0.3051		0.801	1.00	-19.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCVIS 620-52418/2 Calibration Date: 08/20/2025 10:42

Instrument ID: HPS8 Calib Start Date: 05/28/2025 12:08

GC Column: HP-5MS ID: 0.25(mm) Calib End Date: 05/28/2025 14:23

Lab File ID: S8-082025-02.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.167	1.237		1.06	1.00	6.0	20.0
1,4-Dioxane-d8	Ave	0.3807	0.4253		1.12	1.00	11.7	20.0

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52299/1-A

Matrix: Water | Lab File ID: S8-082025-03.D

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 250(mL) | Date Analyzed: 08/20/2025 11:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.20	U	0.20	0.19

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	14		10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52299/2-A

Matrix: Water | Lab File ID: S8-082025-04.D

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 250(mL) | Date Analyzed: 08/20/2025 11:21

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	5.57		0.20	0.19

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	12		10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52299/3-A

Matrix: Water | Lab File ID: S8-082025-05.D

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 250(mL) | Date Analyzed: 08/20/2025 11:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	4.98		0.20	0.19

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	12		10-150

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Instrument ID: HPS8 Start Date: 05/28/2025 11:48

Analysis Batch Number: 48403 End Date: 05/28/2025 18:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 620-48403/1		05/28/2025 11:48	1	S8-052825-06.D	HP-5MS 0.25(mm)
IC 620-48403/2		05/28/2025 12:08	1	S8-052825-07.D	HP-5MS 0.25(mm)
IC 620-48403/3		05/28/2025 12:26	1	S8-052825-08.D	HP-5MS 0.25(mm)
IC 620-48403/4		05/28/2025 12:44	1	S8-052825-09.D	HP-5MS 0.25(mm)
IC 620-48403/5		05/28/2025 13:28	1	S8-052825-10.D	HP-5MS 0.25(mm)
ICIS 620-48403/6		05/28/2025 13:46	1	S8-052825-11.D	HP-5MS 0.25(mm)
IC 620-48403/7		05/28/2025 14:05	1	S8-052825-12.D	HP-5MS 0.25(mm)
IC 620-48403/8		05/28/2025 14:23	1	S8-052825-13.D	HP-5MS 0.25(mm)
ICV 620-48403/9		05/28/2025 14:41	1	S8-052825-14.D	HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 15:42	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 16:00	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 16:18	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 16:36	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 16:54	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 17:12	1		HP-5MS 0.25(mm)
ZZZZZ (QC)		05/28/2025 17:29	1		HP-5MS 0.25(mm)
ZZZZZ (QC)		05/28/2025 17:47	1		HP-5MS 0.25(mm)
ZZZZZ (QC)		05/28/2025 18:05	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 18:23	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 18:41	1		HP-5MS 0.25(mm)

8270D SIM ID

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Instrument ID: HPS8 Start Date: 08/20/2025 10:22

Analysis Batch Number: 52418 End Date: 08/20/2025 16:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 620-52418/1		08/20/2025 10:22	1	S8-082025-01.D	HP-5MS 0.25(mm)
CCVIS 620-52418/2		08/20/2025 10:42	1	S8-082025-02.D	HP-5MS 0.25(mm)
MB 620-52299/1-A		08/20/2025 11:03	1	S8-082025-03.D	HP-5MS 0.25(mm)
LCS 620-52299/2-A		08/20/2025 11:21	1	S8-082025-04.D	HP-5MS 0.25(mm)
LCSD 620-52299/3-A		08/20/2025 11:38	1	S8-082025-05.D	HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 11:56	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 12:13	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 12:31	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 12:48	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 13:06	1		HP-5MS 0.25(mm)
620-28538-4	MW-100I/250812	08/20/2025 13:23	1	S8-082025-11.D	HP-5MS 0.25(mm)
620-28538-5	MW-103ER/250812	08/20/2025 13:41	1	S8-082025-12.D	HP-5MS 0.25(mm)
620-28538-7	MW-102ER/250812	08/20/2025 14:16	1	S8-082025-14.D	HP-5MS 0.25(mm)
620-28538-8	DUP/250812	08/20/2025 14:34	1	S8-082025-15.D	HP-5MS 0.25(mm)
620-28538-9	FB/250812	08/20/2025 14:52	1	S8-082025-16.D	HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 15:09	1		HP-5MS 0.25(mm)
620-28538-6	MW-103B/250812	08/20/2025 15:44	5	S8-082025-19.D	HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 16:02	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 16:19	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 16:36	10		HP-5MS 0.25(mm)

8270D SIM ID

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Batch Number: 48403 Batch Start Date: 05/28/25 11:48 Batch Analyst: Smith, Jordan

Batch Method: 8270D SIM ID Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	1,4D-LVI-Sur 00001	MSS-1,4-CAL1 00020	MSS-1,4-CAL2 00019	MSS-1,4-CAL3 00020	MSS-1,4-CAL4 00019	MSS-1,4-CAL5 00021
DFTPP 620-48403/1		8270D SIM ID								
IC 620-48403/2		8270D SIM ID			10 uL	1 mL				
IC 620-48403/3		8270D SIM ID			10 uL		1 mL			
IC 620-48403/4		8270D SIM ID			10 uL			1 mL		
IC 620-48403/5		8270D SIM ID			10 uL				1 mL	
ICIS 620-48403/6		8270D SIM ID			10 uL					1 mL
IC 620-48403/7		8270D SIM ID			10 uL					
IC 620-48403/8		8270D SIM ID			10 uL					
ICV 620-48403/9		8270D SIM ID			10 uL					

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSS-1,4-CAL6 00020	MSS-1,4-CAL7 00017	MSS-1,4-ICV 00024	MSS-1,4D-IS 00001	SV-DFTPP-LVI 00009	
DFTPP 620-48403/1		8270D SIM ID						20 uL	1 mL	
IC 620-48403/2		8270D SIM ID						20 uL		
IC 620-48403/3		8270D SIM ID						20 uL		
IC 620-48403/4		8270D SIM ID						20 uL		
IC 620-48403/5		8270D SIM ID						20 uL		
ICIS 620-48403/6		8270D SIM ID						20 uL		
IC 620-48403/7		8270D SIM ID			1 mL			20 uL		
IC 620-48403/8		8270D SIM ID				1 mL		20 uL		
ICV 620-48403/9		8270D SIM ID					1 mL	20 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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Batch Number: 52299 Batch Start Date: 08/18/25 18:42 Batch Analyst: Harvey-Berk, Aili A

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	OP-LCS-1,4-D 00080	OP-SUR-1.4-D 00100
MB 620-52299/1		3510C, 8270D SIM ID			250 mL	1 mL	6 SU	<2 SU		1000 uL
LCS 620-52299/2		3510C, 8270D SIM ID			250 mL	1 mL	6 SU	<2 SU	1000 uL	1000 uL
LCSD 620-52299/3		3510C, 8270D SIM ID			250 mL	1 mL	6 SU	<2 SU	1000 uL	1000 uL
620-28538-L-4	MW-100I/250812	3510C, 8270D SIM ID	Water	T	255 mL	1 mL	4 SU	<2 SU		1000 uL
620-28538-T-5	MW-103ER/250812	3510C, 8270D SIM ID	Water	T	230 mL	1 mL	4 SU	<2 SU		1000 uL
620-28538-I-6	MW-103B/250812	3510C, 8270D SIM ID	Water	T	255 mL	1 mL	5 SU	<2 SU		1000 uL
620-28538-H-7	MW-102ER/250812	3510C, 8270D SIM ID	Water	T	230 mL	1 mL	4 SU	<2 SU		1000 uL
620-28538-H-8	DUP/250812	3510C, 8270D SIM ID	Water	T	260 mL	1 mL	5 SU	<2 SU		1000 uL
620-28538-H-9	FB/250812	3510C, 8270D SIM ID	Water	T	255 mL	1 mL	4 SU	<2 SU		1000 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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Batch Number: 52299 Batch Start Date: 08/18/25 18:42 Batch Analyst: Harvey-Berk, Aili A

Batch Method: 3510C Batch End Date:

Batch Notes	
Method/Fraction	8270D_SIM_MS_ID
Was daily balance calibration done?	Yes
pH Indicator ID	410842
Pipette/Syringe/Dispenser ID	P1ML04
Analyst ID - Extraction	sv3h
Reagent Water ID	037836
Analyst ID - Spike Analyst	sv3h
Sufficient Volume for Batch QC	y
Acid Used for pH Adjustment ID	606502
Prep Solvent ID	652329
Prep Solvent Volume Used	45 mL
Filter ID	628847
Glass Wool ID	24415999
Na2SO4 ID	613255
Analyst ID - Concentration	sv3h
Equipment ID - Concentration 1	TV2
Concentration 1 Uncorrected Temperature	49 Degrees C
Concentration 1 Corrected Temperature	45 Degrees C
Vial Lot Number	25085726

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.

8270D SIM ID

9056A_ORGFM_28D

Anions, Ion Chromatography

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 14_Aug_2025 10_29.d

Lab ID: LCS 410-685514/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Chloride	3.00	2.924	97	90-110	
Sulfate	7.50	7.381	98	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 15_Aug_2025 10_27.d

Lab ID: LCS 410-686235/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Chloride	3.00	3.086	103	90-110	
Sulfate	7.50	7.541	101	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 14_Aug_2025 10_37.d

Lab ID: LCSD 410-685514/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloride	3.00	2.929	98	0	20	90-110	
Sulfate	7.50	7.384	98	0	20	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 15_Aug_2025 10_37.d

Lab ID: LCSD 410-686235/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloride	3.00	3.076	103	0	20	90-110	
Sulfate	7.50	7.561	101	0	20	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 15_Aug_2025 13_51.d

Lab ID: 410-236777-F-5 MS Client ID:

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Chloride	10.0	11.8	22.86	110	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 14_Aug_2025 12_14.d

Lab ID: 620-28538-7 MS Client ID: MW-102ER/250812 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Chloride	2.00	2.96	4.728	88	90-110	*
Sulfate	5.00	1.50 U	4.777	96	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 15_Aug_2025 14_44.d

Lab ID: 410-236777-F-5 MSD Client ID:

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloride	10.0	22.55	107	1	20	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab File ID: 14_Aug_2025 10_45.d Lab Sample ID: MB 410-685514/5

Matrix: Water Date Extracted:

Instrument ID: 23204 Date Analyzed: 08/14/2025 10:45

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-685514/3	14_Aug_2025 10_29.d	08/14/2025 10:29
	LCSD 410-685514/4	14_Aug_2025 10_37.d	08/14/2025 10:37
DUP/250812	620-28538-8	14_Aug_2025 10_53.d	08/14/2025 10:53
MW-100I/250812	620-28538-4	14_Aug_2025 11_09.d	08/14/2025 11:09
MW-103ER/250812	620-28538-5	14_Aug_2025 11_26.d	08/14/2025 11:26
MW-103B/250812	620-28538-6	14_Aug_2025 11_34.d	08/14/2025 11:34
MW-102ER/250812	620-28538-7	14_Aug_2025 11_42.d	08/14/2025 11:42
MW-102ER/250812 DU	620-28538-7 DU	14_Aug_2025 12_06.d	08/14/2025 12:06
MW-102ER/250812 MS	620-28538-7 MS	14_Aug_2025 12_14.d	08/14/2025 12:14
FB/250812	620-28538-9	14_Aug_2025 12_22.d	08/14/2025 12:22

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab File ID: 15_Aug_2025 10_47.d Lab Sample ID: MB 410-686235/5

Matrix: Water Date Extracted:

Instrument ID: 33226 Date Analyzed: 08/15/2025 10:47

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-686235/3	15_Aug_2025 10_27.d	08/15/2025 10:27
	LCSD 410-686235/4	15_Aug_2025 10_37.d	08/15/2025 10:37
	410-236777-F-5 DU	15_Aug_2025 13_41.d	08/15/2025 13:41
	410-236777-F-5 MS	15_Aug_2025 13_51.d	08/15/2025 13:51
	410-236777-F-5 MSD	15_Aug_2025 14_44.d	08/15/2025 14:44
MW-103B/250812	620-28538-6	15_Aug_2025 16_55.d	08/15/2025 16:55

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-100I/250812 Lab Sample ID: 620-28538-4

Matrix: Water Lab File ID: 14_Aug_2025 11_09.d

Analysis Method: 9056A Date Collected: 08/12/2025 12:15

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 08/14/2025 11:09

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685514 Units: mg/L

Preparation Batch No.: Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	6.10		1.50	0.60
14808-79-8	Sulfate	14.2		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-103ER/250812
Lab Sample ID: 620-28538-5

Matrix: Water
Lab File ID: 14_Aug_2025 11_26.d

Analysis Method: 9056A
Date Collected: 08/12/2025 13:05

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 11:26

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685514
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	4.06		1.50	0.60
14808-79-8	Sulfate	2.75		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-103B/250812
Lab Sample ID: 620-28538-6

Matrix: Water
Lab File ID: 14_Aug_2025 11_34.d

Analysis Method: 9056A
Date Collected: 08/12/2025 14:30

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 11:34

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685514
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	1.50	U	1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-103B/250812
Lab Sample ID: 620-28538-6

Matrix: Water
Lab File ID: 15_Aug_2025 16_55.d

Analysis Method: 9056A
Date Collected: 08/12/2025 14:30

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 16:55

Con. Extract Vol.:
Dilution Factor: 5

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686235
Units: mg/L

Preparation Batch No.:
Instrument ID: 33226

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	18.8		7.50	3.00

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-102ER/250812
Lab Sample ID: 620-28538-7

Matrix: Water
Lab File ID: 14_Aug_2025 11_42.d

Analysis Method: 9056A
Date Collected: 08/12/2025 14:45

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 11:42

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685514
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	2.96		1.50	0.60
14808-79-8	Sulfate	1.50	U	1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID: DUP/250812
Lab Sample ID: 620-28538-8

Matrix: Water
Lab File ID: 14_Aug_2025 10_53.d

Analysis Method: 9056A
Date Collected: 08/12/2025 00:00

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 10:53

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685514
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	6.13		1.50	0.60
14808-79-8	Sulfate	13.9		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Client Sample ID: FB/250812 Lab Sample ID: 620-28538-9

Matrix: Water Lab File ID: 14_Aug_2025 12_22.d

Analysis Method: 9056A Date Collected: 08/12/2025 15:00

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 08/14/2025 12:22

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685514 Units: mg/L

Preparation Batch No.: Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.50	U	1.50	0.60
14808-79-8	Sulfate	1.50	U	1.50	0.50

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1 Analy Batch No.: 683875

SDG No.:

Instrument ID: 23204 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2025 13:58 Calibration End Date: 08/11/2025 15:36 Calibration ID: 75607

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-683875/2	11_Aug_2025 14_06.d
Level 2	IC 410-683875/3	11_Aug_2025 14_14.d
Level 3	IC 410-683875/4	11_Aug_2025 14_22.d
Level 4	IC 410-683875/5	11_Aug_2025 14_30.d
Level 5	IC 410-683875/6	11_Aug_2025 15_36.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Fluoride	1.393	1.393	1.393	1.393	1.400						1.143 - 1.643	1.394
Chloride	2.027	2.027	2.027	2.027	2.030						1.777 - 2.277	2.028
Sulfate	3.287	3.280	3.273	3.257	3.243						2.387 - 4.187	3.268
Bromide	3.373	3.397	3.397	3.393	3.403						3.123 - 3.623	3.393

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1 Analy Batch No.: 683875

SDG No.:

Instrument ID: 23204 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2025 13:58 Calibration End Date: 08/11/2025 15:36 Calibration ID: 75607

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-683875/2	11_Aug_2025 14_06.d
Level 2	IC 410-683875/3	11_Aug_2025 14_14.d
Level 3	IC 410-683875/4	11_Aug_2025 14_22.d
Level 4	IC 410-683875/5	11_Aug_2025 14_30.d
Level 5	IC 410-683875/6	11_Aug_2025 15_36.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 2	LVL 3	LVL 4		B	M1	M2								
Fluoride	11361410 13901603	13348268	14046165	14041218	Lin1	-264102.31	14096825.9				1.2		10.0	1.0000		0.9900
Chloride	8442815 9384335	8762139	9356561	9405054	Lin1	-502485.01	9430295.04				2.7		10.0	1.0000		0.9900
Sulfate	5916792 6745937	6345046	6819056	6792606	Lin1	-1002328.7	6811221.53				2.3		10.0	1.0000		0.9900
Bromide	3992356 4524125	4020137	4196531	4351896	Lin1	-392211.43	4441876.93				5.9		10.0	0.9990		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
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1 Analy Batch No.: 683875

SDG No.:

Instrument ID: 23204 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2025 13:58 Calibration End Date: 08/11/2025 15:36 Calibration ID: 75607

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-683875/2	11_Aug_2025 14_06.d
Level 2	IC 410-683875/3	11_Aug_2025 14_14.d
Level 3	IC 410-683875/4	11_Aug_2025 14_22.d
Level 4	IC 410-683875/5	11_Aug_2025 14_30.d
Level 5	IC 410-683875/6	11_Aug_2025 15_36.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Fluoride	Lin1	1136141	5339307	14046165	28082436	41704808	0.100	0.400	1.00	2.00	3.00
Chloride	Lin1	3377126	14019422	37426245	75240428	112612025	0.400	1.60	4.00	8.00	12.0
Sulfate	Lin1	5916792	25380183	68190562	135852117	202378102	1.00	4.00	10.0	20.0	30.0
Bromide	Lin1	1996178	8040274	20982656	43518960	67861875	0.500	2.00	5.00	10.0	15.0

Curve Type Legend:
Lin1 = Linear 1/conc

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1 Analy Batch No.: 685033

SDG No.:

Instrument ID: 33226 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2025 15:07 Calibration End Date: 08/13/2025 15:57 Calibration ID: 75706

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-685033/2	13_Aug_2025 15_17.d
Level 2	IC 410-685033/3	13_Aug_2025 15_27.d
Level 3	IC 410-685033/4	13_Aug_2025 15_37.d
Level 4	IC 410-685033/5	13_Aug_2025 15_47.d
Level 5	IC 410-685033/6	13_Aug_2025 15_57.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Fluoride	1.497	1.497	1.500	1.500	1.500						1.247 - 1.747	1.499
Chloride	2.510	2.510	2.510	2.507	2.510						2.260 - 2.760	2.509
Bromide	4.717	4.713	4.703	4.687	4.687						4.467 - 4.967	4.701
Sulfate	6.830	6.800	6.753	6.670	6.653						5.930 - 7.730	6.741

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1 Analy Batch No.: 685033

SDG No.:

Instrument ID: 33226 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2025 15:07 Calibration End Date: 08/13/2025 15:57 Calibration ID: 75706

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-685033/2	13_Aug_2025 15_17.d
Level 2	IC 410-685033/3	13_Aug_2025 15_27.d
Level 3	IC 410-685033/4	13_Aug_2025 15_37.d
Level 4	IC 410-685033/5	13_Aug_2025 15_47.d
Level 5	IC 410-685033/6	13_Aug_2025 15_57.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 2	LVL 3	LVL 4		B	M1	M2								
Fluoride	10326580 13917919	11521980	13276630	14250374	Lin1	-505456.44	14107671.6				7.8		10.0	0.9990		0.9900
Chloride	6780580 8923079	7660035	8781162	9081247	Lin1	-1132820.7	9057075.17				5.7		10.0	0.9990		0.9900
Bromide	2641244 3541471	2902450	3270118	3515080	Lin1	-630192.03	3535382.56				8.3		10.0	0.9990		0.9900
Sulfate	4877461 6340167	5422829	6060069	6415423	Lin1	-1993320.4	6394608.20				6.3		10.0	0.9990		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
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1 Analy Batch No.: 685033

SDG No.:

Instrument ID: 33226 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2025 15:07 Calibration End Date: 08/13/2025 15:57 Calibration ID: 75706

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-685033/2	13_Aug_2025 15_17.d
Level 2	IC 410-685033/3	13_Aug_2025 15_27.d
Level 3	IC 410-685033/4	13_Aug_2025 15_37.d
Level 4	IC 410-685033/5	13_Aug_2025 15_47.d
Level 5	IC 410-685033/6	13_Aug_2025 15_57.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Fluoride	Lin1	1032658	4608792	13276630	28500747	41753756	0.100	0.400	1.00	2.00	3.00
Chloride	Lin1	2712232	12256056	35124646	72649973	107076944	0.400	1.60	4.00	8.00	12.0
Bromide	Lin1	1320622	5804900	16350588	35150795	53122068	0.500	2.00	5.00	10.0	15.0
Sulfate	Lin1	4877461	21691315	60600686	128308467	190205002	1.00	4.00	10.0	20.0	30.0

Curve Type Legend:
Lin1 = Linear 1/conc

Calibration / Fluoride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

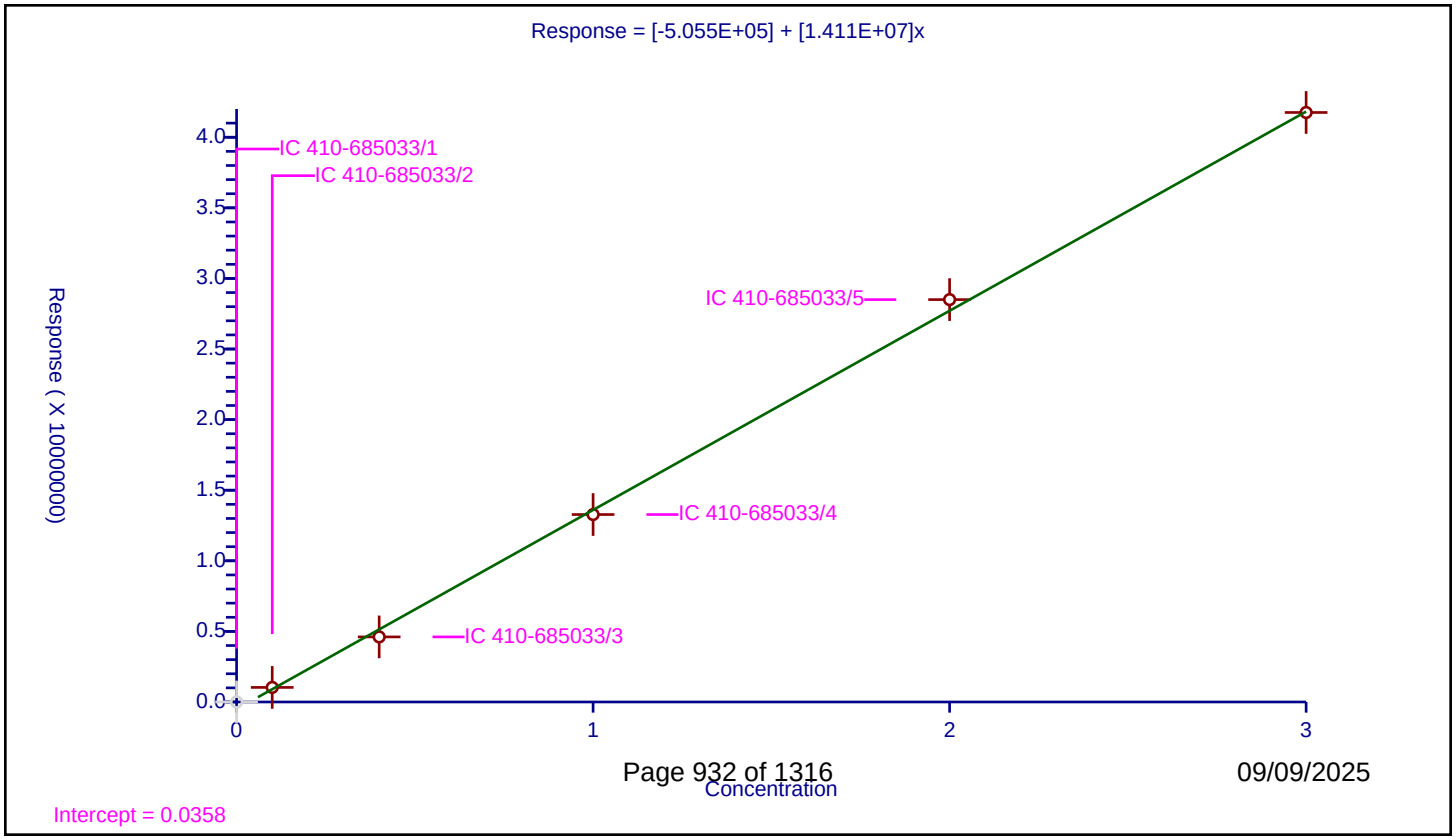
Curve Coefficients

Intercept:	-5.055E+05
Slope:	1.411E+07

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-685033/1	0.0	0.0			NaN	N
2	IC 410-685033/2	0.1	1032658.0			10326580.0	Y
3	IC 410-685033/3	0.4	4608792.0			11521980.0	Y
4	IC 410-685033/4	1.0	13276630.0			13276630.0	Y
5	IC 410-685033/5	2.0	28500747.0			14250373.5	Y
6	IC 410-685033/6	3.0	41753756.0			13917918.666667	Y



09/09/2025

Calibration / Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

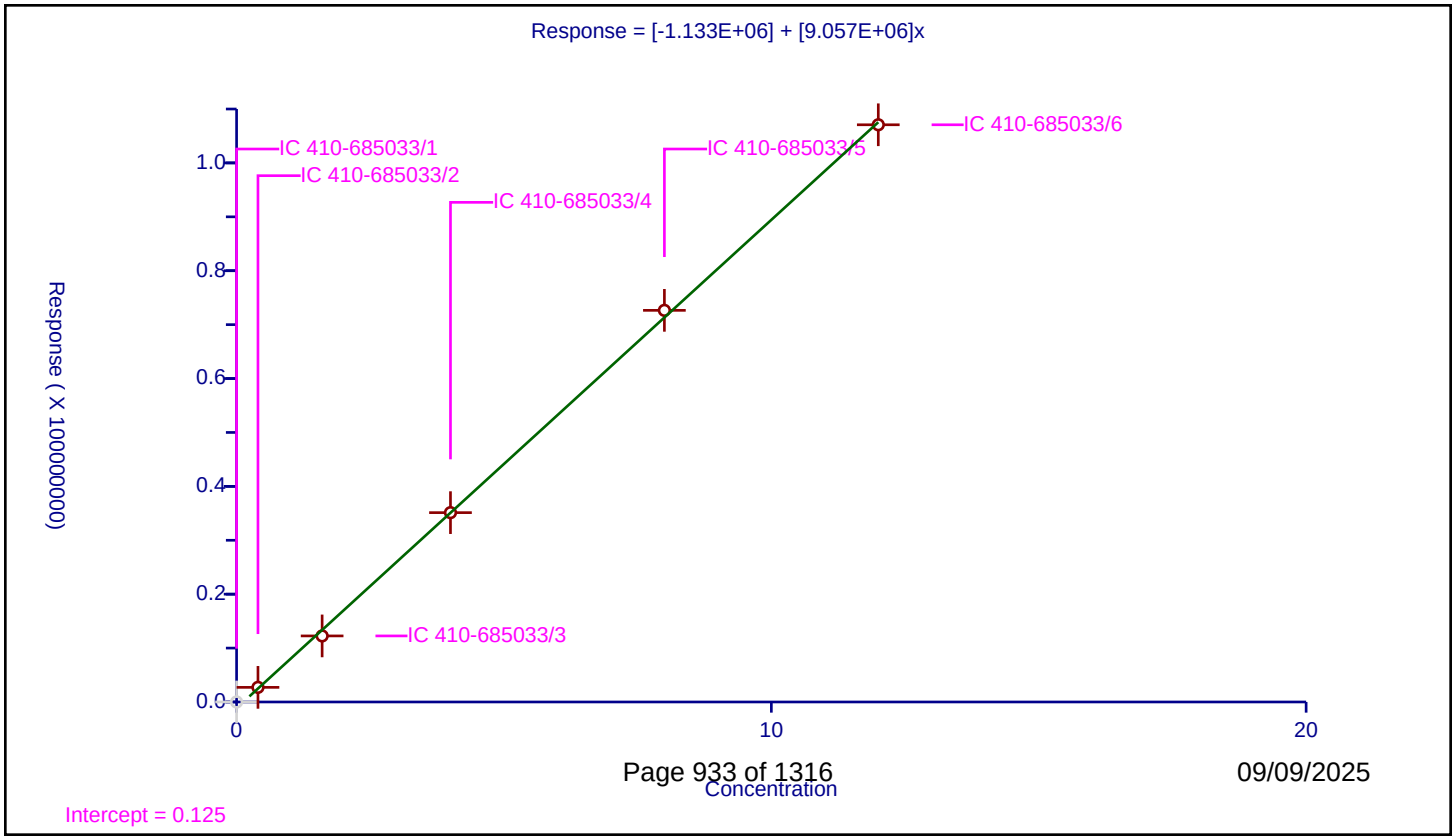
Curve Coefficients

Intercept:	-1.133E+06
Slope:	9.057E+06

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-685033/1	0.0	0.0			NaN	N
2	IC 410-685033/2	0.4	2712232.0			6780580.0	Y
3	IC 410-685033/3	1.6	12256056.0			7660035.0	Y
4	IC 410-685033/4	4.0	35124646.0			8781161.5	Y
5	IC 410-685033/5	8.0	72649973.0			9081246.625	Y
6	IC 410-685033/6	12.0	107076944.0			8923078.666667	Y



09/09/2025

Calibration / Bromide

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

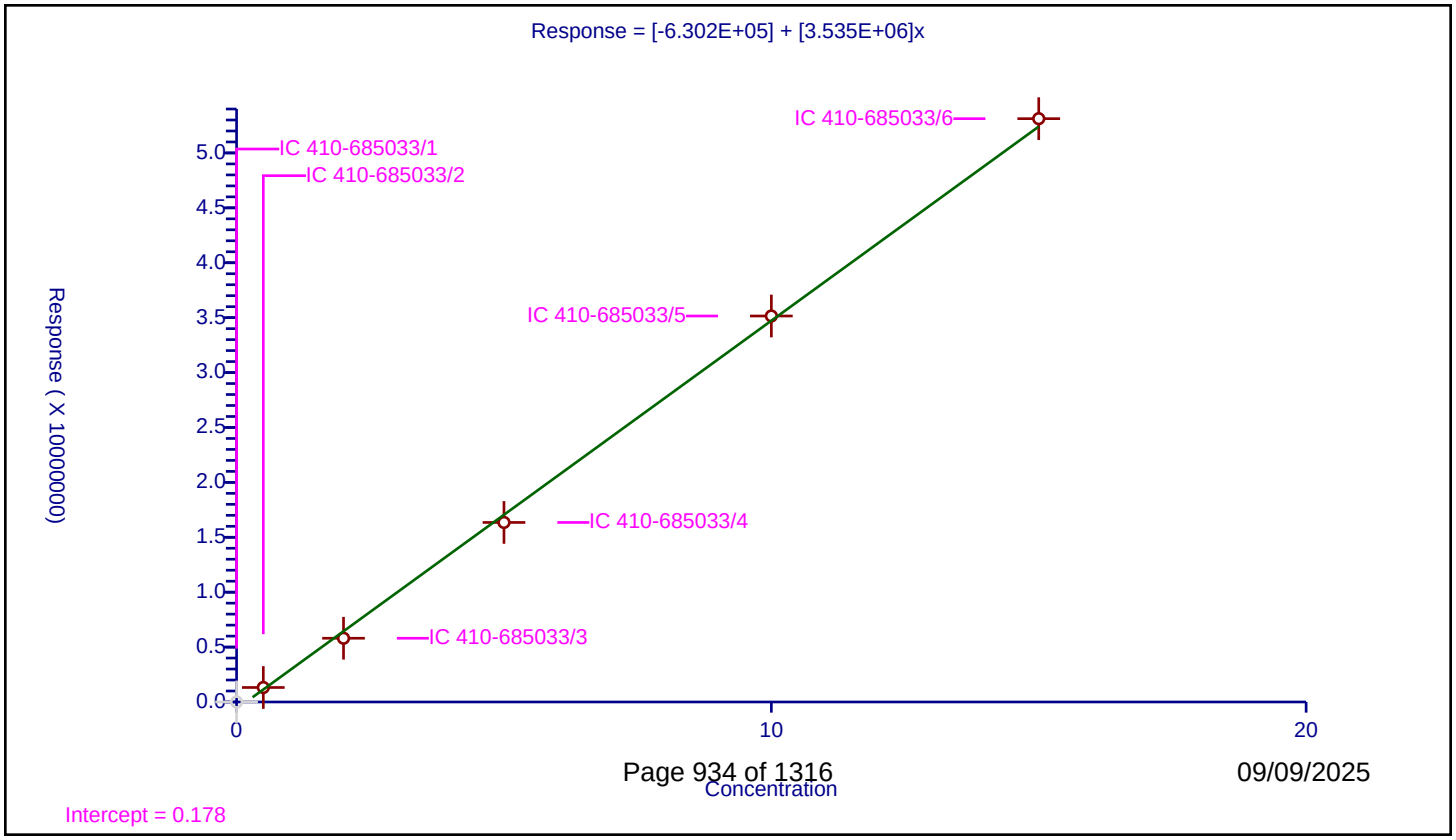
Curve Coefficients

Intercept:	-6.302E+05
Slope:	3.535E+06

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-685033/1	0.0	0.0			NaN	N
2	IC 410-685033/2	0.5	1320622.0			2641244.0	Y
3	IC 410-685033/3	2.0	5804900.0			2902450.0	Y
4	IC 410-685033/4	5.0	16350588.0			3270117.6	Y
5	IC 410-685033/5	10.0	35150795.0			3515079.5	Y
6	IC 410-685033/6	15.0	53122068.0			3541471.2	Y



09/09/2025

Calibration / Sulfate

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

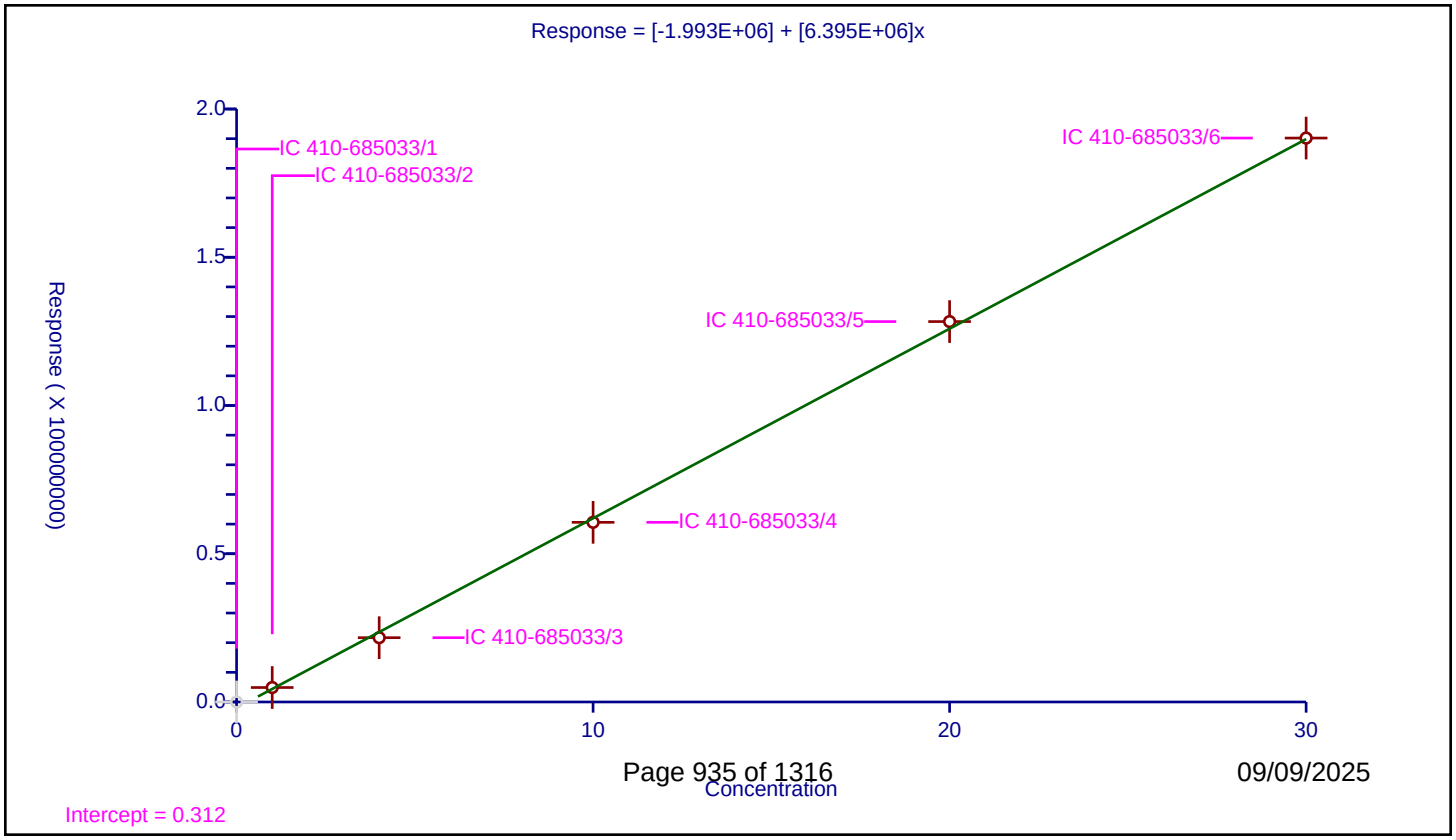
Curve Coefficients

Intercept:	-1.993E+06
Slope:	6.395E+06

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-685033/1	0.0	0.0			NaN	N
2	IC 410-685033/2	1.0	4877461.0			4877461.0	Y
3	IC 410-685033/3	4.0	21691315.0			5422828.75	Y
4	IC 410-685033/4	10.0	60600686.0			6060068.6	Y
5	IC 410-685033/5	20.0	128308467.0			6415423.35	Y
6	IC 410-685033/6	30.0	190205002.0			6340166.733333	Y



09/09/2025

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab Sample ID: ICV 410-683875/7 Calibration Date: 08/11/2025 15:44

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 11_Aug_2025 15_44.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		12442881		0.681	0.750	-9.2	10.0
Chloride	Lin1		9213600		2.98	3.00	-0.5	10.0
Sulfate	Lin1		6502595		7.31	7.50	-2.6	10.0
Bromide	Lin1		4311226		7.37	7.50	-1.8	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Lab Sample ID: ICV 410-683875/7
Calibration Date: 08/11/2025 15:44

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 11_Aug_2025 15_44.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.40	1.15	1.65
Chloride	2.03	1.78	2.28
Sulfate	3.27	2.37	4.17
Bromide	3.41	3.16	3.66

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-685514/1 Calibration Date: 08/14/2025 10:13

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 14_Aug_2025 10_13.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		13247415		0.724	0.750	-3.5	10.0
Chloride	Lin1		9016126		2.92	3.00	-2.6	10.0
Sulfate	Lin1		6592131		7.41	7.50	-1.3	10.0
Bromide	Lin1		4263861		7.29	7.50	-2.8	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-685514/1
Calibration Date: 08/14/2025 10:13

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 14_Aug_2025 10_13.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.40	1.14	1.64
Chloride	2.03	1.78	2.28
Sulfate	3.25	2.39	4.19
Bromide	3.41	3.12	3.62

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-685514/13 Calibration Date: 08/14/2025 11:50

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 14_Aug_2025 11_50.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		14376605		0.784	0.750	4.5	10.0
Chloride	Lin1		9022091		2.92	3.00	-2.6	10.0
Sulfate	Lin1		6607580		7.42	7.50	-1.0	10.0
Bromide	Lin1		4292735		7.34	7.50	-2.2	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-685514/13
Calibration Date: 08/14/2025 11:50

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 14_Aug_2025 11_50.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.40	1.14	1.64
Chloride	2.03	1.78	2.28
Sulfate	3.25	2.39	4.19
Bromide	3.41	3.12	3.62

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-685514/25 Calibration Date: 08/14/2025 13:26

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 14_Aug_2025 13_26.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		14234169		0.776	0.750	3.5	10.0
Chloride	Lin1		9136181		2.96	3.00	-1.3	10.0
Sulfate	Lin1		6558521		7.37	7.50	-1.7	10.0
Bromide	Lin1		4305397		7.36	7.50	-1.9	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-685514/25
Calibration Date: 08/14/2025 13:26

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 14_Aug_2025 13_26.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.39	1.14	1.64
Chloride	2.03	1.78	2.28
Sulfate	3.25	2.39	4.19
Bromide	3.41	3.12	3.62

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab Sample ID: ICV 410-685033/7 Calibration Date: 08/13/2025 16:07

Instrument ID: 33226 Calib Start Date: 08/13/2025 15:07

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/13/2025 15:57

Lab File ID: 13_Aug_2025 16_07.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		12013355		0.674	0.750	-10.1*	10.0
Chloride	Lin1		8370912		2.90	3.00	-3.4	10.0
Bromide	Lin1		3444866		7.49	7.50	-0.2	10.0
Sulfate	Lin1		5648385		6.94	7.50	-7.5	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Lab Sample ID: ICV 410-685033/7
Calibration Date: 08/13/2025 16:07

Instrument ID: 33226
Calib Start Date: 08/13/2025 15:07

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/13/2025 15:57

Lab File ID: 13_Aug_2025 16_07.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.50	1.25	1.75
Chloride	2.51	2.26	2.76
Bromide	4.70	4.45	4.95
Sulfate	6.79	5.89	7.69

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-686235/1 Calibration Date: 08/15/2025 10:07

Instrument ID: 33226 Calib Start Date: 08/13/2025 15:07

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/13/2025 15:57

Lab File ID: 15_Aug_2025 10_07.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		13288439		0.742	0.750	-1.0	10.0
Chloride	Lin1		8919110		3.08	3.00	2.6	10.0
Bromide	Lin1		4362336		9.43	7.50	25.8*	10.0
Sulfate	Lin1		6141689		7.52	7.50	0.2	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-686235/1
Calibration Date: 08/15/2025 10:07

Instrument ID: 33226
Calib Start Date: 08/13/2025 15:07

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/13/2025 15:57

Lab File ID: 15_Aug_2025 10_07.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.50	1.25	1.75
Chloride	2.55	2.26	2.76
Bromide	4.83	4.45	4.95
Sulfate	7.25	5.89	7.69

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-686235/6 Calibration Date: 08/15/2025 10:57

Instrument ID: 33226 Calib Start Date: 08/13/2025 15:07

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/13/2025 15:57

Lab File ID: 15_Aug_2025 10_57.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		12606376		0.706	0.750	-5.9	10.0
Chloride	Lin1		8857566		3.06	3.00	2.0	10.0
Bromide	Lin1		3753514		8.14	7.50	8.5	10.0
Sulfate	Lin1		6104216		7.47	7.50	-0.4	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-686235/6 Calibration Date: 08/15/2025 10:57

Instrument ID: 33226 Calib Start Date: 08/13/2025 15:07

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/13/2025 15:57

Lab File ID: 15_Aug_2025 10_57.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.50	1.25	1.75
Chloride	2.55	2.26	2.76
Bromide	4.80	4.45	4.95
Sulfate	7.17	5.89	7.69

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-686235/18 Calibration Date: 08/15/2025 14:24

Instrument ID: 33226 Calib Start Date: 08/13/2025 15:07

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/13/2025 15:57

Lab File ID: 15_Aug_2025 14_24.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		18586371		1.02	0.750	36.5*	10.0
Chloride	Lin1		12213622		4.17	3.00	39.0*	10.0
Bromide	Lin1		3671758		7.97	7.50	6.2	10.0
Sulfate	Lin1		6020242		7.37	7.50	-1.7	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-686235/18
Calibration Date: 08/15/2025 14:24

Instrument ID: 33226
Calib Start Date: 08/13/2025 15:07

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/13/2025 15:57

Lab File ID: 15_Aug_2025 14_24.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.48	1.25	1.75
Chloride	2.47	2.26	2.76
Bromide	4.60	4.45	4.95
Sulfate	6.47	5.89	7.69

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-686235/30 Calibration Date: 08/15/2025 16:25

Instrument ID: 33226 Calib Start Date: 08/13/2025 15:07

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/13/2025 15:57

Lab File ID: 15_Aug_2025 16_25.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		13045201		0.729	0.750	-2.8	10.0
Chloride	Lin1		8575900		2.97	3.00	-1.1	10.0
Bromide	Lin1		3610131		7.84	7.50	4.5	10.0
Sulfate	Lin1		6005012		7.36	7.50	-1.9	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-686235/30
Calibration Date: 08/15/2025 16:25

Instrument ID: 33226
Calib Start Date: 08/13/2025 15:07

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/13/2025 15:57

Lab File ID: 15_Aug_2025 16_25.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.49	1.25	1.75
Chloride	2.47	2.26	2.76
Bromide	4.60	4.45	4.95
Sulfate	6.45	5.89	7.69

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-686235/42 Calibration Date: 08/15/2025 18:25

Instrument ID: 33226 Calib Start Date: 08/13/2025 15:07

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/13/2025 15:57

Lab File ID: 15_Aug_2025 18_25.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		13593205		0.758	0.750	1.1	10.0
Chloride	Lin1		8634966		2.99	3.00	-0.5	10.0
Bromide	Lin1		3643532		7.91	7.50	5.4	10.0
Sulfate	Lin1		6031098		7.39	7.50	-1.5	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-686235/42
Calibration Date: 08/15/2025 18:25

Instrument ID: 33226
Calib Start Date: 08/13/2025 15:07

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/13/2025 15:57

Lab File ID: 15_Aug_2025 18_25.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.50	1.25	1.75
Chloride	2.51	2.26	2.76
Bromide	4.71	4.45	4.95
Sulfate	6.80	5.89	7.69

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-685514/5

Matrix: Water
Lab File ID: 14_Aug_2025 10_45.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 10:45

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685514
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.50	U	1.50	0.60
14808-79-8	Sulfate	1.50	U	1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-686235/5

Matrix: Water
Lab File ID: 15_Aug_2025 10_47.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 10:47

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686235
Units: mg/L

Preparation Batch No.:
Instrument ID: 33226

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.50	U	1.50	0.60
14808-79-8	Sulfate	1.50	U	1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-685514/2

Matrix: Water
Lab File ID: 14_Aug_2025 10_21.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 10:21

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685514
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-685514/14

Matrix: Water
Lab File ID: 14_Aug_2025 11_58.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 11:58

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685514
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-685514/26

Matrix: Water
Lab File ID: 14_Aug_2025 13_34.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 13:34

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685514
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-686235/2

Matrix: Water
Lab File ID: 15_Aug_2025 10_17.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 10:17

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686235
Units: mg/L

Preparation Batch No.:
Instrument ID: 33226

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-686235/7

Matrix: Water
Lab File ID: 15_Aug_2025 11_07.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 11:07

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686235
Units: mg/L

Preparation Batch No.:
Instrument ID: 33226

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-686235/19

Matrix: Water
Lab File ID: 15_Aug_2025 14_34.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 14:34

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686235
Units: mg/L

Preparation Batch No.:
Instrument ID: 33226

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-686235/31

Matrix: Water
Lab File ID: 15_Aug_2025 16_35.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 16:35

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686235
Units: mg/L

Preparation Batch No.:
Instrument ID: 33226

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-686235/43

Matrix: Water
Lab File ID: 15_Aug_2025 18_35.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 18:35

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686235
Units: mg/L

Preparation Batch No.:
Instrument ID: 33226

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: ICB 410-683875/8

Matrix: Water
Lab File ID: 11_Aug_2025 15_52.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/11/2025 15:52

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 683875
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: ICB 410-685033/8

Matrix: Water
Lab File ID: 13_Aug_2025 16_17.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/13/2025 16:17

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685033
Units: mg/L

Preparation Batch No.:
Instrument ID: 33226

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-685514/3

Matrix: Water
Lab File ID: 14_Aug_2025 10_29.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 10:29

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685514
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	2.924		1.50	0.60
14808-79-8	Sulfate	7.381		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-686235/3

Matrix: Water
Lab File ID: 15_Aug_2025 10_27.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 10:27

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686235
Units: mg/L

Preparation Batch No.:
Instrument ID: 33226

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	3.086		1.50	0.60
14808-79-8	Sulfate	7.541		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-685514/4

Matrix: Water
Lab File ID: 14_Aug_2025 10_37.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 10:37

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685514
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	2.929		1.50	0.60
14808-79-8	Sulfate	7.384		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-686235/4

Matrix: Water
Lab File ID: 15_Aug_2025 10_37.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 10:37

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686235
Units: mg/L

Preparation Batch No.:
Instrument ID: 33226

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	3.076		1.50	0.60
14808-79-8	Sulfate	7.561		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: 410-236777-F-5 MS

Matrix: Water
Lab File ID: 15_Aug_2025 13_51.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 13:51

Con. Extract Vol.:
Dilution Factor: 5

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686235
Units: mg/L

Preparation Batch No.:
Instrument ID: 33226

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	22.86		7.50	3.00

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-102ER/250812 MS
Lab Sample ID: 620-28538-7 MS

Matrix: Water
Lab File ID: 14_Aug_2025 12_14.d

Analysis Method: 9056A
Date Collected: 08/12/2025 14:45

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 12:14

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685514
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	4.728		1.50	0.60
14808-79-8	Sulfate	4.777		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: 410-236777-F-5 MSD

Matrix: Water
Lab File ID: 15_Aug_2025 14_44.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 14:44

Con. Extract Vol.:
Dilution Factor: 5

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686235
Units: mg/L

Preparation Batch No.:
Instrument ID: 33226

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	22.55		7.50	3.00

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: 410-236777-F-5 DU

Matrix: Water
Lab File ID: 15_Aug_2025 13_41.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 13:41

Con. Extract Vol.:
Dilution Factor: 5

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686235
Units: mg/L

Preparation Batch No.:
Instrument ID: 33226

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	11.99		7.50	3.00

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-102ER/250812 DU
Lab Sample ID: 620-28538-7 DU

Matrix: Water
Lab File ID: 14_Aug_2025 12_06.d

Analysis Method: 9056A
Date Collected: 08/12/2025 14:45

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 12:06

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685514
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	2.958		1.50	0.60
14808-79-8	Sulfate	1.50	U	1.50	0.50

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Instrument ID: 23204 Start Date: 08/11/2025 13:58

Analysis Batch Number: 683875 End Date: 08/11/2025 15:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-683875/1		08/11/2025 13:58	1		IC17-AS14 4(mm)
IC 410-683875/2		08/11/2025 14:06	1	11_Aug_2025 14_06.d	IC17-AS14 4(mm)
IC 410-683875/3		08/11/2025 14:14	1	11_Aug_2025 14_14.d	IC17-AS14 4(mm)
IC 410-683875/4		08/11/2025 14:22	1	11_Aug_2025 14_22.d	IC17-AS14 4(mm)
IC 410-683875/5		08/11/2025 14:30	1	11_Aug_2025 14_30.d	IC17-AS14 4(mm)
IC 410-683875/6		08/11/2025 15:36	1	11_Aug_2025 15_36.d	IC17-AS14 4(mm)
ICV 410-683875/7		08/11/2025 15:44	1	11_Aug_2025 15_44.d	IC17-AS14 4(mm)
ICB 410-683875/8		08/11/2025 15:52	1	11_Aug_2025 15_52.d	IC17-AS14 4(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Instrument ID: 23204 Start Date: 08/14/2025 10:13

Analysis Batch Number: 685514 End Date: 08/14/2025 17:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-685514/1		08/14/2025 10:13	1	14_Aug_2025 10_13.d	IC17-AS14 4(mm)
CCB 410-685514/2		08/14/2025 10:21	1	14_Aug_2025 10_21.d	IC17-AS14 4(mm)
LCS 410-685514/3		08/14/2025 10:29	1	14_Aug_2025 10_29.d	IC17-AS14 4(mm)
LCSD 410-685514/4		08/14/2025 10:37	1	14_Aug_2025 10_37.d	IC17-AS14 4(mm)
MB 410-685514/5		08/14/2025 10:45	1	14_Aug_2025 10_45.d	IC17-AS14 4(mm)
620-28538-8	DUP/250812	08/14/2025 10:53	1	14_Aug_2025 10_53.d	IC17-AS14 4(mm)
620-28538-8	DUP/250812	08/14/2025 11:01	5	14_Aug_2025 11_01.d	IC17-AS14 4(mm)
620-28538-4	MW-100I/250812	08/14/2025 11:09	1	14_Aug_2025 11_09.d	IC17-AS14 4(mm)
620-28538-4	MW-100I/250812	08/14/2025 11:18	5	14_Aug_2025 11_18.d	IC17-AS14 4(mm)
620-28538-5	MW-103ER/250812	08/14/2025 11:26	1	14_Aug_2025 11_26.d	IC17-AS14 4(mm)
620-28538-6	MW-103B/250812	08/14/2025 11:34	1	14_Aug_2025 11_34.d	IC17-AS14 4(mm)
620-28538-7	MW-102ER/250812	08/14/2025 11:42	1	14_Aug_2025 11_42.d	IC17-AS14 4(mm)
CCV 410-685514/13		08/14/2025 11:50	1	14_Aug_2025 11_50.d	IC17-AS14 4(mm)
CCB 410-685514/14		08/14/2025 11:58	1	14_Aug_2025 11_58.d	IC17-AS14 4(mm)
620-28538-7 DU	MW-102ER/250812 DU	08/14/2025 12:06	1	14_Aug_2025 12_06.d	IC17-AS14 4(mm)
620-28538-7 MS	MW-102ER/250812 MS	08/14/2025 12:14	1	14_Aug_2025 12_14.d	IC17-AS14 4(mm)
620-28538-9	FB/250812	08/14/2025 12:22	1	14_Aug_2025 12_22.d	IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 12:30	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 12:38	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 12:46	100		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 12:54	25		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 13:02	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 13:10	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 13:18	10		IC17-AS14 4(mm)
CCV 410-685514/25		08/14/2025 13:26	1	14_Aug_2025 13_26.d	IC17-AS14 4(mm)
CCB 410-685514/26		08/14/2025 13:34	1	14_Aug_2025 13_34.d	IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 13:42	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 13:50	500		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 13:58	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 14:06	5		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 14:14	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 14:22	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 14:30	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 14:38	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 14:46	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 14:55	10		IC17-AS14 4(mm)

9056A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Instrument ID: 23204 Start Date: 08/14/2025 10:13

Analysis Batch Number: 685514 End Date: 08/14/2025 17:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-685514/37		08/14/2025 15:03	1		IC17-AS14 4(mm)
CCB 410-685514/38		08/14/2025 15:11	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 15:19	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 15:27	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 15:35	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 15:43	5		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 15:51	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/14/2025 15:59	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/14/2025 16:07	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/14/2025 16:15	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 16:23	10		IC17-AS14 4(mm)
ZZZZZ (QC)		08/14/2025 16:31	10		IC17-AS14 4(mm)
CCV 410-685514/49		08/14/2025 16:39	1		IC17-AS14 4(mm)
CCB 410-685514/50		08/14/2025 16:47	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/14/2025 16:55	10		IC17-AS14 4(mm)
ZZZZZ (QC)		08/14/2025 17:03	10		IC17-AS14 4(mm)
CCV 410-685514/53		08/14/2025 17:11	1		IC17-AS14 4(mm)
CCB 410-685514/54		08/14/2025 17:19	1		IC17-AS14 4(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Instrument ID: 33226 Start Date: 08/13/2025 15:07

Analysis Batch Number: 685033 End Date: 08/13/2025 16:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-685033/1		08/13/2025 15:07	1		IC17-AS14 4(mm)
IC 410-685033/2		08/13/2025 15:17	1	13_Aug_2025 15_17.d	IC17-AS14 4(mm)
IC 410-685033/3		08/13/2025 15:27	1	13_Aug_2025 15_27.d	IC17-AS14 4(mm)
IC 410-685033/4		08/13/2025 15:37	1	13_Aug_2025 15_37.d	IC17-AS14 4(mm)
IC 410-685033/5		08/13/2025 15:47	1	13_Aug_2025 15_47.d	IC17-AS14 4(mm)
IC 410-685033/6		08/13/2025 15:57	1	13_Aug_2025 15_57.d	IC17-AS14 4(mm)
ICV 410-685033/7		08/13/2025 16:07	1	13_Aug_2025 16_07.d	IC17-AS14 4(mm)
ICB 410-685033/8		08/13/2025 16:17	1	13_Aug_2025 16_17.d	IC17-AS14 4(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Instrument ID: 33226 Start Date: 08/15/2025 10:07

Analysis Batch Number: 686235 End Date: 08/15/2025 20:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-686235/1		08/15/2025 10:07	1	15_Aug_2025 10_07.d	IC17-AS14 4(mm)
CCB 410-686235/2		08/15/2025 10:17	1	15_Aug_2025 10_17.d	IC17-AS14 4(mm)
LCS 410-686235/3		08/15/2025 10:27	1	15_Aug_2025 10_27.d	IC17-AS14 4(mm)
LCSD 410-686235/4		08/15/2025 10:37	1	15_Aug_2025 10_37.d	IC17-AS14 4(mm)
MB 410-686235/5		08/15/2025 10:47	1	15_Aug_2025 10_47.d	IC17-AS14 4(mm)
CCV 410-686235/6		08/15/2025 10:57	1	15_Aug_2025 10_57.d	IC17-AS14 4(mm)
CCB 410-686235/7		08/15/2025 11:07	1	15_Aug_2025 11_07.d	IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 12:20	20		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 12:30	20		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 12:40	20		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 12:50	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 13:00	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 13:10	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 13:20	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 13:30	5		IC17-AS14 4(mm)
410-236777-F-5 DU		08/15/2025 13:41	5	15_Aug_2025 13_41.d	IC17-AS14 4(mm)
410-236777-F-5 MS		08/15/2025 13:51	5	15_Aug_2025 13_51.d	IC17-AS14 4(mm)
CCV 410-686235/18		08/15/2025 14:24	1	15_Aug_2025 14_24.d	IC17-AS14 4(mm)
CCB 410-686235/19		08/15/2025 14:34	1	15_Aug_2025 14_34.d	IC17-AS14 4(mm)
410-236777-F-5 MSD		08/15/2025 14:44	5	15_Aug_2025 14_44.d	IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 14:54	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 15:04	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 15:14	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 15:24	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 15:34	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 15:44	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 15:54	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 16:04	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 16:14	1		IC17-AS14 4(mm)
CCV 410-686235/30		08/15/2025 16:25	1	15_Aug_2025 16_25.d	IC17-AS14 4(mm)
CCB 410-686235/31		08/15/2025 16:35	1	15_Aug_2025 16_35.d	IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 16:45	1		IC17-AS14 4(mm)
620-28538-6	MW-103B/250812	08/15/2025 16:55	5	15_Aug_2025 16_55.d	IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 17:05	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 17:15	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 17:25	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 17:35	100		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 17:45	1		IC17-AS14 4(mm)

9056A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Instrument ID: 33226 Start Date: 08/15/2025 10:07

Analysis Batch Number: 686235 End Date: 08/15/2025 20:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ (Client)		08/15/2025 17:55	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 18:05	100		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 18:15	50		IC17-AS14 4(mm)
CCV 410-686235/42		08/15/2025 18:25	1	15_Aug_2025 18_25.d	IC17-AS14 4(mm)
CCB 410-686235/43		08/15/2025 18:35	1	15_Aug_2025 18_35.d	IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 18:45	100		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 18:55	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 19:05	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 19:15	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 19:25	10		IC17-AS14 4(mm)
CCV 410-686235/49		08/15/2025 19:35	1		IC17-AS14 4(mm)
CCB 410-686235/50		08/15/2025 19:45	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 19:55	20		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 20:05	20		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 20:15	20		IC17-AS14 4(mm)
CCV 410-686235/54		08/15/2025 20:25	1		IC17-AS14 4(mm)
CCB 410-686235/55		08/15/2025 20:36	1		IC17-AS14 4(mm)

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28538-1

SDG No.:

Batch Number: 683875 Batch Start Date: 08/11/25 13:58 Batch Analyst: Ranson, Emily

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	WC_IC_C_Det 00228	WC_IC_QC2 01435			
IC 410-683875/2		9056A			0 mL	0.5 mL				
IC 410-683875/3		9056A			0 mL	2 mL				
IC 410-683875/4		9056A			0 mL	5 mL				
IC 410-683875/5		9056A			0 mL	10 mL				
IC 410-683875/6		9056A			0 mL	15 mL				
ICV 410-683875/7		9056A			0 mL		7.5 mL			
ICB 410-683875/8		9056A			0 mL					

Batch Notes	
Eluent 1 ID	WC_IC_D20KOHW_00026

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28538-1

SDG No.:

Batch Number: 685033 Batch Start Date: 08/13/25 15:07 Batch Analyst: Ranson, Emily

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	WC_IC_C_Det 00229	WC_IC_QC2 01437		
IC 410-685033/2		9056A			0 mL		0.5 mL			
IC 410-685033/3		9056A			0 mL		2 mL			
IC 410-685033/4		9056A			0 mL		5 mL			
IC 410-685033/5		9056A			0 mL		10 mL			
IC 410-685033/6		9056A			0 mL		15 mL			
ICV 410-685033/7		9056A			0 mL			7.5 mL		
ICB 410-685033/8		9056A			0 mL	1.0 mL				

Batch Notes	
Eluent 1 ID	WC_IC_D20KOHW_00019

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28538-1

SDG No.:

Batch Number: 685514 Batch Start Date: 08/14/25 10:13 Batch Analyst: Schoener, Jacquelyn

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	WC_IC_QC2 01438			
CCV 410-685514/1		9056A			1 mL	1 mL	7.5 mL			
CCB 410-685514/2		9056A			1 mL	1 mL				
LCS 410-685514/3		9056A			1 mL	1 mL	7.5 mL			
LCSD 410-685514/4		9056A			1 mL	1 mL	7.5 mL			
MB 410-685514/5		9056A			1 mL	1 mL				
620-28538-J-8	DUP/250812	9056A	Water	T	1 mL	1 mL				
620-28538-J-8	DUP/250812	9056A	Water	T	1 mL	1 mL				
620-28538-K-4	MW-100I/250812	9056A	Water	T	1 mL	1 mL				
620-28538-K-4	MW-100I/250812	9056A	Water	T	1 mL	1 mL				
620-28538-V-5	MW-10BER/250812	9056A	Water	T	1 mL	1 mL				
620-28538-J-6	MW-103B/250812	9056A	Water	T	1 mL	1 mL				
620-28538-J-7	MW-102ER/250812	9056A	Water	T	1 mL	1 mL				
CCV 410-685514/13		9056A			1 mL	1 mL	7.5 mL			
CCB 410-685514/14		9056A			1 mL	1 mL				
620-28538-J-7 DU	MW-102ER/250812	9056A		T	1 mL	1 mL				
620-28538-J-7 MS	MW-102ER/250812	9056A		T	1 mL	1 mL	0.1 mL			
620-28538-J-9	FB/250812	9056A	Water	T	1 mL	1 mL				
CCV 410-685514/25		9056A			1 mL	1 mL	7.5 mL			
CCB 410-685514/26		9056A			1 mL	1 mL				

Batch Notes	
Eluent 1 ID	WC_IC_D20KOHW_00026

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28538-1

SDG No.:

Batch Number: 686235 Batch Start Date: 08/15/25 10:07 Batch Analyst: Ranson, Emily

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	WC_IC_QC2 01439				
CCV 410-686235/1		9056A			0 mL	7.5 mL				
CCB 410-686235/2		9056A			0 mL					
LCS 410-686235/3		9056A			0 mL	7.5 mL				
LCSD 410-686235/4		9056A			0 mL	7.5 mL				
MB 410-686235/5		9056A			0 mL					
CCV 410-686235/6		9056A			0 mL	7.5 mL				
CCB 410-686235/7		9056A			0 mL					
410-236777-F-5 DU	12MWT10-20250811	9056A		T	0 mL					
410-236777-F-5 MS	12MWT10-20250811	9056A		T	0 mL	5 mL				
CCV 410-686235/18		9056A			0 mL	7.5 mL				
CCB 410-686235/19		9056A			0 mL					
410-236777-F-5 MSD	12MWT10-20250811	9056A		T	0 mL	5 mL				
CCV 410-686235/30		9056A			0 mL	7.5 mL				
CCB 410-686235/31		9056A			0 mL					
620-28538-J-6	MW-103B/250812	9056A	Water	T	0 mL					
CCV 410-686235/42		9056A			0 mL	7.5 mL				
CCB 410-686235/43		9056A			0 mL					

Batch Notes	
Eluent 1 ID	WC_IC_D20KOHW_00019

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.

9056A_ORGFM_28D

Anions, Ion Chromatography

9056A_ORGFM_48H

Anions, Ion Chromatography

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 14_Aug_2025 10_29.d

Lab ID: LCS 410-685513/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Nitrate as N	0.750	0.702	94	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 14_Aug_2025 10_37.d

Lab ID: LCSD 410-685513/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Nitrate as N	0.750	0.702	94	0	20	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 14_Aug_2025 12_14.d

Lab ID: 620-28538-7 MS Client ID: MW-102ER/250812 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Nitrate as N	0.500	0.11 U	0.450	90	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab File ID: 14_Aug_2025 10_45.d Lab Sample ID: MB 410-685513/5

Matrix: Water Date Extracted:

Instrument ID: 23204 Date Analyzed: 08/14/2025 10:45

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-685513/3	14_Aug_2025 10_29.d	08/14/2025 10:29
	LCSD 410-685513/4	14_Aug_2025 10_37.d	08/14/2025 10:37
DUP/250812	620-28538-8	14_Aug_2025 10_53.d	08/14/2025 10:53
MW-100I/250812	620-28538-4	14_Aug_2025 11_09.d	08/14/2025 11:09
MW-103ER/250812	620-28538-5	14_Aug_2025 11_26.d	08/14/2025 11:26
MW-103B/250812	620-28538-6	14_Aug_2025 11_34.d	08/14/2025 11:34
MW-102ER/250812	620-28538-7	14_Aug_2025 11_42.d	08/14/2025 11:42
MW-102ER/250812 DU	620-28538-7 DU	14_Aug_2025 12_06.d	08/14/2025 12:06
MW-102ER/250812 MS	620-28538-7 MS	14_Aug_2025 12_14.d	08/14/2025 12:14
FB/250812	620-28538-9	14_Aug_2025 12_22.d	08/14/2025 12:22

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-100I/250812
Lab Sample ID: 620-28538-4

Matrix: Water
Lab File ID: 14_Aug_2025 11_09.d

Analysis Method: 9056A
Date Collected: 08/12/2025 12:15

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 11:09

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685513
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.11	U	0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-103ER/250812
Lab Sample ID: 620-28538-5

Matrix: Water
Lab File ID: 14_Aug_2025 11_26.d

Analysis Method: 9056A
Date Collected: 08/12/2025 13:05

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 11:26

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685513
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.11	U	0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-103B/250812
Lab Sample ID: 620-28538-6

Matrix: Water
Lab File ID: 14_Aug_2025 11_34.d

Analysis Method: 9056A
Date Collected: 08/12/2025 14:30

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 11:34

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685513
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.11	U	0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-102ER/250812
Lab Sample ID: 620-28538-7

Matrix: Water
Lab File ID: 14_Aug_2025 11_42.d

Analysis Method: 9056A
Date Collected: 08/12/2025 14:45

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 11:42

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685513
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.11	U	0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID: DUP/250812
Lab Sample ID: 620-28538-8

Matrix: Water
Lab File ID: 14_Aug_2025 10_53.d

Analysis Method: 9056A
Date Collected: 08/12/2025 00:00

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 10:53

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685513
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.11	U H	0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID: FB/250812
Lab Sample ID: 620-28538-9

Matrix: Water
Lab File ID: 14_Aug_2025 12_22.d

Analysis Method: 9056A
Date Collected: 08/12/2025 15:00

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 12:22

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685513
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.11	U	0.11	0.050

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1 Analy Batch No.: 683874

SDG No.:

Instrument ID: 23204 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2025 13:58 Calibration End Date: 08/11/2025 15:36 Calibration ID: 75606

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-683874/2	11_Aug_2025 14_06.d
Level 2	IC 410-683874/3	11_Aug_2025 14_14.d
Level 3	IC 410-683874/4	11_Aug_2025 14_22.d
Level 4	IC 410-683874/5	11_Aug_2025 14_30.d
Level 5	IC 410-683874/6	11_Aug_2025 15_36.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Nitrite as N	2.460	2.460	2.460	2.463	2.467						2.210 - 2.710	2.462
Nitrate as N	4.057	4.050	4.043	4.033	4.033						3.807 - 4.307	4.043

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1 Analy Batch No.: 683874

SDG No.:

Instrument ID: 23204 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2025 13:58 Calibration End Date: 08/11/2025 15:36 Calibration ID: 75606

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-683874/2	11_Aug_2025 14_06.d
Level 2	IC 410-683874/3	11_Aug_2025 14_14.d
Level 3	IC 410-683874/4	11_Aug_2025 14_22.d
Level 4	IC 410-683874/5	11_Aug_2025 14_30.d
Level 5	IC 410-683874/6	11_Aug_2025 15_36.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 2	LVL 3	LVL 4		B	M1	M2								
Nitrite as N	18068430 20998406	19295970	20975118	21099723	Lin2	-307755.51	20969761.8				2.8		10.0	0.9990		0.9900
Nitrate as N	21135310 22595228	20013403	21667304	22468654	Lin2	-111778.09	21896410.1				5.0		10.0	0.9980		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
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1 Analy Batch No.: 683874

SDG No.:

Instrument ID: 23204 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2025 13:58 Calibration End Date: 08/11/2025 15:36 Calibration ID: 75606

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-683874/2	11_Aug_2025 14_06.d
Level 2	IC 410-683874/3	11_Aug_2025 14_14.d
Level 3	IC 410-683874/4	11_Aug_2025 14_22.d
Level 4	IC 410-683874/5	11_Aug_2025 14_30.d
Level 5	IC 410-683874/6	11_Aug_2025 15_36.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Nitrite as N	Lin2	1806843	7718388	20975118	42199446	62995217	0.100	0.400	1.00	2.00	3.00
Nitrate as N	Lin2	2113531	8005361	21667304	44937307	67785683	0.100	0.400	1.00	2.00	3.00

Curve Type Legend:
Lin2 = Linear 1/conc^2

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab Sample ID: ICV 410-683874/7 Calibration Date: 08/11/2025 15:44

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 11_Aug_2025 15_44.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrite as N	Lin2		20507045		0.748	0.750	-0.2	10.0
Nitrate as N	Lin2		21050357		0.726	0.750	-3.2	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Lab Sample ID: ICV 410-683874/7
Calibration Date: 08/11/2025 15:44

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 11_Aug_2025 15_44.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrite as N	2.47	2.22	2.72
Nitrate as N	4.06	3.81	4.31

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-685513/1 Calibration Date: 08/14/2025 10:13

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 14_Aug_2025 10_13.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrite as N	Lin2		19900557		0.726	0.750	-3.1	10.0
Nitrate as N	Lin2		20306859		0.701	0.750	-6.6	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-685513/1
Calibration Date: 08/14/2025 10:13

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 14_Aug_2025 10_13.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrite as N	2.46	2.21	2.71
Nitrate as N	4.05	3.81	4.31

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-685513/13 Calibration Date: 08/14/2025 11:50

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 14_Aug_2025 11_50.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrite as N	Lin2		19807053		0.723	0.750	-3.6	10.0
Nitrate as N	Lin2		20345905		0.702	0.750	-6.4	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-685513/13
Calibration Date: 08/14/2025 11:50

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 14_Aug_2025 11_50.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrite as N	2.46	2.21	2.71
Nitrate as N	4.05	3.81	4.31

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-685513/37 Calibration Date: 08/14/2025 15:03

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 14_Aug_2025 15_03.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrite as N	Lin2		19342359		0.706	0.750	-5.8	10.0
Nitrate as N	Lin2		20067589		0.692	0.750	-7.7	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Lab Sample ID: CCV 410-685513/37
Calibration Date: 08/14/2025 15:03

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 14_Aug_2025 15_03.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrite as N	2.46	2.21	2.71
Nitrate as N	4.05	3.81	4.31

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-685513/5

Matrix: Water
Lab File ID: 14_Aug_2025 10_45.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 10:45

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685513
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.11	U	0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-685513/2

Matrix: Water
Lab File ID: 14_Aug_2025 10_21.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 10:21

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685513
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.10	U	0.10	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-685513/14

Matrix: Water
Lab File ID: 14_Aug_2025 11_58.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 11:58

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685513
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.10	U	0.10	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-685513/38

Matrix: Water
Lab File ID: 14_Aug_2025 15_11.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 15:11

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685513
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.10	U	0.10	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: ICB 410-683874/8

Matrix: Water
Lab File ID: 11_Aug_2025 15_52.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/11/2025 15:52

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 683874
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.10	U	0.10	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-685513/3

Matrix: Water
Lab File ID: 14_Aug_2025 10_29.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 10:29

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685513
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.702		0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-685513/4

Matrix: Water
Lab File ID: 14_Aug_2025 10_37.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 10:37

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685513
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.702		0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-102ER/250812 MS
Lab Sample ID: 620-28538-7 MS

Matrix: Water
Lab File ID: 14_Aug_2025 12_14.d

Analysis Method: 9056A
Date Collected: 08/12/2025 14:45

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 12:14

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685513
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.450		0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1

SDG No.:

Client Sample ID: MW-102ER/250812 DU
Lab Sample ID: 620-28538-7 DU

Matrix: Water
Lab File ID: 14_Aug_2025 12_06.d

Analysis Method: 9056A
Date Collected: 08/12/2025 14:45

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/14/2025 12:06

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 685513
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.11	U	0.11	0.050

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Instrument ID: 23204 Start Date: 08/11/2025 13:58

Analysis Batch Number: 683874 End Date: 08/11/2025 15:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-683874/1		08/11/2025 13:58	1		IC17-AS14 4(mm)
IC 410-683874/2		08/11/2025 14:06	1	11_Aug_2025 14_06.d	IC17-AS14 4(mm)
IC 410-683874/3		08/11/2025 14:14	1	11_Aug_2025 14_14.d	IC17-AS14 4(mm)
IC 410-683874/4		08/11/2025 14:22	1	11_Aug_2025 14_22.d	IC17-AS14 4(mm)
IC 410-683874/5		08/11/2025 14:30	1	11_Aug_2025 14_30.d	IC17-AS14 4(mm)
IC 410-683874/6		08/11/2025 15:36	1	11_Aug_2025 15_36.d	IC17-AS14 4(mm)
ICV 410-683874/7		08/11/2025 15:44	1	11_Aug_2025 15_44.d	IC17-AS14 4(mm)
ICB 410-683874/8		08/11/2025 15:52	1	11_Aug_2025 15_52.d	IC17-AS14 4(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Instrument ID: 23204 Start Date: 08/14/2025 10:13

Analysis Batch Number: 685513 End Date: 08/14/2025 17:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-685513/1		08/14/2025 10:13	1	14_Aug_2025 10_13.d	IC17-AS14 4(mm)
CCB 410-685513/2		08/14/2025 10:21	1	14_Aug_2025 10_21.d	IC17-AS14 4(mm)
LCS 410-685513/3		08/14/2025 10:29	1	14_Aug_2025 10_29.d	IC17-AS14 4(mm)
LCSD 410-685513/4		08/14/2025 10:37	1	14_Aug_2025 10_37.d	IC17-AS14 4(mm)
MB 410-685513/5		08/14/2025 10:45	1	14_Aug_2025 10_45.d	IC17-AS14 4(mm)
620-28538-8	DUP/250812	08/14/2025 10:53	1	14_Aug_2025 10_53.d	IC17-AS14 4(mm)
620-28538-8	DUP/250812	08/14/2025 11:01	5	14_Aug_2025 11_01.d	IC17-AS14 4(mm)
620-28538-4	MW-100I/250812	08/14/2025 11:09	1	14_Aug_2025 11_09.d	IC17-AS14 4(mm)
620-28538-4	MW-100I/250812	08/14/2025 11:18	5	14_Aug_2025 11_18.d	IC17-AS14 4(mm)
620-28538-5	MW-103ER/250812	08/14/2025 11:26	1	14_Aug_2025 11_26.d	IC17-AS14 4(mm)
620-28538-6	MW-103B/250812	08/14/2025 11:34	1	14_Aug_2025 11_34.d	IC17-AS14 4(mm)
620-28538-7	MW-102ER/250812	08/14/2025 11:42	1	14_Aug_2025 11_42.d	IC17-AS14 4(mm)
CCV 410-685513/13		08/14/2025 11:50	1	14_Aug_2025 11_50.d	IC17-AS14 4(mm)
CCB 410-685513/14		08/14/2025 11:58	1	14_Aug_2025 11_58.d	IC17-AS14 4(mm)
620-28538-7 DU	MW-102ER/250812 DU	08/14/2025 12:06	1	14_Aug_2025 12_06.d	IC17-AS14 4(mm)
620-28538-7 MS	MW-102ER/250812 MS	08/14/2025 12:14	1	14_Aug_2025 12_14.d	IC17-AS14 4(mm)
620-28538-9	FB/250812	08/14/2025 12:22	1	14_Aug_2025 12_22.d	IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 12:30	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 12:38	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 12:46	100		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 13:10	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 14:14	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 14:22	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 14:30	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 14:38	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 14:46	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 14:55	10		IC17-AS14 4(mm)
CCV 410-685513/37		08/14/2025 15:03	1	14_Aug_2025 15_03.d	IC17-AS14 4(mm)
CCB 410-685513/38		08/14/2025 15:11	1	14_Aug_2025 15_11.d	IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 15:19	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 15:27	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 15:35	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 15:43	5		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 15:51	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/14/2025 15:59	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/14/2025 16:07	1		IC17-AS14 4(mm)

9056A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Instrument ID: 23204 Start Date: 08/14/2025 10:13

Analysis Batch Number: 685513 End Date: 08/14/2025 17:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ (QC)		08/14/2025 16:15	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/14/2025 16:23	10		IC17-AS14 4(mm)
ZZZZZ (QC)		08/14/2025 16:31	10		IC17-AS14 4(mm)
CCV 410-685513/49		08/14/2025 16:39	1		IC17-AS14 4(mm)
CCB 410-685513/50		08/14/2025 16:47	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/14/2025 16:55	10		IC17-AS14 4(mm)
ZZZZZ (QC)		08/14/2025 17:03	10		IC17-AS14 4(mm)
CCV 410-685513/53		08/14/2025 17:11	1		IC17-AS14 4(mm)
CCB 410-685513/54		08/14/2025 17:19	1		IC17-AS14 4(mm)

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28538-1

SDG No.:

Batch Number: 683874 Batch Start Date: 08/11/25 13:58 Batch Analyst: Ranson, Emily

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	WC_IC_C_Det 00228	WC_IC_QC2 01435		
IC 410-683874/2		9056A			0 mL	1.0 mL	0.5 mL			
IC 410-683874/3		9056A			0 mL	1.0 mL	2 mL			
IC 410-683874/4		9056A			0 mL	1.0 mL	5 mL			
IC 410-683874/5		9056A			0 mL	1.0 mL	10 mL			
IC 410-683874/6		9056A			0 mL	1.0 mL	15 mL			
ICV 410-683874/7		9056A			0 mL	1.0 mL		7.5 mL		
ICB 410-683874/8		9056A			0 mL					

Batch Notes	
Pipette/Syringe/Dispenser ID	anions
Eluent 1 ID	WC_IC_D20KOHW_00026
Pipette Tip Lot ID	L208595R
Vial Lot Number	430592

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28538-1

SDG No.:

Batch Number: 685513 Batch Start Date: 08/14/25 10:13 Batch Analyst: Schoener, Jacquelyn

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	WC_IC_QC2 01438			
CCV 410-685513/1		9056A			1 mL	1 mL	7.5 mL			
CCB 410-685513/2		9056A			1 mL	1 mL				
LCS 410-685513/3		9056A			1 mL	1 mL	7.5 mL			
LCSD 410-685513/4		9056A			1 mL	1 mL	7.5 mL			
MB 410-685513/5		9056A			1 mL	1 mL				
620-28538-J-8	DUP/250812	9056A	Water	T	1 mL	1 mL				
620-28538-J-8	DUP/250812	9056A	Water	T	1 mL	1 mL				
620-28538-K-4	MW-100I/250812	9056A	Water	T	1 mL	1 mL				
620-28538-K-4	MW-100I/250812	9056A	Water	T	1 mL	1 mL				
620-28538-V-5	MW-10BER/250812	9056A	Water	T	1 mL	1 mL				
620-28538-J-6	MW-103B/250812	9056A	Water	T	1 mL	1 mL				
620-28538-J-7	MW-102ER/250812	9056A	Water	T	1 mL	1 mL				
CCV 410-685513/13		9056A			1 mL	1 mL	7.5 mL			
CCB 410-685513/14		9056A			1 mL	1 mL				
620-28538-J-7 DU	MW-102ER/250812	9056A		T	1 mL	1 mL				
620-28538-J-7 MS	MW-102ER/250812	9056A		T	1 mL	1 mL	0.1 mL			
620-28538-J-9	FB/250812	9056A	Water	T	1 mL	1 mL				
CCV 410-685513/37		9056A			1 mL	1 mL	7.5 mL			
CCB 410-685513/38		9056A			1 mL	1 mL				

Batch Notes	
Pipette/Syringe/Dispenser ID	ANIONS
Eluent 1 ID	WC_IC_D20KOHW_00026
Pipette Tip Lot ID	X0022TR0ER
Vial Lot Number	430920

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28538-1

SDG No.:

Batch Number: 685513 Batch Start Date: 08/14/25 10:13 Batch Analyst: Schoener, Jacquelyn

Batch Method: 9056A Batch End Date:

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 Rhode Island Job Number: 620-28538-1

SDG No.:

Project: ESCO Steel Treaters Project

Client Sample ID	Lab Sample ID
MW-100I/250812	620-28538-4
MW-103ER/250812	620-28538-5
MW-103B/250812	620-28538-6
MW-102ER/250812	620-28538-7
DUP/250812	620-28538-8
FB/250812	620-28538-9

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-100I/250812 | Lab Sample ID: 620-28538-4

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG ID.:

Matrix: Water | Date Sampled: 08/12/2025 12:15

Reporting Basis: WET | Date Received: 08/13/2025 11:01

Preparation Batch Number: 52040 | Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	46.0	0.50	0.19	mg/L			1	6010D
7439-95-4	Magnesium	6.9	0.040	0.038	mg/L			1	6010D
7440-09-7	Potassium	0.72	1.0	0.34	mg/L	J		1	6010D
7440-23-5	Sodium	41.0	1.5	0.28	mg/L			1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-100I/250812
Lab Sample ID: 620-28538-4
Lab Name: Eurofins Rhode Island
Job No.: 620-28538-1
SDG ID.:
Matrix: Water
Date Sampled: 08/12/2025 12:15
Reporting Basis: WET
Date Received: 08/13/2025 11:01
Preparation Batch Number: 52040
Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	0.10	0.10	0.056	mg/L	U		1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-103ER/250812 | Lab Sample ID: 620-28538-5

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG ID.:

Matrix: Water | Date Sampled: 08/12/2025 13:05

Reporting Basis: WET | Date Received: 08/13/2025 11:01

Preparation Batch Number: 52040 | Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	33.7	0.50	0.19	mg/L			1	6010D
7439-95-4	Magnesium	3.8	0.040	0.038	mg/L			1	6010D
7440-09-7	Potassium	2.0	1.0	0.34	mg/L			1	6010D
7440-23-5	Sodium	7.7	1.5	0.28	mg/L			1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-103ER/250812
Lab Sample ID: 620-28538-5
Lab Name: Eurofins Rhode Island
Job No.: 620-28538-1
SDG ID.:
Matrix: Water
Date Sampled: 08/12/2025 13:05
Reporting Basis: WET
Date Received: 08/13/2025 11:01
Preparation Batch Number: 52040
Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	0.10	0.10	0.056	mg/L	U		1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-103B/250812 | Lab Sample ID: 620-28538-6

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG ID.:

Matrix: Water | Date Sampled: 08/12/2025 14:30

Reporting Basis: WET | Date Received: 08/13/2025 11:01

Preparation Batch Number: 52040 | Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	4.5	0.50	0.19	mg/L			1	6010D
7439-95-4	Magnesium	8.8	0.040	0.038	mg/L			1	6010D
7440-09-7	Potassium	1.9	1.0	0.34	mg/L			1	6010D
7440-23-5	Sodium	42.6	1.5	0.28	mg/L			1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-103B/250812
Lab Sample ID: 620-28538-6
Lab Name: Eurofins Rhode Island
Job No.: 620-28538-1
SDG ID.:
Matrix: Water
Date Sampled: 08/12/2025 14:30
Reporting Basis: WET
Date Received: 08/13/2025 11:01
Preparation Batch Number: 52040
Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	0.10	0.10	0.056	mg/L	U		1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-102ER/250812
Lab Sample ID: 620-28538-7
Lab Name: Eurofins Rhode Island
Job No.: 620-28538-1
SDG ID.:
Matrix: Water
Date Sampled: 08/12/2025 14:45
Reporting Basis: WET
Date Received: 08/13/2025 11:01
Preparation Batch Number: 52040
Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	5.6	0.50	0.19	mg/L			1	6010D
7439-95-4	Magnesium	5.4	0.040	0.038	mg/L			1	6010D
7440-09-7	Potassium	1.2	1.0	0.34	mg/L			1	6010D
7440-23-5	Sodium	12.1	1.5	0.28	mg/L			1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-102ER/250812
Lab Sample ID: 620-28538-7
Lab Name: Eurofins Rhode Island
Job No.: 620-28538-1
SDG ID.:
Matrix: Water
Date Sampled: 08/12/2025 14:45
Reporting Basis: WET
Date Received: 08/13/2025 11:01
Preparation Batch Number: 52040
Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	0.10	0.10	0.056	mg/L	U		1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUP/250812
Lab Sample ID: 620-28538-8
Lab Name: Eurofins Rhode Island
Job No.: 620-28538-1
SDG ID.:
Matrix: Water
Date Sampled: 08/12/2025 00:00
Reporting Basis: WET
Date Received: 08/13/2025 11:01
Preparation Batch Number: 52040
Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	48.8	0.50	0.19	mg/L			1	6010D
7439-95-4	Magnesium	7.3	0.040	0.038	mg/L			1	6010D
7440-09-7	Potassium	0.82	1.0	0.34	mg/L	J		1	6010D
7440-23-5	Sodium	43.3	1.5	0.28	mg/L			1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: DUP/250812
Lab Sample ID: 620-28538-8
Lab Name: Eurofins Rhode Island
Job No.: 620-28538-1
SDG ID.:
Matrix: Water
Date Sampled: 08/12/2025 00:00
Reporting Basis: WET
Date Received: 08/13/2025 11:01
Preparation Batch Number: 52040
Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	0.10	0.10	0.056	mg/L	U	H	1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FB/250812 | Lab Sample ID: 620-28538-9

Lab Name: Eurofins Rhode Island | Job No.: 620-28538-1

SDG ID.:

Matrix: Water | Date Sampled: 08/12/2025 15:00

Reporting Basis: WET | Date Received: 08/13/2025 11:01

Preparation Batch Number: 52040 | Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	0.50	0.50	0.19	mg/L	U		1	6010D
7439-95-4	Magnesium	0.040	0.040	0.038	mg/L	U		1	6010D
7440-09-7	Potassium	1.0	1.0	0.34	mg/L	U		1	6010D
7440-23-5	Sodium	1.5	1.5	0.28	mg/L	U		1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: FB/250812
Lab Sample ID: 620-28538-9
Lab Name: Eurofins Rhode Island
Job No.: 620-28538-1
SDG ID.:
Matrix: Water
Date Sampled: 08/12/2025 15:00
Reporting Basis: WET
Date Received: 08/13/2025 11:01
Preparation Batch Number: 52040
Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	0.10	0.10	0.056	mg/L	U		1	6010D

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

ICV Source: MT_ICP_ICV_00055 Concentration Units: mg/L

CCV Source: MT_ICP_CCV_00046

Analyte	ICV 620-52283/7 08/14/2025 11:16				CCV 620-52283/13 08/14/2025 11:52				CCV 620-52283/28 08/14/2025 15:41			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Calcium	4.92		5.00	98	9.72		10.0	97	10.02		10.0	100
Iron	5.05		5.00	101	9.74		10.0	97	9.10		10.0	91
Magnesium	4.98		5.00	100	9.79		10.0	98	10.04		10.0	100
Potassium	48.36		50.0	97	9.65		10.0	96	9.80		10.0	98
Sodium	5.03		5.00	101	9.76		10.0	98	10.33		10.0	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 Rhode Island Job No.: 620-28538-1

SDG No.:

ICV Source: MT_ICP_ICV_00055 Concentration Units: mg/L

CCV Source: MT_ICP_CCV_00046

Analyte	CCV 620-52283/40 08/14/2025 16:53											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Calcium												
Iron	9.07		10.0	91								
Magnesium												
Potassium												
Sodium												

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Method: 6010D Instrument ID: ICAP4

Lab Sample ID: CRI 620-52283/10 Concentration Units: mg/L

CRQL Check Standard Source: MT_ICP_Cal2RL_00040

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Calcium	0.200	0.209	J	104	80-120
Iron	0.100	0.109		109	80-120
Magnesium	0.0200	0.10	U	88	80-120
Potassium	1.00	0.955	J	95	80-120
Sodium	1.50	1.46	J	97	80-120

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 620-52283/9 08/14/2025 11:28		CCB 620-52283/14 08/14/2025 11:58		CCB 620-52283/29 08/14/2025 15:47		CCB 620-52283/41 08/14/2025 16:59	
		Found	C	Found	C	Found	C	Found	C
Calcium	1.0	1.0	U	1.0	U	1.0	U		
Iron	0.10	0.10	U	0.10	U	0.10	U	0.10	U
Magnesium	0.10	0.10	U	0.10	U	0.10	U		
Potassium	1.0	1.0	U	1.0	U	1.0	U		
Sodium	1.5	1.5	U	1.5	U	1.5	U		

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 620-52040/1-A

Instrument Code: ICAP4 Batch No.: 52283

CAS No.	Analyte	Concentration	C	Q	Method
7440-70-2	Calcium	0.25	U		6010D
7439-95-4	Magnesium	0.020	U		6010D
7440-09-7	Potassium	0.50	U		6010D
7440-23-5	Sodium	0.75	U		6010D

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 620-52034/1-B

Instrument Code: ICAP4 Batch No.: 52283

CAS No.	Analyte	Concentration	C	Q	Method
7439-89-6	Iron	0.10	U		6010D

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Lab Sample ID: ICSA 620-52283/11 Instrument ID: ICAP4

Lab File ID: 20250814_ICAP4.asc ICS Source: MT_ICP_ICSA_00042

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Calcium	**200**	**188**	**94**
Iron	**80.0**	**75.0**	**94**
Magnesium	**200**	**181**	**91**
Potassium		**0.101**	
Sodium		**0.106**	
Aluminum	*200*	*194*	*97*
Antimony		*0.0064*	
Arsenic		*0.0028*	
Barium		*0.0014*	
Beryllium		*0.0009*	
Boron		*0.0096*	
Cadmium		*-0.0011*	
Chromium		*0.0185*	
Cobalt		*-0.0005*	
Copper		*0.0071*	
Lead		*0.0012*	
Lithium		*0.0037*	
Manganese		*0.0011*	
Molybdenum		*0.0000*	
Nickel		*-0.0020*	
Phosphorus as P		*0.0035*	
Selenium		*-0.0022*	
Silicon		*-0.0182*	
Silver		*-0.0043*	
Strontium		*0.0052*	
Sulfur		*0.0390*	
Thallium		*-0.0032*	
Tin		*0.0114*	
Titanium		*0.0000*	
Vanadium		*0.0047*	
Zinc		*0.0122*	

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 Rhode Island Job No.: 620-28538-1

SDG No.:

Lab Sample ID: ICSAB 620-52283/12 Instrument ID: ICAP4

Lab File ID: 20250814_ICAP4.asc ICS Source: MT_ICP_ICSAB_00046

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Calcium	**200**	**187**	**94**
Iron	**80.0**	**75.0**	**94**
Magnesium	**200**	**181**	**90**
Potassium		**-0.0132**	
Sodium		**0.136**	
Aluminum	*200*	*186*	*93*
Antimony	*0.300*	*0.297*	*99*
Arsenic	*0.500*	*0.488*	*98*
Barium	*0.250*	*0.241*	*97*
Beryllium	*0.250*	*0.258*	*103*
Boron		*0.0087*	
Cadmium	*0.500*	*0.468*	*94*
Chromium	*0.250*	*0.264*	*106*
Cobalt	*0.250*	*0.231*	*92*
Copper	*0.250*	*0.208*	*83*
Lead	*0.500*	*0.456*	*91*
Lithium		*0.0032*	
Manganese	*0.250*	*0.246*	*98*
Molybdenum		*0.0000*	
Nickel	*0.500*	*0.454*	*91*
Phosphorus as P		*0.0054*	
Selenium	*0.500*	*0.471*	*94*
Silicon		*-0.0110*	
Silver	*0.500*	*0.508*	*102*
Strontium		*0.0049*	
Sulfur		*0.0424*	
Thallium	*0.500*	*0.453*	*91*
Tin		*0.0090*	
Titanium		*0.0001*	
Vanadium	*0.250*	*0.251*	*100*
Zinc	*0.500*	*0.480*	*96*

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: _____ Lab ID: 620-28487-F-1-C MS

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.: _____

Matrix: Water Concentration Units: mg/L

% Solids: _____

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Calcium	9.63		5.1		4.50	102	75-125		6010D
Iron	2.45		1.2		1.50	85	75-125		6010D
Magnesium	2.56		1.1		1.50	98	75-125		6010D
Potassium	22.61		8.6		15.0	94	75-125		6010D
Sodium	36.86		30.1		4.50	151	75-125	4	6010D

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

6-IN
DUPLICATES
METALS

Client ID: _____ Lab ID: 620-28487-F-1-B DU

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.: _____

% Solids for Sample: _____ % Solids for Duplicate: _____

Matrix: Water Concentration Units: mg/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Calcium	0.50	5.1		5.39		6		6010D
Iron	0.10	1.2		1.19		1		6010D
Magnesium	0.040	1.1		1.16		6		6010D
Potassium	1.0	8.6		9.05		5		6010D
Sodium	1.5	30.1		31.83		6		6010D

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 620-52040/2-A

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

Sample Matrix: Water LCS Source: MT_ICP_SPIKE_00130

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Calcium	2.25	2.09		93	80	120		6010D
Iron	0.750	0.725		97	80	120		6010D
Magnesium	0.750	0.694		92	80	120		6010D
Potassium	7.50	6.62		88	80	120		6010D
Sodium	2.25	2.44		109	80	120		6010D

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins Rhode Island Job Number: 620-28538-1

SDG Number:

Matrix: Water Instrument ID: ICAP4

Method: 6010D MDL Date: 04/08/2020 15:34

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Calcium	315.8	0.5	0.18664
Magnesium	285.2	0.04	0.03757
Potassium	766.4	1	0.34178
Sodium	589.5	1.5	0.28342

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins Rhode Island Job Number: 620-28538-1

SDG Number:

Matrix: Water Instrument ID: ICAP4

Method: 6010D XMDL Date: 04/08/2020 15:07

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Calcium	315.8	1	0.18664
Magnesium	285.2	0.1	0.03757
Potassium	766.4	1	0.34178
Sodium	589.5	1.5	0.28342

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins Rhode Island Job Number: 620-28538-1

SDG Number:

Matrix: Water Instrument ID: ICAP4

Method: 6010D MDL Date: 04/08/2020 15:34

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Iron	240.4	0.1	0.05623

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins Rhode Island Job Number: 620-28538-1

SDG Number:

Matrix: Water Instrument ID: ICAP4

Method: 6010D XMDL Date: 04/08/2020 15:07

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Iron	240.4	0.1	0.05623

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins Rhode Island Job No: 620-28538-1

SDG No.:

Instrument ID: ICAP4 Date: 04/09/2020 10:45

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Calcium		500	6010D
Iron		500	6010D
Magnesium		100	6010D
Potassium		500	6010D
Sodium		500	6010D

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 620-52040/1-A	08/13/2025 14:35	52040		50	25
LCS 620-52040/2-A	08/13/2025 14:35	52040		50	25
620-28487-F-1-B DU	08/13/2025 14:35	52040		50	50
620-28487-F-1-C MS	08/13/2025 14:35	52040		50	50
620-28538-4	08/13/2025 14:35	52040		50	50
620-28538-5	08/13/2025 14:35	52040		50	50
620-28538-6	08/13/2025 14:35	52040		50	50
620-28538-7	08/13/2025 14:35	52040		50	50
620-28538-8	08/13/2025 14:35	52040		50	50
620-28538-9	08/13/2025 14:35	52040		50	50
MB 620-52034/1-B	08/13/2025 14:35	52040		50	50
620-28538-4	08/13/2025 14:35	52040		50	50
620-28538-5	08/13/2025 14:35	52040		50	50
620-28538-6	08/13/2025 14:35	52040		50	50
620-28538-7	08/13/2025 14:35	52040		50	50
620-28538-8	08/13/2025 14:35	52040		50	50
620-28538-9	08/13/2025 14:35	52040		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Instrument ID: ICAP4 Method: 6010D

Start Date: 08/14/2025 10:40 End Date: 08/14/2025 19:37

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ca	Fe	K	Mg	Na															
ICIS 620-52283/1	1		10:40	X	X	X	X	X															
STD2 620-52283/2 IC			10:46	X	X	X	X	X															
STD3 620-52283/3 IC			10:52	X	X	X	X	X															
STD4 620-52283/4 IC			10:58	X	X	X	X	X															
STD5 620-52283/5 IC			11:04	X	X	X	X	X															
STD6 620-52283/6 IC			11:10	X	X	X	X	X															
ICV 620-52283/7	1		11:16	X	X	X	X	X															
ICV 620-52283/8			11:22																				
ICB 620-52283/9	1		11:28	X	X	X	X	X															
CRI 620-52283/10	1		11:34	X	X	X	X	X															
ICSA 620-52283/11	1		11:40	X	X	X	X	X															
ICSAB 620-52283/12	1		11:46	X	X	X	X	X															
CCV 620-52283/13	1		11:52	X	X	X	X	X															
CCB 620-52283/14	1		11:58	X	X	X	X	X															
MB 620-52040/1-A	1	T	13:30	X		X	X	X															
LCS 620-52040/2-A	1	T	13:36	X	X	X	X	X															
ZZZZZZ (Client)			14:24																				
620-28487-F-1-B DU	1	T	14:42	X	X	X	X	X															
620-28487-F-1-C MS	1	T	14:48	X	X	X	X	X															
620-28538-4	1	T	14:54	X		X	X	X															
620-28538-5	1	T	14:59	X		X	X	X															
620-28538-6	1	T	15:05	X		X	X	X															
620-28538-7	1	T	15:11	X		X	X	X															
620-28538-8	1	T	15:17	X		X	X	X															
620-28538-9	1	T	15:23	X		X	X	X															
MB 620-52034/1-B	1	D	15:29		X																		
620-28538-4	1	D	15:35		X																		
CCV 620-52283/28	1		15:41	X	X	X	X	X															
CCB 620-52283/29	1		15:47	X	X	X	X	X															
620-28538-5	1	D	15:53		X																		
620-28538-6	1	D	15:59		X																		
620-28538-7	1	D	16:05		X																		
620-28538-8	1	D	16:11		X																		
620-28538-9	1	D	16:17		X																		
ZZZZZZ (Client)			16:23																				
ZZZZZZ (Client)			16:29																				
ZZZZZZ (Client)			16:35																				
ZZZZZZ (Client)			16:41																				
ZZZZZZ (Client)			16:47																				
CCV 620-52283/40	1		16:53		X																		
CCB 620-52283/41	1		16:59		X																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Instrument ID: ICAP4 Method: 6010D

Start Date: 08/14/2025 10:40 End Date: 08/14/2025 19:37

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ca	Fe	K	Mg	Na															
ZZZZZZ (Client)			17:26																				
ZZZZZZ (Client)			17:32																				
ZZZZZZ (QC)			17:38																				
ZZZZZZ (QC)			17:44																				
ZZZZZZ (Client)			17:50																				
ZZZZZZ (QC)			17:56																				
ZZZZZZ (QC)			18:02																				
ZZZZZZ (Client)			18:08																				
ZZZZZZ (Client)			18:14																				
ZZZZZZ (Client)			18:19																				
CCV 620-52283/52			18:25																				
CCB 620-52283/53			18:31																				
ZZZZZZ (Client)			18:37																				
ZZZZZZ (Client)			18:43																				
ZZZZZZ (Client)			18:49																				
ZZZZZZ (Client)			18:55																				
ZZZZZZ (Client)			19:01																				
ZZZZZZ (Client)			19:07																				
ZZZZZZ (Client)			19:13																				
ZZZZZZ (Client)			19:19																				
ZZZZZZ (Client)			19:25																				
CCV 620-52283/63			19:31																				
CCB 620-52283/64			19:37																				

Prep Types
D = Dissolved
T = Total/NA

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.: Analysis Batch No.: 52283

ICP Instrument ID: ICAP4 Start Date: 08/14/2025 End Date: 08/14/2025

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In	Q	Element Y	Q	Element	Q	Element	Q	Element	Q
ICIS 620-52283/1	10:40										
ICV 620-52283/7	11:16	90		96							
ICV 620-52283/8	11:22	100		101							
ICB 620-52283/9	11:28	98		98							
CRI 620-52283/10	11:34	99		98							
ICSA 620-52283/11	11:40	83		90							
ICSAB 620-52283/12	11:46	83		90							
CCV 620-52283/13	11:52	92		98							
CCB 620-52283/14	11:58	99		99							
MB 620-52040/1-A	13:30	97		97							
LCS 620-52040/2-A	13:36	93		96							
620-28487-F-1-B DU	14:42	93		94							
620-28487-F-1-C MS	14:48	88		93							
620-28538-4	14:54	90		92							
620-28538-5	14:59	91		93							
620-28538-6	15:05	90		93							
620-28538-7	15:11	92		93							
620-28538-8	15:17	88		92							
620-28538-9	15:23	93		93							
MB 620-52034/1-B	15:29	94		94							
620-28538-4	15:35	89		91							
CCV 620-52283/28	15:41	84		90							
CCB 620-52283/29	15:47	96		94							
620-28538-5	15:53	91		92							
620-28538-6	15:59	90		92							
620-28538-7	16:05	94		93							
620-28538-8	16:11	88		91							
620-28538-9	16:17	94		94							
CCV 620-52283/40	16:53	86		92							
CCB 620-52283/41	16:59	94		94							
IS Name on Instrument											

METALS BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Batch Number: 52034 Batch Start Date: 08/13/25 11:49 Batch Analyst: Walek, Daniel J

Batch Method: Filtration Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	Final pH		
MB 620-52034/1		Filtration, 3005A, 6010D			250 mL	250 mL	7 SU	<2 SU		
620-28538-A-4	MW-100I/250812	Filtration, 3005A, 6010D	Water	D	250 mL	250 mL	7 SU	<2 SU		
620-28538-A-5	MW-103ER/250812	Filtration, 3005A, 6010D	Water	D	250 mL	250 mL	7 SU	<2 SU		
620-28538-A-6	MW-103B/250812	Filtration, 3005A, 6010D	Water	D	250 mL	250 mL	7 SU	<2 SU		
620-28538-A-7	MW-102ER/250812	Filtration, 3005A, 6010D	Water	D	250 mL	250 mL	7 SU	<2 SU		
620-28538-A-8	DUP/250812	Filtration, 3005A, 6010D	Water	D	250 mL	250 mL	7 SU	<2 SU		
620-28538-A-9	FB/250812	Filtration, 3005A, 6010D	Water	D	250 mL	250 mL	7 SU	<2 SU		

Batch Notes	
Filter ID	F38

Basis	Basis Description
D	Dissolved

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 Rhode Island Job No.: 620-28538-1

SDG No.:

Batch Number: 52040 Batch Start Date: 08/13/25 14:35 Batch Analyst: Costa, Samuel R

Batch Method: 3005A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	Initial pH	InitialAmount	FinalAmount	MT_ICP_SPIKE 00130		
MB 620-52040/1		3005A, 6010D			7 SU	50 mL	25 mL			
LCS 620-52040/2		3005A, 6010D			7 SU	50 mL	25 mL	1.5 mL		
620-28487-F-1 DU		3005A, 6010D		T	<2 SU	50 mL	50 mL			
620-28487-F-1 MS		3005A, 6010D		T	<2 SU	50 mL	50 mL	3 mL		
620-28538-M-4	MW-100I/250812	3005A, 6010D	Water	T	<2 SU	50 mL	50 mL			
620-28538-X-5	MW-103ER/250812	3005A, 6010D	Water	T	<2 SU	50 mL	50 mL			
620-28538-M-6	MW-103B/250812	3005A, 6010D	Water	T	<2 SU	50 mL	50 mL			
620-28538-M-7	MW-102ER/250812	3005A, 6010D	Water	T	<2 SU	50 mL	50 mL			
620-28538-M-8	DUP/250812	3005A, 6010D	Water	T	<2 SU	50 mL	50 mL			
620-28538-M-9	FB/250812	3005A, 6010D	Water	T	<2 SU	50 mL	50 mL			
MB 620-52034/1-A		3005A, 6010D			<2 SU	50 mL	50 mL			
620-28538-A-4-A	MW-100I/250812	3005A, 6010D	Water	D	<2 SU	50 mL	50 mL			
620-28538-A-5-A	MW-103ER/250812	3005A, 6010D	Water	D	<2 SU	50 mL	50 mL			
620-28538-A-6-A	MW-103B/250812	3005A, 6010D	Water	D	<2 SU	50 mL	50 mL			
620-28538-A-7-A	MW-102ER/250812	3005A, 6010D	Water	D	<2 SU	50 mL	50 mL			
620-28538-A-8-A	DUP/250812	3005A, 6010D	Water	D	<2 SU	50 mL	50 mL			
620-28538-A-9-A	FB/250812	3005A, 6010D	Water	D	<2 SU	50 mL	50 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28538-1

SDG No.:

Batch Number: 52040 Batch Start Date: 08/13/25 14:35 Batch Analyst: Costa, Samuel R

Batch Method: 3005A Batch End Date:

Batch Notes	
pH Indicator ID	410503
Digestion Tube/Cup ID	627911
Pipette/Syringe/Dispenser ID	sb6
Analyst ID - Spike Analyst	way5
Analyst ID - Spike Witness Analyst	ybf9
Sufficient Volume for Batch QC	50
Hydrochloric Acid ID	628206
Nitric Acid ID	628203
Digestion Unit ID	hb1
Thermometer ID	6413
Temperature - Uncorrected - Start	90 Degrees C
Temperature - Corrected - Start	90 Degrees C
Digestion Start Time	08/13/2025 18:13
Digestion End Time	08/14/2025 05:15
Temperature - Uncorrected - End	90 Degrees C
Temperature - Corrected - End	90 Degrees C

Basis	Basis Description
T	Total/NA
D	Dissolved

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 Lancaster Laboratories Environment Testing, LLC Job Number: 620-28538-1

SDG No.:

Project: ESCO Steel Treaters Project

Client Sample ID	Lab Sample ID
MW-100I/250812	620-28538-4
MW-103ER/250812	620-28538-5
MW-103B/250812	620-28538-6
MW-102ER/250812	620-28538-7
DUP/250812	620-28538-8
FB/250812	620-28538-9

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-100I/250812
Lab Sample ID: 620-28538-4
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1
SDG ID.:
Matrix: Water
Date Sampled: 08/12/2025 12:15
Reporting Basis: WET
Date Received: 08/13/2025 11:01
Preparation Batch Number:
Instrument ID: 19153

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Total Alkalinity	238	8.0	2.6	mg/L			1	2320B-2011
7440-44-0	Total Organic Carbon	5.6	1.0	0.50	mg/L			1	5310 C-2014
	Total Inorganic Carbon	37.7	2.0	0.60	mg/L			1	5310 C-2014

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-103ER/250812
Lab Sample ID: 620-28538-5
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1
SDG ID.:
Matrix: Water
Date Sampled: 08/12/2025 13:05
Reporting Basis: WET
Date Received: 08/13/2025 11:01
Preparation Batch Number:
Instrument ID: 19153

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Total Alkalinity	130	8.0	2.6	mg/L			1	2320B-2011
7440-44-0	Total Organic Carbon	3.5	1.0	0.50	mg/L			1	5310 C-2014
	Total Inorganic Carbon	23.4	2.0	0.60	mg/L			1	5310 C-2014

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-103B/250812 | Lab Sample ID: 620-28538-6

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 620-28538-1

SDG ID.:

Matrix: Water | Date Sampled: 08/12/2025 14:30

Reporting Basis: WET | Date Received: 08/13/2025 11:01

Preparation Batch Number: | Instrument ID: 19153

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Total Alkalinity	120	8.0	2.6	mg/L			1	2320B-2011

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-102ER/250812
Lab Sample ID: 620-28538-7
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1
SDG ID.:
Matrix: Water
Date Sampled: 08/12/2025 14:45
Reporting Basis: WET
Date Received: 08/13/2025 11:01
Preparation Batch Number:
Instrument ID: 19153

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Total Alkalinity	64.9	8.0	2.6	mg/L			1	2320B-2011
7440-44-0	Total Organic Carbon	2.3	1.0	0.50	mg/L			1	5310 C-2014
	Total Inorganic Carbon	9.6	2.0	0.60	mg/L			1	5310 C-2014

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DUP/250812
Lab Sample ID: 620-28538-8
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1
SDG ID.:
Matrix: Water
Date Sampled: 08/12/2025 00:00
Reporting Basis: WET
Date Received: 08/13/2025 11:01
Preparation Batch Number:
Instrument ID: 19153

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Total Alkalinity	234	8.0	2.6	mg/L			1	2320B-2011
7440-44-0	Total Organic Carbon	5.8	1.0	0.50	mg/L			1	5310 C-2014
	Total Inorganic Carbon	34.6	2.0	0.60	mg/L			1	5310 C-2014

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: FB/250812
Lab Sample ID: 620-28538-9
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28538-1
SDG ID.:
Matrix: Water
Date Sampled: 08/12/2025 15:00
Reporting Basis: WET
Date Received: 08/13/2025 11:01
Preparation Batch Number:
Instrument ID: 19153

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Total Alkalinity	8.0	8.0	2.6	mg/L	U		1	2320B-2011
7440-44-0	Total Organic Carbon	1.0	1.0	0.50	mg/L	U		1	5310 C-2014
	Total Inorganic Carbon	2.0	2.0	0.60	mg/L	U		1	5310 C-2014

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Analyst: DI9Q Batch Start Date: 08/14/2025

Reporting Units: mg/L Analytical Batch No.: 686141

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
42	CCV	19:53	Total Alkalinity	91.30	94.0	97	90-110		WC_Alk_LCS_00027
43	CCB	19:59	Total Alkalinity	8.0				U	
54	CCV	21:12	Total Alkalinity	87.85	94.0	93	90-110		WC_Alk_LCS_00027
55	CCB	21:17	Total Alkalinity	8.0				U	
66	CCV	22:25	Total Alkalinity	86.78	94.0	92	90-110		WC_Alk_LCS_00027
67	CCB	22:30	Total Alkalinity	8.0				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 Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Analyst: P684 Batch Start Date: 08/19/2025

Reporting Units: mg/L Analytical Batch No.: 688232

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
4	CCV	20:38	Total Organic Carbon	46.97	50.0	94	85-115		WC_TOC_QC_STD_00075
5	CCB	20:58	Total Organic Carbon	1.0				U	
16	CCV	00:37	Total Organic Carbon	23.41	25.0	94	85-115		WC_TOC_QC_STD_00075
17	CCB	00:57	Total Organic Carbon	1.0				U	
28	CCVL	04:35	Total Organic Carbon	4.80	5.00	96			WC_TOC_QC_STD_00075

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 Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 686141 Date: 08/14/2025 20:05							
2320B-2011	MB 410-686141/44	Total Alkalinity	8.0	U	mg/L	8.0	1
Batch ID: 688232 Date: 08/19/2025 21:37							
5310 C-2014	MB 410-688232/7	Total Organic Carbon	1.0	U	mg/L	1.0	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 686141 Date: 08/14/2025 20:32											
2320B-2011	410-237120-U-3	Total Alkalinity	248		mg/L						
2320B-2011	410-237120-U-3 MS	Total Alkalinity	329.3		mg/L	189	43	80-110			N
Batch ID: 688232 Date: 08/19/2025 22:38											
5310C-2014	620-28495-E-3	Total Organic Carbon	9.6		mg/L						
5310C-2014	620-28495-E-3 MS	Total Organic Carbon	19.73		mg/L	10.0	101	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 686141 Date: 08/14/2025 20:38								
2320B-2011		410-237120-S-3	Total Alkalinity	248	mg/L			
2320B-2011		410-237120-S-3 DU	Total Alkalinity	248.4	mg/L	0	10	
Batch ID: 688232 Date: 08/19/2025 22:18								
5310 C-2014		620-28495-E-3	Total Organic Carbon	9.6	mg/L			
5310 C-2014		620-28495-E-3 DU	Total Organic Carbon	9.77	mg/L	2	15	

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 Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 686141 Date: 08/14/2025 20:12											
						LCS Source: WC_Alk_LCS_00025					
2320B-2011	LCS 410-686141/45	Total Alkalinity	177.7		mg/L	189	94	80-110	2	10	
Batch ID: 688232 Date: 08/19/2025 21:18											
						LCS Source: WC_TOC_QC_STD_00075					
5310 C-2014	LCS 410-688232/6	Total Organic Carbon	47.15		mg/L	50.0	94	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 686141 Date: 08/14/2025 20:18											
						LCSD Source: WC_Alk_LCS_00025					
2320B-2011	LCSD 410-686141/46	Total Alkalinity	181.7		mg/L	189	96	80-110	2	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
METHOD REPORTING LIMIT CHECK
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 688232 Date: 08/19/2025 19:19											
						LCS Source: WC_TOC_QC_STD_00075					
5310 C-2014	MRL 410-688232/1	Total Organic Carbon	0.939	J	mg/L	1.00	94	50-150			

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 Lancaster Laboratories Environment Testing, LLC Job Number: 620-28538-1

SDG Number:

Matrix: Water Instrument ID: 19153

Method: 2320B-2011 MDL Date: 06/03/2019 10:35

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Alkalinity		8	2.6

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 620-28538-1

SDG Number:

Matrix: Water Instrument ID: 19153

Method: 2320B-2011 XMDL Date: 06/03/2019 08:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Alkalinity		8	2.6

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 620-28538-1

SDG Number:

Matrix: Water Instrument ID: 8742

Method: 5310 C-2014 MDL Date: 11/29/2018 18:05

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Organic Carbon		1	0.5

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 620-28538-1

SDG Number:

Matrix: Water Instrument ID: 8742

Method: 5310 C-2014 XMDL Date: 11/21/2018 10:17

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Organic Carbon		1	0.5

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 620-28538-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 5310 C-2014 MDL Date: 11/29/2018 18:05

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Inorganic Carbon		2	0.6

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 620-28538-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 5310 C-2014 XMDL Date: 11/21/2018 10:17

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Inorganic Carbon		2	0.6

11-IN
LINEAR RANGES
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No: 620-28538-1

SDG No.:

Instrument ID: 8742 Date: 11/20/2023 16:41

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Total Organic Carbon		100	5310 C-2014

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Instrument ID: 19153 Method: 2320B-2011

Start Date: 08/14/2025 17:09 End Date: 08/15/2025 09:23

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			17:09																				
ZZZZZZ			17:13																				
ZZZZZZ			17:16																				
ZZZZZZ			17:19																				
ZZZZZZ (Client)			17:23																				
ZZZZZZ (Client)			17:26																				
ZZZZZZ (Client)			17:30																				
ZZZZZZ (Client)			17:34																				
ZZZZZZ (Client)			17:38																				
ZZZZZZ (Client)			17:42																				
ZZZZZZ (Client)			17:46																				
ZZZZZZ (Client)			17:49																				
ZZZZZZ			17:53																				
ZZZZZZ (Client)			17:57																				
ZZZZZZ			18:01																				
ZZZZZZ			18:04																				
ZZZZZZ (Client)			18:08																				
ZZZZZZ (Client)			18:12																				
ZZZZZZ (Client)			18:15																				
ZZZZZZ (Client)			18:19																				
ZZZZZZ (Client)			18:23																				
ZZZZZZ (Client)			18:27																				
ZZZZZZ (Client)			18:31																				
ZZZZZZ			18:34																				
ZZZZZZ (Client)			18:38																				
ZZZZZZ (Client)			18:42																				
ZZZZZZ (Client)			18:46																				
ZZZZZZ (Client)			18:50																				
ZZZZZZ (Client)			18:54																				
ZZZZZZ (Client)			18:58																				
ZZZZZZ (Client)			19:01																				
ZZZZZZ (Client)			19:05																				
ZZZZZZ (Client)			19:09																				
ZZZZZZ (Client)			19:13																				
ZZZZZZ			19:17																				
CCV 410-686141/36			19:24																				
CCB 410-686141/37			19:30																				
ZZZZZZ (Client)			19:34																				
ZZZZZZ (Client)			19:38																				
ZZZZZZ (Client)			19:42																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Instrument ID: 19153 Method: 2320B-2011

Start Date: 08/14/2025 17:09 End Date: 08/15/2025 09:23

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			19:45																				
CCV 410-686141/42	1		19:53	X																			
CCB 410-686141/43	1		19:59	X																			
MB 410-686141/44	1	T	20:05	X																			
LCS 410-686141/45	1	T	20:12	X																			
LCSD 410-686141/46	1	T	20:18	X																			
ZZZZZZ (Client)			20:25																				
410-237120-U-3 MS	1	T	20:32	X																			
410-237120-S-3 DU	1	T	20:38	X																			
ZZZZZZ (Client)			20:46																				
ZZZZZZ (Client)			20:52																				
ZZZZZZ (Client)			20:58																				
ZZZZZZ (Client)			21:04																				
CCV 410-686141/54	1		21:12	X																			
CCB 410-686141/55	1		21:17	X																			
620-28538-9	1	T	21:21	X																			
ZZZZZZ (Client)			21:27																				
ZZZZZZ (Client)			21:34																				
ZZZZZZ (Client)			21:40																				
ZZZZZZ (Client)			21:46																				
620-28538-5	1	T	21:53	X																			
620-28538-8	1	T	21:59	X																			
620-28538-4	1	T	22:05	X																			
620-28538-6	1	T	22:12	X																			
620-28538-7	1	T	22:18	X																			
CCV 410-686141/66	1		22:25	X																			
CCB 410-686141/67	1		22:30	X																			
ZZZZZZ (Client)			22:36																				
ZZZZZZ (Client)			22:43																				
ZZZZZZ (Client)			22:49																				
ZZZZZZ (Client)			22:55																				
ZZZZZZ (Client)			23:00																				
ZZZZZZ			23:04																				
CCV 410-686141/74			23:11																				
CCB 410-686141/75			23:16																				
ZZZZZZ (QC)			23:20																				
ZZZZZZ			23:24																				
ZZZZZZ			23:27																				
ZZZZZZ (QC)			23:34																				
ZZZZZZ (QC)			23:40																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Instrument ID: 19153 Method: 2320B-2011

Start Date: 08/14/2025 17:09 End Date: 08/15/2025 09:23

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ (Client)			23:45																				
ZZZZZZ (Client)			23:51																				
ZZZZZZ (Client)			23:57																				
ZZZZZZ (Client)			00:04																				
ZZZZZZ (Client)			00:10																				
ZZZZZZ			00:14																				
CCV 410-686141/87			00:21																				
CCB 410-686141/88			00:25																				
ZZZZZZ (Client)			00:30																				
ZZZZZZ (Client)			00:36																				
ZZZZZZ (Client)			00:43																				
ZZZZZZ (Client)			00:49																				
ZZZZZZ (Client)			00:55																				
ZZZZZZ (Client)			01:01																				
ZZZZZZ (Client)			01:07																				
ZZZZZZ (Client)			01:13																				
ZZZZZZ			01:17																				
CCV 410-686141/98			01:24																				
CCB 410-686141/99			01:29																				
ZZZZZZ (Client)			01:34																				
ZZZZZZ (Client)			01:43																				
ZZZZZZ (Client)			01:48																				
ZZZZZZ (Client)			01:53																				
ZZZZZZ (Client)			01:58																				
ZZZZZZ (Client)			02:04																				
ZZZZZZ (Client)			02:10																				
ZZZZZZ			02:14																				
CCV 410-686141/108			02:20																				
CCB 410-686141/109			02:25																				
ZZZZZZ (QC)			02:30																				
ZZZZZZ			02:34																				
ZZZZZZ			02:37																				
ZZZZZZ (QC)			02:44																				
ZZZZZZ (QC)			02:50																				
ZZZZZZ (Client)			02:56																				
ZZZZZZ (QC)			03:03																				
ZZZZZZ (Client)			03:09																				
ZZZZZZ (Client)			03:13																				
ZZZZZZ (Client)			03:20																				
ZZZZZZ			03:24																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Instrument ID: 19153 Method: 2320B-2011

Start Date: 08/14/2025 17:09 End Date: 08/15/2025 09:23

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
CCV 410-686141/121			03:30																				
CCB 410-686141/122			03:35																				
ZZZZZZ (Client)			03:41																				
ZZZZZZ (Client)			03:48																				
ZZZZZZ (Client)			03:54																				
ZZZZZZ (Client)			04:00																				
ZZZZZZ (Client)			04:05																				
ZZZZZZ (Client)			04:11																				
ZZZZZZ (Client)			04:16																				
ZZZZZZ (Client)			04:22																				
ZZZZZZ (Client)			04:28																				
ZZZZZZ (Client)			04:34																				
ZZZZZZ			04:38																				
CCV 410-686141/134			04:44																				
CCB 410-686141/135			04:49																				
ZZZZZZ (Client)			04:55																				
ZZZZZZ (Client)			05:01																				
ZZZZZZ (Client)			05:07																				
ZZZZZZ (Client)			05:13																				
ZZZZZZ (Client)			05:19																				
ZZZZZZ (Client)			05:24																				
ZZZZZZ			05:28																				
CCV 410-686141/143			05:35																				
CCB 410-686141/144			05:40																				
ZZZZZZ (QC)			05:44																				
ZZZZZZ			05:48																				
ZZZZZZ			05:51																				
ZZZZZZ (QC)			05:58																				
ZZZZZZ (QC)			06:04																				
ZZZZZZ (Client)			06:08																				
ZZZZZZ (Client)			06:16																				
ZZZZZZ (Client)			06:20																				
ZZZZZZ (Client)			06:32																				
ZZZZZZ (Client)			06:38																				
ZZZZZZ			06:41																				
CCV 410-686141/156			06:48																				
CCB 410-686141/157			06:53																				
ZZZZZZ (Client)			06:57																				
ZZZZZZ (Client)			07:07																				
ZZZZZZ (Client)			07:10																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Instrument ID: 19153 Method: 2320B-2011

Start Date: 08/14/2025 17:09 End Date: 08/15/2025 09:23

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ (Client)			07:19																				
ZZZZZZ (Client)			07:22																				
ZZZZZZ (Client)			07:29																				
ZZZZZZ (Client)			07:33																				
ZZZZZZ (Client)			07:40																				
ZZZZZZ (Client)			07:44																				
ZZZZZZ (Client)			07:50																				
ZZZZZZ			07:54																				
CCV 410-686141/169			08:01																				
CCB 410-686141/170			08:06																				
ZZZZZZ (Client)			08:10																				
ZZZZZZ (Client)			08:17																				
ZZZZZZ (Client)			08:20																				
ZZZZZZ (Client)			08:29																				
ZZZZZZ (Client)			08:32																				
ZZZZZZ (Client)			08:41																				
ZZZZZZ (Client)			08:45																				
ZZZZZZ (Client)			08:54																				
ZZZZZZ (Client)			08:58																				
ZZZZZZ (Client)			09:07																				
ZZZZZZ			09:11																				
CCV 410-686141/182			09:17																				
CCB 410-686141/183			09:23																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Instrument ID: 8742 Method: 5310 C-2014

Start Date: 08/19/2025 19:19 End Date: 08/20/2025 13:52

Lab Sample ID	D / F	Type	Time	Analytes																			
				TOC																			
MRL 410-688232/1	1	T	19:19	X																			
ZZZZZZ (Client)			19:39																				
ZZZZZZ			19:58																				
CCV 410-688232/4	1		20:38	X																			
CCB 410-688232/5	1		20:58	X																			
LCS 410-688232/6	1	T	21:18	X																			
MB 410-688232/7	1	T	21:37	X																			
ZZZZZZ (Client)			21:57																				
620-28495-E-3 DU	1	T	22:18	X																			
620-28495-E-3 MS	1	T	22:38	X																			
620-28538-4	1	T	22:59	X																			
620-28538-5	1	T	23:18	X																			
620-28538-7	1	T	23:38	X																			
620-28538-8	1	T	23:58	X																			
620-28538-9	1	T	00:18	X																			
CCV 410-688232/16	1		00:37	X																			
CCB 410-688232/17	1		00:57	X																			
ZZZZZZ (Client)			01:17																				
ZZZZZZ (Client)			01:37																				
ZZZZZZ (Client)			01:57																				
ZZZZZZ (Client)			02:17																				
ZZZZZZ (Client)			02:36																				
ZZZZZZ (QC)			02:57																				
ZZZZZZ (QC)			03:16																				
ZZZZZZ (Client)			03:37																				
ZZZZZZ (Client)			03:56																				
ZZZZZZ (Client)			04:16																				
CCVL 410-688232/28	1		04:35	X																			
CCB 410-688232/29			04:55																				
ZZZZZZ (Client)			05:15																				
ZZZZZZ (Client)			05:35																				
ZZZZZZ (Client)			05:55																				
ZZZZZZ (Client)			06:14																				
ZZZZZZ (Client)			06:34																				
ZZZZZZ (Client)			06:53																				
ZZZZZZ (QC)			07:14																				
ZZZZZZ (QC)			07:33																				
CCV 410-688232/38			07:53																				
CCB 410-688232/39			08:13																				
ZZZZZZ (Client)			08:34																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Instrument ID: 8742 Method: 5310 C-2014

Start Date: 08/19/2025 19:19 End Date: 08/20/2025 13:52

Lab Sample ID	D / F	Type	Time	Analytes																			
				TOC																			
ZZZZZZ (QC)			08:54																				
ZZZZZZ (QC)			09:15																				
ZZZZZZ (Client)			09:34																				
ZZZZZZ (Client)			09:54																				
ZZZZZZ (Client)			10:14																				
ZZZZZZ (Client)			10:34																				
ZZZZZZ (Client)			10:54																				
ZZZZZZ (Client)			11:13																				
ZZZZZZ (Client)			11:34																				
CCV 410-688232/50			11:54																				
CCB 410-688232/51			12:13																				
ZZZZZZ (Client)			12:33																				
ZZZZZZ (Client)			12:53																				
ZZZZZZ (Client)			13:12																				
ZZZZZZ (QC)			13:32																				
ZZZZZZ (QC)			13:52																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28538-1

SDG No.:

Instrument ID: NOEQUIP Method: 5310 C-2014

Start Date: 08/19/2025 14:47 End Date: 08/20/2025 06:14

Lab Sample ID	D / F	Type	Time	Analytes																			
				TIC																			
ZZZZZZ (Client)			14:47																				
ZZZZZZ (Client)			15:08																				
ZZZZZZ (Client)			21:57																				
620-28538-4	1	T	22:59	X																			
620-28538-5	1	T	23:18	X																			
620-28538-7	1	T	23:38	X																			
620-28538-8	1	T	23:58	X																			
620-28538-9	1	T	00:18	X																			
ZZZZZZ (Client)			05:35																				
ZZZZZZ (Client)			05:55																				
ZZZZZZ (Client)			06:14																				

Prep Types
T = Total/NA

General Chemistry Raw Data Report

Job ID: 620-28538-1

Batch: 688387 **Analyst Initials: P684**

Method: 5310 C-2014 **Instrument: NONE**

Lab Sample ID: 620-28538-A-4 **Analysis Date: Aug 19, 2025 22:59**

Analyte	Detector	Dilution	Raw Result	Unit
Total Inorganic Carbon	None	1	37.7	mg/L

Lab Sample ID: 620-28538-A-5 **Analysis Date: Aug 19, 2025 23:18**

Analyte	Detector	Dilution	Raw Result	Unit
Total Inorganic Carbon	None	1	23.4	mg/L

Lab Sample ID: 620-28538-A-7 **Analysis Date: Aug 19, 2025 23:38**

Analyte	Detector	Dilution	Raw Result	Unit
Total Inorganic Carbon	None	1	9.6	mg/L

Lab Sample ID: 620-28538-A-8 **Analysis Date: Aug 19, 2025 23:58**

Analyte	Detector	Dilution	Raw Result	Unit
Total Inorganic Carbon	None	1	34.6	mg/L

Lab Sample ID: 620-28538-A-9 **Analysis Date: Aug 20, 2025 00:18**

Analyte	Detector	Dilution	Raw Result	Unit
Total Inorganic Carbon	None	1	0	mg/L

MANTECH INC.

Water Analysis Report

Run Number 15357 **Order Number** 20250814-6

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb ppm	carb ppm	hydr ppm	Al4.5	Al8.3	Al4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
Tap	8/14/2025	5:09 PM	23.81	-1.00	7.65	.00	249.16	249.16	.00	.00	5.74	.00	-1.00	-1.00	148.70	-1.00	-1.00	-1.00	
ICVpH	8/14/2025	5:13 PM	23.84	-1.00	7.08	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	535.41	-1.00	-1.00	-1.00	
LCSpH	8/14/2025	5:16 PM	23.81	-1.00	7.07	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	731.02	-1.00	-1.00	-1.00	
LCSDpH	8/14/2025	5:19 PM	23.86	-1.00	7.06	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	917.86	-1.00	-1.00	-1.00	
410-237106-O-1	8/14/2025	5:23 PM	23.86	-1.00	7.96	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	1,100.28	-1.00	-1.00	-1.00	
410-237046-S-1	8/14/2025	5:26 PM	23.84	-1.00	6.78	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	1,331.11	-1.00	-1.00	-1.00	
410-236990-D-1	8/14/2025	5:30 PM	23.86	-1.00	7.41	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	1,562.20	-1.00	-1.00	-1.00	
410-237167-M-1	8/14/2025	5:34 PM	23.86	-1.00	7.60	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	1,793.39	-1.00	-1.00	-1.00	
410-237167-M-2	8/14/2025	5:38 PM	23.88	-1.00	7.41	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	2,024.06	-1.00	-1.00	-1.00	
630-117367-K-2	8/14/2025	5:42 PM	23.86	-1.00	7.79	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	2,254.36	-1.00	-1.00	-1.00	
630-117367-K-1	8/14/2025	5:46 PM	23.86	-1.00	7.97	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	2,484.80	-1.00	-1.00	-1.00	
410-237160-B-2	8/14/2025	5:49 PM	23.75	-1.00	8.19	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	2,715.39	-1.00	-1.00	-1.00	
ccvpH	8/14/2025	5:53 PM	23.81	-1.00	7.09	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	2,946.13	-1.00	-1.00	-1.00	
410-237168-B-2	8/14/2025	5:57 PM	23.76	-1.00	6.96	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	3,177.01	-1.00	-1.00	-1.00	
LCSpH	8/14/2025	6:01 PM	23.80	-1.00	7.08	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	3,408.09	-1.00	-1.00	-1.00	
LCSDpH	8/14/2025	6:04 PM	23.75	-1.00	7.07	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	3,624.81	-1.00	-1.00	-1.00	
410-237113-N-8	8/14/2025	6:08 PM	23.80	-1.00	7.53	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	3,812.48	-1.00	-1.00	-1.00	
410-237113-N-4	8/14/2025	6:12 PM	23.89	-1.00	7.25	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	4,043.38	-1.00	-1.00	-1.00	
410-237113-N-1	8/14/2025	6:15 PM	23.86	-1.00	7.16	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	4,273.47	-1.00	-1.00	-1.00	
410-237113-N-3	8/14/2025	6:19 PM	23.78	-1.00	7.84	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	4,503.78	-1.00	-1.00	-1.00	
410-237113-N-7	8/14/2025	6:23 PM	23.72	-1.00	7.41	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	4,734.22	-1.00	-1.00	-1.00	
410-237113-N-5	8/14/2025	6:27 PM	23.72	-1.00	7.29	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	4,964.80	-1.00	-1.00	-1.00	
410-237113-N-2	8/14/2025	6:31 PM	23.67	-1.00	7.07	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	5,195.56	-1.00	-1.00	-1.00	
ccvpH	8/14/2025	6:34 PM	23.65	-1.00	7.08	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	5,426.52	-1.00	-1.00	-1.00	
410-237113-N-6	8/14/2025	6:38 PM	23.52	-1.00	7.53	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	5,649.89	-1.00	-1.00	-1.00	
410-237109-L-2	8/14/2025	6:42 PM	23.39	-1.00	7.54	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	5,881.14	-1.00	-1.00	-1.00	
410-237109-L-1	8/14/2025	6:46 PM	23.51	-1.00	7.62	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	6,112.56	-1.00	-1.00	-1.00	

Run Number 15357 **Order Number** 20250814-6

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb ppm	carb ppm	hydr ppm	Al4.5	Al8.3	Al4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
410-237109-L-5	8/14/2025	6:50 PM	23.84	-1.00	7.46	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	6,343.58	-1.00	-1.00	-1.00	
410-237109-L-4	8/14/2025	6:54 PM	23.80	-1.00	7.55	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	6,573.86	-1.00	-1.00	-1.00	
410-237109-L-7	8/14/2025	6:58 PM	23.70	-1.00	7.63	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	6,804.30	-1.00	-1.00	-1.00	
410-237109-L-3	8/14/2025	7:01 PM	23.57	-1.00	7.54	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	7,034.81	-1.00	-1.00	-1.00	
410-237107-J-1	8/14/2025	7:05 PM	23.49	-1.00	7.43	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	7,265.53	-1.00	-1.00	-1.00	
410-237107-J-2	8/14/2025	7:09 PM	23.44	-1.00	7.39	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	7,496.38	-1.00	-1.00	-1.00	
410-237123-O-3	8/14/2025	7:13 PM	23.31	-1.00	7.97	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	7,727.44	-1.00	-1.00	-1.00	
ccvpH	8/14/2025	7:17 PM	23.14	-1.00	7.08	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	7,958.63	-1.00	-1.00	-1.00	
CCV	8/14/2025	7:24 PM	23.12	-1.00	10.09	40.71	91.10	9.68	81.42	.00	2.10	.94	-1.00	-1.00	8,182.52	-1.00	-1.00	-1.00	
CCB	8/14/2025	7:30 PM	23.62	-1.00	6.38	.00	.79	.79	.00	.00	.05	.00	.09	-1.00	8,619.42	-1.00	-1.00	-1.00	
410-237123-O-4	8/14/2025	7:34 PM	23.92	-1.00	7.98	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	9,002.14	-1.00	-1.00	-1.00	
410-237123-S-1	8/14/2025	7:38 PM	23.81	-1.00	7.76	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	9,232.44	-1.00	-1.00	-1.00	
410-237123-P-2	8/14/2025	7:42 PM	23.75	-1.00	8.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	9,462.97	-1.00	-1.00	-1.00	
ccvpH	8/14/2025	7:45 PM	23.57	-1.00	7.08	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	9,693.55	-1.00	-1.00	-1.00	
CCV	8/14/2025	7:53 PM	23.38	-1.00	10.08	40.31	91.30	10.67	80.63	.00	2.10	.93	-1.00	-1.00	9,907.80	-1.00	-1.00	-1.00	
CCB	8/14/2025	7:59 PM	23.46	-1.00	6.50	.00	.75	.75	.00	.00	.05	.00	.09	-1.00	10,350.55	-1.00	-1.00	-1.00	
MB	8/14/2025	8:05 PM	23.31	-1.00	5.56	.00	.13	.13	.00	.00	.03	.00	.06	-1.00	10,733.38	-1.00	-1.00	-1.00	
LCS	8/14/2025	8:12 PM	23.11	-1.00	10.29	81.50	177.66	14.66	163.01	.00	4.09	1.88	-1.00	-1.00	11,081.26	-1.00	-1.00	-1.00	
LCSD	8/14/2025	8:18 PM	23.15	-1.00	10.29	82.74	181.69	16.21	165.48	.00	4.19	1.91	-1.00	-1.00	11,479.44	-1.00	-1.00	-1.00	
410-237120-V-3	8/14/2025	8:25 PM	23.52	-1.00	7.59	.00	248.30	248.30	.00	.00	5.72	.00	-1.00	-1.00	11,877.97	-1.00	-1.00	-1.00	
410-237120-U-3	8/14/2025	8:32 PM	23.94	-1.00	8.67	21.06	329.27	287.16	42.11	.00	7.59	.49	-1.00	-1.00	12,309.17	-1.00	-1.00	-1.00	
410-237120-S-3	8/14/2025	8:38 PM	23.73	-1.00	7.57	.00	248.35	248.35	.00	.00	5.72	.00	-1.00	-1.00	12,686.95	-1.00	-1.00	-1.00	
410-237120-V-1	8/14/2025	8:46 PM	23.62	-1.00	7.55	.00	316.85	316.85	.00	.00	7.30	.00	-1.00	-1.00	13,074.14	-1.00	-1.00	-1.00	
410-237120-Y-2	8/14/2025	8:52 PM	23.60	-1.00	7.40	.00	323.97	323.97	.00	.00	7.46	.00	-1.00	-1.00	13,515.45	-1.00	-1.00	-1.00	
410-237163-E-6	8/14/2025	8:58 PM	23.70	-1.00	6.77	.00	42.51	42.51	.00	.00	.98	.00	-1.00	-1.00	13,912.53	-1.00	-1.00	-1.00	
410-237163-E-4	8/14/2025	9:04 PM	23.49	-1.00	7.90	.00	105.80	105.80	.00	.00	2.44	.00	-1.00	-1.00	14,260.66	-1.00	-1.00	-1.00	
CCV	8/14/2025	9:12 PM	23.28	-1.00	10.20	36.93	87.85	13.99	73.85	.00	2.02	.85	-1.00	-1.00	14,638.51	-1.00	-1.00	-1.00	
CCB	8/14/2025	9:17 PM	23.46	-1.00	4.58	.00	-1.54	-1.54	.00	.00	.00	.00	.04	-1.00	15,084.97	-1.00	-1.00	-1.00	
620-28538-N-9	8/14/2025	9:21 PM	23.60	-1.00	4.43	.00	-1.10	-1.10	.00	.00	.00	.00	.03	-1.00	15,374.75	-1.00	-1.00	-1.00	
410-237163-E-5	8/14/2025	9:27 PM	23.67	-1.00	7.72	.00	102.92	102.92	.00	.00	2.37	.00	-1.00	-1.00	15,652.97	-1.00	-1.00	-1.00	
410-237163-F-2	8/14/2025	9:34 PM	23.72	-1.00	7.71	.00	106.24	106.24	.00	.00	2.45	.00	-1.00	-1.00	16,030.94	-1.00	-1.00	-1.00	

Run Number 15357 **Order Number** 20250814-6

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb ppm	carb ppm	hydr ppm	Al4.5	Al8.3	Al4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
410-237163-E-3	8/14/2025	9:40 PM	23.72	-1.00	7.55	.00	119.29	119.29	.00	.00	2.75	.00	-1.00	-1.00	16,408.13	-1.00	-1.00	-1.00	
410-237163-F-1	8/14/2025	9:46 PM	23.81	-1.00	7.58	.00	73.36	73.36	.00	.00	1.69	.00	-1.00	-1.00	16,775.73	-1.00	-1.00	-1.00	
620-28538-Y-5	8/14/2025	9:53 PM	23.64	-1.00	6.85	.00	129.76	129.76	.00	.00	2.99	.00	-1.00	-1.00	17,142.55	-1.00	-1.00	-1.00	
620-28538-N-8	8/14/2025	9:59 PM	23.57	-1.00	7.52	.00	233.63	233.63	.00	.00	5.38	.00	-1.00	-1.00	17,534.98	-1.00	-1.00	-1.00	
620-28538-N-4	8/14/2025	10:05 PM	23.57	-1.00	7.49	.00	238.05	238.05	.00	.00	5.49	.00	-1.00	-1.00	17,922.50	-1.00	-1.00	-1.00	
620-28538-N-6	8/14/2025	10:12 PM	23.62	-1.00	8.97	9.88	119.64	99.87	19.77	.00	2.76	.23	-1.00	-1.00	18,300.28	-1.00	-1.00	-1.00	
620-28538-N-7	8/14/2025	10:18 PM	23.49	-1.00	7.64	.00	64.89	64.89	.00	.00	1.50	.00	-1.00	-1.00	18,717.25	-1.00	-1.00	-1.00	
CCV	8/14/2025	10:25 PM	23.51	-1.00	10.06	33.98	86.78	18.82	67.96	.00	2.00	.78	-1.00	-1.00	19,048.53	-1.00	-1.00	-1.00	
CCB	8/14/2025	10:30 PM	23.76	-1.00	4.50	.00	-1.38	-1.38	.00	.00	.00	.00	.03	-1.00	19,485.44	-1.00	-1.00	-1.00	
410-236191-H-9	8/14/2025	10:36 PM	23.78	-1.00	7.79	.00	115.41	115.41	.00	.00	2.66	.00	-1.00	-1.00	19,775.14	-1.00	-1.00	-1.00	
410-236191-I-5	8/14/2025	10:43 PM	23.68	-1.00	8.06	.00	115.38	115.38	.00	.00	2.66	.00	-1.00	-1.00	20,152.61	-1.00	-1.00	-1.00	
410-236191-H-1	8/14/2025	10:49 PM	23.59	-1.00	8.03	.00	121.66	121.66	.00	.00	2.80	.00	-1.00	-1.00	20,574.63	-1.00	-1.00	-1.00	
410-236191-H-11	8/14/2025	10:55 PM	23.65	-1.00	7.86	.00	117.95	117.95	.00	.00	2.72	.00	-1.00	-1.00	20,913.83	-1.00	-1.00	-1.00	
410-236191-H-21	8/14/2025	11:00 PM	23.72	-1.00	7.98	.00	130.76	130.76	.00	.00	3.01	.00	-1.00	-1.00	21,259.06	-1.00	-1.00	-1.00	
ccvpH	8/14/2025	11:04 PM	23.62	-1.00	7.10	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	21,592.83	-1.00	-1.00	-1.00	
CCV	8/14/2025	11:11 PM	23.49	-1.00	9.92	34.55	89.09	19.99	69.10	.00	2.05	.80	-1.00	-1.00	21,824.41	-1.00	-1.00	-1.00	
CCB	8/14/2025	11:16 PM	23.68	-1.00	4.48	.00	-.96	-.96	.00	.00	.00	.00	.02	-1.00	22,224.17	-1.00	-1.00	-1.00	
MB	8/14/2025	11:20 PM	23.75	-1.00	4.33	.00	-.49	-.49	.00	.00	.00	.00	.01	-1.00	22,514.33	-1.00	-1.00	-1.00	
LCSpH	8/14/2025	11:24 PM	23.76	-1.00	7.09	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	22,792.42	-1.00	-1.00	-1.00	
LCSDpH	8/14/2025	11:27 PM	23.73	-1.00	7.08	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	23,018.56	-1.00	-1.00	-1.00	
LCS	8/14/2025	11:34 PM	23.59	-1.00	10.08	72.57	175.76	30.62	145.14	.00	4.05	1.67	-1.00	-1.00	23,203.61	-1.00	-1.00	-1.00	
LCSD	8/14/2025	11:40 PM	23.75	-1.00	10.13	74.22	178.77	30.33	148.45	.00	4.12	1.71	-1.00	-1.00	23,611.97	-1.00	-1.00	-1.00	
410-236712-H-1	8/14/2025	11:45 PM	23.78	-1.00	4.89	.00	-.18	-.18	.00	.00	.01	.00	.03	-1.00	24,000.06	-1.00	-1.00	-1.00	
410-236939-K-1	8/14/2025	11:51 PM	23.65	-1.00	7.46	.00	81.31	81.31	.00	.00	1.87	.00	-1.00	-1.00	24,312.92	-1.00	-1.00	-1.00	
410-236936-K-1	8/14/2025	11:57 PM	23.72	-1.00	7.01	.00	55.79	55.79	.00	.00	1.29	.00	-1.00	-1.00	24,671.19	-1.00	-1.00	-1.00	
410-236938-K-1	8/15/2025	12:04 AM	23.81	-1.00	7.46	.00	73.22	73.22	.00	.00	1.69	.00	-1.00	-1.00	25,019.67	-1.00	-1.00	-1.00	
410-236937-K-1	8/15/2025	12:10 AM	23.72	-1.00	7.15	.00	54.61	54.61	.00	.00	1.26	.00	-1.00	-1.00	25,432.34	-1.00	-1.00	-1.00	
ccvpH	8/15/2025	12:14 AM	23.65	-1.00	7.09	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	25,790.73	-1.00	-1.00	-1.00	
CCV	8/15/2025	12:21 AM	23.67	-1.00	9.87	31.79	85.25	21.67	63.58	.00	1.96	.73	-1.00	-1.00	26,022.75	-1.00	-1.00	-1.00	
CCB	8/15/2025	12:25 AM	23.91	-1.00	4.49	.00	-.97	-.97	.00	.00	.00	.00	.02	-1.00	26,429.56	-1.00	-1.00	-1.00	
410-237120-X-5	8/15/2025	12:30 AM	23.76	-1.00	4.67	.00	-.67	-.67	.00	.00	.01	.00	.03	-1.00	26,707.20	-1.00	-1.00	-1.00	

Run Number 15357 **Order Number** 20250814-6

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb ppm	carb ppm	hydr ppm	Al4.5	Al8.3	Al4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
410-237054-C-1	8/15/2025	12:36 AM	23.64	-1.00	7.33	.00	77.69	77.69	.00	.00	1.79	.00	-1.00	-1.00	26,996.67	-1.00	-1.00	-1.00	
410-237029-J-1	8/15/2025	12:43 AM	23.68	-1.00	7.88	.00	280.32	280.32	.00	.00	6.46	.00	-1.00	-1.00	27,354.94	-1.00	-1.00	-1.00	
410-237045-E-1	8/15/2025	12:49 AM	23.73	-1.00	7.28	.00	41.51	41.51	.00	.00	.96	.00	-1.00	-1.00	27,762.44	-1.00	-1.00	-1.00	
410-237171-F-1	8/15/2025	12:55 AM	23.70	-1.00	6.92	.00	16.14	16.14	.00	.00	.43	.00	.48	-1.00	28,120.83	-1.00	-1.00	-1.00	
410-237171-F-3	8/15/2025	1:01 AM	23.41	-1.00	7.56	.00	56.49	56.49	.00	.00	1.30	.00	-1.00	-1.00	28,480.72	-1.00	-1.00	-1.00	
410-237171-F-2	8/15/2025	1:07 AM	23.56	-1.00	7.35	.00	37.49	37.49	.00	.00	.86	.00	-1.00	-1.00	28,825.64	-1.00	-1.00	-1.00	
410-237112-V-1	8/15/2025	1:13 AM	23.68	-1.00	7.15	.00	288.86	288.86	.00	.00	6.66	.00	-1.00	-1.00	29,188.70	-1.00	-1.00	-1.00	
ccvpH	8/15/2025	1:17 AM	23.80	-1.00	7.10	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	29,566.97	-1.00	-1.00	-1.00	
CCV	8/15/2025	1:24 AM	23.76	-1.00	9.81	29.41	87.68	28.86	58.83	.00	2.02	.68	-1.00	-1.00	29,799.16	-1.00	-1.00	-1.00	
CCB	8/15/2025	1:29 AM	23.67	-1.00	4.56	.00	-1.31	-1.31	.00	.00	.00	.00	.03	-1.00	30,245.08	-1.00	-1.00	-1.00	
410-237106-P-2	8/15/2025	1:34 AM	23.67	-1.00	5.00	.00	-.34	-.34	.00	.00	.02	.00	.04	-1.00	30,534.66	-1.00	-1.00	-1.00	
410-237106-P-3	8/15/2025	1:43 AM	23.70	-1.00	9.09	1.36	7.95	5.23	2.71	.00	.21	.03	.23	-1.00	30,847.70	-1.00	-1.00	-1.00	
410-237123-P-5	8/15/2025	1:48 AM	23.72	-1.00	4.81	.00	-.59	-.59	.00	.00	.01	.00	.04	-1.00	31,363.30	-1.00	-1.00	-1.00	
410-237123-P-6	8/15/2025	1:53 AM	23.56	-1.00	4.34	.00	-.60	-.60	.00	.00	.00	.00	.01	-1.00	31,664.77	-1.00	-1.00	-1.00	
410-236084-Q-3	8/15/2025	1:58 AM	23.56	-1.00	6.74	.00	26.71	26.71	.00	.00	.62	.00	-1.00	-1.00	31,942.95	-1.00	-1.00	-1.00	
410-236081-Q-1	8/15/2025	2:04 AM	23.68	-1.00	6.81	.00	28.86	28.86	.00	.00	.66	.00	-1.00	-1.00	32,281.95	-1.00	-1.00	-1.00	
410-236084-Q-1	8/15/2025	2:10 AM	23.70	-1.00	7.22	.00	62.67	62.67	.00	.00	1.44	.00	-1.00	-1.00	32,630.95	-1.00	-1.00	-1.00	
ccvpH	8/15/2025	2:14 AM	23.72	-1.00	7.09	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	32,989.63	-1.00	-1.00	-1.00	
CCV	8/15/2025	2:20 AM	23.73	-1.00	9.77	29.01	88.29	30.27	58.02	.00	2.03	.67	-1.00	-1.00	33,221.92	-1.00	-1.00	-1.00	
CCB	8/15/2025	2:25 AM	23.81	-1.00	4.55	.00	-1.03	-1.03	.00	.00	.00	.00	.02	-1.00	33,611.70	-1.00	-1.00	-1.00	
MB	8/15/2025	2:30 AM	23.78	-1.00	4.36	.00	-.61	-.61	.00	.00	.00	.00	.01	-1.00	33,901.47	-1.00	-1.00	-1.00	
LCSpH	8/15/2025	2:34 AM	23.70	-1.00	7.08	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	34,179.33	-1.00	-1.00	-1.00	
LCSDpH	8/15/2025	2:37 AM	23.56	-1.00	7.08	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	34,400.95	-1.00	-1.00	-1.00	
LCS	8/15/2025	2:44 AM	23.52	-1.00	10.11	75.02	179.39	29.35	150.04	.00	4.13	1.73	-1.00	-1.00	34,589.19	-1.00	-1.00	-1.00	
LCSD	8/15/2025	2:50 AM	23.62	-1.00	10.14	74.22	177.41	28.96	148.45	.00	4.09	1.71	-1.00	-1.00	34,995.97	-1.00	-1.00	-1.00	
410-235715-R-4	8/15/2025	2:56 AM	23.80	-1.00	7.76	.00	143.79	143.79	.00	.00	3.31	.00	-1.00	-1.00	35,384.91	-1.00	-1.00	-1.00	
410-235715-R-4	8/15/2025	3:03 AM	23.86	-1.00	7.85	.00	145.10	145.10	.00	.00	3.34	.00	-1.00	-1.00	35,763.55	-1.00	-1.00	-1.00	
410-236081-Q-3	8/15/2025	3:09 AM	23.76	-1.00	7.20	.00	30.30	30.30	.00	.00	.70	.00	-1.00	-1.00	36,142.25	-1.00	-1.00	-1.00	
410-236084-S-11	8/15/2025	3:13 AM	23.86	-1.00	5.27	.00	1.09	1.09	.00	.00	.05	.00	.07	-1.00	36,501.38	-1.00	-1.00	-1.00	
410-236084-S-5	8/15/2025	3:20 AM	23.84	-1.00	6.24	.00	3.50	3.50	.00	.00	.10	.00	.12	-1.00	36,794.02	-1.00	-1.00	-1.00	
ccvpH	8/15/2025	3:24 AM	23.88	-1.00	7.09	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	37,187.81	-1.00	-1.00	-1.00	

Run Number 15357 **Order Number** 20250814-6

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb ppm	carb ppm	hydr ppm	Al4.5	Al8.3	Al4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
CCV	8/15/2025	3:30 AM	23.76	-1.00	9.80	30.98	88.93	26.97	61.96	.00	2.05	.71	-1.00	-1.00	37,418.72	-1.00	-1.00	-1.00	
CCB	8/15/2025	3:35 AM	23.83	-1.00	4.56	.00	-.90	-.90	.00	.00	.00	.00	.02	-1.00	37,799.86	-1.00	-1.00	-1.00	
410-236081-Q-2	8/15/2025	3:41 AM	23.70	-1.00	7.11	.00	36.65	36.65	.00	.00	.84	.00	-1.00	-1.00	38,078.22	-1.00	-1.00	-1.00	
410-236084-S-7	8/15/2025	3:48 AM	23.62	-1.00	6.75	.00	15.13	15.13	.00	.00	.38	.00	.41	-1.00	38,427.23	-1.00	-1.00	-1.00	
410-236082-L-3	8/15/2025	3:54 AM	23.76	-1.00	6.45	.00	4.73	4.73	.00	.00	.13	.00	.15	-1.00	38,834.55	-1.00	-1.00	-1.00	
410-236084-S-9	8/15/2025	4:00 AM	23.83	-1.00	6.86	.00	45.31	45.31	.00	.00	1.04	.00	-1.00	-1.00	39,231.73	-1.00	-1.00	-1.00	
410-236082-L-5	8/15/2025	4:05 AM	23.84	-1.00	4.40	.00	-.72	-.72	.00	.00	.00	.00	.02	-1.00	39,581.02	-1.00	-1.00	-1.00	
410-236082-L-1	8/15/2025	4:11 AM	23.96	-1.00	6.61	.00	13.06	13.06	.00	.00	.33	.00	.36	-1.00	39,859.84	-1.00	-1.00	-1.00	
410-236082-L-7	8/15/2025	4:16 AM	23.75	-1.00	5.17	.00	.11	.11	.00	.00	.03	.00	.05	-1.00	40,210.45	-1.00	-1.00	-1.00	
410-236320-J-2	8/15/2025	4:22 AM	23.75	-1.00	7.09	.00	29.93	29.93	.00	.00	.69	.00	-1.00	-1.00	40,547.16	-1.00	-1.00	-1.00	
410-236320-J-1	8/15/2025	4:28 AM	23.80	-1.00	7.20	.00	37.26	37.26	.00	.00	.86	.00	-1.00	-1.00	40,905.94	-1.00	-1.00	-1.00	
410-236320-J-3	8/15/2025	4:34 AM	23.76	-1.00	7.23	.00	37.25	37.25	.00	.00	.86	.00	-1.00	-1.00	41,264.81	-1.00	-1.00	-1.00	
ccvpH	8/15/2025	4:38 AM	23.78	-1.00	7.09	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	41,623.47	-1.00	-1.00	-1.00	
CCV	8/15/2025	4:44 AM	23.68	-1.00	9.76	28.25	86.58	30.08	56.49	.00	1.99	.65	-1.00	-1.00	41,855.78	-1.00	-1.00	-1.00	
CCB	8/15/2025	4:49 AM	23.80	-1.00	4.54	.00	-.98	-.98	.00	.00	.00	.00	.02	-1.00	42,244.22	-1.00	-1.00	-1.00	
410-236289-Q-5	8/15/2025	4:55 AM	23.75	-1.00	7.11	.00	41.44	41.44	.00	.00	.95	.00	-1.00	-1.00	42,534.66	-1.00	-1.00	-1.00	
410-236289-Q-3	8/15/2025	5:01 AM	23.70	-1.00	7.11	.00	33.85	33.85	.00	.00	.78	.00	-1.00	-1.00	42,884.03	-1.00	-1.00	-1.00	
410-236289-Q-7	8/15/2025	5:07 AM	23.96	-1.00	7.57	.00	81.98	81.98	.00	.00	1.89	.00	-1.00	-1.00	43,243.41	-1.00	-1.00	-1.00	
410-236289-Q-1	8/15/2025	5:13 AM	23.92	-1.00	5.56	.00	.38	.38	.00	.00	.03	.00	.05	-1.00	43,611.83	-1.00	-1.00	-1.00	
410-236289-Q-9	8/15/2025	5:19 AM	23.92	-1.00	7.19	.00	51.01	51.01	.00	.00	1.18	.00	-1.00	-1.00	43,948.64	-1.00	-1.00	-1.00	
410-236273-AG-4	8/15/2025	5:24 AM	23.91	-1.00	5.15	.00	-.41	-.41	.00	.00	.02	.00	.05	-1.00	44,307.55	-1.00	-1.00	-1.00	
ccvpH	8/15/2025	5:28 AM	23.86	-1.00	7.09	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	44,632.53	-1.00	-1.00	-1.00	
CCV	8/15/2025	5:35 AM	23.72	-1.00	9.74	28.96	89.06	31.14	57.92	.00	2.05	.67	-1.00	-1.00	44,864.80	-1.00	-1.00	-1.00	
CCB	8/15/2025	5:40 AM	23.67	-1.00	4.89	.00	-.30	-.30	.00	.00	.01	.00	.03	-1.00	45,248.64	-1.00	-1.00	-1.00	
MB	8/15/2025	5:44 AM	23.72	-1.00	4.41	.00	-.64	-.64	.00	.00	.00	.00	.01	-1.00	45,550.73	-1.00	-1.00	-1.00	
LCSpH	8/15/2025	5:48 AM	23.78	-1.00	7.08	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	45,829.27	-1.00	-1.00	-1.00	
LCSDpH	8/15/2025	5:51 AM	23.76	-1.00	7.07	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	46,056.11	-1.00	-1.00	-1.00	
LCS	8/15/2025	5:58 AM	23.92	-1.00	10.00	71.41	179.38	36.56	142.82	.00	4.13	1.65	-1.00	-1.00	46,242.89	-1.00	-1.00	-1.00	
LCSD	8/15/2025	6:04 AM	23.94	-1.00	10.04	70.35	175.27	34.57	140.71	.00	4.04	1.62	-1.00	-1.00	46,630.95	-1.00	-1.00	-1.00	
410-235655-D-1	8/15/2025	6:08 AM	23.78	-1.00	7.94	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	47,019.69	-1.00	-1.00	-1.00	
410-235655-D-1^5	8/15/2025	6:16 AM	23.65	-1.00	8.01	.00	704.50	704.50	.00	.00	16.23	.00	-1.00	-1.00	47,251.95	-1.00	-1.00	-1.00	

Run Number 15357 **Order Number** 20250814-6

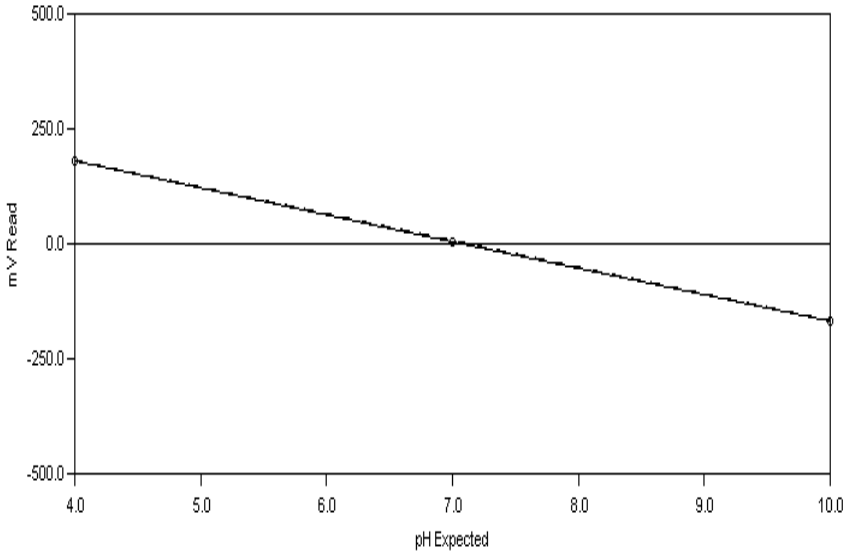
SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb ppm	carb ppm	hydr ppm	Al4.5	Al8.3	Al4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
410-237109-E-6	8/15/2025	6:20 AM	23.81	-1.00	7.69	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	47,746.83	-1.00	-1.00	-1.00	
410-237109-E-6^5	8/15/2025	6:32 AM	23.76	-1.00	7.72	.00	1,259.04	1,259.04	.00	.00	29.01	.00	-1.00	-1.00	47,979.23	-1.00	-1.00	-1.00	
410-236273-Q-2	8/15/2025	6:38 AM	23.68	-1.00	7.49	.00	62.15	62.15	.00	.00	1.43	.00	-1.00	-1.00	48,677.66	-1.00	-1.00	-1.00	
ccvpH	8/15/2025	6:41 AM	23.78	-1.00	7.08	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	49,029.86	-1.00	-1.00	-1.00	
CCV	8/15/2025	6:48 AM	23.72	-1.00	9.70	27.33	87.85	33.20	54.66	.00	2.02	.63	-1.00	-1.00	49,259.36	-1.00	-1.00	-1.00	
CCB	8/15/2025	6:53 AM	23.89	-1.00	4.74	.00	-.50	-.50	.00	.00	.01	.00	.03	-1.00	49,652.73	-1.00	-1.00	-1.00	
410-236043-L-1	8/15/2025	6:57 AM	24.09	-1.00	8.06	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	49,955.00	-1.00	-1.00	-1.00	
410-236043-L-1^5	8/15/2025	7:07 AM	23.96	-1.00	8.08	.00	998.50	998.50	.00	.00	23.01	.00	-1.00	-1.00	50,187.05	-1.00	-1.00	-1.00	
410-235655-O-1	8/15/2025	7:10 AM	23.92	-1.00	7.78	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	50,768.05	-1.00	-1.00	-1.00	
410-235655-O-1^5	8/15/2025	7:19 AM	23.83	-1.00	7.92	.00	683.82	683.82	.00	.00	15.76	.00	-1.00	-1.00	51,000.45	-1.00	-1.00	-1.00	
410-235648-G-1	8/15/2025	7:22 AM	23.96	-1.00	7.74	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	51,493.05	-1.00	-1.00	-1.00	
410-235648-G-1^5	8/15/2025	7:29 AM	23.86	-1.00	7.96	.00	418.09	418.09	.00	.00	9.63	.00	-1.00	-1.00	51,725.56	-1.00	-1.00	-1.00	
410-235925-H-7	8/15/2025	7:33 AM	23.89	-1.00	7.75	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	52,115.03	-1.00	-1.00	-1.00	
410-235925-H-7^5	8/15/2025	7:40 AM	23.78	-1.00	7.80	.00	183.42	183.42	.00	.00	4.23	.00	-1.00	-1.00	52,347.70	-1.00	-1.00	-1.00	
410-235925-H-5	8/15/2025	7:44 AM	23.81	-1.00	7.54	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	52,780.75	-1.00	-1.00	-1.00	
410-235925-H-5^5	8/15/2025	7:50 AM	23.78	-1.00	7.49	.00	68.72	68.72	.00	.00	1.58	.00	-1.00	-1.00	53,013.58	-1.00	-1.00	-1.00	
ccvpH	8/15/2025	7:54 AM	24.10	-1.00	7.10	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	53,382.91	-1.00	-1.00	-1.00	
CCV	8/15/2025	8:01 AM	24.09	-1.00	9.69	26.90	89.77	35.96	53.81	.00	2.07	.62	-1.00	-1.00	53,615.23	-1.00	-1.00	-1.00	
CCB	8/15/2025	8:06 AM	24.00	-1.00	5.53	.00	-.21	-.21	.00	.00	.02	.00	.05	-1.00	54,020.28	-1.00	-1.00	-1.00	
410-235925-Q-1	8/15/2025	8:10 AM	23.81	-1.00	7.59	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	54,345.58	-1.00	-1.00	-1.00	
410-235925-Q-1^5	8/15/2025	8:17 AM	23.88	-1.00	7.61	.00	302.74	302.74	.00	.00	6.98	.00	-1.00	-1.00	54,578.25	-1.00	-1.00	-1.00	
410-235925-H-6	8/15/2025	8:20 AM	24.00	-1.00	8.68	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	54,976.97	-1.00	-1.00	-1.00	
410-235925-H-6^5	8/15/2025	8:29 AM	23.94	-1.00	8.76	78.46	681.10	524.17	156.93	.00	15.69	1.81	-1.00	-1.00	55,190.77	-1.00	-1.00	-1.00	
410-235925-Q-2	8/15/2025	8:32 AM	23.81	-1.00	7.71	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	55,693.28	-1.00	-1.00	-1.00	
410-235925-Q-2^5	8/15/2025	8:41 AM	23.88	-1.00	7.89	.00	750.45	750.45	.00	.00	17.29	.00	-1.00	-1.00	55,926.25	-1.00	-1.00	-1.00	
410-235925-Q-3	8/15/2025	8:45 AM	24.05	-1.00	7.78	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	56,433.17	-1.00	-1.00	-1.00	
410-235925-Q-3^5	8/15/2025	8:54 AM	24.10	-1.00	7.95	.00	745.19	745.19	.00	.00	17.17	.00	-1.00	-1.00	56,666.31	-1.00	-1.00	-1.00	
410-235925-Q-4	8/15/2025	8:58 AM	24.05	-1.00	8.04	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	57,211.36	-1.00	-1.00	-1.00	
410-235925-Q-4^5	8/15/2025	9:07 AM	24.04	-1.00	8.11	.00	882.88	882.88	.00	.00	20.34	.00	-1.00	-1.00	57,443.92	-1.00	-1.00	-1.00	
ccvpH	8/15/2025	9:11 AM	24.09	-1.00	7.09	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	57,985.88	-1.00	-1.00	-1.00	
CCV	8/15/2025	9:17 AM	23.92	-1.00	9.66	25.95	90.45	38.55	51.90	.00	2.08	.60	-1.00	-1.00	58,218.55	-1.00	-1.00	-1.00	

Run Number 15357 **Order Number** 20250814-6

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb ppm	carb ppm	hydr ppm	Al4.5	Al8.3	Al4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
CCB	8/15/2025	9:23 AM	23.89	-1.00	5.46	.00	-.06	-.06	.00	.00	.02	.00	.04	-1.00	58,613.9E	-1.00	-1.00	-1.00	

Calibration Report

Calibration Record # 7368



Calibration Settings

Calibration ID	PH	Date	8/14/2025	
Channel	1	Time	3:34 PM	
Probe Type	pH	Temperature	297.19 K	24.04 C
Probe ID	PH ELECTRODE	Analysis Type	Single Line Fit	

Calibration Results

Slope	-58.023	CorrCoeff	1.0000
Intercept	5.693	Equation:	Y = (-58.023) X + (5.693)

Calibration Validity **True** Operator

	Result	Minimum	Maximum
Slope	-58.023	-60.00	-54.00
Intercept	5.693	-100.00	100.00
Correlation Coefficient	1.0000	0.99	1.00

Note: "True" means the calibration was within the specified ranges
"False" means the calibration was NOT within the specified ranges

Calibration Data	Standard	Reading
	4.00	180.66
	7.00	3.90
	10.00	-167.48

Method:	5310C_TC, SM5310_TC
Analyte:	Total Carbon
Calibration Date and Time:	8/18/2025 1822
Run Name:	25230TCCALG07
Instrument:	26070
RF:	0.1493
Volume:	1
Offset/RB area	7024

Curve Type: Linear

CAL PT	Xi = True Value	Units	Area Ct	Corrected Area Ct (Area Ct - Offset/RB area)	X'I = Measured Value	Percent Error (X'i - (Xi / Xi)) x 100	Criteria	Pass/Fail
1	1	mg/L	12829	5805	0.87	-13%	50%	PASS
2	10	mg/L	74021	66997	10.00	0%	10%	PASS
3	25	mg/L	173808	166784	24.90	0%	10%	PASS
4	50	mg/L	345508	338484	50.54	1%	10%	PASS
5	75	mg/L	507037	500013	74.65	0%	10%	PASS

Calculation spreadsheet based off of NELAC Calculation Spreadsheet https://nelac-institute.org/news.php?id=2847

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Cust ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	1	METHOD BLANK	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	QC Blank	1 : 1	00000000	TC	6 297	0.000	0.000	0	0.00	
3	2	TC-RW	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	7 075	0.000	0.000	0	0.00	
4	3	TC-Std#1-1.000 PPM	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	12 829	1.000	1.000	0	0.00	
5	4	TC-Std#2-10.000 PPM	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	74 021	10.000	10.000	0	0.00	
6	5	TC-Std#3-25.000 PPM	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	173 808	25.000	25.000	0	0.00	
7	6	TC-Std#4-50.000 PPM	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	345 508	50.000	50.000	0	0.00	
8	7	TC-Std#5-75.000 PPM	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	507 037	75.000	75.000	0	0.00	
9	8	RINSE	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	7 945	0.138	0.138	0	0.00	Pass
10	9	ICV	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	176 833	25.358	25.357	0	0.00	Pass
11	10	ICB	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	6 164	0.000	0.000	0	0.00	Pass

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 By: TOC

Date Approved: By:

Sample Results

Spl #: 1 Sample ID : METHOD BLANK Type : QC Blank Date: 08/18/2025 Status:
Vial #: 1 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	4:22 pm	-	-	-	6 297	0.000	0.000
		Avg.	-	-	-	6 297	0.000	0.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 3 Sample ID : TC-RW Type : Std Date: 08/18/2025 Status:
Vial #: 2 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	5:36 pm	-	-	-	7 075	0.000	0.000
		Avg.	-	-	-	7 075	0.000	0.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 4 Sample ID : TC-Std#1-1.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 3 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	5:48 pm	-	-	-	12 829	1.000	1.000
		Avg.	-	-	-	12 829	1.000	1.000
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 By: TOC

Date Approved: By:

Spl #: 5 Sample ID : TC-Std#2-10.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 4 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	5:56 pm	-	-	-	74 021	10.000	10.000
		Avg.	-	-	-	74 021	10.000	10.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 6 Sample ID : TC-Std#3-25.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 5 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:04 pm	-	-	-	173 808	25.000	25.000
		Avg.	-	-	-	173 808	25.000	25.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 7 Sample ID : TC-Std#4-50.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 6 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:12 pm	-	-	-	345 508	50.000	50.000
		Avg.	-	-	-	345 508	50.000	50.000
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 By: TOC

Date Approved: By:

Spl #: 8 **Sample ID :** TC-Std#5-75.000 PPM **Type :** Std **Date:** 08/18/2025 **Status:**
Vial #: 7 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:22 pm	-	-	-	507 037	75.000	75.000
		Avg.	-	-	-	507 037	75.000	75.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 9 **Sample ID :** RINSE **Type :** Sample **Date:** 08/18/2025 **Status:** Pass
Vial #: 8 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:33 pm	-	-	-	7 945	0.138	0.138
		Avg.	-	-	-	7 945	0.138	0.138
		Std.Dev.						
		% RSD.				0.00		

Spl #: 10 **Sample ID :** ICV **Type :** Sample **Date:** 08/18/2025 **Status:** Pass
Vial #: 9 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:41 pm	-	-	-	176 833	25.358	25.357
		Avg.	-	-	-	176 833	25.358	25.357
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Spl #:	11	**Sample ID :**	ICB	**Type :**	Sample	**Date:**	08/18/2025	**Status:**	Pass
Vial #:	10	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:49 pm	-	-	-	6 164	0.000	0.000
		Avg.	-	-	-	6 164	0.000	0.000
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Method Summary

Method Details

Method Name:	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM
Date Created:	02/06/2024
Time Created:	6:01
Created By:	TOC

Analysis Mode: TC Only

Sparging Mode:	n/a
Pre-Acid Volume (mL):	n/a
Sparge Time (mm:ss):	n/a

Volumes

Sample Volume (mL):	1.000
Acid Volume (mL):	0.000
Persulfate Volume (mL):	2.500

Other

SysPressure:	20.00

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1

Times

	React	Detect
TIC	02:30	04:00
TOC	03:00	04:00

Temp

	React	Detect
TIC	70	70
TOC	98	98

Outlier Removal Criteria

Enabled:	No
Additional Replicates:	1
Max. % RSD.	10.00

Rinses

Rinse Volume (mL):	15.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Max. Std. Dev. 100 Use Modified Oxidant: No

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Mode

Primary Mode:	TC
User for ALL Modes:	Enabled

Calibration Pass/Fail Criteria

Parameter	Enabled	Low	High	Failure
R² (ugC/K-cts)	Yes	0.1000	0.3000	Continue
	Yes	0.950	1.000	Continue
Offset (area) (cts)	No	-	-	-
Offset (mass) (ugC)	No	-	-	-
QC Blank(cts)	No	-	-	-

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10.00	Re-run	Continue
QC #1	0.000	10.00	Re-run	Continue
QC #2	0.000	10.00	Re-run	Continue
QC #3	0.000	10.00	Re-run	Continue
QC #4	0.000	10.00	Re-run	Continue
SST	0.000	15.00	Abort	Abort

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TC
Date Calibrated:	07/25/2025
Time Calibrated:	6:39 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.5674
R2:	0.9986
R:	0.9993
QC Blank(cts):	0
Offset (cts):	6470
Offset (ugC):	-3.671
Reagent Blank (cts):	3 164
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

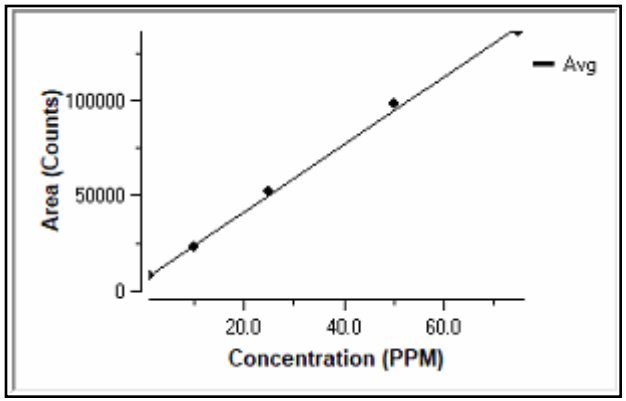
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TC
Date Calibrated:	08/18/2025
Time Calibrated:	6:22 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.1493
R2:	0.9999
R:	1.0000
QC Blank(cts):	0
Offset (cts):	7024
Offset (ugC):	-1.049
Reagent Blank (cts):	2 598
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

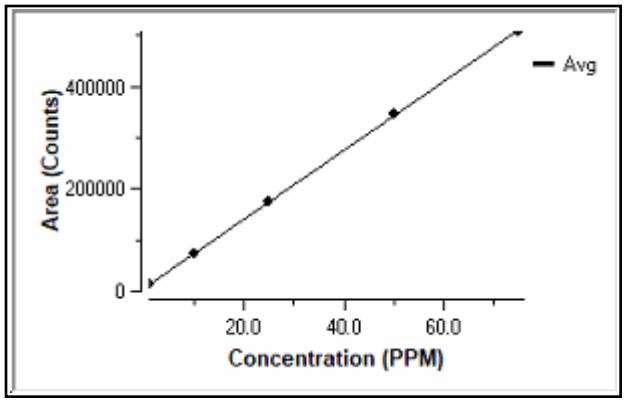
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Cust ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	-	Clean Up	2	2	DefaultCleanUpMethod	Clean Up	1 : 1	00000000	TC	60 910	0.000	0.000	13 334	21.89	
2	1	MRL	3	3	LLTOC JULY 21 21 - Jul 21, 2021; 01-45-27 PM	Sample	1 : 1	00000000	TOC	11 542	1.710	0.855	329	2.85	Pass
3	2	100 CHECK	3	3	LLTOC JULY 21 21 - Jul 21, 2021; 01-45-27 PM	Sample	1 : 1	00000000	TOC	528 266	198.475	99.238	14 123	2.67	RANGE
4	3	CO CHECK	3	3	LLTOC JULY 21 21 - Jul 21, 2021; 01-45-27 PM	Sample	1 : 1	00000000	TOC	6 070	0.000	0.000	582	9.59	Pass
5	4	25 TIC CHECK	3	3	LLTOC JULY 21 21 - Jul 21, 2021; 01-45-27 PM	Sample	1 : 1	00000000	TOC	143 188	51.840	25.920	3 151	2.20	Pass
6	5	CCV	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	176 692	25.337	25.337	2 463	1.39	Pass
7	6	CCB	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	4 478	0.000	0.000	1 558	34.78	Pass
8	7	LCS	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	175 727	25.193	25.193	5 596	3.18	Pass
9	8	MB	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	4 208	0.000	0.000	1 283	30.48	Pass
10	9	620-28495-f-3	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	142 674	20.257	20.257	4 705	3.30	Pass
11	10	620-28495-g-3 DU	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	141 832	20.131	20.131	4 623	3.26	Pass
12	11	620-28495-g-3 MS	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	165 618	23.683	23.683	1 618	0.98	Pass
13	12	620-28495-f-4	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	5 511	0.004	0.004	1 392	25.26	Pass
14	13	860-108645-d-1	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	172 786	24.754	24.754	9 916	5.74	Pass
15	14	620-28538-f-4	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	296 940	43.294	43.294	14 647	4.93	Pass
16	15	620-28538-q-5	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	187 232	26.911	26.911	2 163	1.15	Pass
17	16	620-28538-f-7	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	86 730	11.903	11.903	6 562	7.57	Pass
18	17	CCV	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	173 985	24.933	24.933	5 357	3.08	Pass
19	18	CCB	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	4 098	0.000	0.000	1 206	29.43	Pass
20	19	620-28538-f-8	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	277 729	40.425	40.425	17 468	6.29	Pass
21	20	620-28538-f-9	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	5 212	0.000	0.000	1 104	21.19	Pass
22	21	620-28577-g-4	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	303 444	44.265	44.265	14 722	4.85	Pass
23	22	620-28577-f-7	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	5 292	0.000	0.000	1 266	23.92	Pass

24	23	620-28577-j-6	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	281 653	41.011	41.011	12 147	4.31	Pass
25	24	620-28577-k-6 DU	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	300 793	43.869	43.869	5 894	1.96	Pass
26	25	620-28577-k-6 MS	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	243 405	35.299	35.299	11 089	4.56	Pass
27	26	MDL	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	11 444	0.660	0.660	1 401	12.25	Pass
28	27	CCV	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	166 456	23.808	23.808	2 357	1.42	Pass
29	28	CCB	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	4 493	0.000	0.000	1 292	28.76	Pass

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Sample Results

Spl #: 1 **Sample ID :** Clean Up **Type :** Clean Up **Date:** 08/19/2025 **Status:**
Vial #: - **Method :** DefaultCleanUpMethod **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	10:19 am	-	-	-	51 481	0.000	0.000
2	08/19/2025	10:26 am	-	-	-	70 338	0.000	0.000
		Avg.	-	-	-	60 910	0.000	0.000
		Std.Dev.						
		% RSD.				21.89		

Spl #: 2 **Sample ID :** MRL **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 1 **Method :** LLTOC JULY 21 21 - Jul 21, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	10:35 am	-	-	-	11 717	1.777	0.888
2	08/19/2025	10:43 am	-	-	-	11 747	1.788	0.894
3	08/19/2025	10:52 am	-	-	-	11 162	1.565	0.783
		Avg.	-	-	-	11 542	1.710	0.855
		Std.Dev.						
		% RSD.				2.85		

Spl #: 3 Sample ID : 100 CHECK Type : Sample Date: 08/19/2025 Status: RANGE
Vial #: 2 Method : LLTOC JULY 21 21 - Jul 21, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:02 am	-	-	-	542 925	204.057	102.029
2	08/19/2025	11:11 am	-	-	-	514 748	193.328	96.664
3	08/19/2025	11:20 am	-	-	-	527 123	198.040	99.020
		Avg.	-	-	-	528 266	198.475	99.238
		Std.Dev.						
		% RSD.				2.67		

Spl #: 4 Sample ID : CO CHECK Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 3 Method : LLTOC JULY 21 21 - Jul 21, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:29 am	-	-	-	6 740	0.000	0.000
2	08/19/2025	11:37 am	-	-	-	5 690	0.000	0.000
3	08/19/2025	11:45 am	-	-	-	5 779	0.000	0.000
		Avg.	-	-	-	6 070	0.000	0.000
		Std.Dev.						
		% RSD.				9.59		

Spl #: 5 Sample ID : 25 TIC CHECK Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 4 Method : LLTOC JULY 21 21 - Jul 21, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:55 am	-	-	-	140 371	50.767	25.384
2	08/19/2025	12:03 pm	-	-	-	146 591	53.136	26.568
3	08/19/2025	12:11 pm	-	-	-	142 600	51.616	25.807
		Avg.	-	-	-	143 188	51.840	25.920
		Std.Dev.						
		% RSD.				2.20		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	6	**Sample ID :**	CCV	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	5	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	12:19 pm	-	-	-	178 562	25.616	25.616
2	08/19/2025	12:26 pm	-	-	-	177 614	25.475	25.475
3	08/19/2025	12:33 pm	-	-	-	173 901	24.920	24.920
		Avg.	-	-	-	176 692	25.337	25.337
		Std.Dev.						
		% RSD.				1.39		

Spl #:	7	**Sample ID :**	CCB	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	6	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	12:41 pm	-	-	-	6 276	0.000	0.000
2	08/19/2025	12:48 pm	-	-	-	3 540	0.000	0.000
3	08/19/2025	12:54 pm	-	-	-	3 617	0.000	0.000
		Avg.	-	-	-	4 478	0.000	0.000
		Std.Dev.						
		% RSD.				34.78		

Spl #: 8 **Sample ID :** LCS **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 7 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	1:02 pm	-	-	-	181 212	26.012	26.012
2	08/19/2025	1:09 pm	-	-	-	170 027	24.342	24.342
3	08/19/2025	1:16 pm	-	-	-	175 944	25.225	25.225
		Avg.	-	-	-	175 727	25.193	25.193
		Std.Dev.						
		% RSD.				3.18		

Spl #: 9 **Sample ID :** MB **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 8 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	1:24 pm	-	-	-	5 687	0.000	0.000
2	08/19/2025	1:31 pm	-	-	-	3 400	0.000	0.000
3	08/19/2025	1:37 pm	-	-	-	3 536	0.000	0.000
		Avg.	-	-	-	4 208	0.000	0.000
		Std.Dev.						
		% RSD.				30.48		

Spl #: 10 **Sample ID :** 620-28495-f-3 **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 9 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	1:45 pm	-	-	-	141 586	20.094	20.094
2	08/19/2025	1:51 pm	-	-	-	147 827	21.026	21.026
3	08/19/2025	1:58 pm	-	-	-	138 608	19.650	19.650
		Avg.	-	-	-	142 674	20.257	20.257
		Std.Dev.						
		% RSD.				3.30		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	11	**Sample ID :**	620-28495-g-3 DU	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	10	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	2:06 pm	-	-	-	146 682	20.855	20.855
2	08/19/2025	2:12 pm	-	-	-	137 476	19.481	19.481
3	08/19/2025	2:18 pm	-	-	-	141 339	20.058	20.058
		Avg.	-	-	-	141 832	20.131	20.131
		Std.Dev.						
		% RSD.				3.26		

Spl #:	12	**Sample ID :**	620-28495-g-3 MS	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	11	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	2:26 pm	-	-	-	167 407	23.950	23.950
2	08/19/2025	2:33 pm	-	-	-	164 257	23.480	23.480
3	08/19/2025	2:39 pm	-	-	-	165 190	23.619	23.619
		Avg.	-	-	-	165 618	23.683	23.683
		Std.Dev.						
		% RSD.				0.98		

Spl #: 13 Sample ID : 620-28495-f-4 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 12 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	2:47 pm	-	-	-	7 111	0.013	0.012
2	08/19/2025	2:54 pm	-	-	-	4 852	0.000	0.000
3	08/19/2025	3:00 pm	-	-	-	4 572	0.000	0.000
		Avg.	-	-	-	5 511	0.004	0.004
		Std.Dev.						
		% RSD.				25.26		

Spl #: 14 Sample ID : 860-108645-d-1 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 13 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	3:08 pm	-	-	-	162 975	23.288	23.288
2	08/19/2025	3:14 pm	-	-	-	182 803	26.250	26.250
3	08/19/2025	3:20 pm	-	-	-	172 579	24.723	24.723
		Avg.	-	-	-	172 786	24.754	24.754
		Std.Dev.						
		% RSD.				5.74		

Spl #: 15 Sample ID : 620-28538-f-4 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 14 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	3:28 pm	-	-	-	280 349	40.816	40.816
2	08/19/2025	3:35 pm	-	-	-	302 393	44.108	44.108
3	08/19/2025	3:41 pm	-	-	-	308 078	44.957	44.957
		Avg.	-	-	-	296 940	43.294	43.294
		Std.Dev.						
		% RSD.				4.93		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 16 **Sample ID :** 620-28538-q-5 **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 15 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	3:49 pm	-	-	-	184 754	26.541	26.541
2	08/19/2025	3:55 pm	-	-	-	188 206	27.056	27.056
3	08/19/2025	4:01 pm	-	-	-	188 737	27.136	27.136
		Avg.	-	-	-	187 232	26.911	26.911
		Std.Dev.						
		% RSD.				1.15		

Spl #: 17 **Sample ID :** 620-28538-f-7 **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 16 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	4:09 pm	-	-	-	94 262	13.027	13.027
2	08/19/2025	4:15 pm	-	-	-	83 686	11.448	11.448
3	08/19/2025	4:22 pm	-	-	-	82 243	11.233	11.233
		Avg.	-	-	-	86 730	11.903	11.903
		Std.Dev.						
		% RSD.				7.57		

Spl #: 18 Sample ID : CCV Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 17 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	4:30 pm	-	-	-	167 827	24.013	24.013
2	08/19/2025	4:37 pm	-	-	-	177 564	25.467	25.467
3	08/19/2025	4:43 pm	-	-	-	176 565	25.318	25.318
		Avg.	-	-	-	173 985	24.933	24.933
		Std.Dev.						
		% RSD.				3.08		

Spl #: 19 Sample ID : CCB Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 18 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	4:51 pm	-	-	-	5 471	0.000	0.000
2	08/19/2025	4:58 pm	-	-	-	3 615	0.000	0.000
3	08/19/2025	5:05 pm	-	-	-	3 209	0.000	0.000
		Avg.	-	-	-	4 098	0.000	0.000
		Std.Dev.						
		% RSD.				29.43		

Spl #: 20 Sample ID : 620-28538-f-8 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 19 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	5:13 pm	-	-	-	270 175	39.297	39.297
2	08/19/2025	5:19 pm	-	-	-	297 703	43.408	43.408
3	08/19/2025	5:25 pm	-	-	-	265 308	38.570	38.570
		Avg.	-	-	-	277 729	40.425	40.425
		Std.Dev.						
		% RSD.				6.29		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 21 **Sample ID :** 620-28538-f-9 **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 20 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	5:33 pm	-	-	-	6 476	0.000	0.000
2	08/19/2025	5:39 pm	-	-	-	4 726	0.000	0.000
3	08/19/2025	5:46 pm	-	-	-	4 433	0.000	0.000
		Avg.	-	-	-	5 212	0.000	0.000
		Std.Dev.						
		% RSD.				21.19		

Spl #: 22 **Sample ID :** 620-28577-g-4 **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 21 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	5:53 pm	-	-	-	294 995	43.003	43.003
2	08/19/2025	6:00 pm	-	-	-	294 893	42.988	42.988
3	08/19/2025	6:06 pm	-	-	-	320 444	46.804	46.804
		Avg.	-	-	-	303 444	44.265	44.265
		Std.Dev.						
		% RSD.				4.85		

Spl #: 23 **Sample ID :** 620-28577-f-7 **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 22 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	6:14 pm	-	-	-	6 743	0.000	0.000
2	08/19/2025	6:20 pm	-	-	-	4 717	0.000	0.000
3	08/19/2025	6:26 pm	-	-	-	4 415	0.000	0.000
		Avg.	-	-	-	5 292	0.000	0.000
		Std.Dev.						
		% RSD.				23.92		

Spl #: 24 **Sample ID :** 620-28577-j-6 **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 23 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	6:34 pm	-	-	-	285 855	41.638	41.638
2	08/19/2025	6:40 pm	-	-	-	291 141	42.428	42.428
3	08/19/2025	6:47 pm	-	-	-	267 962	38.967	38.967
		Avg.	-	-	-	281 653	41.011	41.011
		Std.Dev.						
		% RSD.				4.31		

Spl #: 25 **Sample ID :** 620-28577-k-6 DU **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 24 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	6:54 pm	-	-	-	297 981	43.449	43.449
2	08/19/2025	7:01 pm	-	-	-	296 831	43.277	43.277
3	08/19/2025	7:07 pm	-	-	-	307 566	44.881	44.881
		Avg.	-	-	-	300 793	43.869	43.869
		Std.Dev.						
		% RSD.				1.96		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	26	**Sample ID :**	620-28577-k-6 MS	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	25	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	7:15 pm	-	-	-	245 152	35.560	35.560
2	08/19/2025	7:21 pm	-	-	-	231 545	33.528	33.528
3	08/19/2025	7:27 pm	-	-	-	253 516	36.809	36.809
		Avg.	-	-	-	243 405	35.299	35.299
		Std.Dev.						
		% RSD.				4.56		

Spl #:	27	**Sample ID :**	MDL	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	26	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	7:35 pm	-	-	-	13 032	0.897	0.897
2	08/19/2025	7:42 pm	-	-	-	10 917	0.581	0.581
3	08/19/2025	7:48 pm	-	-	-	10 382	0.502	0.502
		Avg.	-	-	-	11 444	0.660	0.660
		Std.Dev.						
		% RSD.				12.25		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 28 **Sample ID :** CCV **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 27 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	7:57 pm	-	-	-	166 785	23.857	23.857
2	08/19/2025	8:03 pm	-	-	-	163 953	23.435	23.435
3	08/19/2025	8:10 pm	-	-	-	168 631	24.133	24.133
		Avg.	-	-	-	166 456	23.808	23.808
		Std.Dev.						
		% RSD.				1.42		

Spl #: 29 **Sample ID :** CCB **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 28 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	8:18 pm	-	-	-	5 715	0.000	0.000
2	08/19/2025	8:25 pm	-	-	-	4 625	0.000	0.000
3	08/19/2025	8:31 pm	-	-	-	3 140	0.000	0.000
		Avg.	-	-	-	4 493	0.000	0.000
		Std.Dev.						
		% RSD.				28.76		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Method Summary

Method Details

Method Name:	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM
Date Created:	02/06/2024
Time Created:	6:01
Created By:	TOC

Analysis Mode: TC Only

Sparging Mode:	n/a
Pre-Acid Volume (mL):	n/a
Sparge Time (mm:ss):	n/a

Volumes

Sample Volume (mL):	1.000
Acid Volume (mL):	0.000
Persulfate Volume (mL):	2.500

Other

SysPressure:	20.00

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1

Times

	React	Detect
TIC	02:30	04:00
TOC	03:00	04:00

Temp

	React	Detect
TIC	70	70
TOC	98	98

Outlier Removal Criteria

Enabled:	No
Additional Replicates:	1
Max. % RSD.	10.00

Rinses

Rinse Volume (mL):	15.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Max. Std. Dev. 100 Use Modified Oxidant: No

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Mode

Primary Mode:	TC
User for ALL Modes:	Enabled

Calibration Pass/Fail Criteria

Parameter	Enabled	Low	High	Failure
R² (ugC/K-cts)	Yes	0.1000	0.3000	Continue
	Yes	0.950	1.000	Continue
Offset (area) (cts)	No	-	-	-
Offset (mass) (ugC)	No	-	-	-
QC Blank(cts)	No	-	-	-

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10.00	Re-run	Continue
QC #1	0.000	10.00	Re-run	Continue
QC #2	0.000	10.00	Re-run	Continue
QC #3	0.000	10.00	Re-run	Continue
QC #4	0.000	10.00	Re-run	Continue
SST	0.000	15.00	Abort	Abort

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TC
Date Calibrated:	08/18/2025
Time Calibrated:	6:22 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.1493
R2:	0.9999
R:	1.0000
QC Blank(cts):	0
Offset (cts):	7024
Offset (ugC):	-1.049
Reagent Blank (cts):	2 598
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

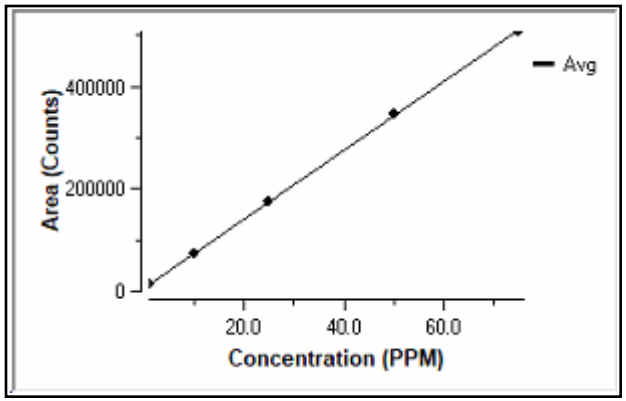
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Method Summary

Method Details

Method Name:	LLTOC JULY 21 21 - Jul 21, 2021; 01-45-27 PM
Date Created:	07/21/2021
Time Created:	13:51
Created By:	toc

Analysis Mode: NPOC Only

Sparging Mode:	Internal
Pre-Acid Volume (mL):	1.000
Sparge Time (mm:ss):	02:00

Volumes

Sample Volume (mL):	2.000
Acid Volume (mL):	0.500
Persulfate Volume (mL):	2.500

Other

SysPressure:	20.00

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1

Times

	React	Detect
TIC	01:30	03:00
TOC	02:00	03:00

Temp

	React	Detect
TIC	70	70
TOC	98	98

Outlier Removal Criteria

Enabled:	No
Additional Replicates:	1
Max. % RSD.	10.00

Rinses

Rinse Volume (mL):	15.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Max. Std. Dev. 100 Use Modified Oxidant: No

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Mode

Primary Mode:	TOC
User for ALL Modes:	Enabled

Calibration Pass/Fail Criteria

Parameter	Enabled	Low	High	Failure
R² (ugC/K-cts)	Yes	0.1000	0.3000	Continue
	Yes	0.950	1.000	Continue
Offset (area) (cts)	No	-	-	-
Offset (mass) (ugC)	No	-	-	-
QC Blank(cts)	No	-	-	-

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10.00	Re-run	Continue
QC #1	0.000	10.00	Re-run	Continue
QC #2	0.000	10.00	Re-run	Continue
QC #3	0.000	10.00	Re-run	Continue
QC #4	0.000	10.00	Re-run	Continue
SST	0.000	15.00	Abort	Abort

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TOC
Date Calibrated:	07/24/2025
Time Calibrated:	3:50 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.3808
R2:	0.9991
R:	0.9995
QC Blank(cts):	0
Offset (cts):	7052
Offset (ugC):	-2.685
Reagent Blank (cts):	3 058
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		2
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

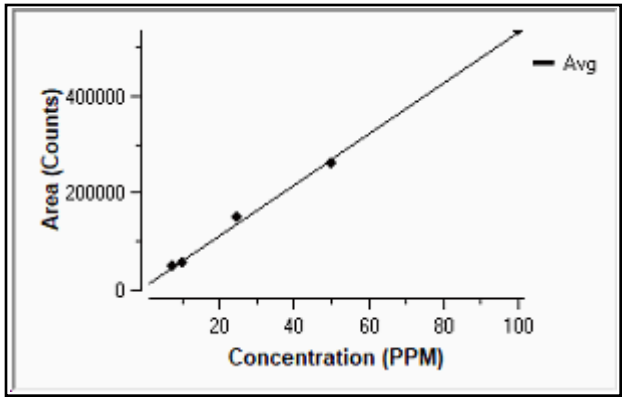
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

Method:	5310C/9060/415.1
Analyte:	Total Organic Carbon
Calibration Date and Time:	8/18/2025 1753
Run Name:	25230CALG03
Instrument:	80742
RF:	0.4535
Volume:	2
Offset/RB area	992

Curve Type: Linear

CAL PT	Xi = True Value	Units	Area Ct	Corrected Area Ct (Area Ct - Offset/RB area)	X'I = Measured Value	Percent Error (X'i - (Xi / Xi)) x 100	Criteria	Pass/Fail
1	1	mg/L	6166	5174	1.17	17.3%	50%	PASS
2	7.5	mg/L	33542	32550	7.38	-1.6%	10%	PASS
3	10	mg/L	43006	42014	9.53	-4.7%	10%	PASS
4	25	mg/L	112747	111755	25.34	1.4%	10%	PASS
5	50	mg/L	220497	219505	49.77	-0.5%	10%	PASS
6	100	mg/L	442383	441391	100.09	0.1%	10%	PASS

Calculation spreadsheet based off of NELAC Calculation Spreadsheet https://nelac-institute.org/news.php?id=2847

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Cust ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	-	Clean Up	2	2	DefaultCleanUpMethod	Clean Up	1 : 1	00000000	TC	30 413	0.000	0.000	177	0.58	
2	1	RINSE	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	2 216	0.506	0.252	0	0.00	Pass
3	2	METHOD BLANK	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	QC Blank	1 : 1	00000000	TOC	1 655	0.000	0.000	0	0.00	
5	3	TOC-RW	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	1 980	0.000	0.000	0	0.00	
6	4	TOC-Std#1-1.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	6 166	2.000	1.000	0	0.00	
7	5	TOC-Std#2-7.500 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	33 542	15.000	7.500	0	0.00	
8	6	TOC-Std#3-10.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	43 006	20.000	10.000	0	0.00	
9	7	TOC-Std#4-25.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	112 747	50.000	25.000	0	0.00	
10	8	TOC-Std#5-50.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	220 497	100.000	50.000	0	0.00	
11	9	TOC-Std#6-100.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	442 383	200.000	100.000	0	0.00	
12	10	RINSE	2	2	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	2 194	0.545	0.273	1 033	47.09	Pass
13	11	ICV	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	112 752	50.682	25.341	0	0.00	Pass
14	12	ICB	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 769	0.353	0.176	0	0.00	Pass

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Sample Results

Spl #: 1 **Sample ID :** Clean Up **Type :** Clean Up **Date:** 08/18/2025 **Status:**
Vial #: - **Method :** DefaultCleanUpMethod **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	3:51 pm	-	-	-	30 538	0.000	0.000
2	08/18/2025	3:55 pm	-	-	-	30 288	0.000	0.000
		Avg.	-	-	-	30 413	0.000	0.000
		Std.Dev.						
		% RSD.				0.58		

Spl #: 2 **Sample ID :** RINSE **Type :** Sample **Date:** 08/18/2025 **Status:** Pass
Vial #: 1 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	4:02 pm	-	-	-	2 216	0.506	0.252
		Avg.	-	-	-	2 216	0.506	0.252
		Std.Dev.						
		% RSD.				0.00		

Spl #: 3 **Sample ID :** METHOD BLANK **Type :** QC Blank **Date:** 08/18/2025 **Status:**
Vial #: 2 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	4:09 pm	-	-	-	1 655	0.000	0.000
		Avg.	-	-	-	1 655	0.000	0.000
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 By: TOC

Date Approved: By:

Spl #: 5 Sample ID : TOC-RW Type : Std Date: 08/18/2025 Status:
Vial #: 3 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	4:46 pm	-	-	-	1 980	0.000	0.000
		Avg.	-	-	-	1 980	0.000	0.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 6 Sample ID : TOC-Std#1-1.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 4 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	4:56 pm	-	-	-	6 166	2.000	1.000
		Avg.	-	-	-	6 166	2.000	1.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 7 Sample ID : TOC-Std#2-7.500 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 5 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:04 pm	-	-	-	33 542	15.000	7.500
		Avg.	-	-	-	33 542	15.000	7.500
		Std.Dev.						
		% RSD.				0.00		

Spl #: 8 Sample ID : TOC-Std#3-10.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 6 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:13 pm	-	-	-	43 006	20.000	10.000
		Avg.	-	-	-	43 006	20.000	10.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 9 Sample ID : TOC-Std#4-25.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 7 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:21 pm	-	-	-	112 747	50.000	25.000
		Avg.	-	-	-	112 747	50.000	25.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 10 Sample ID : TOC-Std#5-50.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 8 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:30 pm	-	-	-	220 497	100.000	50.000
		Avg.	-	-	-	220 497	100.000	50.000
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Spl #: 11 **Sample ID :** TOC-Std#6-100.000 PPM **Type :** Std **Date:** 08/18/2025 **Status:**
Vial #: 9 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:38 pm	-	-	-	442 383	200.000	100.000
		Avg.	-	-	-	442 383	200.000	100.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 12 **Sample ID :** RINSE **Type :** Sample **Date:** 08/18/2025 **Status:** Pass
Vial #: 10 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:48 pm	-	-	-	1 463	0.214	0.107
2	08/18/2025	5:54 pm	-	-	-	2 924	0.876	0.438
		Avg.	-	-	-	2 194	0.545	0.273
		Std.Dev.						
		% RSD.				47.09		

Spl #: 13 **Sample ID :** ICV **Type :** Sample **Date:** 08/18/2025 **Status:** Pass
Vial #: 11 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	6:03 pm	-	-	-	112 752	50.682	25.341
		Avg.	-	-	-	112 752	50.682	25.341
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Spl #:	14	**Sample ID :**	ICB	**Type :**	Sample	**Date:**	08/18/2025	**Status:**	Pass
Vial #:	12	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	6:10 pm	-	-	-	1 769	0.353	0.176
		Avg.	-	-	-	1 769	0.353	0.176
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Method Summary

Method Details

Method Name:	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM
Date Created:	03/10/2021
Time Created:	11:46
Created By:	toc

Analysis Mode: NPOC Only

Sparging Mode:	Internal
Pre-Acid Volume (mL):	1.000
Sparge Time (mm:ss):	02:00

Volumes

Sample Volume (mL):	2.000
Acid Volume (mL):	0.500
Persulfate Volume (mL):	2.500

Other

SysPressure:	20.00

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1

Times

	React	Detect
TIC	01:30	03:00
TOC	02:00	03:00

Temp

	React	Detect
TIC	70	70
TOC	98	98

Outlier Removal Criteria

Enabled:	No
Additional Replicates:	1
Max. % RSD.	10.00

Rinses

Rinse Volume (mL):	15.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Max. Std. Dev. 100 Use Modified Oxidant: No

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Mode

Primary Mode:	TOC
User for ALL Modes:	Enabled

Calibration Pass/Fail Criteria

Parameter	Enabled	Low	High	Failure
R² (ugC/K-cts)	Yes	0.1000	0.3000	Continue
	Yes	0.950	1.000	Continue
Offset (area) (cts)	No	-	-	-
Offset (mass) (ugC)	No	-	-	-
QC Blank(cts)	No	-	-	-

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10.00	Re-run	Continue
QC #1	0.000	10.00	Re-run	Continue
QC #2	0.000	10.00	Re-run	Continue
QC #3	0.000	10.00	Re-run	Continue
QC #4	0.000	10.00	Re-run	Continue
SST	0.000	15.00	Abort	Abort

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TOC
Date Calibrated:	07/17/2025
Time Calibrated:	2:24 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.4641
R2:	0.9999
R:	0.9999
QC Blank(cts):	0
Offset (cts):	1126
Offset (ugC):	-0.523
Reagent Blank (cts):	562
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

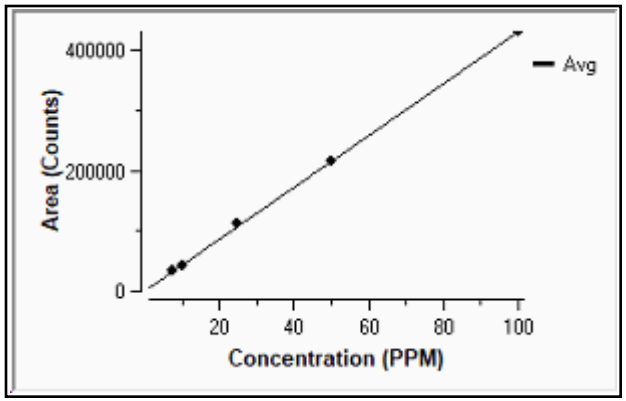
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TOC
Date Calibrated:	08/18/2025
Time Calibrated:	5:38 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.4535
R2:	0.9999
R:	1.0000
QC Blank(cts):	0
Offset (cts):	992
Offset (ugC):	-0.450
Reagent Blank (cts):	1 282
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

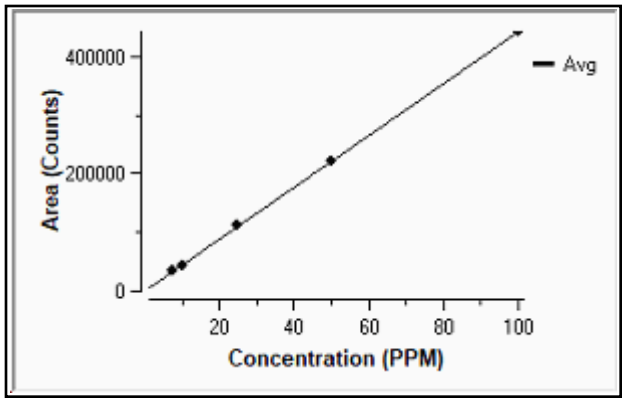
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Cust ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	-	Clean Up	2	2	DefaultCleanUpMethod	Clean Up	1 : 1	00000000	TC	19 048	0.000	0.000	36	0.19	
2	1	MRL	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 133	1.878	0.939	156	3.04	Pass
3	2	100 CHECK	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	431 911	195.418	97.709	6 563	1.52	Pass
4	3	CO CHECK	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 960	0.439	0.220	150	7.65	Pass
5	4	25 TIC CHECK	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	106 101	47.666	23.833	1 902	1.79	Pass
6	5	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	208 126	93.934	46.967	1 381	0.66	Pass
7	6	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 734	0.337	0.168	263	15.17	Pass
8	7	LCS	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	208 950	94.307	47.154	2 390	1.14	Pass
9	8	MB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 571	0.263	0.132	394	25.07	Pass
10	9	620-28495-d-3	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	43 346	19.207	9.604	1 078	2.49	Pass
11	10	620-28495-e-3 DU	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	44 098	19.548	9.774	1 131	2.57	Pass
12	11	620-28495-e-3 MS	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	88 011	39.462	19.731	1 506	1.71	Pass
13	12	620-28538-d-4	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	25 906	11.298	5.649	935	3.61	Pass
14	13	620-28538-o-5	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	16 579	7.069	3.534	301	1.82	Pass
15	14	620-28538-d-7	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	11 203	4.631	2.315	553	4.94	Pass
16	15	620-28538-d-8	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	26 494	11.565	5.783	829	3.13	Pass
17	16	620-28538-d-9	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	2 612	0.735	0.367	269	10.29	Pass
18	17	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	104 257	46.830	23.415	1 720	1.65	Pass
19	18	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 656	0.301	0.151	399	24.08	Pass
20	19	620-28555-d-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 473	2.032	1.016	144	2.64	Pass
21	20	620-28555-d-4	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 410	2.004	1.002	242	4.47	Pass
22	21	620-28555-d-6	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	8 386	3.353	1.677	119	1.42	Pass
23	22	620-28555-d-8	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	13 618	5.726	2.863	305	2.24	Pass

24	23	620-28556-d-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 478	1.581	0.791	191	4.25	Pass
25	24	620-28556-e-2 DU	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 231	1.469	0.735	167	3.95	Pass
26	25	620-28556-e-2 MS	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	48 627	21.602	10.801	550	1.13	Pass
27	26	620-28556-d-4	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 032	1.378	0.689	253	6.28	Pass
28	27	620-28556-d-6	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 192	1.451	0.725	162	3.86	Pass
29	28	620-28556-d-8	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	6 126	2.328	1.164	175	2.86	Pass
30	29	CCVL	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	22 165	9.602	4.801	148	0.67	Pass
31	30	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 467	0.215	0.108	182	12.42	Pass
32	31	410-235982-d-22^50	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	98 275	44.117	22.059	2 662	2.71	Pass
33	32	620-28577-d-4	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	13 710	5.767	2.883	302	2.20	Pass
34	33	620-28577-h-6	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	13 922	5.864	2.932	211	1.52	Pass
35	34	620-28577-d-7	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 842	0.386	0.193	142	7.71	Pass
36	35	410-234907-h-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	6 316	2.414	1.207	125	1.98	Pass
37	36	410-234907-h-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	11 884	4.939	2.470	150	1.26	Pass
38	37	LCS	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	227 232	102.598	51.299	2 308	1.02	Pass
39	38	MB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 460	0.212	0.106	302	20.68	Pass
40	39	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	107 189	48.159	24.079	571	0.53	Pass
41	40	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 420	0.194	0.097	235	16.58	Pass
42	41	410-236298-g-3^10	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	95 113	42.683	21.342	1 417	1.49	Pass
43	42	410-236298-h-3 DU^10	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	104 958	47.148	23.573	1 623	1.55	Pass
44	43	410-236298-h-3 MS^10	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	135 302	60.908	30.454	2 089	1.54	Pass
45	44	410-236298-g-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 796	0.364	0.182	237	13.23	Pass
46	45	410-236298-g-4^25	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	41 152	18.212	9.106	606	1.47	Pass
47	46	410-236320-a-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 551	2.068	1.034	157	2.83	Pass
48	47	410-236320-a-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 524	1.602	0.801	27	0.59	Pass

49	48	410-236320-a-3	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 359	1.980	0.990	120	2.23	Pass
50	49	410-236683-a-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	38 459	16.991	8.496	795	2.07	Pass
51	50	410-236741-b-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	18 276	7.838	3.919	728	3.99	Pass
52	51	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	210 964	95.220	47.611	1 722	0.82	Pass
53	52	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 718	0.329	0.164	357	20.79	Pass
54	53	410-236750-b-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	11 386	4.714	2.357	183	1.61	Pass
55	54	410-236750-b-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	6 992	2.721	1.361	198	2.83	Pass
56	55	680-266382-g-5	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	3 711	1.233	0.616	28	0.74	Pass
57	56	680-266382-G-5 ms	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	49 137	21.833	10.917	697	1.42	Pass

Sample Results

Spl #: 1 **Sample ID :** Clean Up **Type :** Clean Up **Date:** 08/19/2025 **Status:**
Vial #: - **Method :** DefaultCleanUpMethod **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	7:08 pm	-	-	-	19 074	0.000	0.000
2	08/19/2025	7:12 pm	-	-	-	19 023	0.000	0.000
		Avg.	-	-	-	19 048	0.000	0.000
		Std.Dev.						
		% RSD.				0.19		

Spl #: 2 **Sample ID :** MRL **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 1 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	7:19 pm	-	-	-	5 186	1.902	0.951
2	08/19/2025	7:24 pm	-	-	-	4 957	1.798	0.899
3	08/19/2025	7:30 pm	-	-	-	5 254	1.933	0.967
		Avg.	-	-	-	5 133	1.878	0.939
		Std.Dev.						
		% RSD.				3.04		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 3 **Sample ID :** 100 CHECK **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 2 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	7:39 pm	-	-	-	427 795	193.552	96.776
2	08/19/2025	7:45 pm	-	-	-	439 480	198.851	99.425
3	08/19/2025	7:51 pm	-	-	-	428 458	193.852	96.926
		Avg.	-	-	-	431 911	195.418	97.709
		Std.Dev.						
		% RSD.				1.52		

Spl #: 4 **Sample ID :** CO CHECK **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 3 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	7:58 pm	-	-	-	1 787	0.360	0.180
2	08/19/2025	8:04 pm	-	-	-	2 049	0.479	0.240
3	08/19/2025	8:10 pm	-	-	-	2 044	0.477	0.239
		Avg.	-	-	-	1 960	0.439	0.220
		Std.Dev.						
		% RSD.				7.65		

Spl #: 5 **Sample ID :** 25 TIC CHECK **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 4 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	8:19 pm	-	-	-	104 035	46.729	23.365
2	08/19/2025	8:24 pm	-	-	-	107 782	48.428	24.214
3	08/19/2025	8:30 pm	-	-	-	106 486	47.841	23.920
		Avg.	-	-	-	106 101	47.666	23.833
		Std.Dev.						
		% RSD.				1.79		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	6	**Sample ID :**	CCV	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	5	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	8:38 pm	-	-	-	207 476	93.639	46.819
2	08/19/2025	8:44 pm	-	-	-	207 191	93.509	46.755
3	08/19/2025	8:49 pm	-	-	-	209 712	94.653	47.326
		Avg.	-	-	-	208 126	93.934	46.967
		Std.Dev.						
		% RSD.				0.66		

Spl #:	7	**Sample ID :**	CCB	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	6	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	8:58 pm	-	-	-	1 556	0.256	0.128
2	08/19/2025	9:03 pm	-	-	-	2 036	0.474	0.237
3	08/19/2025	9:09 pm	-	-	-	1 610	0.280	0.140
		Avg.	-	-	-	1 734	0.337	0.168
		Std.Dev.						
		% RSD.				15.17		

Spl #: 8 Sample ID : LCS Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 7 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	9:18 pm	-	-	-	207 471	93.637	46.818
2	08/19/2025	9:24 pm	-	-	-	207 671	93.727	46.864
3	08/19/2025	9:29 pm	-	-	-	211 706	95.557	47.779
		Avg.	-	-	-	208 950	94.307	47.154
		Std.Dev.						
		% RSD.				1.14		

Spl #: 9 Sample ID : MB Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 8 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	9:37 pm	-	-	-	1 244	0.114	0.057
2	08/19/2025	9:43 pm	-	-	-	2 008	0.461	0.231
3	08/19/2025	9:49 pm	-	-	-	1 462	0.213	0.107
		Avg.	-	-	-	1 571	0.263	0.132
		Std.Dev.						
		% RSD.				25.07		

Spl #: 10 Sample ID : 620-28495-d-3 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 9 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	9:57 pm	-	-	-	42 765	18.944	9.472
2	08/19/2025	10:03 pm	-	-	-	42 682	18.906	9.453
3	08/19/2025	10:09 pm	-	-	-	44 589	19.771	9.886
		Avg.	-	-	-	43 346	19.207	9.604
		Std.Dev.						
		% RSD.				2.49		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 11 **Sample ID :** 620-28495-e-3 DU **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 10 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	10:18 pm	-	-	-	43 086	19.089	9.545
2	08/19/2025	10:23 pm	-	-	-	45 319	20.102	10.051
3	08/19/2025	10:29 pm	-	-	-	43 889	19.454	9.727
		Avg.	-	-	-	44 098	19.548	9.774
		Std.Dev.						
		% RSD.				2.57		

Spl #: 12 **Sample ID :** 620-28495-e-3 MS **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 11 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	10:38 pm	-	-	-	87 731	39.335	19.668
2	08/19/2025	10:44 pm	-	-	-	86 664	38.852	19.426
3	08/19/2025	10:49 pm	-	-	-	89 637	40.200	20.100
		Avg.	-	-	-	88 011	39.462	19.731
		Std.Dev.						
		% RSD.				1.71		

Spl #: 13 Sample ID : 620-28538-d-4 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 12 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	10:59 pm	-	-	-	25 020	10.896	5.448
2	08/19/2025	11:04 pm	-	-	-	26 884	11.742	5.871
3	08/19/2025	11:10 pm	-	-	-	25 813	11.256	5.628
		Avg.	-	-	-	25 906	11.298	5.649
		Std.Dev.						
		% RSD.				3.61		

Spl #: 14 Sample ID : 620-28538-o-5 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 13 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:18 pm	-	-	-	16 276	6.931	3.466
2	08/19/2025	11:24 pm	-	-	-	16 582	7.070	3.535
3	08/19/2025	11:29 pm	-	-	-	16 879	7.205	3.602
		Avg.	-	-	-	16 579	7.069	3.534
		Std.Dev.						
		% RSD.				1.82		

Spl #: 15 Sample ID : 620-28538-d-7 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 14 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:38 pm	-	-	-	10 568	4.343	2.171
2	08/19/2025	11:44 pm	-	-	-	11 582	4.803	2.401
3	08/19/2025	11:50 pm	-	-	-	11 459	4.746	2.373
		Avg.	-	-	-	11 203	4.631	2.315
		Std.Dev.						
		% RSD.				4.94		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 16 **Sample ID :** 620-28538-d-8 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 15 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:58 pm	-	-	-	26 292	11.473	5.737
2	08/20/2025	12:04 am	-	-	-	25 785	11.243	5.622
3	08/20/2025	12:09 am	-	-	-	27 406	11.978	5.989
		Avg.	-	-	-	26 494	11.565	5.783
		Std.Dev.						
		% RSD.				3.13		

Spl #: 17 **Sample ID :** 620-28538-d-9 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 16 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:18 am	-	-	-	2 665	0.759	0.379
2	08/20/2025	12:23 am	-	-	-	2 851	0.843	0.422
3	08/20/2025	12:29 am	-	-	-	2 321	0.603	0.301
		Avg.	-	-	-	2 612	0.735	0.367
		Std.Dev.						
		% RSD.				10.29		

Spl #: 18 Sample ID : CCV Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 17 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:37 am	-	-	-	103 067	46.290	23.145
2	08/20/2025	12:43 am	-	-	-	103 474	46.475	23.237
3	08/20/2025	12:49 am	-	-	-	106 230	47.725	23.862
		Avg.	-	-	-	104 257	46.830	23.415
		Std.Dev.						
		% RSD.				1.65		

Spl #: 19 Sample ID : CCB Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 18 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:57 am	-	-	-	1 378	0.175	0.088
2	08/20/2025	1:03 am	-	-	-	2 113	0.509	0.254
3	08/20/2025	1:09 am	-	-	-	1 478	0.220	0.110
		Avg.	-	-	-	1 656	0.301	0.151
		Std.Dev.						
		% RSD.				24.08		

Spl #: 20 Sample ID : 620-28555-d-2 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 19 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	1:17 am	-	-	-	5 533	2.059	1.030
2	08/20/2025	1:23 am	-	-	-	5 309	1.958	0.979
3	08/20/2025	1:28 am	-	-	-	5 578	2.080	1.039
		Avg.	-	-	-	5 473	2.032	1.016
		Std.Dev.						
		% RSD.				2.64		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 21 **Sample ID :** 620-28555-d-4 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 20 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	1:37 am	-	-	-	5 203	1.909	0.955
2	08/20/2025	1:43 am	-	-	-	5 676	2.124	1.062
3	08/20/2025	1:48 am	-	-	-	5 352	1.977	0.989
		Avg.	-	-	-	5 410	2.004	1.002
		Std.Dev.						
		% RSD.				4.47		

Spl #: 22 **Sample ID :** 620-28555-d-6 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 21 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	1:57 am	-	-	-	8 507	3.408	1.704
2	08/20/2025	2:02 am	-	-	-	8 268	3.300	1.650
3	08/20/2025	2:08 am	-	-	-	8 382	3.351	1.676
		Avg.	-	-	-	8 386	3.353	1.677
		Std.Dev.						
		% RSD.				1.42		

Spl #: 23 Sample ID : 620-28555-d-8 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 22 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	2:17 am	-	-	-	13 284	5.574	2.787
2	08/20/2025	2:22 am	-	-	-	13 881	5.845	2.923
3	08/20/2025	2:28 am	-	-	-	13 690	5.758	2.879
		Avg.	-	-	-	13 618	5.726	2.863
		Std.Dev.						
		% RSD.				2.24		

Spl #: 24 Sample ID : 620-28556-d-2 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 23 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	2:36 am	-	-	-	4 474	1.579	0.790
2	08/20/2025	2:42 am	-	-	-	4 290	1.496	0.748
3	08/20/2025	2:48 am	-	-	-	4 671	1.668	0.834
		Avg.	-	-	-	4 478	1.581	0.791
		Std.Dev.						
		% RSD.				4.25		

Spl #: 25 Sample ID : 620-28556-e-2 DU Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 24 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	2:57 am	-	-	-	4 042	1.383	0.692
2	08/20/2025	3:02 am	-	-	-	4 297	1.499	0.749
3	08/20/2025	3:08 am	-	-	-	4 356	1.525	0.763
		Avg.	-	-	-	4 231	1.469	0.735
		Std.Dev.						
		% RSD.				3.95		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	26	**Sample ID :**	620-28556-e-2 MS	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	25	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	3:16 am	-	-	-	48 252	21.432	10.716
2	08/20/2025	3:22 am	-	-	-	48 372	21.486	10.743
3	08/20/2025	3:28 am	-	-	-	49 259	21.889	10.944
		Avg.	-	-	-	48 627	21.602	10.801
		Std.Dev.						
		% RSD.				1.13		

Spl #:	27	**Sample ID :**	620-28556-d-4	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	26	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	3:37 am	-	-	-	3 811	1.278	0.639
2	08/20/2025	3:42 am	-	-	-	4 308	1.504	0.752
3	08/20/2025	3:48 am	-	-	-	3 976	1.353	0.677
		Avg.	-	-	-	4 032	1.378	0.689
		Std.Dev.						
		% RSD.				6.28		

Spl #: 28 Sample ID : 620-28556-d-6 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 27 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	3:56 am	-	-	-	4 221	1.464	0.732
2	08/20/2025	4:02 am	-	-	-	4 017	1.372	0.686
3	08/20/2025	4:07 am	-	-	-	4 336	1.517	0.758
		Avg.	-	-	-	4 192	1.451	0.725
		Std.Dev.						
		% RSD.				3.86		

Spl #: 29 Sample ID : 620-28556-d-8 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 28 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	4:16 am	-	-	-	5 929	2.239	1.120
2	08/20/2025	4:21 am	-	-	-	6 265	2.391	1.196
3	08/20/2025	4:27 am	-	-	-	6 184	2.355	1.177
		Avg.	-	-	-	6 126	2.328	1.164
		Std.Dev.						
		% RSD.				2.86		

Spl #: 30 Sample ID : CCVL Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 29 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	4:35 am	-	-	-	22 077	9.562	4.781
2	08/20/2025	4:41 am	-	-	-	22 081	9.564	4.781
3	08/20/2025	4:46 am	-	-	-	22 336	9.679	4.840
		Avg.	-	-	-	22 165	9.602	4.801
		Std.Dev.						
		% RSD.				0.67		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 31 **Sample ID :** CCB **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 30 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	4:55 am	-	-	-	1 319	0.148	0.074
2	08/20/2025	5:01 am	-	-	-	1 670	0.308	0.154
3	08/20/2025	5:06 am	-	-	-	1 410	0.190	0.095
		Avg.	-	-	-	1 467	0.215	0.108
		Std.Dev.						
		% RSD.				12.42		

Spl #: 32 **Sample ID :** 410-235982-d-22^50 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 31 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	5:15 am	-	-	-	98 556	44.244	22.122
2	08/20/2025	5:21 am	-	-	-	95 484	42.851	21.426
3	08/20/2025	5:27 am	-	-	-	100 786	45.256	22.628
		Avg.	-	-	-	98 275	44.117	22.059
		Std.Dev.						
		% RSD.				2.71		

Spl #: 33 Sample ID : 620-28577-d-4 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 32 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	5:35 am	-	-	-	13 364	5.611	2.805
2	08/20/2025	5:41 am	-	-	-	13 839	5.826	2.912
3	08/20/2025	5:47 am	-	-	-	13 926	5.865	2.933
		Avg.	-	-	-	13 710	5.767	2.883
		Std.Dev.						
		% RSD.				2.20		

Spl #: 34 Sample ID : 620-28577-h-6 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 33 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	5:55 am	-	-	-	13 678	5.753	2.877
2	08/20/2025	6:00 am	-	-	-	14 060	5.926	2.963
3	08/20/2025	6:06 am	-	-	-	14 027	5.911	2.956
		Avg.	-	-	-	13 922	5.864	2.932
		Std.Dev.						
		% RSD.				1.52		

Spl #: 35 Sample ID : 620-28577-d-7 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 34 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	6:14 am	-	-	-	1 823	0.377	0.188
2	08/20/2025	6:20 am	-	-	-	1 993	0.454	0.227
3	08/20/2025	6:25 am	-	-	-	1 711	0.326	0.163
		Avg.	-	-	-	1 842	0.386	0.193
		Std.Dev.						
		% RSD.				7.71		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 36 **Sample ID :** 410-234907-h-1 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 35 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	6:34 am	-	-	-	6 225	2.373	1.187
2	08/20/2025	6:39 am	-	-	-	6 264	2.391	1.195
3	08/20/2025	6:45 am	-	-	-	6 458	2.479	1.239
		Avg.	-	-	-	6 316	2.414	1.207
		Std.Dev.						
		% RSD.				1.98		

Spl #: 37 **Sample ID :** 410-234907-h-2 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 36 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	6:53 am	-	-	-	11 739	4.874	2.437
2	08/20/2025	6:59 am	-	-	-	11 874	4.935	2.467
3	08/20/2025	7:05 am	-	-	-	12 039	5.010	2.505
		Avg.	-	-	-	11 884	4.939	2.470
		Std.Dev.						
		% RSD.				1.26		

Spl #: 38 Sample ID : LCS Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 37 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	7:14 am	-	-	-	228 639	103.236	51.618
2	08/20/2025	7:20 am	-	-	-	224 568	101.390	50.695
3	08/20/2025	7:25 am	-	-	-	228 488	103.168	51.584
		Avg.	-	-	-	227 232	102.598	51.299
		Std.Dev.						
		% RSD.				1.02		

Spl #: 39 Sample ID : MB Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 38 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	7:33 am	-	-	-	1 219	0.103	0.051
2	08/20/2025	7:39 am	-	-	-	1 799	0.366	0.183
3	08/20/2025	7:45 am	-	-	-	1 363	0.168	0.084
		Avg.	-	-	-	1 460	0.212	0.106
		Std.Dev.						
		% RSD.				20.68		

Spl #: 40 Sample ID : CCV Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 39 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	7:53 am	-	-	-	106 711	47.943	23.971
2	08/20/2025	7:59 am	-	-	-	107 035	48.090	24.045
3	08/20/2025	8:05 am	-	-	-	107 821	48.446	24.222
		Avg.	-	-	-	107 189	48.159	24.079
		Std.Dev.						
		% RSD.				0.53		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	41	**Sample ID :**	CCB	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	40	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	8:13 am	-	-	-	1 258	0.121	0.060
2	08/20/2025	8:19 am	-	-	-	1 690	0.317	0.158
3	08/20/2025	8:24 am	-	-	-	1 312	0.145	0.073
		Avg.	-	-	-	1 420	0.194	0.097
		Std.Dev.						
		% RSD.				16.58		

Spl #:	42	**Sample ID :**	410-236298-g-3^10	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	41	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	8:34 am	-	-	-	94 280	42.305	21.153
2	08/20/2025	8:39 am	-	-	-	94 310	42.319	21.160
3	08/20/2025	8:45 am	-	-	-	96 750	43.425	21.713
		Avg.	-	-	-	95 113	42.683	21.342
		Std.Dev.						
		% RSD.				1.49		

Spl #: 43 Sample ID : 410-236298-h-3 DU^10 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 42 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	8:54 am	-	-	-	103 183	46.343	23.171
2	08/20/2025	9:00 am	-	-	-	106 367	47.787	23.893
3	08/20/2025	9:06 am	-	-	-	105 325	47.314	23.656
		Avg.	-	-	-	104 958	47.148	23.573
		Std.Dev.						
		% RSD.				1.55		

Spl #: 44 Sample ID : 410-236298-h-3 MS^10 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 43 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	9:15 am	-	-	-	134 285	60.447	30.224
2	08/20/2025	9:21 am	-	-	-	133 915	60.280	30.140
3	08/20/2025	9:26 am	-	-	-	137 704	61.998	30.998
		Avg.	-	-	-	135 302	60.908	30.454
		Std.Dev.						
		% RSD.				1.54		

Spl #: 45 Sample ID : 410-236298-g-1 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 44 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	9:34 am	-	-	-	1 926	0.424	0.212
2	08/20/2025	9:40 am	-	-	-	1 939	0.430	0.215
3	08/20/2025	9:45 am	-	-	-	1 521	0.240	0.120
		Avg.	-	-	-	1 796	0.364	0.182
		Std.Dev.						
		% RSD.				13.23		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	46	**Sample ID :**	410-236298-g-4^25	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	45	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	9:54 am	-	-	-	41 303	18.281	9.140
2	08/20/2025	10:00 am	-	-	-	40 486	17.910	8.955
3	08/20/2025	10:05 am	-	-	-	41 669	18.447	9.223
		Avg.	-	-	-	41 152	18.212	9.106
		Std.Dev.						
		% RSD.				1.47		

Spl #:	47	**Sample ID :**	410-236320-a-1	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	46	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	10:14 am	-	-	-	5 448	2.021	1.011
2	08/20/2025	10:20 am	-	-	-	5 733	2.150	1.075
3	08/20/2025	10:26 am	-	-	-	5 473	2.032	1.016
		Avg.	-	-	-	5 551	2.068	1.034
		Std.Dev.						
		% RSD.				2.83		

Spl #: 48 Sample ID : 410-236320-a-2 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 47 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	10:34 am	-	-	-	4 518	1.599	0.800
2	08/20/2025	10:40 am	-	-	-	4 500	1.591	0.796
3	08/20/2025	10:45 am	-	-	-	4 553	1.615	0.808
		Avg.	-	-	-	4 524	1.602	0.801
		Std.Dev.						
		% RSD.				0.59		

Spl #: 49 Sample ID : 410-236320-a-3 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 48 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	10:54 am	-	-	-	5 273	1.941	0.971
2	08/20/2025	10:59 am	-	-	-	5 495	2.042	1.021
3	08/20/2025	11:05 am	-	-	-	5 308	1.957	0.979
		Avg.	-	-	-	5 359	1.980	0.990
		Std.Dev.						
		% RSD.				2.23		

Spl #: 50 Sample ID : 410-236683-a-1 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 49 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	11:13 am	-	-	-	37 997	16.781	8.391
2	08/20/2025	11:19 am	-	-	-	38 003	16.784	8.392
3	08/20/2025	11:25 am	-	-	-	39 378	17.408	8.704
		Avg.	-	-	-	38 459	16.991	8.496
		Std.Dev.						
		% RSD.				2.07		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	51	**Sample ID :**	410-236741-b-1	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	50	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	11:34 am	-	-	-	17 692	7.573	3.787
2	08/20/2025	11:39 am	-	-	-	19 092	8.208	4.104
3	08/20/2025	11:45 am	-	-	-	18 043	7.733	3.866
		Avg.	-	-	-	18 276	7.838	3.919
		Std.Dev.						
		% RSD.				3.99		

Spl #:	52	**Sample ID :**	CCV	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	51	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	11:54 am	-	-	-	211 296	95.371	47.686
2	08/20/2025	12:00 pm	-	-	-	209 100	94.375	47.188
3	08/20/2025	12:05 pm	-	-	-	212 496	95.915	47.958
		Avg.	-	-	-	210 964	95.220	47.611
		Std.Dev.						
		% RSD.				0.82		

Spl #: 53 Sample ID : CCB Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 52 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:13 pm	-	-	-	1 501	0.231	0.115
2	08/20/2025	12:19 pm	-	-	-	2 130	0.516	0.258
3	08/20/2025	12:25 pm	-	-	-	1 523	0.241	0.120
		Avg.	-	-	-	1 718	0.329	0.164
		Std.Dev.						
		% RSD.				20.79		

Spl #: 54 Sample ID : 410-236750-b-1 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 53 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:33 pm	-	-	-	11 384	4.713	2.356
2	08/20/2025	12:39 pm	-	-	-	11 204	4.631	2.315
3	08/20/2025	12:44 pm	-	-	-	11 570	4.797	2.399
		Avg.	-	-	-	11 386	4.714	2.357
		Std.Dev.						
		% RSD.				1.61		

Spl #: 55 Sample ID : 410-236750-b-2 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 54 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:53 pm	-	-	-	6 812	2.639	1.320
2	08/20/2025	12:58 pm	-	-	-	7 203	2.817	1.408
3	08/20/2025	1:04 pm	-	-	-	6 961	2.707	1.354
		Avg.	-	-	-	6 992	2.721	1.361
		Std.Dev.						
		% RSD.				2.83		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 56 **Sample ID :** 680-266382-g-5 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 55 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	1:12 pm	-	-	-	3 705	1.230	0.615
2	08/20/2025	1:18 pm	-	-	-	3 686	1.222	0.611
3	08/20/2025	1:23 pm	-	-	-	3 741	1.246	0.623
		Avg.	-	-	-	3 711	1.233	0.616
		Std.Dev.						
		% RSD.				0.74		

Spl #: 57 **Sample ID :** 680-266382-G-5 ms **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 56 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	1:32 pm	-	-	-	48 454	21.524	10.762
2	08/20/2025	1:37 pm	-	-	-	49 847	22.155	11.078
3	08/20/2025	1:43 pm	-	-	-	49 109	21.821	10.910
		Avg.	-	-	-	49 137	21.833	10.917
		Std.Dev.						
		% RSD.				1.42		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Method Summary

Method Details

Method Name:	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM
Date Created:	03/10/2021
Time Created:	11:46
Created By:	toc

Analysis Mode: NPOC Only

Sparging Mode:	Internal
Pre-Acid Volume (mL):	1.000
Sparge Time (mm:ss):	02:00

Volumes

Sample Volume (mL):	2.000
Acid Volume (mL):	0.500
Persulfate Volume (mL):	2.500

Other

SysPressure:	20.00

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1

Times

	React	Detect
TIC	01:30	03:00
TOC	02:00	03:00

Temp

	React	Detect
TIC	70	70
TOC	98	98

Outlier Removal Criteria

Enabled:	No
Additional Replicates:	1
Max. % RSD.	10.00

Rinses

Rinse Volume (mL):	15.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Max. Std. Dev. 100 Use Modified Oxidant: No

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Mode

Primary Mode:	TOC
User for ALL Modes:	Enabled

Calibration Pass/Fail Criteria

Parameter	Enabled	Low	High	Failure
R² (ugC/K-cts)	Yes	0.1000	0.3000	Continue
	Yes	0.950	1.000	Continue
Offset (area) (cts)	No	-	-	-
Offset (mass) (ugC)	No	-	-	-
QC Blank(cts)	No	-	-	-

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10.00	Re-run	Continue
QC #1	0.000	10.00	Re-run	Continue
QC #2	0.000	10.00	Re-run	Continue
QC #3	0.000	10.00	Re-run	Continue
QC #4	0.000	10.00	Re-run	Continue
SST	0.000	15.00	Abort	Abort

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TOC
Date Calibrated:	08/18/2025
Time Calibrated:	5:38 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.4535
R2:	0.9999
R:	1.0000
QC Blank(cts):	0
Offset (cts):	992
Offset (ugC):	-0.450
Reagent Blank (cts):	1 282
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

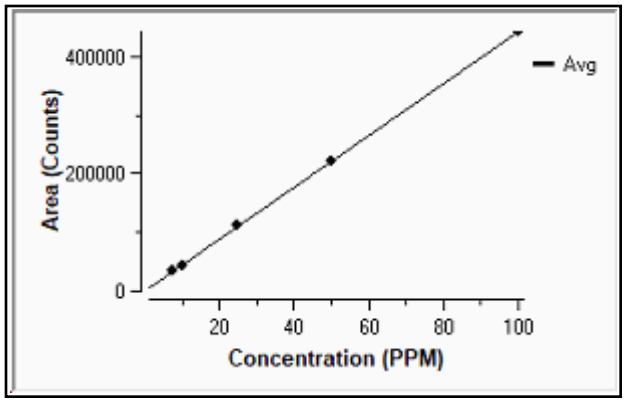
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28538-1

SDG No.:

Batch Number: 686141 Batch Start Date: 08/14/25 17:09 Batch Analyst: Bolf, Jeremy

Batch Method: 2320B-2011 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	CalcMsg	FinalAmount	WC_Alk_LCS 00025	WC_Alk_LCS 00027	WC_Alk_Std 00025	AnalysisComment
CCV 410-686141/42		2320B-2011			InitialAmount is blank			# mL		
CCB 410-686141/43		2320B-2011			InitialAmount is blank					
MB 410-686141/44		2320B-2011			InitialAmount is blank					
LCS 410-686141/45		2320B-2011			InitialAmount is blank		# mL			
LCSD 410-686141/46		2320B-2011			InitialAmount is blank		# mL			
410-237120-U-3 MS		2320B-2011		T	InitialAmount is blank	50 mL			1 mL	need CARB. & BICARB.
410-237120-S-3 DU		2320B-2011		T	InitialAmount is blank					need CARB. & BICARB.
CCV 410-686141/54		2320B-2011			InitialAmount is blank			# mL		
CCB 410-686141/55		2320B-2011			InitialAmount is blank					
620-28538-N-9	FB/250812	2320B-2011	Water	T	InitialAmount is blank					
620-28538-Y-5	MW-103ER/250812	2320B-2011	Water	T	InitialAmount is blank					
620-28538-N-8	DUP/250812	2320B-2011	Water	T	InitialAmount is blank					
620-28538-N-4	MW-100I/250812	2320B-2011	Water	T	InitialAmount is blank					
620-28538-N-6	MW-103B/250812	2320B-2011	Water	T	InitialAmount is blank					
620-28538-N-7	MW-102ER/250812	2320B-2011	Water	T	InitialAmount is blank					
CCV 410-686141/66		2320B-2011			InitialAmount is blank			# mL		
CCB 410-686141/67		2320B-2011			InitialAmount is blank					

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 Lancaster Laboratorie Job No.: 620-28538-1

SDG No.:

Batch Number: 686141 Batch Start Date: 08/14/25 17:09 Batch Analyst: Bolf, Jeremy

Batch Method: 2320B-2011 Batch End Date:

Batch Notes	
Nominal Amount Used	25 mL
pH Meter ID	19153
Acid ID	8158428
Normality of First Titrant	0.0217 N
Titrant Standardization Date	07/31/2025
pH Buffer 1 ID	7077197
pH Buffer 2 ID	7077207
pH Buffer 3 ID	7077221

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 Lancaster Laboratorie Job No.: 620-28538-1

SDG No.:

Batch Number: 688231 Batch Start Date: 08/19/25 10:35 Batch Analyst: Cornelius, Ashlynn M

Batch Method: 5310 C-2014 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	WC_TIC_QC 00067	WC_TOC_QC_STD 00075		
MRL 410-688231/1		5310 C-2014			100 mL	100 mL		0.2 mL		
CCV 410-688231/4		5310 C-2014			200 mL	200 mL	5 mL	5 mL		
LCS 410-688231/6		5310 C-2014			200 mL	200 mL	5 mL	5 mL		
620-28495-G-3 MS		5310 C-2014		T	25 mL	25 mL		0.25 mL		
CCV 410-688231/16		5310 C-2014			200 mL	200 mL	5 mL	5 mL		
CCV 410-688231/26		5310 C-2014			200 mL	200 mL	5 mL	5 mL		

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28538-1

SDG No.:

Batch Number: 688232 Batch Start Date: 08/19/25 19:19 Batch Analyst: Cornelius, Ashlynn M

Batch Method: 5310 C-2014 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Res1&2RPD	RPDOK	WC_TOC_QC_STD 00075	
MRL 410-688232/1		5310 C-2014			100 mL	100 mL	6 %	TOC Pass	0.2 mL	
CCV 410-688232/4		5310 C-2014			500 mL	500 mL	0 %	TOC Pass	50 mL	
CCB 410-688232/5		5310 C-2014					60 %	TOC Fail		
LCS 410-688232/6		5310 C-2014			500 mL	500 mL	0 %	TOC Pass	50 mL	
MB 410-688232/7		5310 C-2014					121 %	TOC Fail		
620-28495-E-3 DU		5310 C-2014		T			5 %	TOC Pass		
620-28495-E-3 MS		5310 C-2014		T	25 mL	25 mL	1 %	TOC Pass	0.5 mL	
620-28538-D-4	MW-100I/250812	5310 C-2014	Water	T			7 %	TOC Pass		
620-28538-O-5	MW-103ER/250812	5310 C-2014	Water	T			2 %	TOC Pass		
620-28538-D-7	MW-102ER/250812	5310 C-2014	Water	T			10 %	TOC Pass		
620-28538-D-8	DUP/250812	5310 C-2014	Water	T			2 %	TOC Pass		
620-28538-D-9	FB/250812	5310 C-2014	Water	T			11 %	TOC Fail		
CCV 410-688232/16		5310 C-2014			500 mL	500 mL	0 %	TOC Pass	25 mL	
CCB 410-688232/17		5310 C-2014					97 %	TOC Fail		
CCVL 410-688232/28		5310 C-2014			500 mL	500 mL	0 %	TOC Pass	5 mL	

Batch Notes	
Phosphoric Acid ID	7867358
Sodium Persulfate ID	7867359
Pipette/Syringe/Dispenser ID	TOC
Vial Lot Number	2816
Pipette Tip Lot ID	K199109P

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Subcontract Data

Shipping and Receiving Documents

Eurofins Rhode Island
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018 Fax. 413-506-3830

28538

Chain of Custody Record

Albany #224

eurofins | Environment Testing

Client Information	Sampler: KW/NH/JC	Lab PM: Scott, Krishnan F	Carrier Tracking No(s):	COC No: 620-26652-4191 3
Client Contact: Mr. Patrick Sommer Kyle Walker	Phone:	E-Mail: Krishnan Scott@et.eurofinsus com	State of Origin: NY	Page: Page 3 of 5 1 of 1
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 100 Pearl Street East Tower, Third Floor 101 Carnegie Ctr Ste 100	Due Date Requested:			
City: Hartford Princeton, NJ 08540	TAT Requested (days): Std			
State, Zip: CT, 06103	Compliance Project: Δ Yes Δ No			
Phone: jsanchez@ramboll.com	PO #: 1690000663			
Email: psommer@ramboll.com kwalker@ramboll.com	WO #:			
Project Name: ESCO Steel Treaters Project	Project #: 62002339			
Site	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
N - None
D - HNO3
AA - PhosphorAc

Other:

Samples to be shipped to Eurofins Rhode Island

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Volatile Organic Compounds (GC/MS)	2320B - Total Alkalinity	9056A_ORGFM_28D, 9056A_ORGFM_48H	8270D_SIM_MS_ID - 1,4-Dioxane	6010D - Dissolved Iron (ICP-Trace) - Lab Filter	6010D - Total Ca, Mg, Na and K (ICP-Trace)	SM5310_TC_TIC - Total Inorganic Carbon (TIC)	5310C - Total Organic Carbon	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N	N	D	N	AA		
MW-104I/250812	8/12/25	1080	G	Water			X								3	
MW-104E/250812		1250		Water			X								3	
MW-101I/250812		1135		Water			X								3	
MW-100I/250812		1215		Water			X	X	X	X	X	X	X	X	13	
MW-103ER/250812		1305		Water			X	X	X	X	X	X	X	X	13	
MW-103B/250812		1430		Water			X	X	X	X	X	X			9	
MW-102ER/250812		1445		Water			X	X	X	X	X	X	X	X	13	
DUP/250812		-		Water			X	X	X	X	X	X	X	X	13	
FB/250812		1500		Water			X	X	X	X	X	X	X	X	13	620-28538 COC
TB/250812		-	TB	Water			X								2	
				Water												

Page 13 of 13

2
3
4
5
6
7
8
9
10

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]	8-12-25 1604	Ramboll	[signature]	8-12-25 1604	EEN
2	[signature]	8-12-25 1630	EETN	Fedex		
3	Fedex			Nathan W.	8/13/25 1101	ERI

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		3.4 + 0.2 = 3.6°C #6 iced

09/09/2025

Ver: 10/10/2024

28538

ORIGIN ID:DSVA (518) 438-8140
TIM KNOLLMEYER
TESTAMERICA LAB INC
25 KRAFT AVE

ALBANY, NY 12205
UNITED STATES US

SHIP DATE: 12AUG25
ACTWGT: 54.60 LB
CAD: 0930656/CAFE3908
DIMS: 26x15x14 IN

BILL RECIPIENT

TO SAMPLE RECEIPT
EUROFINS ENV NEW ENGLAND
646 CAMP AVENUE

NORTH KINGSTOWN RI 02852
(413) 789-9016
REF: RAMBOLL ESCO STEEL TROY

FedEx Express

J25102411140luv

WED - 13 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 0201 4561 8694 5664

ED NCOA

02852
RI-US PVD

Part # 156148-434 MTW EXP 01/26

Eurofins Rhode Island
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018 Fax: 413-506-3830

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Scott, Krishnan F	Carrier Tracking No(s): N/A	COC No: 620-23460.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Krishnan.Scott@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New York		Job #: 620-28538-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 8/19/2025			Preservation Codes: -
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: ESCO Steel Treaters Project	Project #: 62002339			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	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)	SM5310_TC_TICTotal Inorganic Carbon (TIC)	5310CTotal Organic Carbon	9056A_ORGFM_48HNitrate (IC)	9056A_ORGFM_28DChloride and Sulfate (IC)	2320BTotal Alkalinity	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
MW-100I/250812 (620-28538-4)	8/12/25	12:15 Eastern	G	Water			X	X	X	X	X	6	
MW-10BER/250812 (620-28538-5)	8/12/25	13:05 Eastern	G	Water			X	X	X	X	X	6	
MW-103B/250812 (620-28538-6)	8/12/25	14:30 Eastern	G	Water					X	X	X	3	
MW-102ER/250812 (620-28538-7)	8/12/25	14:45 Eastern	G	Water			X	X	X	X	X	6	
DUP/250812 (620-28538-8)	8/12/25	Eastern	G	Water			X	X	X	X	X	6	
FB/250812 (620-28538-9)	8/12/25	15:00 Eastern	G	Water			X	X	X	X	X	6	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alan Ab	8/13/25 1652	EXI		8/13/25 2205	ET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/14/25 0115	ET			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				8/14/25 0115	ET

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: R: 4.6 C: 4.6

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 620-28538-1

Login Number: 28538
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins Rhode Island

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 620-28538-1

Login Number: 28538
List Number: 2
Creator: Hottle, Steffanie

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 08/14/25 04:21 AM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Patrick Sommer
Ramboll Americas Engineering Solutions
100 Pearl Street
East Tower, Third Floor
Hartford, Connecticut 06103

Generated 8/20/2025 9:02:26 PM

JOB DESCRIPTION

ESCO Steel Treaters Project

JOB NUMBER

620-28538-1

Eurofins Rhode Island
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

Generated
8/20/2025 9:02:26 PM

Authorized for release by
Michael Chang, Project Manager II
Michael.Chang@et.eurofinsus.com
Designee for
Krishnan Scott, Project Manager I
Krishnan.Scott@et.eurofinsus.com
(401)267-4375

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 6
Detection Summary 8
Client Sample Results 11
Surrogate Summary 33
Isotope Dilution Summary 34
QC Sample Results 35
QC Association Summary 50
Lab Chronicle 54
Certification Summary 58
Method Summary 60
Sample Summary 61
Chain of Custody 62
Receipt Checklists 65

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
*	MS or MSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Sample result is greater than the MDL but below the CRDL
U	Indicates analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J	Sample result is greater than the MDL but below the CRDL
U	Indicates analyzed for but not detected.

Glossary

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

Glossary (Continued)

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

Job Narrative
620-28538-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 8/13/2025 11:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

GC/MS VOA
Method 8260C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 620-52091 recovered outside control limits for the following analyte: Carbon tetrachloride. This analyte was biased high in the LCS and was not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-52091 recovered outside n-house control limits for the following analytes: Bromodichloromethane and Styrene. These analytes were biased high in the LCS but recovered within 70-130%. According to 8260C requirements, analytes are allowed to recover outside in-house control limits as long as recovery is within the method limit of 70-130%; therefore, the data have been reported.

Method 8260C: The large number of analytes included in the continuing calibration verification ((CCVIS 620-52091/3)) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased high): tert-Butylbenzene, Carbon tetrachloride, Styrene, 1,2,4-Trimethylbenzene, m,p-Xylene and o-Xylene.

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 620-52137 recovered outside control limits for the following analyte: Acetone.

Method 8260C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 620-52137 recovered outside control limits for the following analytes: Carbon tetrachloride. This analyte was biased high in the LCS and was not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-52137 recovered outside in-house control limits for the following analytes: Bromodichloromethane. This analyte was biased high in the LCS but recovered within 70-130%. According to 8260C requirements, analytes are allowed to recover outside in-house control limits as long as recovery is within the method limit of 70-130%; therefore, the data have been reported.

Method 8260C: The large number of analytes included in the continuing calibration verification ((CCVIS 620-52137/3)) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased high): Carbon tetrachloride. Affected analytes (biased low): Naphthalene.

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

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

HPLC/IC

Job ID: 620-28538-1 (Continued) Eurofins Rhode Island

Method 9056A_ORGFM_48H: The following sample(s) was received with less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: DUP/250812 (620-28538-8).

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

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

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

Detection Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28538-1

Client Sample ID: MW-104I/250812 — Lab Sample ID: 620-28538-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.6	J	10	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	9.3		1.0	0.36	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	2.0		1.0	0.34	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	3.9		1.0	0.19	ug/L	1		8260C	Total/NA
Trichloroethene	16		1.0	0.36	ug/L	1		8260C	Total/NA
Vinyl chloride	26		1.0	0.26	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	98		10	3.0	ug/L	10		8260C	Total/NA

Client Sample ID: MW-104E/250812 — Lab Sample ID: 620-28538-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.4		1.0	0.36	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	4.4		1.0	0.30	ug/L	1		8260C	Total/NA
Ethylbenzene	0.65	J	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	0.63	J	1.0	0.36	ug/L	1		8260C	Total/NA
Vinyl chloride	5.6		1.0	0.26	ug/L	1		8260C	Total/NA

Client Sample ID: MW-101I/250812 — Lab Sample ID: 620-28538-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.9	J	10	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.86	J	1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	22		1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.5		1.0	0.19	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	0.87	J	1.0	0.33	ug/L	1		8260C	Total/NA
Vinyl chloride	4.1		1.0	0.26	ug/L	1		8260C	Total/NA
Trichloroethene - DL	140		10	3.6	ug/L	10		8260C	Total/NA

Client Sample ID: MW-100I/250812 — Lab Sample ID: 620-28538-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.0	J	10	0.90	ug/L	1		8260C	Total/NA
Bromodichloromethane	2.9	*	0.50	0.33	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	6.7		1.0	0.36	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	4.6		1.0	0.34	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	6.5		1.0	0.19	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.9		1.0	0.36	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	2.5		1.0	0.33	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	290		10	3.0	ug/L	10		8260C	Total/NA
Trichloroethene - DL	270		10	3.6	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	91		10	2.6	ug/L	10		8260C	Total/NA
1,4-Dioxane	2.3		0.20	0.19	ug/L	1		8270D SIM ID	Total/NA
Chloride	6.10		1.50	0.60	mg/L	1		9056A	Total/NA
Sulfate	14.2		1.50	0.50	mg/L	1		9056A	Total/NA
Calcium	46.0		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	6.9		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	0.72	J	1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	41.0		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	238		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Organic Carbon	5.6		1.0	0.50	mg/L	1		5310 C-2014	Total/NA
Total Inorganic Carbon	37.7		2.0	0.60	mg/L	1		5310 C-2014	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28538-1

Client Sample ID: MW-103ER/250812 — Lab Sample ID: 620-28538-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.4	J	10	0.90	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.8		1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	0.30	J	1.0	0.19	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.79	J	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	6.5		1.0	0.36	ug/L	1		8260C	Total/NA
1,4-Dioxane	3.4		0.22	0.21	ug/L	1		8270D SIM ID	Total/NA
Chloride	4.06		1.50	0.60	mg/L	1		9056A	Total/NA
Sulfate	2.75		1.50	0.50	mg/L	1		9056A	Total/NA
Calcium	33.7		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	3.8		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	2.0		1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	7.7		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	130		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Organic Carbon	3.5		1.0	0.50	mg/L	1		5310 C-2014	Total/NA
Total Inorganic Carbon	23.4		2.0	0.60	mg/L	1		5310 C-2014	Total/NA

Client Sample ID: MW-103B/250812 — Lab Sample ID: 620-28538-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12		10	0.90	ug/L	1		8260C	Total/NA
Benzene	0.57	J	1.0	0.25	ug/L	1		8260C	Total/NA
Chloroethane	4.5		2.0	0.41	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	80		1.0	0.36	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	0.75	J	1.0	0.26	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.67	J	1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	46		1.0	0.30	ug/L	1		8260C	Total/NA
Toluene	0.32	J	1.0	0.28	ug/L	1		8260C	Total/NA
Vinyl chloride	29		1.0	0.26	ug/L	1		8260C	Total/NA
1,4-Dioxane	24		0.98	0.93	ug/L	5		8270D SIM ID	Total/NA
Chloride	18.8		7.50	3.00	mg/L	5		9056A	Total/NA
Calcium	4.5		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	8.8		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	1.9		1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	42.6		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	120		8.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: MW-102ER/250812 — Lab Sample ID: 620-28538-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3		1.0	0.25	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	10		1.0	0.30	ug/L	1		8260C	Total/NA
Toluene	0.63	J	1.0	0.28	ug/L	1		8260C	Total/NA
1,4-Dioxane	1.5		0.22	0.21	ug/L	1		8270D SIM ID	Total/NA
Chloride	2.96		1.50	0.60	mg/L	1		9056A	Total/NA
Calcium	5.6		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	5.4		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	1.2		1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	12.1		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	64.9		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Organic Carbon	2.3		1.0	0.50	mg/L	1		5310 C-2014	Total/NA
Total Inorganic Carbon	9.6		2.0	0.60	mg/L	1		5310 C-2014	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP/250812 — Lab Sample ID: 620-28538-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.0	J	10	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	6.9		1.0	0.36	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	0.42	J	1.0	0.26	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	4.8		1.0	0.34	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	6.7		1.0	0.19	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.9		1.0	0.36	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	2.4		1.0	0.33	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	300		10	3.0	ug/L	10		8260C	Total/NA
Trichloroethene - DL	270		10	3.6	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	99		10	2.6	ug/L	10		8260C	Total/NA
1,4-Dioxane	2.2		0.19	0.18	ug/L	1		8270D SIM ID	Total/NA
Chloride	6.13		1.50	0.60	mg/L	1		9056A	Total/NA
Sulfate	13.9		1.50	0.50	mg/L	1		9056A	Total/NA
Calcium	48.8		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	7.3		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	0.82	J	1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	43.3		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	234		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Organic Carbon	5.8		1.0	0.50	mg/L	1		5310 C-2014	Total/NA
Total Inorganic Carbon	34.6		2.0	0.60	mg/L	1		5310 C-2014	Total/NA

Client Sample ID: FB/250812 — Lab Sample ID: 620-28538-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.3	J	10	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: TB/250812 — Lab Sample ID: 620-28538-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.7	J	10	0.90	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28538-1

Client Sample ID: MW-104I/250812
Date Collected: 08/12/25 10:00
Date Received: 08/13/25 11:01

Lab Sample ID: 620-28538-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 20:15	1
Acetone	**5.6**	**J**	10	0.90	ug/L			08/14/25 20:15	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 20:15	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 20:15	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 20:15	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 20:15	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 20:15	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 20:15	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 20:15	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 20:15	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 20:15	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 20:15	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 20:15	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 20:15	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 20:15	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 20:15	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 20:15	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 20:15	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 20:15	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 20:15	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 20:15	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 20:15	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 20:15	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 20:15	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 20:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 20:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 20:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 20:15	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 20:15	1
1,1-Dichloroethane	**9.3**		1.0	0.36	ug/L			08/14/25 20:15	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 20:15	1
1,1-Dichloroethene	**2.0**		1.0	0.34	ug/L			08/14/25 20:15	1
trans-1,2-Dichloroethene	**3.9**		1.0	0.19	ug/L			08/14/25 20:15	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 20:15	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 20:15	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 20:15	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 20:15	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 20:15	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 20:15	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 20:15	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 20:15	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 20:15	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 20:15	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 20:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 20:15	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 20:15	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 20:15	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 20:15	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 20:15	1

Client Sample ID: MW-104I/250812
Lab Sample ID: 620-28538-1
Date Collected: 08/12/25 10:00
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 20:15	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 20:15	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 20:15	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 20:15	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 20:15	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 20:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 20:15	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 20:15	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/14/25 20:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 20:15	1
Trichloroethene	**16**		1.0	0.36	ug/L			08/14/25 20:15	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 20:15	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 20:15	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 20:15	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 20:15	1
Vinyl chloride	**26**		1.0	0.26	ug/L			08/14/25 20:15	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 20:15	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 20:15	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 20:15	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 20:15	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 20:15	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 20:15	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 20:15	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 20:15	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 20:15	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*08/14/25 20:15*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/14/25 20:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/14/25 20:15*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*08/14/25 20:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**98**		10	3.0	ug/L			08/15/25 10:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/15/25 10:01*	*10*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/15/25 10:01*	*10*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*08/15/25 10:01*	*10*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*08/15/25 10:01*	*10*

Client Sample ID: MW-104E/250812
Lab Sample ID: 620-28538-2
Date Collected: 08/12/25 12:50
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 20:38	1

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28538-1

Client Sample ID: MW-104E/250812
Date Collected: 08/12/25 12:50
Date Received: 08/13/25 11:01

Lab Sample ID: 620-28538-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.90	ug/L			08/14/25 20:38	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 20:38	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 20:38	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 20:38	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 20:38	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 20:38	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 20:38	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 20:38	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 20:38	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 20:38	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 20:38	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 20:38	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 20:38	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 20:38	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 20:38	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 20:38	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 20:38	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 20:38	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 20:38	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 20:38	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 20:38	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 20:38	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 20:38	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 20:38	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 20:38	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 20:38	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 20:38	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 20:38	1
1,1-Dichloroethane	**4.4**		1.0	0.36	ug/L			08/14/25 20:38	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 20:38	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/14/25 20:38	1
cis-1,2-Dichloroethene	**4.4**		1.0	0.30	ug/L			08/14/25 20:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/14/25 20:38	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 20:38	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 20:38	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 20:38	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 20:38	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 20:38	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 20:38	1
Ethylbenzene	**0.65**	**J**	1.0	0.36	ug/L			08/14/25 20:38	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 20:38	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 20:38	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 20:38	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 20:38	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 20:38	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 20:38	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 20:38	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 20:38	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 20:38	1

Client Sample ID: MW-104E/250812
Lab Sample ID: 620-28538-2
Date Collected: 08/12/25 12:50
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 20:38	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 20:38	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 20:38	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 20:38	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 20:38	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 20:38	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 20:38	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 20:38	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/14/25 20:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 20:38	1
Trichloroethene	**0.63**	**J**	1.0	0.36	ug/L			08/14/25 20:38	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 20:38	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 20:38	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 20:38	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 20:38	1
Vinyl chloride	**5.6**		1.0	0.26	ug/L			08/14/25 20:38	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 20:38	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 20:38	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 20:38	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 20:38	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 20:38	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 20:38	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 20:38	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 20:38	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 20:38	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/14/25 20:38*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/14/25 20:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/14/25 20:38*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*08/14/25 20:38*	*1*

Client Sample ID: MW-101I/250812
Lab Sample ID: 620-28538-3
Date Collected: 08/12/25 11:35
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 21:01	1
Acetone	**3.9**	**J**	10	0.90	ug/L			08/14/25 21:01	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 21:01	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 21:01	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:01	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 21:01	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 21:01	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 21:01	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 21:01	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 21:01	1

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28538-1

Client Sample ID: MW-101I/250812
Date Collected: 08/12/25 11:35
Date Received: 08/13/25 11:01

Lab Sample ID: 620-28538-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 21:01	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:01	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:01	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 21:01	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 21:01	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 21:01	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 21:01	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 21:01	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 21:01	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 21:01	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 21:01	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 21:01	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 21:01	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 21:01	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 21:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 21:01	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 21:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 21:01	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 21:01	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/14/25 21:01	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 21:01	1
1,1-Dichloroethene	**0.86**	**J**	1.0	0.34	ug/L			08/14/25 21:01	1
cis-1,2-Dichloroethene	**22**		1.0	0.30	ug/L			08/14/25 21:01	1
trans-1,2-Dichloroethene	**1.5**		1.0	0.19	ug/L			08/14/25 21:01	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 21:01	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 21:01	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 21:01	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 21:01	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 21:01	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 21:01	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 21:01	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 21:01	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 21:01	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 21:01	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 21:01	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:01	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 21:01	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 21:01	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 21:01	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 21:01	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 21:01	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 21:01	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 21:01	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 21:01	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 21:01	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 21:01	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 21:01	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 21:01	1
1,1,1-Trichloroethane	**0.87**	**J**	1.0	0.33	ug/L			08/14/25 21:01	1

Client Sample ID: MW-101I/250812
Lab Sample ID: 620-28538-3
Date Collected: 08/12/25 11:35
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 21:01	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 21:01	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 21:01	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 21:01	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 21:01	1
Vinyl chloride	**4.1**		1.0	0.26	ug/L			08/14/25 21:01	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 21:01	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 21:01	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 21:01	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 21:01	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:01	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 21:01	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:01	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 21:01	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 21:01	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/14/25 21:01*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/14/25 21:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*08/14/25 21:01*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/14/25 21:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**140**		10	3.6	ug/L			08/15/25 10:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/15/25 10:24*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/15/25 10:24*	*10*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*08/15/25 10:24*	*10*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/15/25 10:24*	*10*

Client Sample ID: MW-100I/250812
Lab Sample ID: 620-28538-4
Date Collected: 08/12/25 12:15
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 21:24	1
Acetone	**4.0**	**J**	10	0.90	ug/L			08/14/25 21:24	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 21:24	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 21:24	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:24	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 21:24	1
Bromodichloromethane	**2.9**	*	0.50	0.33	ug/L			08/14/25 21:24	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 21:24	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 21:24	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 21:24	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 21:24	1

Client Sample ID: MW-100I/250812
Lab Sample ID: 620-28538-4

Date Collected: 08/12/25 12:15
Matrix: Water

Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:24	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:24	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 21:24	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 21:24	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 21:24	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 21:24	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 21:24	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 21:24	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 21:24	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 21:24	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 21:24	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 21:24	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 21:24	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 21:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 21:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 21:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 21:24	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 21:24	1
1,1-Dichloroethane	**6.7**		1.0	0.36	ug/L			08/14/25 21:24	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 21:24	1
1,1-Dichloroethene	**4.6**		1.0	0.34	ug/L			08/14/25 21:24	1
trans-1,2-Dichloroethene	**6.5**		1.0	0.19	ug/L			08/14/25 21:24	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 21:24	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 21:24	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 21:24	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 21:24	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 21:24	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 21:24	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 21:24	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 21:24	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 21:24	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 21:24	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 21:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:24	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 21:24	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 21:24	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 21:24	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 21:24	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 21:24	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 21:24	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 21:24	1
Tetrachloroethene	**1.9**		1.0	0.36	ug/L			08/14/25 21:24	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 21:24	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 21:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 21:24	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 21:24	1
1,1,1-Trichloroethane	**2.5**		1.0	0.33	ug/L			08/14/25 21:24	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 21:24	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 21:24	1

Client Sample ID: MW-100I/250812
Lab Sample ID: 620-28538-4

Date Collected: 08/12/25 12:15
Matrix: Water

Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 21:24	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 21:24	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 21:24	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 21:24	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 21:24	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 21:24	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 21:24	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:24	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 21:24	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:24	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 21:24	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 21:24	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/14/25 21:24*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/14/25 21:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*08/14/25 21:24*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*08/14/25 21:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**290**		10	3.0	ug/L			08/15/25 10:47	10
Trichloroethene	**270**		10	3.6	ug/L			08/15/25 10:47	10
Vinyl chloride	**91**		10	2.6	ug/L			08/15/25 10:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/15/25 10:47*	*10*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/15/25 10:47*	*10*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*08/15/25 10:47*	*10*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/15/25 10:47*	*10*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**2.3**		0.20	0.19	ug/L		08/18/25 18:42	08/20/25 13:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*13*		*10 - 150*	*08/18/25 18:42*	*08/20/25 13:23*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.10**		1.50	0.60	mg/L			08/14/25 11:09	1
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/14/25 11:09	1
Sulfate	**14.2**		1.50	0.50	mg/L			08/14/25 11:09	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**46.0**		0.50	0.19	mg/L		08/13/25 14:35	08/14/25 14:54	1
Magnesium	**6.9**		0.040	0.038	mg/L		08/13/25 14:35	08/14/25 14:54	1
Potassium	**0.72**	**J**	1.0	0.34	mg/L		08/13/25 14:35	08/14/25 14:54	1
Sodium	**41.0**		1.5	0.28	mg/L		08/13/25 14:35	08/14/25 14:54	1

Client Sample ID: MW-100I/250812
Lab Sample ID: 620-28538-4
Date Collected: 08/12/25 12:15
Matrix: Water
Date Received: 08/13/25 11:01

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/13/25 14:35	08/14/25 15:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	238		8.0	2.6	mg/L			08/14/25 22:05	1
Total Organic Carbon (SM 5310 C-2014)	5.6		1.0	0.50	mg/L			08/19/25 22:59	1
Total Inorganic Carbon (SM 5310 C-2014)	37.7		2.0	0.60	mg/L			08/19/25 22:59	1

Client Sample ID: MW-103ER/250812
Lab Sample ID: 620-28538-5
Date Collected: 08/12/25 13:05
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 21:47	1
Acetone	6.4	J	10	0.90	ug/L			08/14/25 21:47	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 21:47	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 21:47	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:47	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 21:47	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 21:47	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 21:47	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 21:47	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 21:47	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 21:47	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:47	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 21:47	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 21:47	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 21:47	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 21:47	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 21:47	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 21:47	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 21:47	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 21:47	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 21:47	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 21:47	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 21:47	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 21:47	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 21:47	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 21:47	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 21:47	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 21:47	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 21:47	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/14/25 21:47	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 21:47	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/14/25 21:47	1
cis-1,2-Dichloroethene	3.8		1.0	0.30	ug/L			08/14/25 21:47	1
trans-1,2-Dichloroethene	0.30	J	1.0	0.19	ug/L			08/14/25 21:47	1

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28538-1

Client Sample ID: MW-103ER/250812
Date Collected: 08/12/25 13:05
Date Received: 08/13/25 11:01

Lab Sample ID: 620-28538-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 21:47	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 21:47	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 21:47	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 21:47	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 21:47	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 21:47	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 21:47	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 21:47	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 21:47	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 21:47	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 21:47	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:47	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 21:47	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 21:47	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 21:47	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 21:47	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 21:47	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 21:47	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 21:47	1
Tetrachloroethene	**0.79**	**J**	1.0	0.36	ug/L			08/14/25 21:47	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 21:47	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 21:47	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 21:47	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 21:47	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/14/25 21:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 21:47	1
Trichloroethene	**6.5**		1.0	0.36	ug/L			08/14/25 21:47	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 21:47	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 21:47	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 21:47	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 21:47	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/14/25 21:47	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 21:47	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 21:47	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 21:47	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 21:47	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:47	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 21:47	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 21:47	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 21:47	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 21:47	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/14/25 21:47*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/14/25 21:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*08/14/25 21:47*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*08/14/25 21:47*	*1*

Client Sample ID: MW-103ER/250812
Lab Sample ID: 620-28538-5
Date Collected: 08/12/25 13:05
Matrix: Water
Date Received: 08/13/25 11:01

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.4		0.22	0.21	ug/L		08/18/25 18:42	08/20/25 13:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*14*		*10 - 150*	*08/18/25 18:42*	*08/20/25 13:41*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.06		1.50	0.60	mg/L			08/14/25 11:26	1
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/14/25 11:26	1
Sulfate	2.75		1.50	0.50	mg/L			08/14/25 11:26	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	33.7		0.50	0.19	mg/L		08/13/25 14:35	08/14/25 14:59	1
Magnesium	3.8		0.040	0.038	mg/L		08/13/25 14:35	08/14/25 14:59	1
Potassium	2.0		1.0	0.34	mg/L		08/13/25 14:35	08/14/25 14:59	1
Sodium	7.7		1.5	0.28	mg/L		08/13/25 14:35	08/14/25 14:59	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/13/25 14:35	08/14/25 15:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	130		8.0	2.6	mg/L			08/14/25 21:53	1
Total Organic Carbon (SM 5310 C-2014)	3.5		1.0	0.50	mg/L			08/19/25 23:18	1
Total Inorganic Carbon (SM 5310 C-2014)	23.4		2.0	0.60	mg/L			08/19/25 23:18	1

Client Sample ID: MW-103B/250812
Lab Sample ID: 620-28538-6
Date Collected: 08/12/25 14:30
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 22:10	1
Acetone	12		10	0.90	ug/L			08/14/25 22:10	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 22:10	1
Benzene	0.57	J	1.0	0.25	ug/L			08/14/25 22:10	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:10	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 22:10	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 22:10	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 22:10	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 22:10	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 22:10	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 22:10	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:10	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:10	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 22:10	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 22:10	1

Client Sample ID: MW-103B/250812
Lab Sample ID: 620-28538-6

Date Collected: 08/12/25 14:30
Matrix: Water

Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 22:10	1
Chloroethane	**4.5**		2.0	0.41	ug/L			08/14/25 22:10	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 22:10	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 22:10	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 22:10	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 22:10	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 22:10	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 22:10	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 22:10	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 22:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 22:10	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 22:10	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 22:10	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 22:10	1
1,1-Dichloroethane	**80**		1.0	0.36	ug/L			08/14/25 22:10	1
1,2-Dichloroethane	**0.75**	**J**	1.0	0.26	ug/L			08/14/25 22:10	1
1,1-Dichloroethene	**0.67**	**J**	1.0	0.34	ug/L			08/14/25 22:10	1
cis-1,2-Dichloroethene	**46**		1.0	0.30	ug/L			08/14/25 22:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/14/25 22:10	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 22:10	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 22:10	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 22:10	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 22:10	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 22:10	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 22:10	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 22:10	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 22:10	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 22:10	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 22:10	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 22:10	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:10	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 22:10	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 22:10	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 22:10	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 22:10	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 22:10	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 22:10	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 22:10	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 22:10	1
Toluene	**0.32**	**J**	1.0	0.28	ug/L			08/14/25 22:10	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 22:10	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 22:10	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 22:10	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/14/25 22:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 22:10	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 22:10	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 22:10	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 22:10	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 22:10	1

Client Sample ID: MW-103B/250812
Lab Sample ID: 620-28538-6

Date Collected: 08/12/25 14:30
Matrix: Water

Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 22:10	1
Vinyl chloride	**29**		1.0	0.26	ug/L			08/14/25 22:10	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 22:10	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 22:10	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 22:10	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 22:10	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:10	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 22:10	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:10	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 22:10	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 22:10	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/14/25 22:10*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/14/25 22:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/14/25 22:10*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*08/14/25 22:10*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**24**		0.98	0.93	ug/L		08/18/25 18:42	08/20/25 15:44	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*14*		*10 - 150*	*08/18/25 18:42*	*08/20/25 15:44*	*5*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.8**		7.50	3.00	mg/L			08/15/25 16:55	5
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/14/25 11:34	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/14/25 11:34	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**4.5**		0.50	0.19	mg/L		08/13/25 14:35	08/14/25 15:05	1
Magnesium	**8.8**		0.040	0.038	mg/L		08/13/25 14:35	08/14/25 15:05	1
Potassium	**1.9**		1.0	0.34	mg/L		08/13/25 14:35	08/14/25 15:05	1
Sodium	**42.6**		1.5	0.28	mg/L		08/13/25 14:35	08/14/25 15:05	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/13/25 14:35	08/14/25 15:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	**120**		8.0	2.6	mg/L			08/14/25 22:12	1

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28538-1

Client Sample ID: MW-102ER/250812

Date Collected: 08/12/25 14:45
Date Received: 08/13/25 11:01

Lab Sample ID: 620-28538-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 22:33	1
Acetone	10	U	10	0.90	ug/L			08/14/25 22:33	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 22:33	1
Benzene	**1.3**		1.0	0.25	ug/L			08/14/25 22:33	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:33	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 22:33	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 22:33	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 22:33	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 22:33	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 22:33	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 22:33	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:33	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:33	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 22:33	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 22:33	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 22:33	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 22:33	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 22:33	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 22:33	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 22:33	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 22:33	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 22:33	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 22:33	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 22:33	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 22:33	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 22:33	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 22:33	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 22:33	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 22:33	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/14/25 22:33	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 22:33	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/14/25 22:33	1
cis-1,2-Dichloroethene	**10**		1.0	0.30	ug/L			08/14/25 22:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/14/25 22:33	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 22:33	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 22:33	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 22:33	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 22:33	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 22:33	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 22:33	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 22:33	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 22:33	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 22:33	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 22:33	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 22:33	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:33	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 22:33	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 22:33	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 22:33	1

Client Sample ID: MW-102ER/250812
Lab Sample ID: 620-28538-7
Date Collected: 08/12/25 14:45
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 22:33	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 22:33	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 22:33	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 22:33	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 22:33	1
Toluene	**0.63**	**J**	1.0	0.28	ug/L			08/14/25 22:33	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 22:33	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 22:33	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 22:33	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/14/25 22:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 22:33	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 22:33	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 22:33	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 22:33	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 22:33	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 22:33	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/14/25 22:33	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 22:33	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 22:33	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 22:33	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 22:33	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:33	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 22:33	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:33	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 22:33	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 22:33	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/14/25 22:33*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/14/25 22:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*08/14/25 22:33*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*08/14/25 22:33*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.5**		0.22	0.21	ug/L		08/18/25 18:42	08/20/25 14:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*11*		*10 - 150*	*08/18/25 18:42*	*08/20/25 14:16*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.96**		1.50	0.60	mg/L			08/14/25 11:42	1
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/14/25 11:42	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/14/25 11:42	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**5.6**		0.50	0.19	mg/L		08/13/25 14:35	08/14/25 15:11	1
Magnesium	**5.4**		0.040	0.038	mg/L		08/13/25 14:35	08/14/25 15:11	1

Client Sample ID: MW-102ER/250812
Lab Sample ID: 620-28538-7
Date Collected: 08/12/25 14:45
Matrix: Water
Date Received: 08/13/25 11:01

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1.2		1.0	0.34	mg/L		08/13/25 14:35	08/14/25 15:11	1
Sodium	12.1		1.5	0.28	mg/L		08/13/25 14:35	08/14/25 15:11	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/13/25 14:35	08/14/25 16:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	64.9		8.0	2.6	mg/L			08/14/25 22:18	1
Total Organic Carbon (SM 5310 C-2014)	2.3		1.0	0.50	mg/L			08/19/25 23:38	1
Total Inorganic Carbon (SM 5310 C-2014)	9.6		2.0	0.60	mg/L			08/19/25 23:38	1

Client Sample ID: DUP/250812
Lab Sample ID: 620-28538-8
Date Collected: 08/12/25 00:00
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 22:56	1
Acetone	8.0	J	10	0.90	ug/L			08/14/25 22:56	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 22:56	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 22:56	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:56	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 22:56	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 22:56	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 22:56	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 22:56	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 22:56	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 22:56	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:56	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 22:56	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 22:56	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 22:56	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 22:56	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 22:56	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 22:56	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 22:56	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 22:56	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 22:56	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 22:56	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 22:56	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 22:56	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 22:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 22:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 22:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 22:56	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 22:56	1

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28538-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: DUP/250812
Lab Sample ID: 620-28538-8

Date Collected: 08/12/25 00:00
Matrix: Water

Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**6.9**		1.0	0.36	ug/L			08/14/25 22:56	1
1,2-Dichloroethane	**0.42**	**J**	1.0	0.26	ug/L			08/14/25 22:56	1
1,1-Dichloroethene	**4.8**		1.0	0.34	ug/L			08/14/25 22:56	1
trans-1,2-Dichloroethene	**6.7**		1.0	0.19	ug/L			08/14/25 22:56	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 22:56	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 22:56	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 22:56	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 22:56	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 22:56	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 22:56	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 22:56	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 22:56	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 22:56	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 22:56	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 22:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:56	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 22:56	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 22:56	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 22:56	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 22:56	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 22:56	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 22:56	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 22:56	1
Tetrachloroethene	**1.9**		1.0	0.36	ug/L			08/14/25 22:56	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 22:56	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 22:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 22:56	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 22:56	1
1,1,1-Trichloroethane	**2.4**		1.0	0.33	ug/L			08/14/25 22:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 22:56	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 22:56	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 22:56	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 22:56	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 22:56	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 22:56	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 22:56	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 22:56	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 22:56	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:56	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 22:56	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 22:56	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 22:56	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 22:56	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/14/25 22:56*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/14/25 22:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/14/25 22:56*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*08/14/25 22:56*	*1*

Client Sample ID: DUP/250812
Lab Sample ID: 620-28538-8
Date Collected: 08/12/25 00:00
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	300		10	3.0	ug/L			08/15/25 11:10	10
Trichloroethene	270		10	3.6	ug/L			08/15/25 11:10	10
Vinyl chloride	99		10	2.6	ug/L			08/15/25 11:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/15/25 11:10*	*10*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/15/25 11:10*	*10*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*08/15/25 11:10*	*10*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/15/25 11:10*	*10*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.2		0.19	0.18	ug/L		08/18/25 18:42	08/20/25 14:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*11*		*10 - 150*	*08/18/25 18:42*	*08/20/25 14:34*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.13		1.50	0.60	mg/L			08/14/25 10:53	1
Nitrate as N	0.11	U H	0.11	0.050	mg/L			08/14/25 10:53	1
Sulfate	13.9		1.50	0.50	mg/L			08/14/25 10:53	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	48.8		0.50	0.19	mg/L		08/13/25 14:35	08/14/25 15:17	1
Magnesium	7.3		0.040	0.038	mg/L		08/13/25 14:35	08/14/25 15:17	1
Potassium	0.82	J	1.0	0.34	mg/L		08/13/25 14:35	08/14/25 15:17	1
Sodium	43.3		1.5	0.28	mg/L		08/13/25 14:35	08/14/25 15:17	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U H	0.10	0.056	mg/L		08/13/25 14:35	08/14/25 16:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	234		8.0	2.6	mg/L			08/14/25 21:59	1
Total Organic Carbon (SM 5310 C-2014)	5.8		1.0	0.50	mg/L			08/19/25 23:58	1
Total Inorganic Carbon (SM 5310 C-2014)	34.6		2.0	0.60	mg/L			08/19/25 23:58	1

Client Sample ID: FB/250812
Lab Sample ID: 620-28538-9
Date Collected: 08/12/25 15:00
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 23:19	1
Acetone	5.3	J	10	0.90	ug/L			08/14/25 23:19	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 23:19	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 23:19	1

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28538-1

Client Sample ID: FB/250812
Date Collected: 08/12/25 15:00
Date Received: 08/13/25 11:01

Lab Sample ID: 620-28538-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 23:19	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 23:19	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 23:19	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 23:19	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 23:19	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 23:19	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 23:19	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 23:19	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 23:19	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 23:19	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 23:19	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 23:19	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 23:19	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 23:19	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 23:19	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 23:19	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 23:19	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 23:19	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 23:19	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 23:19	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 23:19	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 23:19	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 23:19	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 23:19	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 23:19	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/14/25 23:19	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 23:19	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/14/25 23:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/14/25 23:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/14/25 23:19	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 23:19	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 23:19	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 23:19	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 23:19	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 23:19	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 23:19	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 23:19	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 23:19	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 23:19	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 23:19	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 23:19	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 23:19	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 23:19	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 23:19	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 23:19	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 23:19	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 23:19	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 23:19	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 23:19	1

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28538-1

Client Sample ID: FB/250812

Date Collected: 08/12/25 15:00
Date Received: 08/13/25 11:01

Lab Sample ID: 620-28538-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 23:19	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 23:19	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 23:19	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 23:19	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 23:19	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/14/25 23:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 23:19	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 23:19	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 23:19	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 23:19	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 23:19	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 23:19	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/14/25 23:19	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 23:19	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 23:19	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 23:19	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 23:19	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 23:19	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 23:19	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 23:19	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 23:19	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 23:19	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/14/25 23:19*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/14/25 23:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/14/25 23:19*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*08/14/25 23:19*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.19	ug/L		08/18/25 18:42	08/20/25 14:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*12*		*10 - 150*	*08/18/25 18:42*	*08/20/25 14:52*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.50	U	1.50	0.60	mg/L			08/14/25 12:22	1
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/14/25 12:22	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/14/25 12:22	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.50	U	0.50	0.19	mg/L		08/13/25 14:35	08/14/25 15:23	1
Magnesium	0.040	U	0.040	0.038	mg/L		08/13/25 14:35	08/14/25 15:23	1
Potassium	1.0	U	1.0	0.34	mg/L		08/13/25 14:35	08/14/25 15:23	1
Sodium	1.5	U	1.5	0.28	mg/L		08/13/25 14:35	08/14/25 15:23	1

Client Sample ID: FB/250812
Lab Sample ID: 620-28538-9
Date Collected: 08/12/25 15:00
Matrix: Water
Date Received: 08/13/25 11:01

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/13/25 14:35	08/14/25 16:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	8.0	U	8.0	2.6	mg/L			08/14/25 21:21	1
Total Organic Carbon (SM 5310 C-2014)	1.0	U	1.0	0.50	mg/L			08/20/25 00:18	1
Total Inorganic Carbon (SM 5310 C-2014)	2.0	U	2.0	0.60	mg/L			08/20/25 00:18	1

Client Sample ID: TB/250812
Lab Sample ID: 620-28538-10
Date Collected: 08/12/25 00:00
Matrix: Water
Date Received: 08/13/25 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 19:52	1
Acetone	**4.7**	**J**	10	0.90	ug/L			08/14/25 19:52	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 19:52	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 19:52	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 19:52	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 19:52	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/14/25 19:52	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 19:52	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 19:52	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 19:52	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 19:52	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 19:52	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 19:52	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 19:52	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/14/25 19:52	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 19:52	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 19:52	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 19:52	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 19:52	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 19:52	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 19:52	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 19:52	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 19:52	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 19:52	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 19:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 19:52	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 19:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 19:52	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 19:52	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/14/25 19:52	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 19:52	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/14/25 19:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/14/25 19:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/14/25 19:52	1

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28538-1

Client Sample ID: TB/250812
Date Collected: 08/12/25 00:00
Date Received: 08/13/25 11:01

Lab Sample ID: 620-28538-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 19:52	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 19:52	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 19:52	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 19:52	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 19:52	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 19:52	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 19:52	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 19:52	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 19:52	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 19:52	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 19:52	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 19:52	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 19:52	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 19:52	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 19:52	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 19:52	1
Styrene	1.0	U *	1.0	0.42	ug/L			08/14/25 19:52	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 19:52	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 19:52	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 19:52	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 19:52	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 19:52	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 19:52	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 19:52	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/14/25 19:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 19:52	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 19:52	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 19:52	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 19:52	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 19:52	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 19:52	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/14/25 19:52	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 19:52	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 19:52	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 19:52	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 19:52	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 19:52	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 19:52	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 19:52	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 19:52	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 19:52	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/14/25 19:52*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/14/25 19:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/14/25 19:52*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*08/14/25 19:52*	*1*

Surrogate Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28538-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-28538-1	MW-104I/250812	101	100	110	106
620-28538-1 - DL	MW-104I/250812	99	100	112	110
620-28538-2	MW-104E/250812	100	99	110	107
620-28538-3	MW-101I/250812	98	100	112	109
620-28538-3 - DL	MW-101I/250812	97	101	111	109
620-28538-4	MW-100I/250812	100	100	111	107
620-28538-4 - DL	MW-100I/250812	99	100	112	111
620-28538-5	MW-103ER/250812	99	98	111	108
620-28538-6	MW-103B/250812	100	98	110	107
620-28538-7	MW-102ER/250812	98	98	109	108
620-28538-8	DUP/250812	99	98	110	108
620-28538-8 - DL	DUP/250812	99	99	111	109
620-28538-9	FB/250812	99	98	110	108
620-28538-10	TB/250812	100	100	110	108
LCS 620-52091/4	Lab Control Sample	104	101	103	103
LCS 620-52137/4	Lab Control Sample	102	102	105	106
LCSD 620-52091/5	Lab Control Sample Dup	102	101	102	104
LCSD 620-52137/5	Lab Control Sample Dup	103	101	104	105
MB 620-52091/7	Method Blank	96	95	106	104
MB 620-52137/6	Method Blank	99	98	106	106

Surrogate Legend

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

Isotope Dilution Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28538-1
Project/Site: ESCO Steel Treaters Project

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

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

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DXE (10-150)						
620-28538-4	MW-100I/250812	13						
620-28538-5	MW-103ER/250812	14						
620-28538-6	MW-103B/250812	14						
620-28538-7	MW-102ER/250812	11						
620-28538-8	DUP/250812	11						
620-28538-9	FB/250812	12						
LCS 620-52299/2-A	Lab Control Sample	12						
LCSD 620-52299/3-A	Lab Control Sample Dup	12						
MB 620-52299/1-A	Method Blank	14						

Surrogate Legend

DXE = 1,4-Dioxane-d8

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

Lab Sample ID: MB 620-52091/7
Matrix: Water
Analysis Batch: 52091

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/14/25 19:29	1
Acetone	10	U	10	0.90	ug/L			08/14/25 19:29	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/14/25 19:29	1
Benzene	1.0	U	1.0	0.25	ug/L			08/14/25 19:29	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/14/25 19:29	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/14/25 19:29	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 19:29	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/14/25 19:29	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/14/25 19:29	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/14/25 19:29	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 19:29	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 19:29	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/14/25 19:29	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/14/25 19:29	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/14/25 19:29	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/14/25 19:29	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/14/25 19:29	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/14/25 19:29	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/14/25 19:29	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/14/25 19:29	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/14/25 19:29	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/14/25 19:29	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/14/25 19:29	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/14/25 19:29	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/14/25 19:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/14/25 19:29	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/14/25 19:29	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/14/25 19:29	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/14/25 19:29	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/14/25 19:29	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/14/25 19:29	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/14/25 19:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/14/25 19:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/14/25 19:29	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/14/25 19:29	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/14/25 19:29	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/14/25 19:29	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/14/25 19:29	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/14/25 19:29	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/14/25 19:29	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 19:29	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/14/25 19:29	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/14/25 19:29	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/14/25 19:29	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/14/25 19:29	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 19:29	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/14/25 19:29	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/14/25 19:29	1

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

Lab Sample ID: MB 620-52091/7
Matrix: Water
Analysis Batch: 52091

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	2.0	U	2.0	0.70	ug/L			08/14/25 19:29	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/14/25 19:29	1
Styrene	1.0	U	1.0	0.42	ug/L			08/14/25 19:29	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/14/25 19:29	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/14/25 19:29	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 19:29	1
Toluene	1.0	U	1.0	0.28	ug/L			08/14/25 19:29	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/14/25 19:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/14/25 19:29	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/14/25 19:29	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/14/25 19:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/14/25 19:29	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/14/25 19:29	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/14/25 19:29	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/14/25 19:29	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/14/25 19:29	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/14/25 19:29	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/14/25 19:29	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/14/25 19:29	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/14/25 19:29	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/14/25 19:29	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/14/25 19:29	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 19:29	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/14/25 19:29	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/14/25 19:29	1
tert-Butanol	10	U	10	8.5	ug/L			08/14/25 19:29	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/14/25 19:29	1
Ethanol	200	U	200	9.1	ug/L			08/14/25 19:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*08/14/25 19:29*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*08/14/25 19:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*08/14/25 19:29*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*08/14/25 19:29*	*1*

Lab Sample ID: LCS 620-52091/4
Matrix: Water
Analysis Batch: 52091

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-Trichlorotrifluoroethane (Freon 113)	20.0	21.4		ug/L		107	72 - 120
Acetone	20.0	22.0		ug/L		110	19 - 144
Acrylonitrile	20.0	22.5		ug/L		113	67 - 141
Benzene	20.0	20.3		ug/L		102	82 - 120
Bromobenzene	20.0	21.9		ug/L		110	80 - 115
Bromochloromethane	20.0	21.8		ug/L		109	84 - 119
Bromodichloromethane	20.0	24.0	*	ug/L		120	77 - 118
Bromoform	20.0	22.5		ug/L		112	68 - 130

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

Lab Sample ID: LCS 620-52091/4
Matrix: Water
Analysis Batch: 52091

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	18.0		ug/L		90	27 - 151
2-Butanone (MEK)	20.0	20.8		ug/L		104	32 - 126
n-Butylbenzene	20.0	24.4		ug/L		122	81 - 129
sec-Butylbenzene	20.0	23.8		ug/L		119	81 - 124
tert-Butylbenzene	20.0	24.1		ug/L		121	80 - 128
Carbon disulfide	20.0	21.4		ug/L		107	67 - 136
Carbon tetrachloride	20.0	30.1	*	ug/L		150	70 - 129
Chlorobenzene	20.0	20.6		ug/L		103	82 - 112
Chloroethane	20.0	18.6		ug/L		93	47 - 142
Chloroform	20.0	21.4		ug/L		107	77 - 126
Chloromethane	20.0	14.6		ug/L		73	26 - 159
2-Chlorotoluene	20.0	22.7		ug/L		114	82 - 122
4-Chlorotoluene	20.0	22.7		ug/L		114	79 - 123
1,2-Dibromo-3-Chloropropane	20.0	22.0		ug/L		110	64 - 117
Dibromochloromethane	20.0	20.5		ug/L		102	71 - 126
1,2-Dibromoethane (EDB)	20.0	22.7		ug/L		113	83 - 122
Dibromomethane	20.0	22.2		ug/L		111	83 - 117
1,2-Dichlorobenzene	20.0	21.7		ug/L		109	87 - 118
1,3-Dichlorobenzene	20.0	22.0		ug/L		110	83 - 122
1,4-Dichlorobenzene	20.0	20.7		ug/L		104	81 - 115
Dichlorodifluoromethane (Freon 12)	20.0	18.2		ug/L		91	21 - 147
1,1-Dichloroethane	20.0	20.6		ug/L		103	84 - 122
1,2-Dichloroethane	20.0	21.1		ug/L		105	69 - 121
1,1-Dichloroethene	20.0	21.1		ug/L		106	83 - 123
cis-1,2-Dichloroethene	20.0	21.9		ug/L		110	85 - 122
trans-1,2-Dichloroethene	20.0	20.5		ug/L		102	84 - 123
1,2-Dichloropropane	20.0	20.9		ug/L		105	80 - 124
1,3-Dichloropropane	20.0	21.8		ug/L		109	80 - 118
2,2-Dichloropropane	20.0	23.1		ug/L		115	74 - 125
1,1-Dichloropropene	20.0	21.7		ug/L		109	76 - 120
cis-1,3-Dichloropropene	20.0	21.7		ug/L		109	76 - 125
trans-1,3-Dichloropropene	20.0	21.9		ug/L		109	77 - 132
Ethylbenzene	20.0	23.3		ug/L		116	85 - 116
Hexachlorobutadiene	20.0	21.7		ug/L		108	70 - 127
2-Hexanone (MBK)	20.0	20.4		ug/L		102	40 - 130
Isopropylbenzene	20.0	22.0		ug/L		110	78 - 122
4-Isopropyltoluene	20.0	23.8		ug/L		119	80 - 121
Methyl tert-butyl ether	20.0	20.7		ug/L		104	72 - 126
4-Methyl-2-pentanone (MIBK)	20.0	20.7		ug/L		104	59 - 130
Methylene Chloride	20.0	20.5		ug/L		103	77 - 124
Naphthalene	20.0	19.6		ug/L		98	57 - 133
N-Propylbenzene	20.0	21.6		ug/L		108	86 - 124
Styrene	20.0	24.3	*	ug/L		122	80 - 121
1,1,1,2-Tetrachloroethane	20.0	21.7		ug/L		109	81 - 113
1,1,2,2-Tetrachloroethane	20.0	21.9		ug/L		109	74 - 115
Tetrachloroethene	20.0	21.8		ug/L		109	78 - 124
Toluene	20.0	21.3		ug/L		106	83 - 114
1,2,3-Trichlorobenzene	20.0	22.3		ug/L		112	73 - 128

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

Lab Sample ID: LCS 620-52091/4
Matrix: Water
Analysis Batch: 52091

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	20.0	22.9		ug/L		114	74 - 128
1,3,5-Trichlorobenzene	20.0	22.1		ug/L		111	81 - 124
1,1,1-Trichloroethane	20.0	23.3		ug/L		117	76 - 124
1,1,2-Trichloroethane	20.0	21.7		ug/L		108	83 - 120
Trichloroethene	20.0	21.2		ug/L		106	79 - 113
Trichlorofluoromethane (Freon 11)	20.0	21.2		ug/L		106	68 - 130
1,2,3-Trichloropropane	20.0	22.1		ug/L		111	74 - 116
1,2,4-Trimethylbenzene	20.0	24.0		ug/L		120	83 - 121
1,3,5-Trimethylbenzene	20.0	23.9		ug/L		120	82 - 125
Vinyl chloride	20.0	20.2		ug/L		101	49 - 145
m,p-Xylene	20.0	24.7		ug/L		123	82 - 128
o-Xylene	20.0	24.2		ug/L		121	83 - 122
Tetrahydrofuran	20.0	21.6		ug/L		108	59 - 134
Ethyl ether	20.0	20.6		ug/L		103	74 - 119
Tert-amyl methyl ether	20.0	20.4		ug/L		102	70 - 122
Ethyl tert-butyl ether	20.0	21.5		ug/L		108	72 - 122
di-Isopropyl ether	20.0	21.1		ug/L		106	66 - 130
tert-Butanol	200	255		ug/L		127	60 - 146
trans-1,4-Dichloro-2-butene	20.0	21.2		ug/L		106	57 - 146
Ethanol	400	595		ug/L		149	53 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 620-52091/5
Matrix: Water
Analysis Batch: 52091

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
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	21.2		ug/L		106	72 - 120	1	20
Acetone	20.0	20.0		ug/L		100	19 - 144	10	20
Acrylonitrile	20.0	23.4		ug/L		117	67 - 141	4	20
Benzene	20.0	20.0		ug/L		100	82 - 120	2	20
Bromobenzene	20.0	21.8		ug/L		109	80 - 115	1	20
Bromochloromethane	20.0	21.8		ug/L		109	84 - 119	0	20
Bromodichloromethane	20.0	23.5		ug/L		118	77 - 118	2	20
Bromoform	20.0	22.1		ug/L		110	68 - 130	2	20
Bromomethane	20.0	18.1		ug/L		91	27 - 151	1	20
2-Butanone (MEK)	20.0	20.4		ug/L		102	32 - 126	2	20
n-Butylbenzene	20.0	24.2		ug/L		121	81 - 129	1	20
sec-Butylbenzene	20.0	23.5		ug/L		118	81 - 124	1	20
tert-Butylbenzene	20.0	23.6		ug/L		118	80 - 128	2	20
Carbon disulfide	20.0	20.7		ug/L		104	67 - 136	3	20
Carbon tetrachloride	20.0	30.1	*	ug/L		150	70 - 129	0	20

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

Lab Sample ID: LCSD 620-52091/5
Matrix: Water
Analysis Batch: 52091

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
Chlorobenzene			20.0	20.6		ug/L		103	82 - 112	0	20
Chloroethane			20.0	18.7		ug/L		93	47 - 142	1	20
Chloroform			20.0	21.2		ug/L		106	77 - 126	1	20
Chloromethane			20.0	14.5		ug/L		73	26 - 159	1	20
2-Chlorotoluene			20.0	22.3		ug/L		111	82 - 122	2	20
4-Chlorotoluene			20.0	22.1		ug/L		110	79 - 123	3	20
1,2-Dibromo-3-Chloropropane			20.0	22.2		ug/L		111	64 - 117	1	20
Dibromochloromethane			20.0	20.5		ug/L		102	71 - 126	0	20
1,2-Dibromoethane (EDB)			20.0	22.9		ug/L		114	83 - 122	1	20
Dibromomethane			20.0	22.1		ug/L		110	83 - 117	0	20
1,2-Dichlorobenzene			20.0	21.5		ug/L		107	87 - 118	1	20
1,3-Dichlorobenzene			20.0	21.6		ug/L		108	83 - 122	2	20
1,4-Dichlorobenzene			20.0	20.3		ug/L		101	81 - 115	2	20
Dichlorodifluoromethane (Freon 12)			20.0	18.1		ug/L		91	21 - 147	0	20
1,1-Dichloroethane			20.0	20.5		ug/L		103	84 - 122	0	20
1,2-Dichloroethane			20.0	21.0		ug/L		105	69 - 121	0	20
1,1-Dichloroethene			20.0	21.1		ug/L		106	83 - 123	0	20
cis-1,2-Dichloroethene			20.0	21.4		ug/L		107	85 - 122	2	20
trans-1,2-Dichloroethene			20.0	20.7		ug/L		103	84 - 123	1	20
1,2-Dichloropropane			20.0	20.6		ug/L		103	80 - 124	1	20
1,3-Dichloropropane			20.0	21.7		ug/L		108	80 - 118	1	20
2,2-Dichloropropane			20.0	22.8		ug/L		114	74 - 125	1	20
1,1-Dichloropropene			20.0	21.7		ug/L		108	76 - 120	0	20
cis-1,3-Dichloropropene			20.0	21.9		ug/L		110	76 - 125	1	20
trans-1,3-Dichloropropene			20.0	22.2		ug/L		111	77 - 132	2	20
Ethylbenzene			20.0	23.3		ug/L		116	85 - 116	0	20
Hexachlorobutadiene			20.0	21.6		ug/L		108	70 - 127	0	20
2-Hexanone (MBK)			20.0	18.5		ug/L		92	40 - 130	10	20
Isopropylbenzene			20.0	21.2		ug/L		106	78 - 122	4	20
4-Isopropyltoluene			20.0	23.2		ug/L		116	80 - 121	2	20
Methyl tert-butyl ether			20.0	21.4		ug/L		107	72 - 126	3	20
4-Methyl-2-pentanone (MIBK)			20.0	20.7		ug/L		103	59 - 130	0	20
Methylene Chloride			20.0	20.1		ug/L		101	77 - 124	2	20
Naphthalene			20.0	19.5		ug/L		98	57 - 133	1	20
N-Propylbenzene			20.0	21.2		ug/L		106	86 - 124	2	20
Styrene			20.0	24.1		ug/L		121	80 - 121	1	20
1,1,1,2-Tetrachloroethane			20.0	21.7		ug/L		109	81 - 113	0	20
1,1,2,2-Tetrachloroethane			20.0	22.3		ug/L		112	74 - 115	2	20
Tetrachloroethene			20.0	21.6		ug/L		108	78 - 124	1	20
Toluene			20.0	20.9		ug/L		104	83 - 114	2	20
1,2,3-Trichlorobenzene			20.0	22.3		ug/L		112	73 - 128	0	20
1,2,4-Trichlorobenzene			20.0	23.0		ug/L		115	74 - 128	0	20
1,3,5-Trichlorobenzene			20.0	22.1		ug/L		110	81 - 124	0	20
1,1,1-Trichloroethane			20.0	23.5		ug/L		118	76 - 124	1	20
1,1,2-Trichloroethane			20.0	22.1		ug/L		110	83 - 120	2	20
Trichloroethene			20.0	21.5		ug/L		107	79 - 113	1	20
Trichlorofluoromethane (Freon 11)			20.0	20.6		ug/L		103	68 - 130	3	20

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

Lab Sample ID: LCSD 620-52091/5
Matrix: Water
Analysis Batch: 52091

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
1,2,3-Trichloropropane			20.0	22.0		ug/L		110	74 - 116	1	20
1,2,4-Trimethylbenzene			20.0	23.8		ug/L		119	83 - 121	1	20
1,3,5-Trimethylbenzene			20.0	23.8		ug/L		119	82 - 125	0	20
Vinyl chloride			20.0	19.2		ug/L		96	49 - 145	5	20
m,p-Xylene			20.0	24.4		ug/L		122	82 - 128	1	20
o-Xylene			20.0	23.8		ug/L		119	83 - 122	2	20
Tetrahydrofuran			20.0	21.7		ug/L		109	59 - 134	1	20
Ethyl ether			20.0	20.7		ug/L		104	74 - 119	1	20
Tert-amyl methyl ether			20.0	20.5		ug/L		102	70 - 122	1	20
Ethyl tert-butyl ether			20.0	21.7		ug/L		108	72 - 122	1	20
di-Isopropyl ether			20.0	20.8		ug/L		104	66 - 130	2	20
tert-Butanol			200	252		ug/L		126	60 - 146	1	20
trans-1,4-Dichloro-2-butene			20.0	20.7		ug/L		103	57 - 146	3	20
Ethanol			400	523		ug/L		131	53 - 150	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 620-52137/6
Matrix: Water
Analysis Batch: 52137

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/15/25 08:52	1
Acetone	10	U	10	0.90	ug/L			08/15/25 08:52	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/15/25 08:52	1
Benzene	1.0	U	1.0	0.25	ug/L			08/15/25 08:52	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/15/25 08:52	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/15/25 08:52	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/15/25 08:52	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/15/25 08:52	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/15/25 08:52	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/15/25 08:52	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/15/25 08:52	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/15/25 08:52	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/15/25 08:52	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/15/25 08:52	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/15/25 08:52	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/15/25 08:52	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/15/25 08:52	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/15/25 08:52	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/15/25 08:52	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/15/25 08:52	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/15/25 08:52	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/15/25 08:52	1

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

Lab Sample ID: MB 620-52137/6
Matrix: Water
Analysis Batch: 52137

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/15/25 08:52	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/15/25 08:52	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/15/25 08:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/15/25 08:52	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/15/25 08:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/15/25 08:52	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/15/25 08:52	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/15/25 08:52	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/15/25 08:52	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/15/25 08:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/15/25 08:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/15/25 08:52	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/15/25 08:52	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/15/25 08:52	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/15/25 08:52	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/15/25 08:52	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/15/25 08:52	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/15/25 08:52	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/15/25 08:52	1
Hexachlorobutadiene	0.497	J	1.0	0.24	ug/L			08/15/25 08:52	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/15/25 08:52	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/15/25 08:52	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/15/25 08:52	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/15/25 08:52	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/15/25 08:52	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/15/25 08:52	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/15/25 08:52	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/15/25 08:52	1
Styrene	1.0	U	1.0	0.42	ug/L			08/15/25 08:52	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/15/25 08:52	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/15/25 08:52	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/15/25 08:52	1
Toluene	1.0	U	1.0	0.28	ug/L			08/15/25 08:52	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/15/25 08:52	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/15/25 08:52	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/15/25 08:52	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/15/25 08:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/15/25 08:52	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/15/25 08:52	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/15/25 08:52	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/15/25 08:52	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/15/25 08:52	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/15/25 08:52	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/15/25 08:52	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/15/25 08:52	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/15/25 08:52	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/15/25 08:52	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/15/25 08:52	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/15/25 08:52	1

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

Lab Sample ID: MB 620-52137/6
Matrix: Water
Analysis Batch: 52137

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/15/25 08:52	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/15/25 08:52	1
tert-Butanol	10	U	10	8.5	ug/L			08/15/25 08:52	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/15/25 08:52	1
Ethanol	200	U	200	9.1	ug/L			08/15/25 08:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/15/25 08:52*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/15/25 08:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*08/15/25 08:52*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*08/15/25 08:52*	*1*

Lab Sample ID: LCS 620-52137/4
Matrix: Water
Analysis Batch: 52137

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-Trichlorotrifluoroethane (Freon 113)	20.0	20.7		ug/L		103	72 - 120
Acetone	20.0	17.6		ug/L		88	19 - 144
Acrylonitrile	20.0	19.1		ug/L		95	67 - 141
Benzene	20.0	19.0		ug/L		95	82 - 120
Bromobenzene	20.0	20.5		ug/L		102	80 - 115
Bromochloromethane	20.0	20.4		ug/L		102	84 - 119
Bromodichloromethane	20.0	24.0	*	ug/L		120	77 - 118
Bromoform	20.0	21.0		ug/L		105	68 - 130
Bromomethane	20.0	19.5		ug/L		98	27 - 151
2-Butanone (MEK)	20.0	15.8		ug/L		79	32 - 126
n-Butylbenzene	20.0	21.7		ug/L		108	81 - 129
sec-Butylbenzene	20.0	21.7		ug/L		109	81 - 124
tert-Butylbenzene	20.0	21.7		ug/L		109	80 - 128
Carbon disulfide	20.0	19.4		ug/L		97	67 - 136
Carbon tetrachloride	20.0	40.3	*	ug/L		202	70 - 129
Chlorobenzene	20.0	19.9		ug/L		99	82 - 112
Chloroethane	20.0	21.6		ug/L		108	47 - 142
Chloroform	20.0	20.8		ug/L		104	77 - 126
Chloromethane	20.0	15.9		ug/L		79	26 - 159
2-Chlorotoluene	20.0	21.0		ug/L		105	82 - 122
4-Chlorotoluene	20.0	21.7		ug/L		108	79 - 123
1,2-Dibromo-3-Chloropropane	20.0	17.7		ug/L		88	64 - 117
Dibromochloromethane	20.0	19.4		ug/L		97	71 - 126
1,2-Dibromoethane (EDB)	20.0	20.8		ug/L		104	83 - 122
Dibromomethane	20.0	20.3		ug/L		101	83 - 117
1,2-Dichlorobenzene	20.0	19.6		ug/L		98	87 - 118
1,3-Dichlorobenzene	20.0	20.1		ug/L		101	83 - 122
1,4-Dichlorobenzene	20.0	19.3		ug/L		96	81 - 115
Dichlorodifluoromethane (Freon 12)	20.0	17.6		ug/L		88	21 - 147
1,1-Dichloroethane	20.0	19.6		ug/L		98	84 - 122

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

Lab Sample ID: LCS 620-52137/4
Matrix: Water
Analysis Batch: 52137

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	20.0	19.9		ug/L		99	69 - 121
1,1-Dichloroethene	20.0	19.7		ug/L		99	83 - 123
cis-1,2-Dichloroethene	20.0	20.2		ug/L		101	85 - 122
trans-1,2-Dichloroethene	20.0	18.9		ug/L		94	84 - 123
1,2-Dichloropropane	20.0	19.3		ug/L		97	80 - 124
1,3-Dichloropropane	20.0	20.0		ug/L		100	80 - 118
2,2-Dichloropropane	20.0	22.7		ug/L		114	74 - 125
1,1-Dichloropropene	20.0	20.2		ug/L		101	76 - 120
cis-1,3-Dichloropropene	20.0	20.5		ug/L		103	76 - 125
trans-1,3-Dichloropropene	20.0	20.2		ug/L		101	77 - 132
Ethylbenzene	20.0	21.4		ug/L		107	85 - 116
Hexachlorobutadiene	20.0	18.8		ug/L		94	70 - 127
2-Hexanone (MBK)	20.0	15.0		ug/L		75	40 - 130
Isopropylbenzene	20.0	20.3		ug/L		102	78 - 122
4-Isopropyltoluene	20.0	21.6		ug/L		108	80 - 121
Methyl tert-butyl ether	20.0	19.3		ug/L		97	72 - 126
4-Methyl-2-pentanone (MIBK)	20.0	14.7		ug/L		73	59 - 130
Methylene Chloride	20.0	19.4		ug/L		97	77 - 124
Naphthalene	20.0	15.1		ug/L		76	57 - 133
N-Propylbenzene	20.0	19.8		ug/L		99	86 - 124
Styrene	20.0	22.2		ug/L		111	80 - 121
1,1,1,2-Tetrachloroethane	20.0	20.9		ug/L		105	81 - 113
1,1,2,2-Tetrachloroethane	20.0	19.2		ug/L		96	74 - 115
Tetrachloroethene	20.0	20.2		ug/L		101	78 - 124
Toluene	20.0	19.9		ug/L		100	83 - 114
1,2,3-Trichlorobenzene	20.0	18.2		ug/L		91	73 - 128
1,2,4-Trichlorobenzene	20.0	19.2		ug/L		96	74 - 128
1,3,5-Trichlorobenzene	20.0	19.4		ug/L		97	81 - 124
1,1,1-Trichloroethane	20.0	24.4		ug/L		122	76 - 124
1,1,2-Trichloroethane	20.0	20.0		ug/L		100	83 - 120
Trichloroethene	20.0	20.8		ug/L		104	79 - 113
Trichlorofluoromethane (Freon 11)	20.0	21.0		ug/L		105	68 - 130
1,2,3-Trichloropropane	20.0	19.3		ug/L		97	74 - 116
1,2,4-Trimethylbenzene	20.0	22.1		ug/L		111	83 - 121
1,3,5-Trimethylbenzene	20.0	22.1		ug/L		111	82 - 125
Vinyl chloride	20.0	18.8		ug/L		94	49 - 145
m,p-Xylene	20.0	22.6		ug/L		113	82 - 128
o-Xylene	20.0	22.4		ug/L		112	83 - 122
Tetrahydrofuran	20.0	17.5		ug/L		88	59 - 134
Ethyl ether	20.0	18.7		ug/L		94	74 - 119
Tert-amyl methyl ether	20.0	18.0		ug/L		90	70 - 122
Ethyl tert-butyl ether	20.0	19.1		ug/L		96	72 - 122
di-Isopropyl ether	20.0	19.2		ug/L		96	66 - 130
tert-Butanol	200	172		ug/L		86	60 - 146
trans-1,4-Dichloro-2-butene	20.0	18.5		ug/L		93	57 - 146
Ethanol	400	431		ug/L		108	53 - 150

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

Lab Sample ID: LCS 620-52137/4
Matrix: Water
Analysis Batch: 52137

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 620-52137/5
Matrix: Water
Analysis Batch: 52137

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
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	19.5		ug/L		98	72 - 120	6	20
Acetone			20.0	14.2	*	ug/L		71	19 - 144	22	20
Acrylonitrile			20.0	19.1		ug/L		95	67 - 141	0	20
Benzene			20.0	18.7		ug/L		94	82 - 120	1	20
Bromobenzene			20.0	20.3		ug/L		101	80 - 115	1	20
Bromochloromethane			20.0	20.5		ug/L		102	84 - 119	0	20
Bromodichloromethane			20.0	23.1		ug/L		116	77 - 118	4	20
Bromoform			20.0	20.8		ug/L		104	68 - 130	1	20
Bromomethane			20.0	19.2		ug/L		96	27 - 151	1	20
2-Butanone (MEK)			20.0	14.0		ug/L		70	32 - 126	12	20
n-Butylbenzene			20.0	21.5		ug/L		108	81 - 129	1	20
sec-Butylbenzene			20.0	21.3		ug/L		106	81 - 124	2	20
tert-Butylbenzene			20.0	21.3		ug/L		107	80 - 128	2	20
Carbon disulfide			20.0	18.9		ug/L		95	67 - 136	2	20
Carbon tetrachloride			20.0	40.0	*	ug/L		200	70 - 129	1	20
Chlorobenzene			20.0	19.7		ug/L		99	82 - 112	1	20
Chloroethane			20.0	21.3		ug/L		107	47 - 142	1	20
Chloroform			20.0	20.2		ug/L		101	77 - 126	3	20
Chloromethane			20.0	15.4		ug/L		77	26 - 159	3	20
2-Chlorotoluene			20.0	20.7		ug/L		104	82 - 122	1	20
4-Chlorotoluene			20.0	21.1		ug/L		106	79 - 123	3	20
1,2-Dibromo-3-Chloropropane			20.0	18.5		ug/L		93	64 - 117	5	20
Dibromochloromethane			20.0	19.4		ug/L		97	71 - 126	0	20
1,2-Dibromoethane (EDB)			20.0	20.3		ug/L		102	83 - 122	2	20
Dibromomethane			20.0	20.0		ug/L		100	83 - 117	1	20
1,2-Dichlorobenzene			20.0	19.4		ug/L		97	87 - 118	1	20
1,3-Dichlorobenzene			20.0	20.1		ug/L		100	83 - 122	0	20
1,4-Dichlorobenzene			20.0	18.8		ug/L		94	81 - 115	2	20
Dichlorodifluoromethane (Freon 12)			20.0	17.0		ug/L		85	21 - 147	4	20
1,1-Dichloroethane			20.0	19.3		ug/L		96	84 - 122	2	20
1,2-Dichloroethane			20.0	19.4		ug/L		97	69 - 121	2	20
1,1-Dichloroethene			20.0	19.3		ug/L		96	83 - 123	2	20
cis-1,2-Dichloroethene			20.0	20.2		ug/L		101	85 - 122	0	20
trans-1,2-Dichloroethene			20.0	19.8		ug/L		99	84 - 123	5	20
1,2-Dichloropropane			20.0	19.3		ug/L		97	80 - 124	0	20
1,3-Dichloropropane			20.0	19.9		ug/L		99	80 - 118	1	20
2,2-Dichloropropane			20.0	22.5		ug/L		113	74 - 125	1	20

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

Lab Sample ID: LCSD 620-52137/5
Matrix: Water
Analysis Batch: 52137

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
1,1-Dichloropropene			20.0	20.4		ug/L		102	76 - 120	1	20
cis-1,3-Dichloropropene			20.0	20.6		ug/L		103	76 - 125	0	20
trans-1,3-Dichloropropene			20.0	20.2		ug/L		101	77 - 132	0	20
Ethylbenzene			20.0	21.3		ug/L		106	85 - 116	1	20
Hexachlorobutadiene			20.0	18.0		ug/L		90	70 - 127	5	20
2-Hexanone (MBK)			20.0	14.0		ug/L		70	40 - 130	7	20
Isopropylbenzene			20.0	19.9		ug/L		100	78 - 122	2	20
4-Isopropyltoluene			20.0	21.3		ug/L		106	80 - 121	2	20
Methyl tert-butyl ether			20.0	19.7		ug/L		98	72 - 126	2	20
4-Methyl-2-pentanone (MIBK)			20.0	15.0		ug/L		75	59 - 130	2	20
Methylene Chloride			20.0	19.3		ug/L		96	77 - 124	1	20
Naphthalene			20.0	15.3		ug/L		76	57 - 133	1	20
N-Propylbenzene			20.0	19.9		ug/L		99	86 - 124	0	20
Styrene			20.0	22.2		ug/L		111	80 - 121	0	20
1,1,1,2-Tetrachloroethane			20.0	20.5		ug/L		103	81 - 113	2	20
1,1,2,2-Tetrachloroethane			20.0	19.4		ug/L		97	74 - 115	1	20
Tetrachloroethene			20.0	20.0		ug/L		100	78 - 124	1	20
Toluene			20.0	19.8		ug/L		99	83 - 114	1	20
1,2,3-Trichlorobenzene			20.0	17.9		ug/L		89	73 - 128	2	20
1,2,4-Trichlorobenzene			20.0	19.1		ug/L		95	74 - 128	0	20
1,3,5-Trichlorobenzene			20.0	19.2		ug/L		96	81 - 124	1	20
1,1,1-Trichloroethane			20.0	24.5		ug/L		123	76 - 124	0	20
1,1,2-Trichloroethane			20.0	19.8		ug/L		99	83 - 120	1	20
Trichloroethene			20.0	19.6		ug/L		98	79 - 113	6	20
Trichlorofluoromethane (Freon 11)			20.0	20.4		ug/L		102	68 - 130	3	20
1,2,3-Trichloropropane			20.0	19.4		ug/L		97	74 - 116	0	20
1,2,4-Trimethylbenzene			20.0	21.9		ug/L		110	83 - 121	1	20
1,3,5-Trimethylbenzene			20.0	21.8		ug/L		109	82 - 125	2	20
Vinyl chloride			20.0	18.4		ug/L		92	49 - 145	2	20
m,p-Xylene			20.0	22.7		ug/L		113	82 - 128	0	20
o-Xylene			20.0	22.3		ug/L		111	83 - 122	0	20
Tetrahydrofuran			20.0	17.7		ug/L		89	59 - 134	1	20
Ethyl ether			20.0	17.9		ug/L		89	74 - 119	5	20
Tert-amyl methyl ether			20.0	18.1		ug/L		90	70 - 122	0	20
Ethyl tert-butyl ether			20.0	19.5		ug/L		98	72 - 122	2	20
di-Isopropyl ether			20.0	19.3		ug/L		96	66 - 130	0	20
tert-Butanol			200	179		ug/L		89	60 - 146	4	20
trans-1,4-Dichloro-2-butene			20.0	18.3		ug/L		92	57 - 146	1	20
Ethanol			400	372		ug/L		93	53 - 150	15	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*

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

Lab Sample ID: MB 620-52299/1-A
Matrix: Water
Analysis Batch: 52418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.19	ug/L		08/18/25 18:42	08/20/25 11:03	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*14*		*10 - 150*	*08/18/25 18:42*	*08/20/25 11:03*	*1*

Lab Sample ID: LCS 620-52299/2-A
Matrix: Water
Analysis Batch: 52418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52299

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			4.00	5.57		ug/L		139	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*12*		*10 - 150*

Lab Sample ID: LCSD 620-52299/3-A
Matrix: Water
Analysis Batch: 52418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 52299

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			4.00	4.98		ug/L		125	40 - 140	11	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8	*12*		*10 - 150*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 410-685513/5
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
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/14/25 10:45	1

Lab Sample ID: LCS 410-685513/3
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		
Nitrate as N			0.750	0.702		mg/L		94	90 - 110		

Lab Sample ID: LCSD 410-685513/4
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
Nitrate as N			0.750	0.702		mg/L		94	90 - 110	0	20

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 620-28538-7 MS
Matrix: Water
Analysis Batch: 685513

Client Sample ID: MW-102ER/250812
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.11	U	0.500	0.450		mg/L		90	90 - 110

Lab Sample ID: 620-28538-7 DU
Matrix: Water
Analysis Batch: 685513

Client Sample ID: MW-102ER/250812
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.11	U	0.11	U	mg/L		NC	15

Lab Sample ID: MB 410-685514/5
Matrix: Water
Analysis Batch: 685514

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.50	U	1.50	0.60	mg/L			08/14/25 10:45	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/14/25 10:45	1

Lab Sample ID: LCS 410-685514/3
Matrix: Water
Analysis Batch: 685514

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	2.924		mg/L		97	90 - 110
Sulfate	7.50	7.381		mg/L		98	90 - 110

Lab Sample ID: LCSD 410-685514/4
Matrix: Water
Analysis Batch: 685514

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
Chloride	3.00	2.929		mg/L		98	90 - 110	0	20
Sulfate	7.50	7.384		mg/L		98	90 - 110	0	20

Lab Sample ID: 620-28538-7 MS
Matrix: Water
Analysis Batch: 685514

Client Sample ID: MW-102ER/250812
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.96		2.00	4.728	*	mg/L		88	90 - 110
Sulfate	1.50	U	5.00	4.777		mg/L		96	90 - 110

Lab Sample ID: 620-28538-7 DU
Matrix: Water
Analysis Batch: 685514

Client Sample ID: MW-102ER/250812
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	2.96		2.958		mg/L		0.08	15
Sulfate	1.50	U	1.50	U	mg/L		NC	15

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 410-686235/5
Matrix: Water
Analysis Batch: 686235

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.50	U	1.50	0.60	mg/L			08/15/25 10:47	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/15/25 10:47	1

Lab Sample ID: LCS 410-686235/3
Matrix: Water
Analysis Batch: 686235

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	3.086		mg/L		103	90 - 110
Sulfate	7.50	7.541		mg/L		101	90 - 110

Lab Sample ID: LCSD 410-686235/4
Matrix: Water
Analysis Batch: 686235

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
Chloride	3.00	3.076		mg/L		103	90 - 110	0	20
Sulfate	7.50	7.561		mg/L		101	90 - 110	0	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 620-52040/1-A
Matrix: Water
Analysis Batch: 52283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.25	U	0.25	0.093	mg/L		08/13/25 14:35	08/14/25 13:30	1
Magnesium	0.020	U	0.020	0.019	mg/L		08/13/25 14:35	08/14/25 13:30	1
Potassium	0.50	U	0.50	0.17	mg/L		08/13/25 14:35	08/14/25 13:30	1
Sodium	0.75	U	0.75	0.14	mg/L		08/13/25 14:35	08/14/25 13:30	1

Lab Sample ID: LCS 620-52040/2-A
Matrix: Water
Analysis Batch: 52283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	2.25	2.09		mg/L		93	80 - 120
Iron	0.750	0.725		mg/L		97	80 - 120
Magnesium	0.750	0.694		mg/L		92	80 - 120
Potassium	7.50	6.62		mg/L		88	80 - 120
Sodium	2.25	2.44		mg/L		109	80 - 120

Lab Sample ID: MB 620-52034/1-B
Matrix: Water
Analysis Batch: 52283

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 52040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/13/25 14:35	08/14/25 15:29	1

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-686141/44
Matrix: Water
Analysis Batch: 686141

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	8.0	U	8.0	2.6	mg/L			08/14/25 20:05	1

Lab Sample ID: LCS 410-686141/45
Matrix: Water
Analysis Batch: 686141

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	189	177.7		mg/L		94	80 - 110

Lab Sample ID: LCSD 410-686141/46
Matrix: Water
Analysis Batch: 686141

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
Total Alkalinity	189	181.7		mg/L		96	80 - 110	2	10

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 410-688232/7
Matrix: Water
Analysis Batch: 688232

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.50	mg/L			08/19/25 21:37	1

Lab Sample ID: LCS 410-688232/6
Matrix: Water
Analysis Batch: 688232

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	50.0	47.15		mg/L		94	90 - 110

Lab Sample ID: MRL 410-688232/1
Matrix: Water
Analysis Batch: 688232

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	1.00	0.939	J	mg/L		94	50 - 150

GC/MS VOA

Analysis Batch: 52091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-1	MW-104I/250812	Total/NA	Water	8260C	
620-28538-2	MW-104E/250812	Total/NA	Water	8260C	
620-28538-3	MW-101I/250812	Total/NA	Water	8260C	
620-28538-4	MW-100I/250812	Total/NA	Water	8260C	
620-28538-5	MW-103ER/250812	Total/NA	Water	8260C	
620-28538-6	MW-103B/250812	Total/NA	Water	8260C	
620-28538-7	MW-102ER/250812	Total/NA	Water	8260C	
620-28538-8	DUP/250812	Total/NA	Water	8260C	
620-28538-9	FB/250812	Total/NA	Water	8260C	
620-28538-10	TB/250812	Total/NA	Water	8260C	
MB 620-52091/7	Method Blank	Total/NA	Water	8260C	
LCS 620-52091/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-52091/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 52137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-1 - DL	MW-104I/250812	Total/NA	Water	8260C	
620-28538-3 - DL	MW-101I/250812	Total/NA	Water	8260C	
620-28538-4 - DL	MW-100I/250812	Total/NA	Water	8260C	
620-28538-8 - DL	DUP/250812	Total/NA	Water	8260C	
MB 620-52137/6	Method Blank	Total/NA	Water	8260C	
LCS 620-52137/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-52137/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 52299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Total/NA	Water	3510C	
620-28538-5	MW-103ER/250812	Total/NA	Water	3510C	
620-28538-6	MW-103B/250812	Total/NA	Water	3510C	
620-28538-7	MW-102ER/250812	Total/NA	Water	3510C	
620-28538-8	DUP/250812	Total/NA	Water	3510C	
620-28538-9	FB/250812	Total/NA	Water	3510C	
MB 620-52299/1-A	Method Blank	Total/NA	Water	3510C	
LCS 620-52299/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 620-52299/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 52418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Total/NA	Water	8270D SIM ID	52299
620-28538-5	MW-103ER/250812	Total/NA	Water	8270D SIM ID	52299
620-28538-6	MW-103B/250812	Total/NA	Water	8270D SIM ID	52299
620-28538-7	MW-102ER/250812	Total/NA	Water	8270D SIM ID	52299
620-28538-8	DUP/250812	Total/NA	Water	8270D SIM ID	52299
620-28538-9	FB/250812	Total/NA	Water	8270D SIM ID	52299
MB 620-52299/1-A	Method Blank	Total/NA	Water	8270D SIM ID	52299
LCS 620-52299/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	52299
LCSD 620-52299/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM ID	52299

HPLC/IC

Analysis Batch: 685513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Total/NA	Water	9056A	
620-28538-5	MW-103ER/250812	Total/NA	Water	9056A	
620-28538-6	MW-103B/250812	Total/NA	Water	9056A	
620-28538-7	MW-102ER/250812	Total/NA	Water	9056A	
620-28538-8	DUP/250812	Total/NA	Water	9056A	
620-28538-9	FB/250812	Total/NA	Water	9056A	
MB 410-685513/5	Method Blank	Total/NA	Water	9056A	
LCS 410-685513/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 410-685513/4	Lab Control Sample Dup	Total/NA	Water	9056A	
620-28538-7 MS	MW-102ER/250812	Total/NA	Water	9056A	
620-28538-7 DU	MW-102ER/250812	Total/NA	Water	9056A	

Analysis Batch: 685514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Total/NA	Water	9056A	
620-28538-5	MW-103ER/250812	Total/NA	Water	9056A	
620-28538-6	MW-103B/250812	Total/NA	Water	9056A	
620-28538-7	MW-102ER/250812	Total/NA	Water	9056A	
620-28538-8	DUP/250812	Total/NA	Water	9056A	
620-28538-9	FB/250812	Total/NA	Water	9056A	
MB 410-685514/5	Method Blank	Total/NA	Water	9056A	
LCS 410-685514/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 410-685514/4	Lab Control Sample Dup	Total/NA	Water	9056A	
620-28538-7 MS	MW-102ER/250812	Total/NA	Water	9056A	
620-28538-7 DU	MW-102ER/250812	Total/NA	Water	9056A	

Analysis Batch: 686235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-6	MW-103B/250812	Total/NA	Water	9056A	
MB 410-686235/5	Method Blank	Total/NA	Water	9056A	
LCS 410-686235/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 410-686235/4	Lab Control Sample Dup	Total/NA	Water	9056A	

Metals

Filtration Batch: 52034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Dissolved	Water	Filtration	
620-28538-5	MW-103ER/250812	Dissolved	Water	Filtration	
620-28538-6	MW-103B/250812	Dissolved	Water	Filtration	
620-28538-7	MW-102ER/250812	Dissolved	Water	Filtration	
620-28538-8	DUP/250812	Dissolved	Water	Filtration	
620-28538-9	FB/250812	Dissolved	Water	Filtration	
MB 620-52034/1-B	Method Blank	Dissolved	Water	Filtration	

Prep Batch: 52040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Dissolved	Water	3005A	52034
620-28538-4	MW-100I/250812	Total/NA	Water	3005A	
620-28538-5	MW-103ER/250812	Dissolved	Water	3005A	52034
620-28538-5	MW-103ER/250812	Total/NA	Water	3005A	

Metals (Continued)

Prep Batch: 52040 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-6	MW-103B/250812	Dissolved	Water	3005A	52034
620-28538-6	MW-103B/250812	Total/NA	Water	3005A	
620-28538-7	MW-102ER/250812	Dissolved	Water	3005A	52034
620-28538-7	MW-102ER/250812	Total/NA	Water	3005A	
620-28538-8	DUP/250812	Dissolved	Water	3005A	52034
620-28538-8	DUP/250812	Total/NA	Water	3005A	
620-28538-9	FB/250812	Dissolved	Water	3005A	52034
620-28538-9	FB/250812	Total/NA	Water	3005A	
MB 620-52034/1-B	Method Blank	Dissolved	Water	3005A	52034
MB 620-52040/1-A	Method Blank	Total/NA	Water	3005A	
LCS 620-52040/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 52283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Dissolved	Water	6010D	52040
620-28538-4	MW-100I/250812	Total/NA	Water	6010D	52040
620-28538-5	MW-103ER/250812	Dissolved	Water	6010D	52040
620-28538-5	MW-103ER/250812	Total/NA	Water	6010D	52040
620-28538-6	MW-103B/250812	Dissolved	Water	6010D	52040
620-28538-6	MW-103B/250812	Total/NA	Water	6010D	52040
620-28538-7	MW-102ER/250812	Dissolved	Water	6010D	52040
620-28538-7	MW-102ER/250812	Total/NA	Water	6010D	52040
620-28538-8	DUP/250812	Dissolved	Water	6010D	52040
620-28538-8	DUP/250812	Total/NA	Water	6010D	52040
620-28538-9	FB/250812	Dissolved	Water	6010D	52040
620-28538-9	FB/250812	Total/NA	Water	6010D	52040
MB 620-52034/1-B	Method Blank	Dissolved	Water	6010D	52040
MB 620-52040/1-A	Method Blank	Total/NA	Water	6010D	52040
LCS 620-52040/2-A	Lab Control Sample	Total/NA	Water	6010D	52040

General Chemistry

Analysis Batch: 686141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Total/NA	Water	2320B-2011	
620-28538-5	MW-103ER/250812	Total/NA	Water	2320B-2011	
620-28538-6	MW-103B/250812	Total/NA	Water	2320B-2011	
620-28538-7	MW-102ER/250812	Total/NA	Water	2320B-2011	
620-28538-8	DUP/250812	Total/NA	Water	2320B-2011	
620-28538-9	FB/250812	Total/NA	Water	2320B-2011	
MB 410-686141/44	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-686141/45	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 410-686141/46	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 688232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Total/NA	Water	5310 C-2014	
620-28538-5	MW-103ER/250812	Total/NA	Water	5310 C-2014	
620-28538-7	MW-102ER/250812	Total/NA	Water	5310 C-2014	
620-28538-8	DUP/250812	Total/NA	Water	5310 C-2014	
620-28538-9	FB/250812	Total/NA	Water	5310 C-2014	

General Chemistry (Continued)

Analysis Batch: 688232 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-688232/7	Method Blank	Total/NA	Water	5310 C-2014	
LCS 410-688232/6	Lab Control Sample	Total/NA	Water	5310 C-2014	
MRL 410-688232/1	Lab Control Sample	Total/NA	Water	5310 C-2014	

Analysis Batch: 688387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28538-4	MW-100I/250812	Total/NA	Water	5310 C-2014	
620-28538-5	MW-103ER/250812	Total/NA	Water	5310 C-2014	
620-28538-7	MW-102ER/250812	Total/NA	Water	5310 C-2014	
620-28538-8	DUP/250812	Total/NA	Water	5310 C-2014	
620-28538-9	FB/250812	Total/NA	Water	5310 C-2014	

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28538-1

Client Sample ID: MW-104I/250812
Date Collected: 08/12/25 10:00
Date Received: 08/13/25 11:01

Lab Sample ID: 620-28538-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 20:15
Total/NA	Analysis	8260C	DL	10	52137	CLR	EET RI	08/15/25 10:01

Client Sample ID: MW-104E/250812
Date Collected: 08/12/25 12:50
Date Received: 08/13/25 11:01

Lab Sample ID: 620-28538-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 20:38

Client Sample ID: MW-101I/250812
Date Collected: 08/12/25 11:35
Date Received: 08/13/25 11:01

Lab Sample ID: 620-28538-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 21:01
Total/NA	Analysis	8260C	DL	10	52137	CLR	EET RI	08/15/25 10:24

Client Sample ID: MW-100I/250812
Date Collected: 08/12/25 12:15
Date Received: 08/13/25 11:01

Lab Sample ID: 620-28538-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 21:24
Total/NA	Analysis	8260C	DL	10	52137	CLR	EET RI	08/15/25 10:47
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 13:23
Total/NA	Analysis	9056A		1	685513	L4QM	ELLE	08/14/25 11:09
Total/NA	Analysis	9056A		1	685514	L4QM	ELLE	08/14/25 11:09
Dissolved	Filtration	Filtration			52034	DJW	EET RI	08/13/25 11:49
Dissolved	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Dissolved	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 15:35
Total/NA	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Total/NA	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 14:54
Total/NA	Analysis	2320B-2011		1	686141	DI9Q	ELLE	08/14/25 22:05
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/19/25 22:59
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/19/25 22:59

Client Sample ID: MW-103ER/250812
Date Collected: 08/12/25 13:05
Date Received: 08/13/25 11:01

Lab Sample ID: 620-28538-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 21:47

Client Sample ID: MW-103ER/250812

Lab Sample ID: 620-28538-5

Date Collected: 08/12/25 13:05

Matrix: Water

Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 13:41
Total/NA	Analysis	9056A		1	685513	L4QM	ELLE	08/14/25 11:26
Total/NA	Analysis	9056A		1	685514	L4QM	ELLE	08/14/25 11:26
Dissolved	Filtration	Filtration			52034	DJW	EET RI	08/13/25 11:49
Dissolved	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Dissolved	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 15:53
Total/NA	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Total/NA	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 14:59
Total/NA	Analysis	2320B-2011		1	686141	DI9Q	ELLE	08/14/25 21:53
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/19/25 23:18
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/19/25 23:18

Client Sample ID: MW-103B/250812

Lab Sample ID: 620-28538-6

Date Collected: 08/12/25 14:30

Matrix: Water

Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 22:10
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		5	52418	JS	EET RI	08/20/25 15:44
Total/NA	Analysis	9056A		1	685513	L4QM	ELLE	08/14/25 11:34
Total/NA	Analysis	9056A		1	685514	L4QM	ELLE	08/14/25 11:34
Total/NA	Analysis	9056A		5	686235	KJQ8	ELLE	08/15/25 16:55
Dissolved	Filtration	Filtration			52034	DJW	EET RI	08/13/25 11:49
Dissolved	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Dissolved	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 15:59
Total/NA	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Total/NA	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 15:05
Total/NA	Analysis	2320B-2011		1	686141	DI9Q	ELLE	08/14/25 22:12

Client Sample ID: MW-102ER/250812

Lab Sample ID: 620-28538-7

Date Collected: 08/12/25 14:45

Matrix: Water

Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 22:33
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 14:16
Total/NA	Analysis	9056A		1	685513	L4QM	ELLE	08/14/25 11:42
Total/NA	Analysis	9056A		1	685514	L4QM	ELLE	08/14/25 11:42
Dissolved	Filtration	Filtration			52034	DJW	EET RI	08/13/25 11:49
Dissolved	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Dissolved	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 16:05

Client Sample ID: MW-102ER/250812

Lab Sample ID: 620-28538-7

Date Collected: 08/12/25 14:45

Matrix: Water

Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Total/NA	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 15:11
Total/NA	Analysis	2320B-2011		1	686141	DI9Q	ELLE	08/14/25 22:18
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/19/25 23:38
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/19/25 23:38

Client Sample ID: DUP/250812

Lab Sample ID: 620-28538-8

Date Collected: 08/12/25 00:00

Matrix: Water

Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 22:56
Total/NA	Analysis	8260C	DL	10	52137	CLR	EET RI	08/15/25 11:10
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 14:34
Total/NA	Analysis	9056A		1	685513	L4QM	ELLE	08/14/25 10:53
Total/NA	Analysis	9056A		1	685514	L4QM	ELLE	08/14/25 10:53
Dissolved	Filtration	Filtration			52034	DJW	EET RI	08/13/25 11:49
Dissolved	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Dissolved	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 16:11
Total/NA	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Total/NA	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 15:17
Total/NA	Analysis	2320B-2011		1	686141	DI9Q	ELLE	08/14/25 21:59
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/19/25 23:58
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/19/25 23:58

Client Sample ID: FB/250812

Lab Sample ID: 620-28538-9

Date Collected: 08/12/25 15:00

Matrix: Water

Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 23:19
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 14:52
Total/NA	Analysis	9056A		1	685513	L4QM	ELLE	08/14/25 12:22
Total/NA	Analysis	9056A		1	685514	L4QM	ELLE	08/14/25 12:22
Dissolved	Filtration	Filtration			52034	DJW	EET RI	08/13/25 11:49
Dissolved	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Dissolved	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 16:17
Total/NA	Prep	3005A			52040	SRC	EET RI	08/13/25 14:35
Total/NA	Analysis	6010D		1	52283	DJW	EET RI	08/14/25 15:23
Total/NA	Analysis	2320B-2011		1	686141	DI9Q	ELLE	08/14/25 21:21
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/20/25 00:18

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28538-1

Client Sample ID: FB/250812

Lab Sample ID: 620-28538-9

Date Collected: 08/12/25 15:00

Matrix: Water

Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/20/25 00:18

Client Sample ID: TB/250812

Lab Sample ID: 620-28538-10

Date Collected: 08/12/25 00:00

Matrix: Water

Date Received: 08/13/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52091	CLR	EET RI	08/14/25 19:52

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28538-1
Project/Site: ESCO Steel Treaters Project

Laboratory: Eurofins Rhode Island

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11393	03-31-26

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

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C		Water	1,2,3-Trichlorobenzene
8260C		Water	1,3,5-Trichlorobenzene
8260C		Water	4-Isopropyltoluene
8260C		Water	Chloromethane
8260C		Water	di-Isopropyl ether
8260C		Water	Ethyl tert-butyl ether
8260C		Water	Isopropylbenzene
8270D SIM ID	3510C	Water	1,4-Dioxane

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-26
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-26
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-26
Connecticut	State	PH-0746	06-30-27
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	07-01-26
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-26
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-26
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-26
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-26
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-31-26
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28538-1
Project/Site: ESCO Steel Treaters Project

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET RI
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET RI
9056A	Anions, Ion Chromatography	SW846	ELLE
6010D	Metals (ICP)	SW846	EET RI
2320B-2011	Alkalinity, Total	SM	ELLE
5310 C-2014	Total Organic Carbon/Persulfate - Ultrav	SM	ELLE
3005A	Preparation, Total Metals	SW846	EET RI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET RI
5030C	Purge and Trap	SW846	EET RI
Filtration	Sample Filtration	None	EET RI

Protocol References:

None = None

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

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

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28538-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
620-28538-1	MW-104I/250812	Water	08/12/25 10:00	08/13/25 11:01	New York
620-28538-2	MW-104E/250812	Water	08/12/25 12:50	08/13/25 11:01	New York
620-28538-3	MW-101I/250812	Water	08/12/25 11:35	08/13/25 11:01	New York
620-28538-4	MW-100I/250812	Water	08/12/25 12:15	08/13/25 11:01	New York
620-28538-5	MW-103ER/250812	Water	08/12/25 13:05	08/13/25 11:01	New York
620-28538-6	MW-103B/250812	Water	08/12/25 14:30	08/13/25 11:01	New York
620-28538-7	MW-102ER/250812	Water	08/12/25 14:45	08/13/25 11:01	New York
620-28538-8	DUP/250812	Water	08/12/25 00:00	08/13/25 11:01	New York
620-28538-9	FB/250812	Water	08/12/25 15:00	08/13/25 11:01	New York
620-28538-10	TB/250812	Water	08/12/25 00:00	08/13/25 11:01	New York

Eurofins Rhode Island
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018 Fax. 413-506-3830

28538

Chain of Custody Record

Albany #224

eurofins | Environment Testing

Client Information	Sampler: ICW/NH/JC	Lab PM: Scott, Krishnan F	Carrier Tracking No(s):	COC No: 620-26652-4191 3
Client Contact: Mr. Patrick Sommer Kyle Walker	Phone:	E-Mail: Krishnan Scott@et.eurofinsus com	State of Origin: NY	Page: Page 3 of 5 → 1 of 1
Company: Ramboll Americas Engineering Solutions	PWSID:	Analysis Requested		Job #:
Address: 100 Pearl Street, East Tower, Third Floor → 101 Carnegie Ctr Ste 260	Due Date Requested:			Preservation Codes: A - HCL; N - None; D - HNO3; AA - PhosphorAc
City: Hartford → Princeton, NJ 08540	TAT Requested (days): Std			
State, Zip: CT, 06103	Compliance Project: Δ Yes Δ No			
Phone: jsanares@ramboll.com	PO #: 1690000663			Other:
Email: psommer@ramboll.com kwalker@ramboll.com	WO #:			
Project Name: ESCO Steel Treaters Project	Project #: 62002339			
Site:	SSOW#:			

Samples to be shipped to Eurofins Rhode Island

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Volatile Organic Compounds (GC/MS)	2320B - Total Alkalinity	9056A_ORGFM_28D, 9056A_ORGFM_48H	8270D_SIM_MS_ID - 1,4-Dioxane	6010D - Dissolved Iron (ICP-Trace) - Lab Filter	6010D - Total Ca, Mg, Na and K (ICP-Trace)	SM5310_TC_TIC - Total Inorganic Carbon (TIC)	5310C - Total Organic Carbon						Total Number of containers	Special Instructions/Note:
				Preservation Code:			A	N	N	N	N	D	N	AA							
MW-104I/250512	8/12/25	1060	G	Water			X													3	
MW-104E/250512		1250		Water			X													3	
MW-101I/250812		1135		Water			X													3	
MW-100I/250812		1215		Water			X	X	X	X	X	X	X	X						13	
MW-103ER/250812		1305		Water			X	X	X	X	X	X	X	X						13	
MW-103B/250812		1430		Water			X	X	X	X	X	X								9	
MW-102ER/250812		1445		Water			X	X	X	X	X	X	X	X						13	
DUP/250512		-		Water			X	X	X	X	X	X	X	X						13	
FB/250812		1500	↓	Water			X	X	X	X	X	X	X	X						13	620-28538 COC
TB/250812	↓	-	TB	Water			X													2	
				Water							TM			6 12 25							

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]	8-12-25 1604	Ramboll	[signature]	8-12-25 1604	EEN
2	[signature]	8-12-25 1630	EETN	Fedex		
3	Fedex			Nathan W.	8/13/25 1101	ERI

Custody Seals Intact. Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 3.4 + 0.2 = 3.6°C #6 iced

Page 62 of 69 → 5 6 7 8 9 10

8/20/2025

Ver: 10/10/2024

ORIGIN ID:DSVA (518) 438-8140
TIM KNOLLMEYER
TESTAMERICA LAB INC
25 KRAFT AVE

ALBANY, NY 12205
UNITED STATES US

SHIP DATE: 12AUG25
ACTWGT: 54.60 LB
CAD: 0930656/CAFE3908
DIMS: 26x15x14 IN

BILL RECIPIENT

TO SAMPLE RECEIPT
EUROFINS ENV NEW ENGLAND
646 CAMP AVENUE

NORTH KINGSTOWN RI 02852
(413) 789-9016
REF: RAMBOLL ESCO STEEL TROY

FedEx Express

J25102411140luv

TRK# 0201 4561 8694 5664

WED - 13 AUG 10:30A
PRIORITY OVERNIGHT

ED NCOA

02852
RI - US PVD

Part # 156148-434 MTW EXP 01/26

78538

Eurofins Rhode Island
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018 Fax: 413-506-3830

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Scott, Krishnan F	Carrier Tracking No(s): N/A	COC No: 620-23460.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Krishnan.Scott@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New York		Job #: 620-28538-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 8/19/2025			Preservation Codes: -
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: ESCO Steel Treaters Project	Project #: 62002339			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	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)	SM5310_TC_TICTotal Inorganic Carbon (TIC)	5310CTotal Organic Carbon	9056A_ORGFM_48HNitrate (IC)	9056A_ORGFM_28DChloride and Sulfate (IC)	2320BTotal Alkalinity	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
MW-100I/250812 (620-28538-4)	8/12/25	12:15 Eastern	G	Water			X	X	X	X	X	6	
MW-10BER/250812 (620-28538-5)	8/12/25	13:05 Eastern	G	Water			X	X	X	X	X	6	
MW-103B/250812 (620-28538-6)	8/12/25	14:30 Eastern	G	Water					X	X	X	3	
MW-102ER/250812 (620-28538-7)	8/12/25	14:45 Eastern	G	Water			X	X	X	X	X	6	
DUP/250812 (620-28538-8)	8/12/25	Eastern	G	Water			X	X	X	X	X	6	
FB/250812 (620-28538-9)	8/12/25	15:00 Eastern	G	Water			X	X	X	X	X	6	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Alan AA	8/13/25 1652	EKI		8/13/25 2200	ET
2		8/14/25 0115	ET			
3					8/14/25 0115	ET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: R: 4.6 C: 4.6

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 620-28538-1

Login Number: 28538
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins Rhode Island

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 620-28538-1

Login Number: 28538
List Number: 2
Creator: Hottle, Steffanie

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 08/14/25 04:21 AM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Walker
Ramboll Americas Engineering Solutions
101 Carnegie Center
Suite 200
Princeton NJ 08540

Generated 09/09/2025

JOB DESCRIPTION

ESCO Steel Treaters Project

JOB NUMBER

620-28577-1

Eurofins Rhode Island
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

my EOL

Eurofins Rhode Island

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

Generated
09/09/2025

Authorized for release by
Krishnan F Scott, Project Manager I
Krishnan.Scott@et.eurofinsus.com
401 267-4375

Table of Contents

Cover Page 1
Data Summaries 6
Report Narrative 6
Sample Summary 8
Detection Summary 9
Method Summary 12
Client Sample Results 13
Surrogate Summary 39
Isotope Dilution Summary 40
QC Sample Results 41
Definitions 68
QC Association 70
Chronicle 74
Certification Summary 77
Reagent Traceability 79
COAs 94
Organic Sample Data 193
GC/MS VOA 193
Method 8260C 193
Method 8260C QC Summary 194
Method 8260C Sample Data 227
Standards Data 442
Method 8260C ICAL Data 442
Method 8260C CCAL Data 832
Raw QC Data 899
Method 8260C Tune Data 899
Method 8260C Blank Data 923
Method 8260C LCS/LCSD Data 969
Method 8260C Run Logs 1050
Method 8260C Prep Data 1056
GC/MS Semi VOA 1065
8270D_SIM_MS_ID 1065
8270D_SIM_MS_ID QC Summary 1066
8270D_SIM_MS_ID Sample Data 1074
Standards Data 1097
8270D_SIM_MS_ID ICAL Data 1097
8270D_SIM_MS_ID CCAL Data 1119
Raw QC Data 1127
8270D_SIM_MS_ID Tune Data 1127
8270D_SIM_MS_ID Blank Data 1145
8270D_SIM_MS_ID LCS/LCSD Data 1149

Table of Contents

8270D_SIM_MS_ID Run Logs 1158
8270D_SIM_MS_ID Prep Data 1160
HPLC/IC 1163
9056A_ORGFM_28D 1163
9056A_ORGFM_28D QC Summary 1164
9056A_ORGFM_28D Sample Data 1172
Standards Data 1187
9056A_ORGFM_28D ICAL Data 1187
9056A_ORGFM_28D CCAL Data 1220
Raw QC Data 1277
9056A_ORGFM_28D Blank Data 1277
9056A_ORGFM_28D LCS/LCSD Data 1315
9056A_ORGFM_28D MS/MSD Data 1331
9056A_ORGFM_28D Duplicate/Triplicate Data 1339
9056A_ORGFM_28D Run Logs 1346
9056A_ORGFM_28D Prep Data 1351
9056A_ORGFM_28D 1354
9056A_ORGFM_48H 1355
9056A_ORGFM_48H QC Summary 1356
9056A_ORGFM_48H Sample Data 1360
Standards Data 1373
9056A_ORGFM_48H ICAL Data 1373
9056A_ORGFM_48H CCAL Data 1396
Raw QC Data 1410
9056A_ORGFM_48H Blank Data 1410
9056A_ORGFM_48H LCS/LCSD Data 1422
9056A_ORGFM_48H MS/MSD Data 1428
9056A_ORGFM_48H Duplicate/Triplicate Data 1431
9056A_ORGFM_48H Run Logs 1434
9056A_ORGFM_48H Prep Data 1436
Inorganic Sample Data 1438
Metals Data 1438
Met Cover Page 1439
Met Sample Data 1440
Met QC Data 1448
Met ICV/CCV 1448
Met CRQL 1450
Met Blanks 1451
Met ICSA/ICSAB 1455
Met MS/MSD/PDS 1457
Met Dup/Trip 1458

Table of Contents

Met LCS/LCSD 1459
Met MDL 1460
Met Linear Ranges 1464
Met Preparation Log 1465
Met Analysis Run Log 1466
Met ICP/MS Int Stds 1470
Met Raw Data 1471
Met Prep Data 1601
General Chemistry Data 1604
Gen Chem Cover Page 1605
Gen Chem Sample Data 1606
Gen Chem QC Data 1610
Gen Chem ICV/CCV 1610
Gen Chem Blanks 1612
Gen Chem MS/MSD/PDS 1613
Gen Chem Duplicates 1614
Gen Chem LCS/LCSD 1615
Gen Chem MDL 1618
Gen Chem Linear Ranges 1624
Gen Chem Analysis Run Log 1625
Gen Chem Raw Data 1633
Gen Chem Prep Data 1706
Subcontracted Data 1711
Shipping and Receiving Documents 1712
Client Chain of Custody 1713
Sample Receipt Checklist 1716

Job Narrative
620-28577-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 8/14/2025 11:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

GC/MS VOA
Method 8260C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 620-52249 recovered outside control limits for the following analytes: Bromodichloromethane, Carbon tetrachloride, 2,2-Dichloropropane and 1,1,1-Trichloroethane. These analytes were biased high in the LCS and were not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The large number of analytes included in the continuing calibration verification ((CCVIS 620-52249/3)) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased low): Naphthalene. Affected analytes (biased high): Carbon tetrachloride, 1,1,1-Trichloroethane, 2,2-Dichloropropane, Bromodichloromethane, m,p-Xylene, Styrene, o-Xylene, and 1,2,4-Trimethylbenzene.

Method 8260C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 620-52339 recovered outside control limits for the following analytes: Bromodichloromethane, Carbon tetrachloride and 1,1,1-Trichloroethane. These analytes were biased high in the LCS and were not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The large number of analytes included in the continuing calibration verification ((CCVIS 620-52339/3)) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased low): Naphthalene. Affected analytes (biased high): Carbon tetrachloride, 1,1,1-Trichloroethane, 2,2-Dichloropropane, and Dichlorobromomethane.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 620-52457 recovered outside in-house control limits for the following analytes: 1,2-Dichlorobenzene, 1,4-Dichlorobenzene, 1,1-Dichloroethane and Toluene. These analytes were biased low in the LCSD but recovered within 70-130%. According to 8260C requirements, analytes are allowed to recover outside in-house control limits as long as recovery is within the method limit of 70-130%; therefore, the data have been reported.

Method 8260C: The large number of analytes included in the continuing calibration verification ((CCVIS 620-52457/3)) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria.Affected analytes (biased low): Acrylonitrile, Bromodichloromethane, Carbon disulfide, 1,2-Dichloroethane, Tetrahydrofuran, Ethyl ether, di-Isopropyl ether and trans-1,4-Dichloro-2-butene.

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 620-52540 recovered outside control limits for the following analyte: Chloroethane.

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-52540 recovered outside control limits for the following analyte: Chloroethane, which has been identified as a poor performing analyte when analyzed using this method. According to 8260C requirements, poor performers are allowed to recover within 50-150%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-52540 recovered outside control limits for the following analytes: 1,1,2-Trichlorotrifluoroethane (Freon 113) and Trichlorofluoromethane (Freon 11). These analytes were biased high in the LCS and were not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The large number of analytes included in the continuing calibration verification ((CCVIS 620-52540/3)) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased low): Acrylonitrile, Tetrahydrofuran and di-Isopropyl ether.

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

GC/MS Semi VOA
Method 8270D_SIM_MS_ID: The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: MW-103I/250813 (620-28577-4). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

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

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

Metals
Method 6010D: The matrix spike (MS) recoveries for preparation batch 620-52116 and analytical batch 620-52265 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010D - Dissolved: The matrix spike (MS) recoveries for preparation batch 620-52116 and analytical batch 620-52265 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry
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
Job ID: 620-28577-1
Project/Site: ESCO Steel Treaters Project

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
620-28577-1	MW-17/250811	Water	08/11/25 15:50	08/14/25 11:00	New York
620-28577-2	MW-19/250813	Water	08/13/25 10:35	08/14/25 11:00	New York
620-28577-3	MW-18/250813	Water	08/13/25 11:40	08/14/25 11:00	New York
620-28577-4	MW-103I/250813	Water	08/13/25 12:35	08/14/25 11:00	New York
620-28577-5	MW-102B/250813	Water	08/13/25 15:10	08/14/25 11:00	New York
620-28577-6	MW-102IR/250813	Water	08/13/25 15:30	08/14/25 11:00	New York
620-28577-7	FB/250813	Water	08/13/25 15:00	08/14/25 11:00	New York
620-28577-8	TB/250813	Water	08/13/25 00:00	08/14/25 11:00	New York

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28577-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: MW-17/250811 — Lab Sample ID: 620-28577-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.5	J	10	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	2.2		1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	97		1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	3.3		1.0	0.19	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	0.94	J *	1.0	0.33	ug/L	1		8260C	Total/NA
Trichloroethene	340	E	1.0	0.36	ug/L	1		8260C	Total/NA
Vinyl chloride	10		1.0	0.26	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	60		10	3.0	ug/L	10		8260C	Total/NA
Trichloroethene - DL	220		10	3.6	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	6.7	J	10	2.6	ug/L	10		8260C	Total/NA

Client Sample ID: MW-19/250813 — Lab Sample ID: 620-28577-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	5.3	*	1.0	0.36	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.54	J	1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	80		1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	0.43	J	1.0	0.19	ug/L	1		8260C	Total/NA
Tetrachloroethene	5.2		1.0	0.36	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	41		1.0	0.33	ug/L	1		8260C	Total/NA
Trichloroethene	80		1.0	0.36	ug/L	1		8260C	Total/NA
Vinyl chloride	0.39	J	1.0	0.26	ug/L	1		8260C	Total/NA

Client Sample ID: MW-18/250813 — Lab Sample ID: 620-28577-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.7	J	10	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	13		1.0	0.36	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	23		1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	95		1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.0		1.0	0.19	ug/L	1		8260C	Total/NA
Tetrachloroethene	45		1.0	0.36	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	520	* E	1.0	0.33	ug/L	1		8260C	Total/NA
Trichloroethene	2500	E	1.0	0.36	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	63		50	15	ug/L	50		8260C	Total/NA
Tetrachloroethene - DL	35	J	50	18	ug/L	50		8260C	Total/NA
1,1,1-Trichloroethane - DL	330		50	17	ug/L	50		8260C	Total/NA
Trichloroethene - DL	1700		50	18	ug/L	50		8260C	Total/NA

Client Sample ID: MW-103I/250813 — Lab Sample ID: 620-28577-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.4	J	10	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	13		1.0	0.36	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	6.5		1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	130	E	1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	0.74	J	1.0	0.19	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.3		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	110	E	1.0	0.36	ug/L	1		8260C	Total/NA
Vinyl chloride	5.1		1.0	0.26	ug/L	1		8260C	Total/NA
Acetone - DL	13	J B	100	9.0	ug/L	10		8260C	Total/NA
1,1-Dichloroethane - DL	11		10	3.6	ug/L	10		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-103I/250813 (Continued)
Lab Sample ID: 620-28577-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene - DL	5.4	J	10	3.4	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene - DL	100		10	3.0	ug/L	10		8260C	Total/NA
Trichloroethene - DL	83		10	3.6	ug/L	10		8260C	Total/NA
1,4-Dioxane	1.8		0.20	0.19	ug/L	1		8270D SIM ID	Total/NA
Chloride	6.14		1.50	0.60	mg/L	1		9056A	Total/NA
Nitrate as N	1.01		0.11	0.050	mg/L	1		9056A	Total/NA
Sulfate	16.5		1.50	0.50	mg/L	1		9056A	Total/NA
Calcium	64.7		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	10.3		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	2.6		1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	24.1		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	256		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Organic Carbon	2.9		1.0	0.50	mg/L	1		5310 C-2014	Total/NA
Total Inorganic Carbon	41.4		2.0	0.60	mg/L	1		5310 C-2014	Total/NA

Client Sample ID: MW-102B/250813
Lab Sample ID: 620-28577-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.8	J	10	0.90	ug/L	1		8260C	Total/NA
Benzene	0.85	J	1.0	0.25	ug/L	1		8260C	Total/NA
Chloroethane	4.6		2.0	0.41	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	2.1		1.0	0.36	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.71	J	1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	180	E	1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.8		1.0	0.19	ug/L	1		8260C	Total/NA
Toluene	0.62	J	1.0	0.28	ug/L	1		8260C	Total/NA
Trichloroethene	3.7		1.0	0.36	ug/L	1		8260C	Total/NA
Vinyl chloride	25		1.0	0.26	ug/L	1		8260C	Total/NA
Acetone - DL	12	J B	100	9.0	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene - DL	150		10	3.0	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	21		10	2.6	ug/L	10		8260C	Total/NA
1,4-Dioxane	53		2.0	1.9	ug/L	10		8270D SIM ID	Total/NA
Chloride	18.4		7.50	3.00	mg/L	5		9056A	Total/NA
Calcium	7.0		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	10.5		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	1.1		1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	57.1		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	184		8.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: MW-102IR/250813
Lab Sample ID: 620-28577-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.8	J B	10	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	0.70	J *	1.0	0.36	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	2.1		1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	150	E	1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.9		1.0	0.19	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.45	J	1.0	0.36	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	2.7		1.0	0.33	ug/L	1		8260C	Total/NA
Trichloroethene	290	E	1.0	0.36	ug/L	1		8260C	Total/NA
Vinyl chloride	17		1.0	0.26	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	120		10	3.0	ug/L	10		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-102IR/250813 (Continued)
Lab Sample ID: 620-28577-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene - DL	2.4	J	10	1.9	ug/L	10		8260C	Total/NA
Trichloroethene - DL	260		10	3.6	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	14		10	2.6	ug/L	10		8260C	Total/NA
1,4-Dioxane	15		0.20	0.19	ug/L	1		8270D SIM ID	Total/NA
Chloride	9.59		1.50	0.60	mg/L	1		9056A	Total/NA
Nitrate as N	2.26		0.11	0.050	mg/L	1		9056A	Total/NA
Sulfate	25.0		1.50	0.50	mg/L	1		9056A	Total/NA
Calcium	60.5		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	10.8		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	1.3		1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	40.8		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	262		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Organic Carbon	2.9		1.0	0.50	mg/L	1		5310 C-2014	Total/NA
Total Inorganic Carbon	38.1		2.0	0.60	mg/L	1		5310 C-2014	Total/NA

Client Sample ID: FB/250813
Lab Sample ID: 620-28577-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.3	J	10	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: TB/250813
Lab Sample ID: 620-28577-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.5	J	10	0.90	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28577-1
Project/Site: ESCO Steel Treaters Project

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET RI
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET RI
9056A	Anions, Ion Chromatography	SW846	ELLE
6010D	Metals (ICP)	SW846	EET RI
2320B-2011	Alkalinity, Total	SM	ELLE
5310 C-2014	Total Organic Carbon/Persulfate - Ultrav	SM	ELLE
3005A	Preparation, Total Metals	SW846	EET RI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET RI
5030C	Purge and Trap	SW846	EET RI
Filtration	Sample Filtration	None	EET RI

Protocol References:

None = None

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

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

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Client Sample ID: MW-17/250811
Lab Sample ID: 620-28577-1

Date Collected: 08/11/25 15:50
Matrix: Water

Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/18/25 15:06	1
Acetone	**4.5**	**J**	10	0.90	ug/L			08/18/25 15:06	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/18/25 15:06	1
Benzene	1.0	U	1.0	0.25	ug/L			08/18/25 15:06	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/18/25 15:06	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/18/25 15:06	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/18/25 15:06	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/18/25 15:06	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/18/25 15:06	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/18/25 15:06	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 15:06	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 15:06	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 15:06	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/18/25 15:06	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/18/25 15:06	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/18/25 15:06	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/18/25 15:06	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/18/25 15:06	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/18/25 15:06	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/18/25 15:06	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/18/25 15:06	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/18/25 15:06	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/18/25 15:06	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/18/25 15:06	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/18/25 15:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/18/25 15:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/18/25 15:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/18/25 15:06	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/18/25 15:06	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/18/25 15:06	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/18/25 15:06	1
1,1-Dichloroethene	**2.2**		1.0	0.34	ug/L			08/18/25 15:06	1
cis-1,2-Dichloroethene	**97**		1.0	0.30	ug/L			08/18/25 15:06	1
trans-1,2-Dichloroethene	**3.3**		1.0	0.19	ug/L			08/18/25 15:06	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/18/25 15:06	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/18/25 15:06	1
2,2-Dichloropropane	1.0	U *	1.0	0.49	ug/L			08/18/25 15:06	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/18/25 15:06	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/18/25 15:06	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/18/25 15:06	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 15:06	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/18/25 15:06	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/18/25 15:06	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/18/25 15:06	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/18/25 15:06	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 15:06	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/18/25 15:06	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/18/25 15:06	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/18/25 15:06	1

Client Sample ID: MW-17/250811
Lab Sample ID: 620-28577-1

Date Collected: 08/11/25 15:50
Matrix: Water

Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 15:06	1
Styrene	1.0	U	1.0	0.42	ug/L			08/18/25 15:06	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/18/25 15:06	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/18/25 15:06	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/18/25 15:06	1
Toluene	1.0	U	1.0	0.28	ug/L			08/18/25 15:06	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/18/25 15:06	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/18/25 15:06	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/18/25 15:06	1
1,1,1-Trichloroethane	**0.94**	**J ***	1.0	0.33	ug/L			08/18/25 15:06	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/18/25 15:06	1
Trichloroethene	**340**	**E**	1.0	0.36	ug/L			08/18/25 15:06	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/18/25 15:06	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/18/25 15:06	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/18/25 15:06	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 15:06	1
Vinyl chloride	**10**		1.0	0.26	ug/L			08/18/25 15:06	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/18/25 15:06	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/18/25 15:06	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/18/25 15:06	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/18/25 15:06	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 15:06	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/18/25 15:06	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 15:06	1
tert-Butanol	10	U	10	8.5	ug/L			08/18/25 15:06	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/18/25 15:06	1
Ethanol	200	U	200	9.1	ug/L			08/18/25 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/18/25 15:06*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/18/25 15:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*08/18/25 15:06*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*08/18/25 15:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	10	U *	10	2.0	ug/L			08/21/25 22:23	10
Acetone	100	U	100	9.0	ug/L			08/21/25 22:23	10
Acrylonitrile	10	U	10	3.6	ug/L			08/21/25 22:23	10
Benzene	10	U	10	2.5	ug/L			08/21/25 22:23	10
Bromobenzene	10	U	10	4.0	ug/L			08/21/25 22:23	10
Bromochloromethane	10	U	10	3.9	ug/L			08/21/25 22:23	10
Bromodichloromethane	5.0	U	5.0	3.3	ug/L			08/21/25 22:23	10
Bromoform	10	U	10	4.5	ug/L			08/21/25 22:23	10
Bromomethane	20	U	20	6.3	ug/L			08/21/25 22:23	10
2-Butanone (MEK)	20	U	20	5.8	ug/L			08/21/25 22:23	10
n-Butylbenzene	10	U	10	4.5	ug/L			08/21/25 22:23	10
sec-Butylbenzene	10	U	10	4.0	ug/L			08/21/25 22:23	10
tert-Butylbenzene	10	U	10	4.0	ug/L			08/21/25 22:23	10

Client Sample ID: MW-17/250811
Date Collected: 08/11/25 15:50
Date Received: 08/14/25 11:00

Lab Sample ID: 620-28577-1
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	20	U	20	4.4	ug/L			08/21/25 22:23	10
Carbon tetrachloride	10	U	10	2.5	ug/L			08/21/25 22:23	10
Chlorobenzene	10	U	10	4.2	ug/L			08/21/25 22:23	10
Chloroethane	20	U *	20	4.1	ug/L			08/21/25 22:23	10
Chloroform	10	U	10	3.0	ug/L			08/21/25 22:23	10
Chloromethane	20	U	20	4.9	ug/L			08/21/25 22:23	10
2-Chlorotoluene	10	U	10	4.3	ug/L			08/21/25 22:23	10
4-Chlorotoluene	10	U	10	4.2	ug/L			08/21/25 22:23	10
1,2-Dibromo-3-Chloropropane	20	U	20	5.1	ug/L			08/21/25 22:23	10
Dibromochloromethane	5.0	U	5.0	3.3	ug/L			08/21/25 22:23	10
1,2-Dibromoethane (EDB)	5.0	U	5.0	3.4	ug/L			08/21/25 22:23	10
Dibromomethane	10	U	10	3.6	ug/L			08/21/25 22:23	10
1,2-Dichlorobenzene	10	U	10	4.8	ug/L			08/21/25 22:23	10
1,3-Dichlorobenzene	10	U	10	5.0	ug/L			08/21/25 22:23	10
1,4-Dichlorobenzene	10	U	10	4.9	ug/L			08/21/25 22:23	10
Dichlorodifluoromethane (Freon 12)	20	U	20	2.9	ug/L			08/21/25 22:23	10
1,1-Dichloroethane	10	U	10	3.6	ug/L			08/21/25 22:23	10
1,2-Dichloroethane	10	U	10	2.6	ug/L			08/21/25 22:23	10
1,1-Dichloroethene	10	U	10	3.4	ug/L			08/21/25 22:23	10
cis-1,2-Dichloroethene	**60**		10	3.0	ug/L			08/21/25 22:23	10
trans-1,2-Dichloroethene	10	U	10	1.9	ug/L			08/21/25 22:23	10
1,2-Dichloropropane	10	U	10	3.6	ug/L			08/21/25 22:23	10
1,3-Dichloropropane	10	U	10	3.2	ug/L			08/21/25 22:23	10
2,2-Dichloropropane	10	U	10	4.9	ug/L			08/21/25 22:23	10
1,1-Dichloropropene	10	U	10	2.9	ug/L			08/21/25 22:23	10
cis-1,3-Dichloropropene	5.0	U	5.0	3.0	ug/L			08/21/25 22:23	10
trans-1,3-Dichloropropene	5.0	U	5.0	3.7	ug/L			08/21/25 22:23	10
Ethylbenzene	10	U	10	3.6	ug/L			08/21/25 22:23	10
Hexachlorobutadiene	10	U	10	2.4	ug/L			08/21/25 22:23	10
2-Hexanone (MBK)	20	U	20	6.9	ug/L			08/21/25 22:23	10
Isopropylbenzene	10	U	10	3.8	ug/L			08/21/25 22:23	10
4-Isopropyltoluene	10	U	10	4.3	ug/L			08/21/25 22:23	10
Methyl tert-butyl ether	10	U	10	2.6	ug/L			08/21/25 22:23	10
4-Methyl-2-pentanone (MIBK)	20	U	20	3.5	ug/L			08/21/25 22:23	10
Methylene Chloride	20	U	20	5.4	ug/L			08/21/25 22:23	10
Naphthalene	20	U	20	7.0	ug/L			08/21/25 22:23	10
N-Propylbenzene	10	U	10	3.6	ug/L			08/21/25 22:23	10
Styrene	10	U	10	4.2	ug/L			08/21/25 22:23	10
1,1,1,2-Tetrachloroethane	10	U	10	3.7	ug/L			08/21/25 22:23	10
1,1,2,2-Tetrachloroethane	5.0	U	5.0	4.6	ug/L			08/21/25 22:23	10
Tetrachloroethene	10	U	10	3.6	ug/L			08/21/25 22:23	10
Toluene	10	U	10	2.8	ug/L			08/21/25 22:23	10
1,2,3-Trichlorobenzene	10	U	10	7.4	ug/L			08/21/25 22:23	10
1,2,4-Trichlorobenzene	10	U	10	7.0	ug/L			08/21/25 22:23	10
1,3,5-Trichlorobenzene	10	U	10	5.4	ug/L			08/21/25 22:23	10
1,1,1-Trichloroethane	10	U	10	3.3	ug/L			08/21/25 22:23	10
1,1,2-Trichloroethane	10	U	10	3.5	ug/L			08/21/25 22:23	10
Trichloroethene	**220**		10	3.6	ug/L			08/21/25 22:23	10
Trichlorofluoromethane (Freon 11)	10	U *	10	2.3	ug/L			08/21/25 22:23	10

Client Sample ID: MW-17/250811
Lab Sample ID: 620-28577-1

Date Collected: 08/11/25 15:50
Matrix: Water
Date Received: 08/14/25 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	10	U	10	5.1	ug/L			08/21/25 22:23	10
1,2,4-Trimethylbenzene	10	U	10	4.6	ug/L			08/21/25 22:23	10
1,3,5-Trimethylbenzene	10	U	10	4.5	ug/L			08/21/25 22:23	10
Vinyl chloride	**6.7**	**J**	10	2.6	ug/L			08/21/25 22:23	10
m,p-Xylene	10	U	10	7.8	ug/L			08/21/25 22:23	10
o-Xylene	10	U	10	4.3	ug/L			08/21/25 22:23	10
Tetrahydrofuran	20	U	20	7.0	ug/L			08/21/25 22:23	10
Ethyl ether	10	U	10	4.2	ug/L			08/21/25 22:23	10
Tert-amyl methyl ether	10	U	10	2.6	ug/L			08/21/25 22:23	10
Ethyl tert-butyl ether	10	U	10	2.9	ug/L			08/21/25 22:23	10
di-Isopropyl ether	10	U	10	2.6	ug/L			08/21/25 22:23	10
tert-Butanol	100	U	100	85	ug/L			08/21/25 22:23	10
trans-1,4-Dichloro-2-butene	50	U	50	8.1	ug/L			08/21/25 22:23	10
Ethanol	2000	U	2000	91	ug/L			08/21/25 22:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/21/25 22:23*	*10*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/21/25 22:23*	*10*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/21/25 22:23*	*10*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*08/21/25 22:23*	*10*

Client Sample ID: MW-19/250813
Lab Sample ID: 620-28577-2

Date Collected: 08/13/25 10:35
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/21/25 01:15	1
Acetone	10	U	10	0.90	ug/L			08/21/25 01:15	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/21/25 01:15	1
Benzene	1.0	U	1.0	0.25	ug/L			08/21/25 01:15	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/21/25 01:15	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/21/25 01:15	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/21/25 01:15	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/21/25 01:15	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/21/25 01:15	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/21/25 01:15	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/21/25 01:15	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/21/25 01:15	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/21/25 01:15	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/21/25 01:15	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/21/25 01:15	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/21/25 01:15	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/21/25 01:15	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/21/25 01:15	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/21/25 01:15	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/21/25 01:15	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/21/25 01:15	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/21/25 01:15	1

Client Sample ID: MW-19/250813
Lab Sample ID: 620-28577-2

Date Collected: 08/13/25 10:35
Matrix: Water

Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/21/25 01:15	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/21/25 01:15	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/21/25 01:15	1
1,2-Dichlorobenzene	1.0	U *	1.0	0.48	ug/L			08/21/25 01:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/21/25 01:15	1
1,4-Dichlorobenzene	1.0	U *	1.0	0.49	ug/L			08/21/25 01:15	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/21/25 01:15	1
1,1-Dichloroethane	**5.3**	*	1.0	0.36	ug/L			08/21/25 01:15	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/21/25 01:15	1
1,1-Dichloroethene	**0.54**	J	1.0	0.34	ug/L			08/21/25 01:15	1
cis-1,2-Dichloroethene	**80**		1.0	0.30	ug/L			08/21/25 01:15	1
trans-1,2-Dichloroethene	**0.43**	J	1.0	0.19	ug/L			08/21/25 01:15	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/21/25 01:15	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/21/25 01:15	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/21/25 01:15	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/21/25 01:15	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/21/25 01:15	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/21/25 01:15	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/21/25 01:15	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/21/25 01:15	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/21/25 01:15	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/21/25 01:15	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/21/25 01:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 01:15	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/21/25 01:15	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/21/25 01:15	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/21/25 01:15	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/21/25 01:15	1
Styrene	1.0	U	1.0	0.42	ug/L			08/21/25 01:15	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/21/25 01:15	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/21/25 01:15	1
Tetrachloroethene	**5.2**		1.0	0.36	ug/L			08/21/25 01:15	1
Toluene	1.0	U *	1.0	0.28	ug/L			08/21/25 01:15	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/21/25 01:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/21/25 01:15	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/21/25 01:15	1
1,1,1-Trichloroethane	**41**		1.0	0.33	ug/L			08/21/25 01:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/21/25 01:15	1
Trichloroethene	**80**		1.0	0.36	ug/L			08/21/25 01:15	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/21/25 01:15	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/21/25 01:15	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/21/25 01:15	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/21/25 01:15	1
Vinyl chloride	**0.39**	J	1.0	0.26	ug/L			08/21/25 01:15	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/21/25 01:15	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/21/25 01:15	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/21/25 01:15	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/21/25 01:15	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 01:15	1

Client Sample ID: MW-19/250813
Lab Sample ID: 620-28577-2

Date Collected: 08/13/25 10:35
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/21/25 01:15	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 01:15	1
tert-Butanol	10	U	10	8.5	ug/L			08/21/25 01:15	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/21/25 01:15	1
Ethanol	200	U	200	9.1	ug/L			08/21/25 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/21/25 01:15*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/21/25 01:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*08/21/25 01:15*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*08/21/25 01:15*	*1*

Client Sample ID: MW-18/250813
Lab Sample ID: 620-28577-3

Date Collected: 08/13/25 11:40
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/18/25 15:52	1
Acetone	**4.7**	**J**	10	0.90	ug/L			08/18/25 15:52	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/18/25 15:52	1
Benzene	1.0	U	1.0	0.25	ug/L			08/18/25 15:52	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/18/25 15:52	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/18/25 15:52	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/18/25 15:52	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/18/25 15:52	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/18/25 15:52	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/18/25 15:52	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 15:52	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 15:52	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 15:52	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/18/25 15:52	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/18/25 15:52	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/18/25 15:52	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/18/25 15:52	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/18/25 15:52	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/18/25 15:52	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/18/25 15:52	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/18/25 15:52	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/18/25 15:52	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/18/25 15:52	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/18/25 15:52	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/18/25 15:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/18/25 15:52	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/18/25 15:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/18/25 15:52	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/18/25 15:52	1
1,1-Dichloroethane	**13**		1.0	0.36	ug/L			08/18/25 15:52	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/18/25 15:52	1

Client Sample ID: MW-18/250813
Lab Sample ID: 620-28577-3

Date Collected: 08/13/25 11:40
Matrix: Water

Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**23**		1.0	0.34	ug/L			08/18/25 15:52	1
cis-1,2-Dichloroethene	**95**		1.0	0.30	ug/L			08/18/25 15:52	1
trans-1,2-Dichloroethene	**1.0**		1.0	0.19	ug/L			08/18/25 15:52	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/18/25 15:52	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/18/25 15:52	1
2,2-Dichloropropane	1.0	U *	1.0	0.49	ug/L			08/18/25 15:52	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/18/25 15:52	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/18/25 15:52	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/18/25 15:52	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 15:52	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/18/25 15:52	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/18/25 15:52	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/18/25 15:52	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/18/25 15:52	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 15:52	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/18/25 15:52	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/18/25 15:52	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/18/25 15:52	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 15:52	1
Styrene	1.0	U	1.0	0.42	ug/L			08/18/25 15:52	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/18/25 15:52	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/18/25 15:52	1
Tetrachloroethene	**45**		1.0	0.36	ug/L			08/18/25 15:52	1
Toluene	1.0	U	1.0	0.28	ug/L			08/18/25 15:52	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/18/25 15:52	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/18/25 15:52	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/18/25 15:52	1
1,1,1-Trichloroethane	**520**	* E	1.0	0.33	ug/L			08/18/25 15:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/18/25 15:52	1
Trichloroethene	**2500**	E	1.0	0.36	ug/L			08/18/25 15:52	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/18/25 15:52	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/18/25 15:52	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/18/25 15:52	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 15:52	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/18/25 15:52	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/18/25 15:52	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/18/25 15:52	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/18/25 15:52	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/18/25 15:52	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 15:52	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/18/25 15:52	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 15:52	1
tert-Butanol	10	U	10	8.5	ug/L			08/18/25 15:52	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/18/25 15:52	1
Ethanol	200	U	200	9.1	ug/L			08/18/25 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/18/25 15:52*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/18/25 15:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*08/18/25 15:52*	*1*

Client Sample ID: MW-18/250813
Lab Sample ID: 620-28577-3

Date Collected: 08/13/25 11:40
Matrix: Water
Date Received: 08/14/25 11:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/18/25 15:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	50	U *	50	10	ug/L			08/21/25 22:50	50
Acetone	500	U	500	45	ug/L			08/21/25 22:50	50
Acrylonitrile	50	U	50	18	ug/L			08/21/25 22:50	50
Benzene	50	U	50	13	ug/L			08/21/25 22:50	50
Bromobenzene	50	U	50	20	ug/L			08/21/25 22:50	50
Bromochloromethane	50	U	50	20	ug/L			08/21/25 22:50	50
Bromodichloromethane	25	U	25	17	ug/L			08/21/25 22:50	50
Bromoform	50	U	50	23	ug/L			08/21/25 22:50	50
Bromomethane	100	U	100	31	ug/L			08/21/25 22:50	50
2-Butanone (MEK)	100	U	100	29	ug/L			08/21/25 22:50	50
n-Butylbenzene	50	U	50	23	ug/L			08/21/25 22:50	50
sec-Butylbenzene	50	U	50	20	ug/L			08/21/25 22:50	50
tert-Butylbenzene	50	U	50	20	ug/L			08/21/25 22:50	50
Carbon disulfide	100	U	100	22	ug/L			08/21/25 22:50	50
Carbon tetrachloride	50	U	50	12	ug/L			08/21/25 22:50	50
Chlorobenzene	50	U	50	21	ug/L			08/21/25 22:50	50
Chloroethane	100	U *	100	20	ug/L			08/21/25 22:50	50
Chloroform	50	U	50	15	ug/L			08/21/25 22:50	50
Chloromethane	100	U	100	24	ug/L			08/21/25 22:50	50
2-Chlorotoluene	50	U	50	21	ug/L			08/21/25 22:50	50
4-Chlorotoluene	50	U	50	21	ug/L			08/21/25 22:50	50
1,2-Dibromo-3-Chloropropane	100	U	100	26	ug/L			08/21/25 22:50	50
Dibromochloromethane	25	U	25	16	ug/L			08/21/25 22:50	50
1,2-Dibromoethane (EDB)	25	U	25	17	ug/L			08/21/25 22:50	50
Dibromomethane	50	U	50	18	ug/L			08/21/25 22:50	50
1,2-Dichlorobenzene	50	U	50	24	ug/L			08/21/25 22:50	50
1,3-Dichlorobenzene	50	U	50	25	ug/L			08/21/25 22:50	50
1,4-Dichlorobenzene	50	U	50	24	ug/L			08/21/25 22:50	50
Dichlorodifluoromethane (Freon 12)	100	U	100	14	ug/L			08/21/25 22:50	50
1,1-Dichloroethane	50	U	50	18	ug/L			08/21/25 22:50	50
1,2-Dichloroethane	50	U	50	13	ug/L			08/21/25 22:50	50
1,1-Dichloroethene	50	U	50	17	ug/L			08/21/25 22:50	50
cis-1,2-Dichloroethene	**63**		50	15	ug/L			08/21/25 22:50	50
trans-1,2-Dichloroethene	50	U	50	9.4	ug/L			08/21/25 22:50	50
1,2-Dichloropropane	50	U	50	18	ug/L			08/21/25 22:50	50
1,3-Dichloropropane	50	U	50	16	ug/L			08/21/25 22:50	50
2,2-Dichloropropane	50	U	50	24	ug/L			08/21/25 22:50	50
1,1-Dichloropropene	50	U	50	14	ug/L			08/21/25 22:50	50
cis-1,3-Dichloropropene	25	U	25	15	ug/L			08/21/25 22:50	50
trans-1,3-Dichloropropene	25	U	25	19	ug/L			08/21/25 22:50	50
Ethylbenzene	50	U	50	18	ug/L			08/21/25 22:50	50
Hexachlorobutadiene	50	U	50	12	ug/L			08/21/25 22:50	50
2-Hexanone (MBK)	100	U	100	34	ug/L			08/21/25 22:50	50
Isopropylbenzene	50	U	50	19	ug/L			08/21/25 22:50	50

Client Sample ID: MW-18/250813
Lab Sample ID: 620-28577-3

Date Collected: 08/13/25 11:40
Matrix: Water
Date Received: 08/14/25 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	50	U	50	21	ug/L			08/21/25 22:50	50
Methyl tert-butyl ether	50	U	50	13	ug/L			08/21/25 22:50	50
4-Methyl-2-pentanone (MIBK)	100	U	100	17	ug/L			08/21/25 22:50	50
Methylene Chloride	100	U	100	27	ug/L			08/21/25 22:50	50
Naphthalene	100	U	100	35	ug/L			08/21/25 22:50	50
N-Propylbenzene	50	U	50	18	ug/L			08/21/25 22:50	50
Styrene	50	U	50	21	ug/L			08/21/25 22:50	50
1,1,1,2-Tetrachloroethane	50	U	50	18	ug/L			08/21/25 22:50	50
1,1,2,2-Tetrachloroethane	25	U	25	23	ug/L			08/21/25 22:50	50
Tetrachloroethene	**35**	**J**	50	18	ug/L			08/21/25 22:50	50
Toluene	50	U	50	14	ug/L			08/21/25 22:50	50
1,2,3-Trichlorobenzene	50	U	50	37	ug/L			08/21/25 22:50	50
1,2,4-Trichlorobenzene	50	U	50	35	ug/L			08/21/25 22:50	50
1,3,5-Trichlorobenzene	50	U	50	27	ug/L			08/21/25 22:50	50
1,1,1-Trichloroethane	**330**		50	17	ug/L			08/21/25 22:50	50
1,1,2-Trichloroethane	50	U	50	18	ug/L			08/21/25 22:50	50
Trichloroethene	**1700**		50	18	ug/L			08/21/25 22:50	50
Trichlorofluoromethane (Freon 11)	50	U *	50	11	ug/L			08/21/25 22:50	50
1,2,3-Trichloropropane	50	U	50	26	ug/L			08/21/25 22:50	50
1,2,4-Trimethylbenzene	50	U	50	23	ug/L			08/21/25 22:50	50
1,3,5-Trimethylbenzene	50	U	50	22	ug/L			08/21/25 22:50	50
Vinyl chloride	50	U	50	13	ug/L			08/21/25 22:50	50
m,p-Xylene	50	U	50	39	ug/L			08/21/25 22:50	50
o-Xylene	50	U	50	21	ug/L			08/21/25 22:50	50
Tetrahydrofuran	100	U	100	35	ug/L			08/21/25 22:50	50
Ethyl ether	50	U	50	21	ug/L			08/21/25 22:50	50
Tert-amyl methyl ether	50	U	50	13	ug/L			08/21/25 22:50	50
Ethyl tert-butyl ether	50	U	50	15	ug/L			08/21/25 22:50	50
di-Isopropyl ether	50	U	50	13	ug/L			08/21/25 22:50	50
tert-Butanol	500	U	500	430	ug/L			08/21/25 22:50	50
trans-1,4-Dichloro-2-butene	250	U	250	40	ug/L			08/21/25 22:50	50
Ethanol	10000	U	10000	450	ug/L			08/21/25 22:50	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/21/25 22:50*	*50*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/21/25 22:50*	*50*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/21/25 22:50*	*50*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*08/21/25 22:50*	*50*

Client Sample ID: MW-103I/250813
Lab Sample ID: 620-28577-4

Date Collected: 08/13/25 12:35
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/18/25 16:15	1
Acetone	**4.4**	**J**	10	0.90	ug/L			08/18/25 16:15	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/18/25 16:15	1
Benzene	1.0	U	1.0	0.25	ug/L			08/18/25 16:15	1

Client Sample ID: MW-103I/250813
Lab Sample ID: 620-28577-4

Date Collected: 08/13/25 12:35
Matrix: Water

Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/18/25 16:15	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/18/25 16:15	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/18/25 16:15	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/18/25 16:15	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/18/25 16:15	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/18/25 16:15	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 16:15	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 16:15	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 16:15	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/18/25 16:15	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/18/25 16:15	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/18/25 16:15	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/18/25 16:15	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/18/25 16:15	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/18/25 16:15	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/18/25 16:15	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/18/25 16:15	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/18/25 16:15	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/18/25 16:15	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/18/25 16:15	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/18/25 16:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/18/25 16:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/18/25 16:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/18/25 16:15	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/18/25 16:15	1
1,1-Dichloroethane	**13**		1.0	0.36	ug/L			08/18/25 16:15	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/18/25 16:15	1
1,1-Dichloroethene	**6.5**		1.0	0.34	ug/L			08/18/25 16:15	1
cis-1,2-Dichloroethene	**130**	**E**	1.0	0.30	ug/L			08/18/25 16:15	1
trans-1,2-Dichloroethene	**0.74**	**J**	1.0	0.19	ug/L			08/18/25 16:15	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/18/25 16:15	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/18/25 16:15	1
2,2-Dichloropropane	1.0	U *	1.0	0.49	ug/L			08/18/25 16:15	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/18/25 16:15	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/18/25 16:15	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/18/25 16:15	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 16:15	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/18/25 16:15	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/18/25 16:15	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/18/25 16:15	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/18/25 16:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 16:15	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/18/25 16:15	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/18/25 16:15	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/18/25 16:15	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 16:15	1
Styrene	1.0	U	1.0	0.42	ug/L			08/18/25 16:15	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/18/25 16:15	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/18/25 16:15	1

Client Sample ID: MW-103I/250813
Lab Sample ID: 620-28577-4

Date Collected: 08/13/25 12:35
Matrix: Water

Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**1.3**		1.0	0.36	ug/L			08/18/25 16:15	1
Toluene	1.0	U	1.0	0.28	ug/L			08/18/25 16:15	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/18/25 16:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/18/25 16:15	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/18/25 16:15	1
1,1,1-Trichloroethane	1.0	U *	1.0	0.33	ug/L			08/18/25 16:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/18/25 16:15	1
Trichloroethene	**110**	**E**	1.0	0.36	ug/L			08/18/25 16:15	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/18/25 16:15	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/18/25 16:15	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/18/25 16:15	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 16:15	1
Vinyl chloride	**5.1**		1.0	0.26	ug/L			08/18/25 16:15	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/18/25 16:15	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/18/25 16:15	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/18/25 16:15	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/18/25 16:15	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 16:15	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/18/25 16:15	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 16:15	1
tert-Butanol	10	U	10	8.5	ug/L			08/18/25 16:15	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/18/25 16:15	1
Ethanol	200	U	200	9.1	ug/L			08/18/25 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/18/25 16:15*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/18/25 16:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*08/18/25 16:15*	*1*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*08/18/25 16:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	10	U	10	2.0	ug/L			08/19/25 16:45	10
Acetone	**13**	**J B**	100	9.0	ug/L			08/19/25 16:45	10
Acrylonitrile	10	U	10	3.6	ug/L			08/19/25 16:45	10
Benzene	10	U	10	2.5	ug/L			08/19/25 16:45	10
Bromobenzene	10	U	10	4.0	ug/L			08/19/25 16:45	10
Bromochloromethane	10	U	10	3.9	ug/L			08/19/25 16:45	10
Bromodichloromethane	5.0	U *	5.0	3.3	ug/L			08/19/25 16:45	10
Bromoform	10	U	10	4.5	ug/L			08/19/25 16:45	10
Bromomethane	20	U	20	6.3	ug/L			08/19/25 16:45	10
2-Butanone (MEK)	20	U	20	5.8	ug/L			08/19/25 16:45	10
n-Butylbenzene	10	U	10	4.5	ug/L			08/19/25 16:45	10
sec-Butylbenzene	10	U	10	4.0	ug/L			08/19/25 16:45	10
tert-Butylbenzene	10	U	10	4.0	ug/L			08/19/25 16:45	10
Carbon disulfide	20	U	20	4.4	ug/L			08/19/25 16:45	10
Carbon tetrachloride	10	U *	10	2.5	ug/L			08/19/25 16:45	10
Chlorobenzene	10	U	10	4.2	ug/L			08/19/25 16:45	10
Chloroethane	20	U	20	4.1	ug/L			08/19/25 16:45	10

Client Sample ID: MW-103I/250813
Lab Sample ID: 620-28577-4

Date Collected: 08/13/25 12:35
Matrix: Water

Date Received: 08/14/25 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	10	U	10	3.0	ug/L			08/19/25 16:45	10
Chloromethane	20	U	20	4.9	ug/L			08/19/25 16:45	10
2-Chlorotoluene	10	U	10	4.3	ug/L			08/19/25 16:45	10
4-Chlorotoluene	10	U	10	4.2	ug/L			08/19/25 16:45	10
1,2-Dibromo-3-Chloropropane	20	U	20	5.1	ug/L			08/19/25 16:45	10
Dibromochloromethane	5.0	U	5.0	3.3	ug/L			08/19/25 16:45	10
1,2-Dibromoethane (EDB)	5.0	U	5.0	3.4	ug/L			08/19/25 16:45	10
Dibromomethane	10	U	10	3.6	ug/L			08/19/25 16:45	10
1,2-Dichlorobenzene	10	U	10	4.8	ug/L			08/19/25 16:45	10
1,3-Dichlorobenzene	10	U	10	5.0	ug/L			08/19/25 16:45	10
1,4-Dichlorobenzene	10	U	10	4.9	ug/L			08/19/25 16:45	10
Dichlorodifluoromethane (Freon 12)	20	U	20	2.9	ug/L			08/19/25 16:45	10
1,1-Dichloroethane	**11**		10	3.6	ug/L			08/19/25 16:45	10
1,2-Dichloroethane	10	U	10	2.6	ug/L			08/19/25 16:45	10
1,1-Dichloroethene	**5.4**	**J**	10	3.4	ug/L			08/19/25 16:45	10
cis-1,2-Dichloroethene	**100**		10	3.0	ug/L			08/19/25 16:45	10
trans-1,2-Dichloroethene	10	U	10	1.9	ug/L			08/19/25 16:45	10
1,2-Dichloropropane	10	U	10	3.6	ug/L			08/19/25 16:45	10
1,3-Dichloropropane	10	U	10	3.2	ug/L			08/19/25 16:45	10
2,2-Dichloropropane	10	U	10	4.9	ug/L			08/19/25 16:45	10
1,1-Dichloropropene	10	U	10	2.9	ug/L			08/19/25 16:45	10
cis-1,3-Dichloropropene	5.0	U	5.0	3.0	ug/L			08/19/25 16:45	10
trans-1,3-Dichloropropene	5.0	U	5.0	3.7	ug/L			08/19/25 16:45	10
Ethylbenzene	10	U	10	3.6	ug/L			08/19/25 16:45	10
Hexachlorobutadiene	10	U	10	2.4	ug/L			08/19/25 16:45	10
2-Hexanone (MBK)	20	U	20	6.9	ug/L			08/19/25 16:45	10
Isopropylbenzene	10	U	10	3.8	ug/L			08/19/25 16:45	10
4-Isopropyltoluene	10	U	10	4.3	ug/L			08/19/25 16:45	10
Methyl tert-butyl ether	10	U	10	2.6	ug/L			08/19/25 16:45	10
4-Methyl-2-pentanone (MIBK)	20	U	20	3.5	ug/L			08/19/25 16:45	10
Methylene Chloride	20	U	20	5.4	ug/L			08/19/25 16:45	10
Naphthalene	20	U	20	7.0	ug/L			08/19/25 16:45	10
N-Propylbenzene	10	U	10	3.6	ug/L			08/19/25 16:45	10
Styrene	10	U	10	4.2	ug/L			08/19/25 16:45	10
1,1,1,2-Tetrachloroethane	10	U	10	3.7	ug/L			08/19/25 16:45	10
1,1,2,2-Tetrachloroethane	5.0	U	5.0	4.6	ug/L			08/19/25 16:45	10
Tetrachloroethene	10	U	10	3.6	ug/L			08/19/25 16:45	10
Toluene	10	U	10	2.8	ug/L			08/19/25 16:45	10
1,2,3-Trichlorobenzene	10	U	10	7.4	ug/L			08/19/25 16:45	10
1,2,4-Trichlorobenzene	10	U	10	7.0	ug/L			08/19/25 16:45	10
1,3,5-Trichlorobenzene	10	U	10	5.4	ug/L			08/19/25 16:45	10
1,1,1-Trichloroethane	10	U *	10	3.3	ug/L			08/19/25 16:45	10
1,1,2-Trichloroethane	10	U	10	3.5	ug/L			08/19/25 16:45	10
Trichloroethene	**83**		10	3.6	ug/L			08/19/25 16:45	10
Trichlorofluoromethane (Freon 11)	10	U	10	2.3	ug/L			08/19/25 16:45	10
1,2,3-Trichloropropane	10	U	10	5.1	ug/L			08/19/25 16:45	10
1,2,4-Trimethylbenzene	10	U	10	4.6	ug/L			08/19/25 16:45	10
1,3,5-Trimethylbenzene	10	U	10	4.5	ug/L			08/19/25 16:45	10
Vinyl chloride	10	U	10	2.6	ug/L			08/19/25 16:45	10

Client Sample ID: MW-103I/250813
Lab Sample ID: 620-28577-4

Date Collected: 08/13/25 12:35
Matrix: Water
Date Received: 08/14/25 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	10	U	10	7.8	ug/L			08/19/25 16:45	10
o-Xylene	10	U	10	4.3	ug/L			08/19/25 16:45	10
Tetrahydrofuran	20	U	20	7.0	ug/L			08/19/25 16:45	10
Ethyl ether	10	U	10	4.2	ug/L			08/19/25 16:45	10
Tert-amyl methyl ether	10	U	10	2.6	ug/L			08/19/25 16:45	10
Ethyl tert-butyl ether	10	U	10	2.9	ug/L			08/19/25 16:45	10
di-Isopropyl ether	10	U	10	2.6	ug/L			08/19/25 16:45	10
tert-Butanol	100	U	100	85	ug/L			08/19/25 16:45	10
trans-1,4-Dichloro-2-butene	50	U	50	8.1	ug/L			08/19/25 16:45	10
Ethanol	2000	U	2000	91	ug/L			08/19/25 16:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*08/19/25 16:45*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/19/25 16:45*	*10*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*08/19/25 16:45*	*10*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/19/25 16:45*	*10*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.8**		0.20	0.19	ug/L		08/18/25 18:42	08/20/25 15:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*9*	*	*10 - 150*	*08/18/25 18:42*	*08/20/25 15:09*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.14**		1.50	0.60	mg/L			08/15/25 10:10	1
Nitrate as N	**1.01**		0.11	0.050	mg/L			08/15/25 10:10	1
Sulfate	**16.5**		1.50	0.50	mg/L			08/15/25 10:10	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**64.7**		0.50	0.19	mg/L		08/14/25 15:34	08/15/25 12:42	1
Magnesium	**10.3**		0.040	0.038	mg/L		08/14/25 15:34	08/15/25 12:42	1
Potassium	**2.6**		1.0	0.34	mg/L		08/14/25 15:34	08/15/25 12:42	1
Sodium	**24.1**		1.5	0.28	mg/L		08/14/25 15:34	08/15/25 12:42	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/14/25 15:34	08/15/25 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	**256**		8.0	2.6	mg/L			08/20/25 06:44	1
Total Organic Carbon (SM 5310 C-2014)	**2.9**		1.0	0.50	mg/L			08/20/25 05:35	1
Total Inorganic Carbon (SM 5310 C-2014)	**41.4**		2.0	0.60	mg/L			08/20/25 05:35	1

Client Sample ID: MW-102B/250813
Lab Sample ID: 620-28577-5

Date Collected: 08/13/25 15:10
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/18/25 16:37	1
Acetone	**7.8**	**J**	10	0.90	ug/L			08/18/25 16:37	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/18/25 16:37	1
Benzene	**0.85**	**J**	1.0	0.25	ug/L			08/18/25 16:37	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/18/25 16:37	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/18/25 16:37	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/18/25 16:37	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/18/25 16:37	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/18/25 16:37	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/18/25 16:37	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 16:37	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 16:37	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 16:37	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/18/25 16:37	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/18/25 16:37	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/18/25 16:37	1
Chloroethane	**4.6**		2.0	0.41	ug/L			08/18/25 16:37	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/18/25 16:37	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/18/25 16:37	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/18/25 16:37	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/18/25 16:37	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/18/25 16:37	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/18/25 16:37	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/18/25 16:37	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/18/25 16:37	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/18/25 16:37	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/18/25 16:37	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/18/25 16:37	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/18/25 16:37	1
1,1-Dichloroethane	**2.1**		1.0	0.36	ug/L			08/18/25 16:37	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/18/25 16:37	1
1,1-Dichloroethene	**0.71**	**J**	1.0	0.34	ug/L			08/18/25 16:37	1
cis-1,2-Dichloroethene	**180**	**E**	1.0	0.30	ug/L			08/18/25 16:37	1
trans-1,2-Dichloroethene	**1.8**		1.0	0.19	ug/L			08/18/25 16:37	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/18/25 16:37	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/18/25 16:37	1
2,2-Dichloropropane	1.0	U *	1.0	0.49	ug/L			08/18/25 16:37	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/18/25 16:37	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/18/25 16:37	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/18/25 16:37	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 16:37	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/18/25 16:37	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/18/25 16:37	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/18/25 16:37	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/18/25 16:37	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 16:37	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/18/25 16:37	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/18/25 16:37	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/18/25 16:37	1

Client Sample ID: MW-102B/250813
Lab Sample ID: 620-28577-5

Date Collected: 08/13/25 15:10
Matrix: Water

Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 16:37	1
Styrene	1.0	U	1.0	0.42	ug/L			08/18/25 16:37	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/18/25 16:37	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/18/25 16:37	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/18/25 16:37	1
Toluene	**0.62**	**J**	1.0	0.28	ug/L			08/18/25 16:37	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/18/25 16:37	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/18/25 16:37	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/18/25 16:37	1
1,1,1-Trichloroethane	1.0	U *	1.0	0.33	ug/L			08/18/25 16:37	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/18/25 16:37	1
Trichloroethene	**3.7**		1.0	0.36	ug/L			08/18/25 16:37	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/18/25 16:37	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/18/25 16:37	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/18/25 16:37	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 16:37	1
Vinyl chloride	**25**		1.0	0.26	ug/L			08/18/25 16:37	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/18/25 16:37	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/18/25 16:37	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/18/25 16:37	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/18/25 16:37	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 16:37	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/18/25 16:37	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 16:37	1
tert-Butanol	10	U	10	8.5	ug/L			08/18/25 16:37	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/18/25 16:37	1
Ethanol	200	U	200	9.1	ug/L			08/18/25 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/18/25 16:37*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/18/25 16:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*08/18/25 16:37*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*08/18/25 16:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	10	U	10	2.0	ug/L			08/19/25 17:08	10
Acetone	**12**	**J B**	100	9.0	ug/L			08/19/25 17:08	10
Acrylonitrile	10	U	10	3.6	ug/L			08/19/25 17:08	10
Benzene	10	U	10	2.5	ug/L			08/19/25 17:08	10
Bromobenzene	10	U	10	4.0	ug/L			08/19/25 17:08	10
Bromochloromethane	10	U	10	3.9	ug/L			08/19/25 17:08	10
Bromodichloromethane	5.0	U *	5.0	3.3	ug/L			08/19/25 17:08	10
Bromoform	10	U	10	4.5	ug/L			08/19/25 17:08	10
Bromomethane	20	U	20	6.3	ug/L			08/19/25 17:08	10
2-Butanone (MEK)	20	U	20	5.8	ug/L			08/19/25 17:08	10
n-Butylbenzene	10	U	10	4.5	ug/L			08/19/25 17:08	10
sec-Butylbenzene	10	U	10	4.0	ug/L			08/19/25 17:08	10
tert-Butylbenzene	10	U	10	4.0	ug/L			08/19/25 17:08	10

Client Sample ID: MW-102B/250813
Lab Sample ID: 620-28577-5

Date Collected: 08/13/25 15:10
Matrix: Water
Date Received: 08/14/25 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	20	U	20	4.4	ug/L			08/19/25 17:08	10
Carbon tetrachloride	10	U *	10	2.5	ug/L			08/19/25 17:08	10
Chlorobenzene	10	U	10	4.2	ug/L			08/19/25 17:08	10
Chloroethane	20	U	20	4.1	ug/L			08/19/25 17:08	10
Chloroform	10	U	10	3.0	ug/L			08/19/25 17:08	10
Chloromethane	20	U	20	4.9	ug/L			08/19/25 17:08	10
2-Chlorotoluene	10	U	10	4.3	ug/L			08/19/25 17:08	10
4-Chlorotoluene	10	U	10	4.2	ug/L			08/19/25 17:08	10
1,2-Dibromo-3-Chloropropane	20	U	20	5.1	ug/L			08/19/25 17:08	10
Dibromochloromethane	5.0	U	5.0	3.3	ug/L			08/19/25 17:08	10
1,2-Dibromoethane (EDB)	5.0	U	5.0	3.4	ug/L			08/19/25 17:08	10
Dibromomethane	10	U	10	3.6	ug/L			08/19/25 17:08	10
1,2-Dichlorobenzene	10	U	10	4.8	ug/L			08/19/25 17:08	10
1,3-Dichlorobenzene	10	U	10	5.0	ug/L			08/19/25 17:08	10
1,4-Dichlorobenzene	10	U	10	4.9	ug/L			08/19/25 17:08	10
Dichlorodifluoromethane (Freon 12)	20	U	20	2.9	ug/L			08/19/25 17:08	10
1,1-Dichloroethane	10	U	10	3.6	ug/L			08/19/25 17:08	10
1,2-Dichloroethane	10	U	10	2.6	ug/L			08/19/25 17:08	10
1,1-Dichloroethene	10	U	10	3.4	ug/L			08/19/25 17:08	10
cis-1,2-Dichloroethene	**150**		10	3.0	ug/L			08/19/25 17:08	10
trans-1,2-Dichloroethene	10	U	10	1.9	ug/L			08/19/25 17:08	10
1,2-Dichloropropane	10	U	10	3.6	ug/L			08/19/25 17:08	10
1,3-Dichloropropane	10	U	10	3.2	ug/L			08/19/25 17:08	10
2,2-Dichloropropane	10	U	10	4.9	ug/L			08/19/25 17:08	10
1,1-Dichloropropene	10	U	10	2.9	ug/L			08/19/25 17:08	10
cis-1,3-Dichloropropene	5.0	U	5.0	3.0	ug/L			08/19/25 17:08	10
trans-1,3-Dichloropropene	5.0	U	5.0	3.7	ug/L			08/19/25 17:08	10
Ethylbenzene	10	U	10	3.6	ug/L			08/19/25 17:08	10
Hexachlorobutadiene	10	U	10	2.4	ug/L			08/19/25 17:08	10
2-Hexanone (MBK)	20	U	20	6.9	ug/L			08/19/25 17:08	10
Isopropylbenzene	10	U	10	3.8	ug/L			08/19/25 17:08	10
4-Isopropyltoluene	10	U	10	4.3	ug/L			08/19/25 17:08	10
Methyl tert-butyl ether	10	U	10	2.6	ug/L			08/19/25 17:08	10
4-Methyl-2-pentanone (MIBK)	20	U	20	3.5	ug/L			08/19/25 17:08	10
Methylene Chloride	20	U	20	5.4	ug/L			08/19/25 17:08	10
Naphthalene	20	U	20	7.0	ug/L			08/19/25 17:08	10
N-Propylbenzene	10	U	10	3.6	ug/L			08/19/25 17:08	10
Styrene	10	U	10	4.2	ug/L			08/19/25 17:08	10
1,1,1,2-Tetrachloroethane	10	U	10	3.7	ug/L			08/19/25 17:08	10
1,1,2,2-Tetrachloroethane	5.0	U	5.0	4.6	ug/L			08/19/25 17:08	10
Tetrachloroethene	10	U	10	3.6	ug/L			08/19/25 17:08	10
Toluene	10	U	10	2.8	ug/L			08/19/25 17:08	10
1,2,3-Trichlorobenzene	10	U	10	7.4	ug/L			08/19/25 17:08	10
1,2,4-Trichlorobenzene	10	U	10	7.0	ug/L			08/19/25 17:08	10
1,3,5-Trichlorobenzene	10	U	10	5.4	ug/L			08/19/25 17:08	10
1,1,1-Trichloroethane	10	U *	10	3.3	ug/L			08/19/25 17:08	10
1,1,2-Trichloroethane	10	U	10	3.5	ug/L			08/19/25 17:08	10
Trichloroethene	10	U	10	3.6	ug/L			08/19/25 17:08	10
Trichlorofluoromethane (Freon 11)	10	U	10	2.3	ug/L			08/19/25 17:08	10

Client Sample ID: MW-102B/250813
Lab Sample ID: 620-28577-5

Date Collected: 08/13/25 15:10
Matrix: Water
Date Received: 08/14/25 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	10	U	10	5.1	ug/L			08/19/25 17:08	10
1,2,4-Trimethylbenzene	10	U	10	4.6	ug/L			08/19/25 17:08	10
1,3,5-Trimethylbenzene	10	U	10	4.5	ug/L			08/19/25 17:08	10
Vinyl chloride	**21**		10	2.6	ug/L			08/19/25 17:08	10
m,p-Xylene	10	U	10	7.8	ug/L			08/19/25 17:08	10
o-Xylene	10	U	10	4.3	ug/L			08/19/25 17:08	10
Tetrahydrofuran	20	U	20	7.0	ug/L			08/19/25 17:08	10
Ethyl ether	10	U	10	4.2	ug/L			08/19/25 17:08	10
Tert-amyl methyl ether	10	U	10	2.6	ug/L			08/19/25 17:08	10
Ethyl tert-butyl ether	10	U	10	2.9	ug/L			08/19/25 17:08	10
di-Isopropyl ether	10	U	10	2.6	ug/L			08/19/25 17:08	10
tert-Butanol	100	U	100	85	ug/L			08/19/25 17:08	10
trans-1,4-Dichloro-2-butene	50	U	50	8.1	ug/L			08/19/25 17:08	10
Ethanol	2000	U	2000	91	ug/L			08/19/25 17:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/19/25 17:08*	*10*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/19/25 17:08*	*10*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/19/25 17:08*	*10*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/19/25 17:08*	*10*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**53**		2.0	1.9	ug/L		08/18/25 18:42	08/20/25 16:36	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*11*		*10 - 150*	*08/18/25 18:42*	*08/20/25 16:36*	*10*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.4**		7.50	3.00	mg/L			08/15/25 22:53	5
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/15/25 10:26	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/15/25 10:26	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**7.0**		0.50	0.19	mg/L		08/14/25 15:34	08/15/25 12:48	1
Magnesium	**10.5**		0.040	0.038	mg/L		08/14/25 15:34	08/15/25 12:48	1
Potassium	**1.1**		1.0	0.34	mg/L		08/14/25 15:34	08/15/25 12:48	1
Sodium	**57.1**		1.5	0.28	mg/L		08/14/25 15:34	08/15/25 12:48	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/14/25 15:34	08/15/25 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	**184**		8.0	2.6	mg/L			08/20/25 06:51	1

Client Sample ID: MW-102IR/250813
Lab Sample ID: 620-28577-6

Date Collected: 08/13/25 15:30
Matrix: Water

Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/21/25 01:42	1
Acetone	**4.8**	**J B**	10	0.90	ug/L			08/21/25 01:42	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/21/25 01:42	1
Benzene	1.0	U	1.0	0.25	ug/L			08/21/25 01:42	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/21/25 01:42	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/21/25 01:42	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/21/25 01:42	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/21/25 01:42	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/21/25 01:42	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/21/25 01:42	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/21/25 01:42	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/21/25 01:42	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/21/25 01:42	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/21/25 01:42	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/21/25 01:42	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/21/25 01:42	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/21/25 01:42	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/21/25 01:42	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/21/25 01:42	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/21/25 01:42	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/21/25 01:42	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/21/25 01:42	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/21/25 01:42	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/21/25 01:42	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/21/25 01:42	1
1,2-Dichlorobenzene	1.0	U *	1.0	0.48	ug/L			08/21/25 01:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/21/25 01:42	1
1,4-Dichlorobenzene	1.0	U *	1.0	0.49	ug/L			08/21/25 01:42	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/21/25 01:42	1
1,1-Dichloroethane	**0.70**	**J ***	1.0	0.36	ug/L			08/21/25 01:42	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/21/25 01:42	1
1,1-Dichloroethene	**2.1**		1.0	0.34	ug/L			08/21/25 01:42	1
cis-1,2-Dichloroethene	**150**	**E**	1.0	0.30	ug/L			08/21/25 01:42	1
trans-1,2-Dichloroethene	**1.9**		1.0	0.19	ug/L			08/21/25 01:42	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/21/25 01:42	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/21/25 01:42	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/21/25 01:42	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/21/25 01:42	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/21/25 01:42	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/21/25 01:42	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/21/25 01:42	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/21/25 01:42	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/21/25 01:42	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/21/25 01:42	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/21/25 01:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 01:42	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/21/25 01:42	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/21/25 01:42	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/21/25 01:42	1

Client Sample ID: MW-102IR/250813
Lab Sample ID: 620-28577-6

Date Collected: 08/13/25 15:30
Matrix: Water

Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/21/25 01:42	1
Styrene	1.0	U	1.0	0.42	ug/L			08/21/25 01:42	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/21/25 01:42	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/21/25 01:42	1
Tetrachloroethene	**0.45**	**J**	1.0	0.36	ug/L			08/21/25 01:42	1
Toluene	1.0	U *	1.0	0.28	ug/L			08/21/25 01:42	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/21/25 01:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/21/25 01:42	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/21/25 01:42	1
1,1,1-Trichloroethane	**2.7**		1.0	0.33	ug/L			08/21/25 01:42	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/21/25 01:42	1
Trichloroethene	**290**	**E**	1.0	0.36	ug/L			08/21/25 01:42	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/21/25 01:42	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/21/25 01:42	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/21/25 01:42	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/21/25 01:42	1
Vinyl chloride	**17**		1.0	0.26	ug/L			08/21/25 01:42	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/21/25 01:42	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/21/25 01:42	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/21/25 01:42	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/21/25 01:42	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 01:42	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/21/25 01:42	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 01:42	1
tert-Butanol	10	U	10	8.5	ug/L			08/21/25 01:42	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/21/25 01:42	1
Ethanol	200	U	200	9.1	ug/L			08/21/25 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/21/25 01:42*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/21/25 01:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*08/21/25 01:42*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*08/21/25 01:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	10	U	10	2.0	ug/L			08/19/25 17:31	10
Acetone	100	U	100	9.0	ug/L			08/19/25 17:31	10
Acrylonitrile	10	U	10	3.6	ug/L			08/19/25 17:31	10
Benzene	10	U	10	2.5	ug/L			08/19/25 17:31	10
Bromobenzene	10	U	10	4.0	ug/L			08/19/25 17:31	10
Bromochloromethane	10	U	10	3.9	ug/L			08/19/25 17:31	10
Bromodichloromethane	5.0	U *	5.0	3.3	ug/L			08/19/25 17:31	10
Bromoform	10	U	10	4.5	ug/L			08/19/25 17:31	10
Bromomethane	20	U	20	6.3	ug/L			08/19/25 17:31	10
2-Butanone (MEK)	20	U	20	5.8	ug/L			08/19/25 17:31	10
n-Butylbenzene	10	U	10	4.5	ug/L			08/19/25 17:31	10
sec-Butylbenzene	10	U	10	4.0	ug/L			08/19/25 17:31	10
tert-Butylbenzene	10	U	10	4.0	ug/L			08/19/25 17:31	10

Client Sample ID: MW-102IR/250813
Lab Sample ID: 620-28577-6

Date Collected: 08/13/25 15:30
Matrix: Water

Date Received: 08/14/25 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	20	U	20	4.4	ug/L			08/19/25 17:31	10
Carbon tetrachloride	10	U *	10	2.5	ug/L			08/19/25 17:31	10
Chlorobenzene	10	U	10	4.2	ug/L			08/19/25 17:31	10
Chloroethane	20	U	20	4.1	ug/L			08/19/25 17:31	10
Chloroform	10	U	10	3.0	ug/L			08/19/25 17:31	10
Chloromethane	20	U	20	4.9	ug/L			08/19/25 17:31	10
2-Chlorotoluene	10	U	10	4.3	ug/L			08/19/25 17:31	10
4-Chlorotoluene	10	U	10	4.2	ug/L			08/19/25 17:31	10
1,2-Dibromo-3-Chloropropane	20	U	20	5.1	ug/L			08/19/25 17:31	10
Dibromochloromethane	5.0	U	5.0	3.3	ug/L			08/19/25 17:31	10
1,2-Dibromoethane (EDB)	5.0	U	5.0	3.4	ug/L			08/19/25 17:31	10
Dibromomethane	10	U	10	3.6	ug/L			08/19/25 17:31	10
1,2-Dichlorobenzene	10	U	10	4.8	ug/L			08/19/25 17:31	10
1,3-Dichlorobenzene	10	U	10	5.0	ug/L			08/19/25 17:31	10
1,4-Dichlorobenzene	10	U	10	4.9	ug/L			08/19/25 17:31	10
Dichlorodifluoromethane (Freon 12)	20	U	20	2.9	ug/L			08/19/25 17:31	10
1,1-Dichloroethane	10	U	10	3.6	ug/L			08/19/25 17:31	10
1,2-Dichloroethane	10	U	10	2.6	ug/L			08/19/25 17:31	10
1,1-Dichloroethene	10	U	10	3.4	ug/L			08/19/25 17:31	10
cis-1,2-Dichloroethene	**120**		10	3.0	ug/L			08/19/25 17:31	10
trans-1,2-Dichloroethene	**2.4**	**J**	10	1.9	ug/L			08/19/25 17:31	10
1,2-Dichloropropane	10	U	10	3.6	ug/L			08/19/25 17:31	10
1,3-Dichloropropane	10	U	10	3.2	ug/L			08/19/25 17:31	10
2,2-Dichloropropane	10	U	10	4.9	ug/L			08/19/25 17:31	10
1,1-Dichloropropene	10	U	10	2.9	ug/L			08/19/25 17:31	10
cis-1,3-Dichloropropene	5.0	U	5.0	3.0	ug/L			08/19/25 17:31	10
trans-1,3-Dichloropropene	5.0	U	5.0	3.7	ug/L			08/19/25 17:31	10
Ethylbenzene	10	U	10	3.6	ug/L			08/19/25 17:31	10
Hexachlorobutadiene	10	U	10	2.4	ug/L			08/19/25 17:31	10
2-Hexanone (MBK)	20	U	20	6.9	ug/L			08/19/25 17:31	10
Isopropylbenzene	10	U	10	3.8	ug/L			08/19/25 17:31	10
4-Isopropyltoluene	10	U	10	4.3	ug/L			08/19/25 17:31	10
Methyl tert-butyl ether	10	U	10	2.6	ug/L			08/19/25 17:31	10
4-Methyl-2-pentanone (MIBK)	20	U	20	3.5	ug/L			08/19/25 17:31	10
Methylene Chloride	20	U	20	5.4	ug/L			08/19/25 17:31	10
Naphthalene	20	U	20	7.0	ug/L			08/19/25 17:31	10
N-Propylbenzene	10	U	10	3.6	ug/L			08/19/25 17:31	10
Styrene	10	U	10	4.2	ug/L			08/19/25 17:31	10
1,1,1,2-Tetrachloroethane	10	U	10	3.7	ug/L			08/19/25 17:31	10
1,1,2,2-Tetrachloroethane	5.0	U	5.0	4.6	ug/L			08/19/25 17:31	10
Tetrachloroethene	10	U	10	3.6	ug/L			08/19/25 17:31	10
Toluene	10	U	10	2.8	ug/L			08/19/25 17:31	10
1,2,3-Trichlorobenzene	10	U	10	7.4	ug/L			08/19/25 17:31	10
1,2,4-Trichlorobenzene	10	U	10	7.0	ug/L			08/19/25 17:31	10
1,3,5-Trichlorobenzene	10	U	10	5.4	ug/L			08/19/25 17:31	10
1,1,1-Trichloroethane	10	U *	10	3.3	ug/L			08/19/25 17:31	10
1,1,2-Trichloroethane	10	U	10	3.5	ug/L			08/19/25 17:31	10
Trichloroethene	**260**		10	3.6	ug/L			08/19/25 17:31	10
Trichlorofluoromethane (Freon 11)	10	U	10	2.3	ug/L			08/19/25 17:31	10

Client Sample ID: MW-102IR/250813
Lab Sample ID: 620-28577-6

Date Collected: 08/13/25 15:30
Matrix: Water
Date Received: 08/14/25 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	10	U	10	5.1	ug/L			08/19/25 17:31	10
1,2,4-Trimethylbenzene	10	U	10	4.6	ug/L			08/19/25 17:31	10
1,3,5-Trimethylbenzene	10	U	10	4.5	ug/L			08/19/25 17:31	10
Vinyl chloride	**14**		10	2.6	ug/L			08/19/25 17:31	10
m,p-Xylene	10	U	10	7.8	ug/L			08/19/25 17:31	10
o-Xylene	10	U	10	4.3	ug/L			08/19/25 17:31	10
Tetrahydrofuran	20	U	20	7.0	ug/L			08/19/25 17:31	10
Ethyl ether	10	U	10	4.2	ug/L			08/19/25 17:31	10
Tert-amyl methyl ether	10	U	10	2.6	ug/L			08/19/25 17:31	10
Ethyl tert-butyl ether	10	U	10	2.9	ug/L			08/19/25 17:31	10
di-Isopropyl ether	10	U	10	2.6	ug/L			08/19/25 17:31	10
tert-Butanol	100	U	100	85	ug/L			08/19/25 17:31	10
trans-1,4-Dichloro-2-butene	50	U	50	8.1	ug/L			08/19/25 17:31	10
Ethanol	2000	U	2000	91	ug/L			08/19/25 17:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/19/25 17:31*	*10*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/19/25 17:31*	*10*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*08/19/25 17:31*	*10*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/19/25 17:31*	*10*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**15**		0.20	0.19	ug/L		08/18/25 18:42	08/20/25 16:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*11*		*10 - 150*	*08/18/25 18:42*	*08/20/25 16:02*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.59**		1.50	0.60	mg/L			08/15/25 10:34	1
Nitrate as N	**2.26**		0.11	0.050	mg/L			08/15/25 10:34	1
Sulfate	**25.0**		1.50	0.50	mg/L			08/15/25 10:34	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**60.5**		0.50	0.19	mg/L		08/14/25 15:34	08/15/25 12:54	1
Magnesium	**10.8**		0.040	0.038	mg/L		08/14/25 15:34	08/15/25 12:54	1
Potassium	**1.3**		1.0	0.34	mg/L		08/14/25 15:34	08/15/25 12:54	1
Sodium	**40.8**		1.5	0.28	mg/L		08/14/25 15:34	08/15/25 12:54	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/14/25 15:34	08/15/25 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	**262**		8.0	2.6	mg/L			08/20/25 06:58	1
Total Organic Carbon (SM 5310 C-2014)	**2.9**		1.0	0.50	mg/L			08/20/25 05:55	1
Total Inorganic Carbon (SM 5310 C-2014)	**38.1**		2.0	0.60	mg/L			08/20/25 05:55	1

Client Sample ID: FB/250813
Lab Sample ID: 620-28577-7

Date Collected: 08/13/25 15:00
Matrix: Water

Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/18/25 17:23	1
Acetone	**4.3**	**J**	10	0.90	ug/L			08/18/25 17:23	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/18/25 17:23	1
Benzene	1.0	U	1.0	0.25	ug/L			08/18/25 17:23	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/18/25 17:23	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/18/25 17:23	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/18/25 17:23	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/18/25 17:23	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/18/25 17:23	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/18/25 17:23	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 17:23	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 17:23	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 17:23	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/18/25 17:23	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/18/25 17:23	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/18/25 17:23	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/18/25 17:23	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/18/25 17:23	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/18/25 17:23	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/18/25 17:23	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/18/25 17:23	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/18/25 17:23	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/18/25 17:23	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/18/25 17:23	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/18/25 17:23	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/18/25 17:23	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/18/25 17:23	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/18/25 17:23	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/18/25 17:23	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/18/25 17:23	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/18/25 17:23	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/18/25 17:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/18/25 17:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/18/25 17:23	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/18/25 17:23	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/18/25 17:23	1
2,2-Dichloropropane	1.0	U *	1.0	0.49	ug/L			08/18/25 17:23	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/18/25 17:23	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/18/25 17:23	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/18/25 17:23	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 17:23	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/18/25 17:23	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/18/25 17:23	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/18/25 17:23	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/18/25 17:23	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 17:23	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/18/25 17:23	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/18/25 17:23	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/18/25 17:23	1

Client Sample ID: FB/250813
Lab Sample ID: 620-28577-7

Date Collected: 08/13/25 15:00
Matrix: Water

Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 17:23	1
Styrene	1.0	U	1.0	0.42	ug/L			08/18/25 17:23	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/18/25 17:23	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/18/25 17:23	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/18/25 17:23	1
Toluene	1.0	U	1.0	0.28	ug/L			08/18/25 17:23	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/18/25 17:23	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/18/25 17:23	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/18/25 17:23	1
1,1,1-Trichloroethane	1.0	U *	1.0	0.33	ug/L			08/18/25 17:23	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/18/25 17:23	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/18/25 17:23	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/18/25 17:23	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/18/25 17:23	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/18/25 17:23	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 17:23	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/18/25 17:23	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/18/25 17:23	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/18/25 17:23	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/18/25 17:23	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/18/25 17:23	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 17:23	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/18/25 17:23	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 17:23	1
tert-Butanol	10	U	10	8.5	ug/L			08/18/25 17:23	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/18/25 17:23	1
Ethanol	200	U	200	9.1	ug/L			08/18/25 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/18/25 17:23*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/18/25 17:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*08/18/25 17:23*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/18/25 17:23*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.19	U	0.19	0.18	ug/L		08/18/25 18:42	08/20/25 16:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*13*		*10 - 150*	*08/18/25 18:42*	*08/20/25 16:19*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.50	U	1.50	0.60	mg/L			08/15/25 10:18	1
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/15/25 10:18	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/15/25 10:18	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.50	U	0.50	0.19	mg/L		08/14/25 15:34	08/15/25 13:00	1
Magnesium	0.040	U	0.040	0.038	mg/L		08/14/25 15:34	08/15/25 13:00	1

Client Sample ID: FB/250813
Lab Sample ID: 620-28577-7
Date Collected: 08/13/25 15:00
Matrix: Water
Date Received: 08/14/25 11:00

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1.0	U	1.0	0.34	mg/L		08/14/25 15:34	08/15/25 13:00	1
Sodium	1.5	U	1.5	0.28	mg/L		08/14/25 15:34	08/15/25 13:00	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/14/25 15:34	08/15/25 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	8.0	U	8.0	2.6	mg/L			08/20/25 07:15	1
Total Organic Carbon (SM 5310 C-2014)	1.0	U	1.0	0.50	mg/L			08/20/25 06:14	1
Total Inorganic Carbon (SM 5310 C-2014)	2.0	U	2.0	0.60	mg/L			08/20/25 06:14	1

Client Sample ID: TB/250813
Lab Sample ID: 620-28577-8
Date Collected: 08/13/25 00:00
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/18/25 12:25	1
Acetone	**2.5**	**J**	10	0.90	ug/L			08/18/25 12:25	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/18/25 12:25	1
Benzene	1.0	U	1.0	0.25	ug/L			08/18/25 12:25	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/18/25 12:25	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/18/25 12:25	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/18/25 12:25	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/18/25 12:25	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/18/25 12:25	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/18/25 12:25	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 12:25	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 12:25	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 12:25	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/18/25 12:25	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/18/25 12:25	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/18/25 12:25	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/18/25 12:25	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/18/25 12:25	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/18/25 12:25	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/18/25 12:25	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/18/25 12:25	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/18/25 12:25	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/18/25 12:25	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/18/25 12:25	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/18/25 12:25	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/18/25 12:25	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/18/25 12:25	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/18/25 12:25	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/18/25 12:25	1

Client Sample ID: TB/250813
Lab Sample ID: 620-28577-8

Date Collected: 08/13/25 00:00
Matrix: Water

Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/18/25 12:25	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/18/25 12:25	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/18/25 12:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/18/25 12:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/18/25 12:25	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/18/25 12:25	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/18/25 12:25	1
2,2-Dichloropropane	1.0	U *	1.0	0.49	ug/L			08/18/25 12:25	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/18/25 12:25	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/18/25 12:25	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/18/25 12:25	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 12:25	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/18/25 12:25	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/18/25 12:25	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/18/25 12:25	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/18/25 12:25	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 12:25	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/18/25 12:25	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/18/25 12:25	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/18/25 12:25	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 12:25	1
Styrene	1.0	U	1.0	0.42	ug/L			08/18/25 12:25	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/18/25 12:25	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/18/25 12:25	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/18/25 12:25	1
Toluene	1.0	U	1.0	0.28	ug/L			08/18/25 12:25	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/18/25 12:25	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/18/25 12:25	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/18/25 12:25	1
1,1,1-Trichloroethane	1.0	U *	1.0	0.33	ug/L			08/18/25 12:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/18/25 12:25	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/18/25 12:25	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/18/25 12:25	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/18/25 12:25	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/18/25 12:25	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 12:25	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/18/25 12:25	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/18/25 12:25	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/18/25 12:25	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/18/25 12:25	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/18/25 12:25	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 12:25	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/18/25 12:25	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 12:25	1
tert-Butanol	10	U	10	8.5	ug/L			08/18/25 12:25	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/18/25 12:25	1
Ethanol	200	U	200	9.1	ug/L			08/18/25 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/18/25 12:25*	*1*

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28577-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: TB/250813
Lab Sample ID: 620-28577-8
Date Collected: 08/13/25 00:00
Matrix: Water
Date Received: 08/14/25 11:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		08/18/25 12:25	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		08/18/25 12:25	1
Dibromofluoromethane (Surr)	111		70 - 130		08/18/25 12:25	1

Surrogate Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28577-1
Project/Site: ESCO Steel Treaters Project

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-28577-1	MW-17/250811	100	100	113	112
620-28577-1 - DL	MW-17/250811	99	99	110	107
620-28577-2	MW-19/250813	98	100	103	106
620-28577-3	MW-18/250813	99	98	113	111
620-28577-3 - DL	MW-18/250813	98	100	110	107
620-28577-4	MW-103I/250813	100	100	112	113
620-28577-4 - DL	MW-103I/250813	101	101	112	111
620-28577-5	MW-102B/250813	99	100	109	110
620-28577-5 - DL	MW-102B/250813	99	99	110	111
620-28577-6 - DL	MW-102IR/250813	99	100	111	109
620-28577-6	MW-102IR/250813	100	99	105	106
620-28577-7	FB/250813	100	100	111	111
620-28577-8	TB/250813	100	100	111	111
LCS 620-52249/4	Lab Control Sample	102	102	103	107
LCS 620-52339/4	Lab Control Sample	100	102	99	103
LCS 620-52457/4	Lab Control Sample	102	101	96	101
LCS 620-52540/4	Lab Control Sample	104	101	101	104
LCSD 620-52249/5	Lab Control Sample Dup	103	103	104	107
LCSD 620-52339/5	Lab Control Sample Dup	100	102	99	105
LCSD 620-52457/5	Lab Control Sample Dup	102	100	98	103
LCSD 620-52540/5	Lab Control Sample Dup	104	100	101	103
MB 620-52249/7	Method Blank	99	98	109	109
MB 620-52339/7	Method Blank	99	96	102	105
MB 620-52457/7	Method Blank	100	100	104	101
MB 620-52540/7	Method Blank	99	100	107	104

Surrogate Legend

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

Isotope Dilution Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28577-1
Project/Site: ESCO Steel Treaters Project

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

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DXE (10-150)							
620-28577-4	MW-103I/250813	9 *							
620-28577-5	MW-102B/250813	11							
620-28577-6	MW-102IR/250813	11							
620-28577-7	FB/250813	13							
LCS 620-52299/2-A	Lab Control Sample	12							
LCSD 620-52299/3-A	Lab Control Sample Dup	12							
MB 620-52299/1-A	Method Blank	14							

Surrogate Legend

DXE = 1,4-Dioxane-d8

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

Lab Sample ID: MB 620-52249/7
Matrix: Water
Analysis Batch: 52249

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/18/25 12:02	1
Acetone	10	U	10	0.90	ug/L			08/18/25 12:02	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/18/25 12:02	1
Benzene	1.0	U	1.0	0.25	ug/L			08/18/25 12:02	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/18/25 12:02	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/18/25 12:02	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/18/25 12:02	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/18/25 12:02	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/18/25 12:02	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/18/25 12:02	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 12:02	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 12:02	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 12:02	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/18/25 12:02	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/18/25 12:02	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/18/25 12:02	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/18/25 12:02	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/18/25 12:02	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/18/25 12:02	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/18/25 12:02	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/18/25 12:02	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/18/25 12:02	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/18/25 12:02	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/18/25 12:02	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/18/25 12:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/18/25 12:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/18/25 12:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/18/25 12:02	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/18/25 12:02	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/18/25 12:02	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/18/25 12:02	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/18/25 12:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/18/25 12:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/18/25 12:02	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/18/25 12:02	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/18/25 12:02	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/18/25 12:02	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/18/25 12:02	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/18/25 12:02	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/18/25 12:02	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 12:02	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/18/25 12:02	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/18/25 12:02	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/18/25 12:02	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/18/25 12:02	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 12:02	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/18/25 12:02	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/18/25 12:02	1

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

Lab Sample ID: MB 620-52249/7
Matrix: Water
Analysis Batch: 52249

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	2.0	U	2.0	0.70	ug/L			08/18/25 12:02	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 12:02	1
Styrene	1.0	U	1.0	0.42	ug/L			08/18/25 12:02	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/18/25 12:02	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/18/25 12:02	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/18/25 12:02	1
Toluene	1.0	U	1.0	0.28	ug/L			08/18/25 12:02	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/18/25 12:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/18/25 12:02	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/18/25 12:02	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/18/25 12:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/18/25 12:02	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/18/25 12:02	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/18/25 12:02	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/18/25 12:02	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/18/25 12:02	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 12:02	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/18/25 12:02	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/18/25 12:02	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/18/25 12:02	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/18/25 12:02	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/18/25 12:02	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 12:02	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/18/25 12:02	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 12:02	1
tert-Butanol	10	U	10	8.5	ug/L			08/18/25 12:02	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/18/25 12:02	1
Ethanol	200	U	200	9.1	ug/L			08/18/25 12:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/18/25 12:02*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/18/25 12:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*08/18/25 12:02*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/18/25 12:02*	*1*

Lab Sample ID: LCS 620-52249/4
Matrix: Water
Analysis Batch: 52249

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-Trichlorotrifluoroethane (Freon 113)	20.0	20.9		ug/L		104	72 - 120
Acetone	20.0	22.0		ug/L		110	19 - 144
Acrylonitrile	20.0	20.9		ug/L		104	67 - 141
Benzene	20.0	19.8		ug/L		99	82 - 120
Bromobenzene	20.0	21.9		ug/L		110	80 - 115
Bromochloromethane	20.0	21.7		ug/L		108	84 - 119
Bromodichloromethane	20.0	26.0	*	ug/L		130	77 - 118
Bromoform	20.0	23.0		ug/L		115	68 - 130

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

Lab Sample ID: LCS 620-52249/4
Matrix: Water
Analysis Batch: 52249

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	14.9		ug/L		75	27 - 151
2-Butanone (MEK)	20.0	21.6		ug/L		108	32 - 126
n-Butylbenzene	20.0	23.1		ug/L		115	81 - 129
sec-Butylbenzene	20.0	23.1		ug/L		115	81 - 124
tert-Butylbenzene	20.0	23.8		ug/L		119	80 - 128
Carbon disulfide	20.0	18.9		ug/L		94	67 - 136
Carbon tetrachloride	20.0	50.7	*	ug/L		254	70 - 129
Chlorobenzene	20.0	20.7		ug/L		104	82 - 112
Chloroethane	20.0	19.9		ug/L		100	47 - 142
Chloroform	20.0	21.9		ug/L		110	77 - 126
Chloromethane	20.0	14.6		ug/L		73	26 - 159
2-Chlorotoluene	20.0	22.6		ug/L		113	82 - 122
4-Chlorotoluene	20.0	22.6		ug/L		113	79 - 123
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/L		100	64 - 117
Dibromochloromethane	20.0	21.2		ug/L		106	71 - 126
1,2-Dibromoethane (EDB)	20.0	22.4		ug/L		112	83 - 122
Dibromomethane	20.0	21.9		ug/L		110	83 - 117
1,2-Dichlorobenzene	20.0	20.7		ug/L		103	87 - 118
1,3-Dichlorobenzene	20.0	21.5		ug/L		107	83 - 122
1,4-Dichlorobenzene	20.0	20.1		ug/L		100	81 - 115
Dichlorodifluoromethane (Freon 12)	20.0	10.8		ug/L		54	21 - 147
1,1-Dichloroethane	20.0	20.3		ug/L		102	84 - 122
1,2-Dichloroethane	20.0	21.0		ug/L		105	69 - 121
1,1-Dichloroethene	20.0	20.0		ug/L		100	83 - 123
cis-1,2-Dichloroethene	20.0	21.5		ug/L		108	85 - 122
trans-1,2-Dichloroethene	20.0	20.1		ug/L		100	84 - 123
1,2-Dichloropropane	20.0	20.7		ug/L		104	80 - 124
1,3-Dichloropropane	20.0	21.4		ug/L		107	80 - 118
2,2-Dichloropropane	20.0	26.0	*	ug/L		130	74 - 125
1,1-Dichloropropene	20.0	21.5		ug/L		108	76 - 120
cis-1,3-Dichloropropene	20.0	23.0		ug/L		115	76 - 125
trans-1,3-Dichloropropene	20.0	23.0		ug/L		115	77 - 132
Ethylbenzene	20.0	23.0		ug/L		115	85 - 116
Hexachlorobutadiene	20.0	19.7		ug/L		99	70 - 127
2-Hexanone (MBK)	20.0	20.6		ug/L		103	40 - 130
Isopropylbenzene	20.0	21.8		ug/L		109	78 - 122
4-Isopropyltoluene	20.0	23.2		ug/L		116	80 - 121
Methyl tert-butyl ether	20.0	21.3		ug/L		106	72 - 126
4-Methyl-2-pentanone (MIBK)	20.0	18.0		ug/L		90	59 - 130
Methylene Chloride	20.0	20.2		ug/L		101	77 - 124
Naphthalene	20.0	16.4		ug/L		82	57 - 133
N-Propylbenzene	20.0	21.6		ug/L		108	86 - 124
Styrene	20.0	24.1		ug/L		121	80 - 121
1,1,1,2-Tetrachloroethane	20.0	22.3		ug/L		111	81 - 113
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	74 - 115
Tetrachloroethene	20.0	22.1		ug/L		111	78 - 124
Toluene	20.0	21.2		ug/L		106	83 - 114
1,2,3-Trichlorobenzene	20.0	19.0		ug/L		95	73 - 128

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

Lab Sample ID: LCS 620-52249/4
Matrix: Water
Analysis Batch: 52249

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	20.0	20.6		ug/L		103	74 - 128
1,3,5-Trichlorobenzene	20.0	20.6		ug/L		103	81 - 124
1,1,1-Trichloroethane	20.0	27.9	*	ug/L		140	76 - 124
1,1,2-Trichloroethane	20.0	21.5		ug/L		107	83 - 120
Trichloroethene	20.0	21.2		ug/L		106	79 - 113
Trichlorofluoromethane (Freon 11)	20.0	18.7		ug/L		93	68 - 130
1,2,3-Trichloropropane	20.0	21.0		ug/L		105	74 - 116
1,2,4-Trimethylbenzene	20.0	23.8		ug/L		119	83 - 121
1,3,5-Trimethylbenzene	20.0	23.6		ug/L		118	82 - 125
Vinyl chloride	20.0	17.2		ug/L		86	49 - 145
m,p-Xylene	20.0	24.5		ug/L		123	82 - 128
o-Xylene	20.0	23.8		ug/L		119	83 - 122
Tetrahydrofuran	20.0	19.4		ug/L		97	59 - 134
Ethyl ether	20.0	19.3		ug/L		96	74 - 119
Tert-amyl methyl ether	20.0	20.3		ug/L		101	70 - 122
Ethyl tert-butyl ether	20.0	21.5		ug/L		107	72 - 122
di-Isopropyl ether	20.0	20.7		ug/L		103	66 - 130
tert-Butanol	200	207		ug/L		104	60 - 146
trans-1,4-Dichloro-2-butene	20.0	21.1		ug/L		105	57 - 146
Ethanol	400	463		ug/L		116	53 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 620-52249/5
Matrix: Water
Analysis Batch: 52249

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
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	21.1		ug/L		106	72 - 120	1	20
Acetone	20.0	18.7		ug/L		94	19 - 144	16	20
Acrylonitrile	20.0	20.4		ug/L		102	67 - 141	2	20
Benzene	20.0	19.9		ug/L		99	82 - 120	0	20
Bromobenzene	20.0	21.9		ug/L		109	80 - 115	0	20
Bromochloromethane	20.0	21.8		ug/L		109	84 - 119	1	20
Bromodichloromethane	20.0	25.4	*	ug/L		127	77 - 118	2	20
Bromoform	20.0	22.9		ug/L		115	68 - 130	1	20
Bromomethane	20.0	15.7		ug/L		78	27 - 151	5	20
2-Butanone (MEK)	20.0	19.9		ug/L		99	32 - 126	8	20
n-Butylbenzene	20.0	23.2		ug/L		116	81 - 129	1	20
sec-Butylbenzene	20.0	23.1		ug/L		115	81 - 124	0	20
tert-Butylbenzene	20.0	23.8		ug/L		119	80 - 128	0	20
Carbon disulfide	20.0	18.7		ug/L		94	67 - 136	1	20
Carbon tetrachloride	20.0	50.3	*	ug/L		252	70 - 129	1	20

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

Lab Sample ID: LCSD 620-52249/5
Matrix: Water
Analysis Batch: 52249

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
Chlorobenzene	20.0	20.8		ug/L		104	82 - 112	0	20
Chloroethane	20.0	20.3		ug/L		102	47 - 142	2	20
Chloroform	20.0	21.8		ug/L		109	77 - 126	1	20
Chloromethane	20.0	14.5		ug/L		72	26 - 159	1	20
2-Chlorotoluene	20.0	22.5		ug/L		112	82 - 122	1	20
4-Chlorotoluene	20.0	22.8		ug/L		114	79 - 123	1	20
1,2-Dibromo-3-Chloropropane	20.0	19.3		ug/L		97	64 - 117	3	20
Dibromochloromethane	20.0	21.5		ug/L		107	71 - 126	1	20
1,2-Dibromoethane (EDB)	20.0	22.3		ug/L		112	83 - 122	0	20
Dibromomethane	20.0	21.9		ug/L		109	83 - 117	0	20
1,2-Dichlorobenzene	20.0	21.1		ug/L		105	87 - 118	2	20
1,3-Dichlorobenzene	20.0	21.5		ug/L		107	83 - 122	0	20
1,4-Dichlorobenzene	20.0	19.9		ug/L		100	81 - 115	1	20
Dichlorodifluoromethane (Freon 12)	20.0	10.7		ug/L		53	21 - 147	1	20
1,1-Dichloroethane	20.0	20.5		ug/L		103	84 - 122	1	20
1,2-Dichloroethane	20.0	21.2		ug/L		106	69 - 121	1	20
1,1-Dichloroethene	20.0	20.4		ug/L		102	83 - 123	2	20
cis-1,2-Dichloroethene	20.0	21.4		ug/L		107	85 - 122	1	20
trans-1,2-Dichloroethene	20.0	20.8		ug/L		104	84 - 123	3	20
1,2-Dichloropropane	20.0	20.9		ug/L		104	80 - 124	1	20
1,3-Dichloropropane	20.0	21.6		ug/L		108	80 - 118	1	20
2,2-Dichloropropane	20.0	25.5	*	ug/L		127	74 - 125	2	20
1,1-Dichloropropene	20.0	21.9		ug/L		109	76 - 120	2	20
cis-1,3-Dichloropropene	20.0	23.2		ug/L		116	76 - 125	1	20
trans-1,3-Dichloropropene	20.0	23.0		ug/L		115	77 - 132	0	20
Ethylbenzene	20.0	23.1		ug/L		115	85 - 116	0	20
Hexachlorobutadiene	20.0	20.2		ug/L		101	70 - 127	2	20
2-Hexanone (MBK)	20.0	18.1		ug/L		90	40 - 130	13	20
Isopropylbenzene	20.0	21.6		ug/L		108	78 - 122	1	20
4-Isopropyltoluene	20.0	23.1		ug/L		115	80 - 121	1	20
Methyl tert-butyl ether	20.0	22.0		ug/L		110	72 - 126	3	20
4-Methyl-2-pentanone (MIBK)	20.0	17.4		ug/L		87	59 - 130	3	20
Methylene Chloride	20.0	20.0		ug/L		100	77 - 124	1	20
Naphthalene	20.0	16.5		ug/L		83	57 - 133	1	20
N-Propylbenzene	20.0	21.3		ug/L		107	86 - 124	1	20
Styrene	20.0	23.9		ug/L		120	80 - 121	1	20
1,1,1,2-Tetrachloroethane	20.0	22.5		ug/L		112	81 - 113	1	20
1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		104	74 - 115	2	20
Tetrachloroethene	20.0	22.4		ug/L		112	78 - 124	1	20
Toluene	20.0	21.3		ug/L		107	83 - 114	1	20
1,2,3-Trichlorobenzene	20.0	19.5		ug/L		97	73 - 128	2	20
1,2,4-Trichlorobenzene	20.0	21.0		ug/L		105	74 - 128	2	20
1,3,5-Trichlorobenzene	20.0	20.8		ug/L		104	81 - 124	1	20
1,1,1-Trichloroethane	20.0	28.4	*	ug/L		142	76 - 124	2	20
1,1,2-Trichloroethane	20.0	21.5		ug/L		108	83 - 120	0	20
Trichloroethene	20.0	22.0		ug/L		110	79 - 113	4	20
Trichlorofluoromethane (Freon 11)	20.0	21.0		ug/L		105	68 - 130	12	20

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

Lab Sample ID: LCSD 620-52249/5
Matrix: Water
Analysis Batch: 52249

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
1,2,3-Trichloropropane			20.0	20.8		ug/L		104	74 - 116	1	20
1,2,4-Trimethylbenzene			20.0	23.7		ug/L		119	83 - 121	0	20
1,3,5-Trimethylbenzene			20.0	23.6		ug/L		118	82 - 125	0	20
Vinyl chloride			20.0	16.9		ug/L		85	49 - 145	1	20
m,p-Xylene			20.0	24.5		ug/L		123	82 - 128	0	20
o-Xylene			20.0	23.9		ug/L		120	83 - 122	1	20
Tetrahydrofuran			20.0	18.8		ug/L		94	59 - 134	3	20
Ethyl ether			20.0	19.6		ug/L		98	74 - 119	2	20
Tert-amyl methyl ether			20.0	20.5		ug/L		102	70 - 122	1	20
Ethyl tert-butyl ether			20.0	21.8		ug/L		109	72 - 122	2	20
di-Isopropyl ether			20.0	20.5		ug/L		102	66 - 130	1	20
tert-Butanol			200	184		ug/L		92	60 - 146	12	20
trans-1,4-Dichloro-2-butene			20.0	20.5		ug/L		103	57 - 146	3	20
Ethanol			400	428		ug/L		107	53 - 150	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 620-52339/7
Matrix: Water
Analysis Batch: 52339

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/19/25 14:16	1
Acetone	3.06	J	10	0.90	ug/L			08/19/25 14:16	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/19/25 14:16	1
Benzene	1.0	U	1.0	0.25	ug/L			08/19/25 14:16	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/19/25 14:16	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/19/25 14:16	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/19/25 14:16	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/19/25 14:16	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/19/25 14:16	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/19/25 14:16	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/19/25 14:16	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/19/25 14:16	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/19/25 14:16	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/19/25 14:16	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/19/25 14:16	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/19/25 14:16	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/19/25 14:16	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/19/25 14:16	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/19/25 14:16	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/19/25 14:16	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/19/25 14:16	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/19/25 14:16	1

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

Lab Sample ID: MB 620-52339/7
Matrix: Water
Analysis Batch: 52339

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/19/25 14:16	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/19/25 14:16	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/19/25 14:16	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/19/25 14:16	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/19/25 14:16	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/19/25 14:16	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/19/25 14:16	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/19/25 14:16	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/19/25 14:16	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/19/25 14:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/19/25 14:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/19/25 14:16	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/19/25 14:16	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/19/25 14:16	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/19/25 14:16	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/19/25 14:16	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/19/25 14:16	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/19/25 14:16	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/19/25 14:16	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/19/25 14:16	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/19/25 14:16	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/19/25 14:16	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/19/25 14:16	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/19/25 14:16	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/19/25 14:16	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/19/25 14:16	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/19/25 14:16	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/19/25 14:16	1
Styrene	1.0	U	1.0	0.42	ug/L			08/19/25 14:16	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/19/25 14:16	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/19/25 14:16	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/19/25 14:16	1
Toluene	1.0	U	1.0	0.28	ug/L			08/19/25 14:16	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/19/25 14:16	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/19/25 14:16	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/19/25 14:16	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/19/25 14:16	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/19/25 14:16	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/19/25 14:16	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/19/25 14:16	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/19/25 14:16	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/19/25 14:16	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/19/25 14:16	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/19/25 14:16	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/19/25 14:16	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/19/25 14:16	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/19/25 14:16	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/19/25 14:16	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/19/25 14:16	1

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

Lab Sample ID: MB 620-52339/7
Matrix: Water
Analysis Batch: 52339

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/19/25 14:16	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/19/25 14:16	1
tert-Butanol	10	U	10	8.5	ug/L			08/19/25 14:16	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/19/25 14:16	1
Ethanol	200	U	200	9.1	ug/L			08/19/25 14:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/19/25 14:16*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*08/19/25 14:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*08/19/25 14:16*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*08/19/25 14:16*	*1*

Lab Sample ID: LCS 620-52339/4
Matrix: Water
Analysis Batch: 52339

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-Trichlorotrifluoroethane (Freon 113)	20.0	22.2		ug/L		111	72 - 120
Acetone	20.0	15.8		ug/L		79	19 - 144
Acrylonitrile	20.0	21.4		ug/L		107	67 - 141
Benzene	20.0	20.8		ug/L		104	82 - 120
Bromobenzene	20.0	21.7		ug/L		108	80 - 115
Bromochloromethane	20.0	22.7		ug/L		113	84 - 119
Bromodichloromethane	20.0	24.9	*	ug/L		124	77 - 118
Bromoform	20.0	21.6		ug/L		108	68 - 130
Bromomethane	20.0	16.9		ug/L		85	27 - 151
2-Butanone (MEK)	20.0	17.6		ug/L		88	32 - 126
n-Butylbenzene	20.0	22.6		ug/L		113	81 - 129
sec-Butylbenzene	20.0	22.4		ug/L		112	81 - 124
tert-Butylbenzene	20.0	23.0		ug/L		115	80 - 128
Carbon disulfide	20.0	21.7		ug/L		108	67 - 136
Carbon tetrachloride	20.0	49.6	*	ug/L		248	70 - 129
Chlorobenzene	20.0	20.7		ug/L		104	82 - 112
Chloroethane	20.0	19.8		ug/L		99	47 - 142
Chloroform	20.0	21.5		ug/L		108	77 - 126
Chloromethane	20.0	15.6		ug/L		78	26 - 159
2-Chlorotoluene	20.0	22.1		ug/L		111	82 - 122
4-Chlorotoluene	20.0	22.1		ug/L		111	79 - 123
1,2-Dibromo-3-Chloropropane	20.0	18.3		ug/L		91	64 - 117
Dibromochloromethane	20.0	20.4		ug/L		102	71 - 126
1,2-Dibromoethane (EDB)	20.0	22.1		ug/L		111	83 - 122
Dibromomethane	20.0	21.5		ug/L		107	83 - 117
1,2-Dichlorobenzene	20.0	20.7		ug/L		104	87 - 118
1,3-Dichlorobenzene	20.0	20.9		ug/L		105	83 - 122
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	81 - 115
Dichlorodifluoromethane (Freon 12)	20.0	21.5		ug/L		107	21 - 147
1,1-Dichloroethane	20.0	21.0		ug/L		105	84 - 122

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

Lab Sample ID: LCS 620-52339/4
Matrix: Water
Analysis Batch: 52339

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	20.0	20.4		ug/L		102	69 - 121
1,1-Dichloroethene	20.0	22.2		ug/L		111	83 - 123
cis-1,2-Dichloroethene	20.0	22.1		ug/L		110	85 - 122
trans-1,2-Dichloroethene	20.0	21.8		ug/L		109	84 - 123
1,2-Dichloropropane	20.0	21.3		ug/L		106	80 - 124
1,3-Dichloropropane	20.0	21.0		ug/L		105	80 - 118
2,2-Dichloropropane	20.0	25.0		ug/L		125	74 - 125
1,1-Dichloropropene	20.0	22.9		ug/L		114	76 - 120
cis-1,3-Dichloropropene	20.0	22.5		ug/L		113	76 - 125
trans-1,3-Dichloropropene	20.0	21.8		ug/L		109	77 - 132
Ethylbenzene	20.0	23.1		ug/L		116	85 - 116
Hexachlorobutadiene	20.0	18.8		ug/L		94	70 - 127
2-Hexanone (MBK)	20.0	15.2		ug/L		76	40 - 130
Isopropylbenzene	20.0	21.0		ug/L		105	78 - 122
4-Isopropyltoluene	20.0	22.8		ug/L		114	80 - 121
Methyl tert-butyl ether	20.0	22.6		ug/L		113	72 - 126
4-Methyl-2-pentanone (MIBK)	20.0	16.1		ug/L		80	59 - 130
Methylene Chloride	20.0	21.0		ug/L		105	77 - 124
Naphthalene	20.0	15.2		ug/L		76	57 - 133
N-Propylbenzene	20.0	21.2		ug/L		106	86 - 124
Styrene	20.0	24.0		ug/L		120	80 - 121
1,1,1,2-Tetrachloroethane	20.0	21.7		ug/L		108	81 - 113
1,1,2,2-Tetrachloroethane	20.0	19.3		ug/L		96	74 - 115
Tetrachloroethene	20.0	22.6		ug/L		113	78 - 124
Toluene	20.0	21.8		ug/L		109	83 - 114
1,2,3-Trichlorobenzene	20.0	18.1		ug/L		90	73 - 128
1,2,4-Trichlorobenzene	20.0	19.6		ug/L		98	74 - 128
1,3,5-Trichlorobenzene	20.0	20.4		ug/L		102	81 - 124
1,1,1-Trichloroethane	20.0	26.7	*	ug/L		133	76 - 124
1,1,2-Trichloroethane	20.0	21.1		ug/L		105	83 - 120
Trichloroethene	20.0	22.2		ug/L		111	79 - 113
Trichlorofluoromethane (Freon 11)	20.0	21.9		ug/L		110	68 - 130
1,2,3-Trichloropropane	20.0	19.7		ug/L		98	74 - 116
1,2,4-Trimethylbenzene	20.0	22.7		ug/L		114	83 - 121
1,3,5-Trimethylbenzene	20.0	23.2		ug/L		116	82 - 125
Vinyl chloride	20.0	20.0		ug/L		100	49 - 145
m,p-Xylene	20.0	24.0		ug/L		120	82 - 128
o-Xylene	20.0	23.3		ug/L		117	83 - 122
Tetrahydrofuran	20.0	20.4		ug/L		102	59 - 134
Ethyl ether	20.0	21.2		ug/L		106	74 - 119
Tert-amyl methyl ether	20.0	20.4		ug/L		102	70 - 122
Ethyl tert-butyl ether	20.0	22.0		ug/L		110	72 - 122
di-Isopropyl ether	20.0	21.1		ug/L		106	66 - 130
tert-Butanol	200	207		ug/L		103	60 - 146
trans-1,4-Dichloro-2-butene	20.0	18.5		ug/L		93	57 - 146
Ethanol	400	427		ug/L		107	53 - 150

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

Lab Sample ID: LCS 620-52339/4
Matrix: Water
Analysis Batch: 52339

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 620-52339/5
Matrix: Water
Analysis Batch: 52339

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
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	22.0		ug/L		110	72 - 120	1	20
Acetone			20.0	14.9		ug/L		75	19 - 144	6	20
Acrylonitrile			20.0	21.1		ug/L		106	67 - 141	1	20
Benzene			20.0	20.7		ug/L		104	82 - 120	1	20
Bromobenzene			20.0	21.5		ug/L		107	80 - 115	1	20
Bromochloromethane			20.0	22.3		ug/L		111	84 - 119	2	20
Bromodichloromethane			20.0	24.1	*	ug/L		121	77 - 118	3	20
Bromoform			20.0	22.0		ug/L		110	68 - 130	2	20
Bromomethane			20.0	18.8		ug/L		94	27 - 151	10	20
2-Butanone (MEK)			20.0	15.8		ug/L		79	32 - 126	11	20
n-Butylbenzene			20.0	21.9		ug/L		110	81 - 129	3	20
sec-Butylbenzene			20.0	22.1		ug/L		110	81 - 124	1	20
tert-Butylbenzene			20.0	22.9		ug/L		114	80 - 128	0	20
Carbon disulfide			20.0	21.3		ug/L		106	67 - 136	2	20
Carbon tetrachloride			20.0	50.7	*	ug/L		253	70 - 129	2	20
Chlorobenzene			20.0	20.7		ug/L		103	82 - 112	0	20
Chloroethane			20.0	20.5		ug/L		103	47 - 142	4	20
Chloroform			20.0	21.4		ug/L		107	77 - 126	1	20
Chloromethane			20.0	15.2		ug/L		76	26 - 159	3	20
2-Chlorotoluene			20.0	22.1		ug/L		111	82 - 122	0	20
4-Chlorotoluene			20.0	21.8		ug/L		109	79 - 123	1	20
1,2-Dibromo-3-Chloropropane			20.0	18.1		ug/L		90	64 - 117	1	20
Dibromochloromethane			20.0	20.3		ug/L		102	71 - 126	0	20
1,2-Dibromoethane (EDB)			20.0	21.7		ug/L		109	83 - 122	2	20
Dibromomethane			20.0	21.6		ug/L		108	83 - 117	1	20
1,2-Dichlorobenzene			20.0	20.5		ug/L		103	87 - 118	1	20
1,3-Dichlorobenzene			20.0	21.1		ug/L		105	83 - 122	1	20
1,4-Dichlorobenzene			20.0	19.9		ug/L		100	81 - 115	0	20
Dichlorodifluoromethane (Freon 12)			20.0	20.8		ug/L		104	21 - 147	3	20
1,1-Dichloroethane			20.0	20.7		ug/L		104	84 - 122	1	20
1,2-Dichloroethane			20.0	20.4		ug/L		102	69 - 121	0	20
1,1-Dichloroethene			20.0	22.0		ug/L		110	83 - 123	1	20
cis-1,2-Dichloroethene			20.0	22.5		ug/L		112	85 - 122	2	20
trans-1,2-Dichloroethene			20.0	21.6		ug/L		108	84 - 123	1	20
1,2-Dichloropropane			20.0	20.9		ug/L		104	80 - 124	2	20
1,3-Dichloropropane			20.0	20.7		ug/L		104	80 - 118	2	20
2,2-Dichloropropane			20.0	24.5		ug/L		123	74 - 125	2	20

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

Lab Sample ID: LCSD 620-52339/5
Matrix: Water
Analysis Batch: 52339

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
1,1-Dichloropropene			20.0	22.4		ug/L		112	76 - 120	2	20
cis-1,3-Dichloropropene			20.0	22.3		ug/L		111	76 - 125	1	20
trans-1,3-Dichloropropene			20.0	21.8		ug/L		109	77 - 132	0	20
Ethylbenzene			20.0	22.8		ug/L		114	85 - 116	1	20
Hexachlorobutadiene			20.0	18.9		ug/L		95	70 - 127	1	20
2-Hexanone (MBK)			20.0	14.3		ug/L		71	40 - 130	6	20
Isopropylbenzene			20.0	20.8		ug/L		104	78 - 122	1	20
4-Isopropyltoluene			20.0	22.3		ug/L		112	80 - 121	2	20
Methyl tert-butyl ether			20.0	22.7		ug/L		114	72 - 126	0	20
4-Methyl-2-pentanone (MIBK)			20.0	15.3		ug/L		76	59 - 130	5	20
Methylene Chloride			20.0	21.3		ug/L		106	77 - 124	1	20
Naphthalene			20.0	16.0		ug/L		80	57 - 133	5	20
N-Propylbenzene			20.0	21.0		ug/L		105	86 - 124	1	20
Styrene			20.0	23.3		ug/L		117	80 - 121	3	20
1,1,1,2-Tetrachloroethane			20.0	21.7		ug/L		108	81 - 113	0	20
1,1,2,2-Tetrachloroethane			20.0	19.7		ug/L		98	74 - 115	2	20
Tetrachloroethene			20.0	22.2		ug/L		111	78 - 124	2	20
Toluene			20.0	21.3		ug/L		107	83 - 114	2	20
1,2,3-Trichlorobenzene			20.0	18.9		ug/L		95	73 - 128	5	20
1,2,4-Trichlorobenzene			20.0	20.6		ug/L		103	74 - 128	5	20
1,3,5-Trichlorobenzene			20.0	20.5		ug/L		102	81 - 124	0	20
1,1,1-Trichloroethane			20.0	26.4	*	ug/L		132	76 - 124	1	20
1,1,2-Trichloroethane			20.0	20.8		ug/L		104	83 - 120	1	20
Trichloroethene			20.0	21.4		ug/L		107	79 - 113	4	20
Trichlorofluoromethane (Freon 11)			20.0	21.5		ug/L		107	68 - 130	2	20
1,2,3-Trichloropropane			20.0	19.7		ug/L		98	74 - 116	0	20
1,2,4-Trimethylbenzene			20.0	22.9		ug/L		114	83 - 121	1	20
1,3,5-Trimethylbenzene			20.0	23.1		ug/L		116	82 - 125	0	20
Vinyl chloride			20.0	19.7		ug/L		98	49 - 145	2	20
m,p-Xylene			20.0	23.5		ug/L		118	82 - 128	2	20
o-Xylene			20.0	23.0		ug/L		115	83 - 122	1	20
Tetrahydrofuran			20.0	20.1		ug/L		100	59 - 134	1	20
Ethyl ether			20.0	20.9		ug/L		105	74 - 119	1	20
Tert-amyl methyl ether			20.0	20.1		ug/L		100	70 - 122	2	20
Ethyl tert-butyl ether			20.0	22.0		ug/L		110	72 - 122	0	20
di-Isopropyl ether			20.0	21.3		ug/L		106	66 - 130	1	20
tert-Butanol			200	199		ug/L		99	60 - 146	4	20
trans-1,4-Dichloro-2-butene			20.0	18.4		ug/L		92	57 - 146	1	20
Ethanol			400	464		ug/L		116	53 - 150	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*

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

Lab Sample ID: MB 620-52457/7
Matrix: Water
Analysis Batch: 52457

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/20/25 21:43	1
Acetone	3.91	J	10	0.90	ug/L			08/20/25 21:43	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/20/25 21:43	1
Benzene	1.0	U	1.0	0.25	ug/L			08/20/25 21:43	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/20/25 21:43	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/20/25 21:43	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/20/25 21:43	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/20/25 21:43	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/20/25 21:43	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/20/25 21:43	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/20/25 21:43	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/20/25 21:43	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/20/25 21:43	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/20/25 21:43	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/20/25 21:43	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/20/25 21:43	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/20/25 21:43	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/20/25 21:43	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/20/25 21:43	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/20/25 21:43	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/20/25 21:43	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/20/25 21:43	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/20/25 21:43	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/20/25 21:43	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/20/25 21:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/20/25 21:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/20/25 21:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/20/25 21:43	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/20/25 21:43	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/20/25 21:43	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/20/25 21:43	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/20/25 21:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/20/25 21:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/20/25 21:43	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/20/25 21:43	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/20/25 21:43	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/20/25 21:43	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/20/25 21:43	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/20/25 21:43	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/20/25 21:43	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/20/25 21:43	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/20/25 21:43	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/20/25 21:43	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/20/25 21:43	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/20/25 21:43	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/20/25 21:43	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/20/25 21:43	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/20/25 21:43	1

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

Lab Sample ID: MB 620-52457/7
Matrix: Water
Analysis Batch: 52457

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	2.0	U	2.0	0.70	ug/L			08/20/25 21:43	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/20/25 21:43	1
Styrene	1.0	U	1.0	0.42	ug/L			08/20/25 21:43	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/20/25 21:43	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/20/25 21:43	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/20/25 21:43	1
Toluene	1.0	U	1.0	0.28	ug/L			08/20/25 21:43	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/20/25 21:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/20/25 21:43	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/20/25 21:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/20/25 21:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/20/25 21:43	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/20/25 21:43	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/20/25 21:43	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/20/25 21:43	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/20/25 21:43	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/20/25 21:43	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/20/25 21:43	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/20/25 21:43	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/20/25 21:43	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/20/25 21:43	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/20/25 21:43	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/20/25 21:43	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/20/25 21:43	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/20/25 21:43	1
tert-Butanol	10	U	10	8.5	ug/L			08/20/25 21:43	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/20/25 21:43	1
Ethanol	200	U	200	9.1	ug/L			08/20/25 21:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/20/25 21:43*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/20/25 21:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*08/20/25 21:43*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*08/20/25 21:43*	*1*

Lab Sample ID: LCS 620-52457/4
Matrix: Water
Analysis Batch: 52457

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-Trichlorotrifluoroethane (Freon 113)	20.0	20.6		ug/L		103	72 - 120
Acetone	20.0	19.1		ug/L		96	19 - 144
Acrylonitrile	20.0	15.8		ug/L		79	67 - 141
Benzene	20.0	17.8		ug/L		89	82 - 120
Bromobenzene	20.0	19.1		ug/L		95	80 - 115
Bromochloromethane	20.0	18.0		ug/L		90	84 - 119
Bromodichloromethane	20.0	16.6		ug/L		83	77 - 118
Bromoform	20.0	20.0		ug/L		100	68 - 130

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

Lab Sample ID: LCS 620-52457/4
Matrix: Water
Analysis Batch: 52457

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	17.7		ug/L		89	27 - 151
2-Butanone (MEK)	20.0	14.7		ug/L		73	32 - 126
n-Butylbenzene	20.0	18.4		ug/L		92	81 - 129
sec-Butylbenzene	20.0	20.8		ug/L		104	81 - 124
tert-Butylbenzene	20.0	20.7		ug/L		103	80 - 128
Carbon disulfide	20.0	16.8		ug/L		84	67 - 136
Carbon tetrachloride	20.0	19.4		ug/L		97	70 - 129
Chlorobenzene	20.0	18.3		ug/L		92	82 - 112
Chloroethane	20.0	22.1		ug/L		111	47 - 142
Chloroform	20.0	18.3		ug/L		91	77 - 126
Chloromethane	20.0	14.6		ug/L		73	26 - 159
2-Chlorotoluene	20.0	19.8		ug/L		99	82 - 122
4-Chlorotoluene	20.0	19.1		ug/L		95	79 - 123
1,2-Dibromo-3-Chloropropane	20.0	17.9		ug/L		89	64 - 117
Dibromochloromethane	20.0	17.0		ug/L		85	71 - 126
1,2-Dibromoethane (EDB)	20.0	19.3		ug/L		96	83 - 122
Dibromomethane	20.0	18.1		ug/L		91	83 - 117
1,2-Dichlorobenzene	20.0	18.9		ug/L		95	87 - 118
1,3-Dichlorobenzene	20.0	19.2		ug/L		96	83 - 122
1,4-Dichlorobenzene	20.0	17.3		ug/L		86	81 - 115
Dichlorodifluoromethane (Freon 12)	20.0	18.0		ug/L		90	21 - 147
1,1-Dichloroethane	20.0	17.7		ug/L		88	84 - 122
1,2-Dichloroethane	20.0	16.1		ug/L		80	69 - 121
1,1-Dichloroethene	20.0	18.4		ug/L		92	83 - 123
cis-1,2-Dichloroethene	20.0	18.8		ug/L		94	85 - 122
trans-1,2-Dichloroethene	20.0	19.5		ug/L		98	84 - 123
1,2-Dichloropropane	20.0	17.7		ug/L		89	80 - 124
1,3-Dichloropropane	20.0	18.2		ug/L		91	80 - 118
2,2-Dichloropropane	20.0	20.8		ug/L		104	74 - 125
1,1-Dichloropropene	20.0	20.1		ug/L		101	76 - 120
cis-1,3-Dichloropropene	20.0	17.0		ug/L		85	76 - 125
trans-1,3-Dichloropropene	20.0	19.8		ug/L		99	77 - 132
Ethylbenzene	20.0	18.6		ug/L		93	85 - 116
Hexachlorobutadiene	20.0	22.2		ug/L		111	70 - 127
2-Hexanone (MBK)	20.0	16.6		ug/L		83	40 - 130
Isopropylbenzene	20.0	20.2		ug/L		101	78 - 122
4-Isopropyltoluene	20.0	17.9		ug/L		89	80 - 121
Methyl tert-butyl ether	20.0	21.6		ug/L		108	72 - 126
4-Methyl-2-pentanone (MIBK)	20.0	14.9		ug/L		74	59 - 130
Methylene Chloride	20.0	18.5		ug/L		93	77 - 124
Naphthalene	20.0	18.6		ug/L		93	57 - 133
N-Propylbenzene	20.0	19.7		ug/L		99	86 - 124
Styrene	20.0	18.0		ug/L		90	80 - 121
1,1,1,2-Tetrachloroethane	20.0	19.3		ug/L		96	81 - 113
1,1,2,2-Tetrachloroethane	20.0	17.2		ug/L		86	74 - 115
Tetrachloroethene	20.0	20.1		ug/L		101	78 - 124
Toluene	20.0	17.6		ug/L		88	83 - 114
1,2,3-Trichlorobenzene	20.0	20.6		ug/L		103	73 - 128

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

Lab Sample ID: LCS 620-52457/4
Matrix: Water
Analysis Batch: 52457

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,4-Trichlorobenzene			20.0	18.2		ug/L		91	74 - 128		
1,3,5-Trichlorobenzene			20.0	20.9		ug/L		104	81 - 124		
1,1,1-Trichloroethane			20.0	19.5		ug/L		97	76 - 124		
1,1,2-Trichloroethane			20.0	18.3		ug/L		92	83 - 120		
Trichloroethene			20.0	17.4		ug/L		87	79 - 113		
Trichlorofluoromethane (Freon 11)			20.0	21.8		ug/L		109	68 - 130		
1,2,3-Trichloropropane			20.0	18.2		ug/L		91	74 - 116		
1,2,4-Trimethylbenzene			20.0	18.4		ug/L		92	83 - 121		
1,3,5-Trimethylbenzene			20.0	19.7		ug/L		98	82 - 125		
Vinyl chloride			20.0	17.8		ug/L		89	49 - 145		
m,p-Xylene			40.0	39.8		ug/L		99	82 - 128		
o-Xylene			20.0	19.4		ug/L		97	83 - 122		
Tetrahydrofuran			20.0	14.8		ug/L		74	59 - 134		
Ethyl ether			20.0	16.2		ug/L		81	74 - 119		
Tert-amyl methyl ether			20.0	21.8		ug/L		109	70 - 122		
Ethyl tert-butyl ether			20.0	18.4		ug/L		92	72 - 122		
di-Isopropyl ether			20.0	15.1		ug/L		75	66 - 130		
tert-Butanol			200	209		ug/L		104	60 - 146		
trans-1,4-Dichloro-2-butene			20.0	15.1		ug/L		76	57 - 146		
Ethanol			400	294		ug/L		74	53 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 620-52457/5
Matrix: Water
Analysis Batch: 52457

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
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	18.7		ug/L		94	72 - 120	10	20
Acetone			20.0	15.7		ug/L		79	19 - 144	19	20
Acrylonitrile			20.0	16.1		ug/L		80	67 - 141	2	20
Benzene			20.0	16.6		ug/L		83	82 - 120	7	20
Bromobenzene			20.0	17.6		ug/L		88	80 - 115	8	20
Bromochloromethane			20.0	17.3		ug/L		87	84 - 119	4	20
Bromodichloromethane			20.0	15.7		ug/L		78	77 - 118	6	20
Bromoform			20.0	18.5		ug/L		93	68 - 130	8	20
Bromomethane			20.0	17.2		ug/L		86	27 - 151	3	20
2-Butanone (MEK)			20.0	13.2		ug/L		66	32 - 126	11	20
n-Butylbenzene			20.0	16.3		ug/L		81	81 - 129	12	20
sec-Butylbenzene			20.0	18.6		ug/L		93	81 - 124	11	20
tert-Butylbenzene			20.0	18.8		ug/L		94	80 - 128	10	20
Carbon disulfide			20.0	15.3		ug/L		76	67 - 136	9	20
Carbon tetrachloride			20.0	18.0		ug/L		90	70 - 129	8	20

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

Lab Sample ID: LCSD 620-52457/5
Matrix: Water
Analysis Batch: 52457

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
Chlorobenzene	20.0	16.9		ug/L		84	82 - 112	8	20
Chloroethane	20.0	18.3		ug/L		91	47 - 142	19	20
Chloroform	20.0	16.9		ug/L		85	77 - 126	8	20
Chloromethane	20.0	13.4		ug/L		67	26 - 159	9	20
2-Chlorotoluene	20.0	18.1		ug/L		90	82 - 122	9	20
4-Chlorotoluene	20.0	17.6		ug/L		88	79 - 123	8	20
1,2-Dibromo-3-Chloropropane	20.0	17.2		ug/L		86	64 - 117	4	20
Dibromochloromethane	20.0	16.1		ug/L		81	71 - 126	5	20
1,2-Dibromoethane (EDB)	20.0	18.4		ug/L		92	83 - 122	5	20
Dibromomethane	20.0	17.4		ug/L		87	83 - 117	4	20
1,2-Dichlorobenzene	20.0	17.2	*	ug/L		86	87 - 118	9	20
1,3-Dichlorobenzene	20.0	17.8		ug/L		89	83 - 122	8	20
1,4-Dichlorobenzene	20.0	15.7	*	ug/L		79	81 - 115	9	20
Dichlorodifluoromethane (Freon 12)	20.0	15.9		ug/L		80	21 - 147	13	20
1,1-Dichloroethane	20.0	16.6	*	ug/L		83	84 - 122	6	20
1,2-Dichloroethane	20.0	15.0		ug/L		75	69 - 121	7	20
1,1-Dichloroethene	20.0	16.8		ug/L		84	83 - 123	9	20
cis-1,2-Dichloroethene	20.0	17.7		ug/L		88	85 - 122	6	20
trans-1,2-Dichloroethene	20.0	17.8		ug/L		89	84 - 123	9	20
1,2-Dichloropropane	20.0	16.9		ug/L		84	80 - 124	5	20
1,3-Dichloropropane	20.0	17.2		ug/L		86	80 - 118	6	20
2,2-Dichloropropane	20.0	19.0		ug/L		95	74 - 125	9	20
1,1-Dichloropropene	20.0	18.1		ug/L		90	76 - 120	11	20
cis-1,3-Dichloropropene	20.0	16.3		ug/L		81	76 - 125	5	20
trans-1,3-Dichloropropene	20.0	18.5		ug/L		92	77 - 132	7	20
Ethylbenzene	20.0	16.9		ug/L		85	85 - 116	9	20
Hexachlorobutadiene	20.0	19.1		ug/L		96	70 - 127	15	20
2-Hexanone (MBK)	20.0	15.5		ug/L		77	40 - 130	7	20
Isopropylbenzene	20.0	18.1		ug/L		91	78 - 122	11	20
4-Isopropyltoluene	20.0	15.9		ug/L		80	80 - 121	11	20
Methyl tert-butyl ether	20.0	20.5		ug/L		102	72 - 126	6	20
4-Methyl-2-pentanone (MIBK)	20.0	14.2		ug/L		71	59 - 130	4	20
Methylene Chloride	20.0	17.6		ug/L		88	77 - 124	5	20
Naphthalene	20.0	17.0		ug/L		85	57 - 133	9	20
N-Propylbenzene	20.0	17.9		ug/L		89	86 - 124	10	20
Styrene	20.0	16.6		ug/L		83	80 - 121	8	20
1,1,1,2-Tetrachloroethane	20.0	17.7		ug/L		88	81 - 113	9	20
1,1,2,2-Tetrachloroethane	20.0	16.4		ug/L		82	74 - 115	5	20
Tetrachloroethene	20.0	18.2		ug/L		91	78 - 124	10	20
Toluene	20.0	16.4	*	ug/L		82	83 - 114	8	20
1,2,3-Trichlorobenzene	20.0	18.7		ug/L		94	73 - 128	9	20
1,2,4-Trichlorobenzene	20.0	16.6		ug/L		83	74 - 128	9	20
1,3,5-Trichlorobenzene	20.0	19.0		ug/L		95	81 - 124	9	20
1,1,1-Trichloroethane	20.0	18.1		ug/L		91	76 - 124	7	20
1,1,2-Trichloroethane	20.0	17.5		ug/L		87	83 - 120	5	20
Trichloroethene	20.0	16.2		ug/L		81	79 - 113	7	20
Trichlorofluoromethane (Freon 11)	20.0	19.6		ug/L		98	68 - 130	11	20

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

Lab Sample ID: LCSD 620-52457/5
Matrix: Water
Analysis Batch: 52457

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
1,2,3-Trichloropropane			20.0	17.1		ug/L		86	74 - 116	6	20
1,2,4-Trimethylbenzene			20.0	16.7		ug/L		83	83 - 121	10	20
1,3,5-Trimethylbenzene			20.0	17.7		ug/L		89	82 - 125	10	20
Vinyl chloride			20.0	16.2		ug/L		81	49 - 145	9	20
m,p-Xylene			40.0	36.6		ug/L		92	82 - 128	8	20
o-Xylene			20.0	17.9		ug/L		89	83 - 122	8	20
Tetrahydrofuran			20.0	14.6		ug/L		73	59 - 134	1	20
Ethyl ether			20.0	15.9		ug/L		80	74 - 119	2	20
Tert-amyl methyl ether			20.0	20.8		ug/L		104	70 - 122	5	20
Ethyl tert-butyl ether			20.0	17.4		ug/L		87	72 - 122	6	20
di-Isopropyl ether			20.0	14.3		ug/L		71	66 - 130	6	20
tert-Butanol			200	209		ug/L		105	60 - 146	0	20
trans-1,4-Dichloro-2-butene			20.0	14.3		ug/L		72	57 - 146	5	20
Ethanol			400	269		ug/L		67	53 - 150	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 620-52540/7
Matrix: Water
Analysis Batch: 52540

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/21/25 20:10	1
Acetone	10	U	10	0.90	ug/L			08/21/25 20:10	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/21/25 20:10	1
Benzene	1.0	U	1.0	0.25	ug/L			08/21/25 20:10	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/21/25 20:10	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/21/25 20:10	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/21/25 20:10	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/21/25 20:10	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/21/25 20:10	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/21/25 20:10	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/21/25 20:10	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/21/25 20:10	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/21/25 20:10	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/21/25 20:10	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/21/25 20:10	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/21/25 20:10	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/21/25 20:10	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/21/25 20:10	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/21/25 20:10	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/21/25 20:10	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/21/25 20:10	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/21/25 20:10	1

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

Lab Sample ID: MB 620-52540/7
Matrix: Water
Analysis Batch: 52540

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/21/25 20:10	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/21/25 20:10	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/21/25 20:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/21/25 20:10	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/21/25 20:10	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/21/25 20:10	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/21/25 20:10	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/21/25 20:10	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/21/25 20:10	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/21/25 20:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/21/25 20:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/21/25 20:10	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/21/25 20:10	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/21/25 20:10	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/21/25 20:10	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/21/25 20:10	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/21/25 20:10	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/21/25 20:10	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/21/25 20:10	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/21/25 20:10	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/21/25 20:10	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/21/25 20:10	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/21/25 20:10	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 20:10	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/21/25 20:10	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/21/25 20:10	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/21/25 20:10	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/21/25 20:10	1
Styrene	1.0	U	1.0	0.42	ug/L			08/21/25 20:10	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/21/25 20:10	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/21/25 20:10	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/21/25 20:10	1
Toluene	1.0	U	1.0	0.28	ug/L			08/21/25 20:10	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/21/25 20:10	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/21/25 20:10	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/21/25 20:10	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/21/25 20:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/21/25 20:10	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/21/25 20:10	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/21/25 20:10	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/21/25 20:10	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/21/25 20:10	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/21/25 20:10	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/21/25 20:10	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/21/25 20:10	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/21/25 20:10	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/21/25 20:10	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/21/25 20:10	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 20:10	1

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

Lab Sample ID: MB 620-52540/7
Matrix: Water
Analysis Batch: 52540

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/21/25 20:10	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 20:10	1
tert-Butanol	10	U	10	8.5	ug/L			08/21/25 20:10	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/21/25 20:10	1
Ethanol	200	U	200	9.1	ug/L			08/21/25 20:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/21/25 20:10*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/21/25 20:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*08/21/25 20:10*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*08/21/25 20:10*	*1*

Lab Sample ID: LCS 620-52540/4
Matrix: Water
Analysis Batch: 52540

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-Trichlorotrifluoroethane (Freon 113)	20.0	24.5	*	ug/L		122	72 - 120
Acetone	20.0	17.7		ug/L		88	19 - 144
Acrylonitrile	20.0	17.8		ug/L		89	67 - 141
Benzene	20.0	20.1		ug/L		101	82 - 120
Bromobenzene	20.0	22.1		ug/L		111	80 - 115
Bromochloromethane	20.0	21.6		ug/L		108	84 - 119
Bromodichloromethane	20.0	19.9		ug/L		100	77 - 118
Bromoform	20.0	23.2		ug/L		116	68 - 130
Bromomethane	20.0	22.6		ug/L		113	27 - 151
2-Butanone (MEK)	20.0	14.9		ug/L		75	32 - 126
n-Butylbenzene	20.0	19.8		ug/L		99	81 - 129
sec-Butylbenzene	20.0	23.6		ug/L		118	81 - 124
tert-Butylbenzene	20.0	23.8		ug/L		119	80 - 128
Carbon disulfide	20.0	19.5		ug/L		98	67 - 136
Carbon tetrachloride	20.0	23.4		ug/L		117	70 - 129
Chlorobenzene	20.0	20.9		ug/L		104	82 - 112
Chloroethane	20.0	29.1	*	ug/L		145	47 - 142
Chloroform	20.0	21.6		ug/L		108	77 - 126
Chloromethane	20.0	16.6		ug/L		83	26 - 159
2-Chlorotoluene	20.0	22.6		ug/L		113	82 - 122
4-Chlorotoluene	20.0	22.1		ug/L		110	79 - 123
1,2-Dibromo-3-Chloropropane	20.0	19.8		ug/L		99	64 - 117
Dibromochloromethane	20.0	20.4		ug/L		102	71 - 126
1,2-Dibromoethane (EDB)	20.0	22.4		ug/L		112	83 - 122
Dibromomethane	20.0	21.4		ug/L		107	83 - 117
1,2-Dichlorobenzene	20.0	21.1		ug/L		106	87 - 118
1,3-Dichlorobenzene	20.0	22.3		ug/L		112	83 - 122
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	81 - 115
Dichlorodifluoromethane (Freon 12)	20.0	20.4		ug/L		102	21 - 147
1,1-Dichloroethane	20.0	20.7		ug/L		103	84 - 122

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

Lab Sample ID: LCS 620-52540/4
Matrix: Water
Analysis Batch: 52540

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	20.0	19.3		ug/L		96	69 - 121
1,1-Dichloroethene	20.0	21.6		ug/L		108	83 - 123
cis-1,2-Dichloroethene	20.0	22.0		ug/L		110	85 - 122
trans-1,2-Dichloroethene	20.0	22.1		ug/L		110	84 - 123
1,2-Dichloropropane	20.0	20.5		ug/L		102	80 - 124
1,3-Dichloropropane	20.0	21.3		ug/L		106	80 - 118
2,2-Dichloropropane	20.0	24.3		ug/L		122	74 - 125
1,1-Dichloropropene	20.0	22.9		ug/L		114	76 - 120
cis-1,3-Dichloropropene	20.0	19.5		ug/L		98	76 - 125
trans-1,3-Dichloropropene	20.0	23.2		ug/L		116	77 - 132
Ethylbenzene	20.0	20.9		ug/L		104	85 - 116
Hexachlorobutadiene	20.0	23.8		ug/L		119	70 - 127
2-Hexanone (MBK)	20.0	17.0		ug/L		85	40 - 130
Isopropylbenzene	20.0	22.5		ug/L		112	78 - 122
4-Isopropyltoluene	20.0	18.9		ug/L		94	80 - 121
Methyl tert-butyl ether	20.0	24.5		ug/L		122	72 - 126
4-Methyl-2-pentanone (MIBK)	20.0	15.5		ug/L		78	59 - 130
Methylene Chloride	20.0	22.0		ug/L		110	77 - 124
Naphthalene	20.0	18.2		ug/L		91	57 - 133
N-Propylbenzene	20.0	22.3		ug/L		111	86 - 124
Styrene	20.0	20.4		ug/L		102	80 - 121
1,1,1,2-Tetrachloroethane	20.0	22.3		ug/L		111	81 - 113
1,1,2,2-Tetrachloroethane	20.0	19.8		ug/L		99	74 - 115
Tetrachloroethene	20.0	22.8		ug/L		114	78 - 124
Toluene	20.0	20.2		ug/L		101	83 - 114
1,2,3-Trichlorobenzene	20.0	21.9		ug/L		110	73 - 128
1,2,4-Trichlorobenzene	20.0	20.3		ug/L		102	74 - 128
1,3,5-Trichlorobenzene	20.0	22.9		ug/L		115	81 - 124
1,1,1-Trichloroethane	20.0	23.3		ug/L		117	76 - 124
1,1,2-Trichloroethane	20.0	21.6		ug/L		108	83 - 120
Trichloroethene	20.0	19.8		ug/L		99	79 - 113
Trichlorofluoromethane (Freon 11)	20.0	26.3	*	ug/L		132	68 - 130
1,2,3-Trichloropropane	20.0	20.5		ug/L		103	74 - 116
1,2,4-Trimethylbenzene	20.0	21.3		ug/L		107	83 - 121
1,3,5-Trimethylbenzene	20.0	22.5		ug/L		112	82 - 125
Vinyl chloride	20.0	20.5		ug/L		102	49 - 145
m,p-Xylene	40.0	45.5		ug/L		114	82 - 128
o-Xylene	20.0	21.8		ug/L		109	83 - 122
Tetrahydrofuran	20.0	15.6		ug/L		78	59 - 134
Ethyl ether	20.0	19.4		ug/L		97	74 - 119
Tert-amyl methyl ether	20.0	24.5		ug/L		122	70 - 122
Ethyl tert-butyl ether	20.0	20.7		ug/L		104	72 - 122
di-Isopropyl ether	20.0	17.0		ug/L		85	66 - 130
tert-Butanol	200	231		ug/L		115	60 - 146
trans-1,4-Dichloro-2-butene	20.0	19.5		ug/L		97	57 - 146
Ethanol	400	303		ug/L		76	53 - 150

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

Lab Sample ID: LCS 620-52540/4
Matrix: Water
Analysis Batch: 52540

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 620-52540/5
Matrix: Water
Analysis Batch: 52540

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
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	20.8		ug/L		104	72 - 120	16	20
Acetone			20.0	18.4		ug/L		92	19 - 144	4	20
Acrylonitrile			20.0	16.1		ug/L		80	67 - 141	10	20
Benzene			20.0	17.9		ug/L		89	82 - 120	12	20
Bromobenzene			20.0	19.3		ug/L		97	80 - 115	14	20
Bromochloromethane			20.0	18.8		ug/L		94	84 - 119	14	20
Bromodichloromethane			20.0	17.4		ug/L		87	77 - 118	13	20
Bromoform			20.0	20.9		ug/L		105	68 - 130	10	20
Bromomethane			20.0	20.3		ug/L		102	27 - 151	11	20
2-Butanone (MEK)			20.0	14.5		ug/L		73	32 - 126	3	20
n-Butylbenzene			20.0	17.6		ug/L		88	81 - 129	12	20
sec-Butylbenzene			20.0	20.5		ug/L		102	81 - 124	14	20
tert-Butylbenzene			20.0	20.9		ug/L		105	80 - 128	13	20
Carbon disulfide			20.0	16.8		ug/L		84	67 - 136	15	20
Carbon tetrachloride			20.0	20.5		ug/L		102	70 - 129	13	20
Chlorobenzene			20.0	18.8		ug/L		94	82 - 112	11	20
Chloroethane			20.0	23.5	*	ug/L		117	47 - 142	21	20
Chloroform			20.0	19.1		ug/L		96	77 - 126	12	20
Chloromethane			20.0	14.6		ug/L		73	26 - 159	13	20
2-Chlorotoluene			20.0	20.3		ug/L		101	82 - 122	11	20
4-Chlorotoluene			20.0	19.7		ug/L		99	79 - 123	11	20
1,2-Dibromo-3-Chloropropane			20.0	18.4		ug/L		92	64 - 117	8	20
Dibromochloromethane			20.0	17.9		ug/L		89	71 - 126	13	20
1,2-Dibromoethane (EDB)			20.0	19.9		ug/L		99	83 - 122	12	20
Dibromomethane			20.0	19.3		ug/L		96	83 - 117	10	20
1,2-Dichlorobenzene			20.0	18.8		ug/L		94	87 - 118	12	20
1,3-Dichlorobenzene			20.0	20.1		ug/L		100	83 - 122	10	20
1,4-Dichlorobenzene			20.0	17.4		ug/L		87	81 - 115	10	20
Dichlorodifluoromethane (Freon 12)			20.0	17.2		ug/L		86	21 - 147	17	20
1,1-Dichloroethane			20.0	18.2		ug/L		91	84 - 122	13	20
1,2-Dichloroethane			20.0	17.1		ug/L		85	69 - 121	12	20
1,1-Dichloroethene			20.0	18.6		ug/L		93	83 - 123	15	20
cis-1,2-Dichloroethene			20.0	19.2		ug/L		96	85 - 122	14	20
trans-1,2-Dichloroethene			20.0	19.1		ug/L		96	84 - 123	14	20
1,2-Dichloropropane			20.0	18.1		ug/L		90	80 - 124	13	20
1,3-Dichloropropane			20.0	18.8		ug/L		94	80 - 118	12	20
2,2-Dichloropropane			20.0	21.4		ug/L		107	74 - 125	13	20

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

Lab Sample ID: LCSD 620-52540/5
Matrix: Water
Analysis Batch: 52540

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
1,1-Dichloropropene			20.0	19.9		ug/L		100	76 - 120	14	20
cis-1,3-Dichloropropene			20.0	17.3		ug/L		86	76 - 125	12	20
trans-1,3-Dichloropropene			20.0	20.4		ug/L		102	77 - 132	13	20
Ethylbenzene			20.0	18.7		ug/L		93	85 - 116	11	20
Hexachlorobutadiene			20.0	20.6		ug/L		103	70 - 127	14	20
2-Hexanone (MBK)			20.0	15.6		ug/L		78	40 - 130	8	20
Isopropylbenzene			20.0	19.9		ug/L		99	78 - 122	12	20
4-Isopropyltoluene			20.0	17.2		ug/L		86	80 - 121	9	20
Methyl tert-butyl ether			20.0	21.6		ug/L		108	72 - 126	12	20
4-Methyl-2-pentanone (MIBK)			20.0	14.7		ug/L		73	59 - 130	6	20
Methylene Chloride			20.0	19.4		ug/L		97	77 - 124	13	20
Naphthalene			20.0	16.5		ug/L		83	57 - 133	10	20
N-Propylbenzene			20.0	19.9		ug/L		99	86 - 124	11	20
Styrene			20.0	18.2		ug/L		91	80 - 121	11	20
1,1,1,2-Tetrachloroethane			20.0	20.2		ug/L		101	81 - 113	10	20
1,1,2,2-Tetrachloroethane			20.0	18.0		ug/L		90	74 - 115	10	20
Tetrachloroethene			20.0	20.1		ug/L		100	78 - 124	13	20
Toluene			20.0	18.1		ug/L		91	83 - 114	11	20
1,2,3-Trichlorobenzene			20.0	19.1		ug/L		95	73 - 128	14	20
1,2,4-Trichlorobenzene			20.0	17.9		ug/L		90	74 - 128	13	20
1,3,5-Trichlorobenzene			20.0	20.4		ug/L		102	81 - 124	11	20
1,1,1-Trichloroethane			20.0	20.5		ug/L		103	76 - 124	13	20
1,1,2-Trichloroethane			20.0	19.2		ug/L		96	83 - 120	12	20
Trichloroethene			20.0	17.4		ug/L		87	79 - 113	13	20
Trichlorofluoromethane (Freon 11)			20.0	22.8		ug/L		114	68 - 130	14	20
1,2,3-Trichloropropane			20.0	18.7		ug/L		93	74 - 116	10	20
1,2,4-Trimethylbenzene			20.0	18.9		ug/L		94	83 - 121	12	20
1,3,5-Trimethylbenzene			20.0	19.7		ug/L		99	82 - 125	13	20
Vinyl chloride			20.0	17.4		ug/L		87	49 - 145	16	20
m,p-Xylene			40.0	40.6		ug/L		102	82 - 128	11	20
o-Xylene			20.0	19.5		ug/L		98	83 - 122	11	20
Tetrahydrofuran			20.0	14.9		ug/L		75	59 - 134	5	20
Ethyl ether			20.0	16.9		ug/L		84	74 - 119	14	20
Tert-amyl methyl ether			20.0	21.8		ug/L		109	70 - 122	12	20
Ethyl tert-butyl ether			20.0	18.3		ug/L		91	72 - 122	12	20
di-Isopropyl ether			20.0	15.2		ug/L		76	66 - 130	12	20
tert-Butanol			200	210		ug/L		105	60 - 146	9	20
trans-1,4-Dichloro-2-butene			20.0	17.4		ug/L		87	57 - 146	11	20
Ethanol			400	301		ug/L		75	53 - 150	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

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

Lab Sample ID: MB 620-52299/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 52418
Prep Batch: 52299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.19	ug/L		08/18/25 18:42	08/20/25 11:03	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*14*		*10 - 150*	*08/18/25 18:42*	*08/20/25 11:03*	*1*

Lab Sample ID: LCS 620-52299/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 52418
Prep Batch: 52299

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			4.00	5.57		ug/L		139	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*12*		*10 - 150*

Lab Sample ID: LCSD 620-52299/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 52418
Prep Batch: 52299

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			4.00	4.98		ug/L		125	40 - 140	11	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8	*12*		*10 - 150*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 410-686094/5
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 686094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/15/25 10:02	1

Lab Sample ID: LCS 410-686094/3
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 686094

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.750	0.722		mg/L		96	90 - 110		

Lab Sample ID: LCSD 410-686094/4
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 686094

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N			0.750	0.723		mg/L		96	90 - 110	0	20

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 620-28577-6 MS
Client Sample ID: MW-102IR/250813
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 686094

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	2.26		0.500	2.768		mg/L		102	90 - 110		

Lab Sample ID: 620-28577-6 DU
Client Sample ID: MW-102IR/250813
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 686094

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	2.26			2.251		mg/L				0.3	15

Lab Sample ID: MB 410-686095/5
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 686095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.50	U	1.50	0.60	mg/L			08/15/25 10:02	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/15/25 10:02	1

Lab Sample ID: LCS 410-686095/3
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 686095

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			3.00	2.976		mg/L		99	90 - 110		
Sulfate			7.50	7.438		mg/L		99	90 - 110		

Lab Sample ID: LCSD 410-686095/4
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 686095

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			3.00	2.973		mg/L		99	90 - 110	0	20
Sulfate			7.50	7.309		mg/L		97	90 - 110	2	20

Lab Sample ID: 620-28577-6 MS
Client Sample ID: MW-102IR/250813
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 686095

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	9.59		2.00	11.73		mg/L		107	90 - 110		
Sulfate	25.0		5.00	29.34	*	mg/L		87	90 - 110		

Lab Sample ID: 620-28577-6 DU
Client Sample ID: MW-102IR/250813
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 686095

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	9.59			9.555		mg/L				0.4	15
Sulfate	25.0			24.94		mg/L				0.2	15

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 410-686927/5
Matrix: Water
Analysis Batch: 686927

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.50	U	1.50	0.60	mg/L			08/15/25 18:04	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/15/25 18:04	1

Lab Sample ID: LCS 410-686927/3
Matrix: Water
Analysis Batch: 686927

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			3.00	2.940		mg/L		98	90 - 110		
Sulfate			7.50	7.262		mg/L		97	90 - 110		

Lab Sample ID: LCSD 410-686927/4
Matrix: Water
Analysis Batch: 686927

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
Chloride			3.00	2.942		mg/L		98	90 - 110	0	20
Sulfate			7.50	7.229		mg/L		96	90 - 110	0	20

Lab Sample ID: 410-235906-G-4 MS
Matrix: Water
Analysis Batch: 686927

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	37.5		20.0	55.91		mg/L		92	90 - 110		
Sulfate	15.0	U	50.0	50.52		mg/L		101	90 - 110		

Lab Sample ID: 410-235906-G-4 DU
Matrix: Water
Analysis Batch: 686927

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	37.5			37.46		mg/L				0	15
Sulfate	15.0	U		15.0	U	mg/L				NC	15

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 620-52116/1-A
Matrix: Water
Analysis Batch: 52265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.50	U	0.50	0.19	mg/L		08/14/25 15:34	08/15/25 11:37	1
Magnesium	0.040	U	0.040	0.038	mg/L		08/14/25 15:34	08/15/25 11:37	1
Potassium	1.0	U	1.0	0.34	mg/L		08/14/25 15:34	08/15/25 11:37	1
Sodium	1.5	U	1.5	0.28	mg/L		08/14/25 15:34	08/15/25 11:37	1

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

Lab Sample ID: LCS 620-52116/2-A
Matrix: Water
Analysis Batch: 52265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	4.50	4.25		mg/L		94	80 - 120
Iron	1.50	1.35		mg/L		90	80 - 120
Magnesium	1.50	1.44		mg/L		96	80 - 120
Potassium	15.0	13.80		mg/L		92	80 - 120
Sodium	4.50	4.19		mg/L		93	80 - 120

Lab Sample ID: 620-28600-C-1-C MS
Matrix: Water
Analysis Batch: 52265

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 52116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	14.2		4.50	21.14	N	mg/L		153	75 - 125
Iron	0.53		1.50	2.03		mg/L		100	75 - 125
Magnesium	25.6		1.50	31.59	4	mg/L		397	75 - 125
Potassium	1.1		15.0	15.94		mg/L		99	75 - 125
Sodium	13.5		4.50	20.21	N	mg/L		150	75 - 125

Lab Sample ID: 620-28600-C-1-B DU
Matrix: Water
Analysis Batch: 52265

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 52116

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	14.2		15.11		mg/L		6	20
Iron	0.53		0.573		mg/L		8	20
Magnesium	25.6		27.21		mg/L		6	20
Potassium	1.1		1.21		mg/L		13	20
Sodium	13.5		14.20		mg/L		5	20

Lab Sample ID: MB 620-52104/1-B
Matrix: Water
Analysis Batch: 52265

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 52116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.010	U	0.010	0.0056	mg/L		08/14/25 15:34	08/15/25 13:18	0.1

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-688227/113
Matrix: Water
Analysis Batch: 688227

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	8.0	U	8.0	2.6	mg/L			08/20/25 04:58	1

Lab Sample ID: LCS 410-688227/114
Matrix: Water
Analysis Batch: 688227

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	189	176.2		mg/L		93	80 - 110

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: LCSD 410-688227/115
Matrix: Water
Analysis Batch: 688227

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
Total Alkalinity			189	177.6		mg/L		94	80 - 110	1	10

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 410-688232/7
Matrix: Water
Analysis Batch: 688232

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.50	mg/L			08/19/25 21:37	1

Lab Sample ID: LCS 410-688232/6
Matrix: Water
Analysis Batch: 688232

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			50.0	47.15		mg/L		94	90 - 110		

Lab Sample ID: MRL 410-688232/1
Matrix: Water
Analysis Batch: 688232

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			1.00	0.939	J	mg/L		94	50 - 150		

Lab Sample ID: 620-28556-E-2 MS
Matrix: Water
Analysis Batch: 688232

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon	0.79	J	10.0	10.80		mg/L		100	90 - 110		

Lab Sample ID: 620-28556-E-2 DU
Matrix: Water
Analysis Batch: 688232

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon	0.79	J		0.735	J	mg/L				7	15

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
B	The analyte was found in an associated blank, as well as in the sample.
E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
U	Analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
*	MS or MSD is outside acceptance limits.
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Sample result is greater than the MDL but below the CRDL
N	Spiked sample recovery is not within control limits.
U	Indicates analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J	Sample result is greater than the MDL but below the CRDL
U	Indicates analyzed for but not detected.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 52249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-1	MW-17/250811	Total/NA	Water	8260C	
620-28577-3	MW-18/250813	Total/NA	Water	8260C	
620-28577-4	MW-103I/250813	Total/NA	Water	8260C	
620-28577-5	MW-102B/250813	Total/NA	Water	8260C	
620-28577-7	FB/250813	Total/NA	Water	8260C	
620-28577-8	TB/250813	Total/NA	Water	8260C	
MB 620-52249/7	Method Blank	Total/NA	Water	8260C	
LCS 620-52249/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-52249/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 52339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4 - DL	MW-103I/250813	Total/NA	Water	8260C	
620-28577-5 - DL	MW-102B/250813	Total/NA	Water	8260C	
620-28577-6 - DL	MW-102IR/250813	Total/NA	Water	8260C	
MB 620-52339/7	Method Blank	Total/NA	Water	8260C	
LCS 620-52339/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-52339/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 52457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-2	MW-19/250813	Total/NA	Water	8260C	
620-28577-6	MW-102IR/250813	Total/NA	Water	8260C	
MB 620-52457/7	Method Blank	Total/NA	Water	8260C	
LCS 620-52457/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-52457/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 52540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-1 - DL	MW-17/250811	Total/NA	Water	8260C	
620-28577-3 - DL	MW-18/250813	Total/NA	Water	8260C	
MB 620-52540/7	Method Blank	Total/NA	Water	8260C	
LCS 620-52540/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-52540/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 52299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Total/NA	Water	3510C	
620-28577-5	MW-102B/250813	Total/NA	Water	3510C	
620-28577-6	MW-102IR/250813	Total/NA	Water	3510C	
620-28577-7	FB/250813	Total/NA	Water	3510C	
MB 620-52299/1-A	Method Blank	Total/NA	Water	3510C	
LCS 620-52299/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 620-52299/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 52418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Total/NA	Water	8270D SIM ID	52299
620-28577-5	MW-102B/250813	Total/NA	Water	8270D SIM ID	52299

GC/MS Semi VOA (Continued)

Analysis Batch: 52418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-6	MW-102IR/250813	Total/NA	Water	8270D SIM ID	52299
620-28577-7	FB/250813	Total/NA	Water	8270D SIM ID	52299
MB 620-52299/1-A	Method Blank	Total/NA	Water	8270D SIM ID	52299
LCS 620-52299/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	52299
LCSD 620-52299/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM ID	52299

HPLC/IC

Analysis Batch: 686094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Total/NA	Water	9056A	
620-28577-5	MW-102B/250813	Total/NA	Water	9056A	
620-28577-6	MW-102IR/250813	Total/NA	Water	9056A	
620-28577-7	FB/250813	Total/NA	Water	9056A	
MB 410-686094/5	Method Blank	Total/NA	Water	9056A	
LCS 410-686094/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 410-686094/4	Lab Control Sample Dup	Total/NA	Water	9056A	
620-28577-6 MS	MW-102IR/250813	Total/NA	Water	9056A	
620-28577-6 DU	MW-102IR/250813	Total/NA	Water	9056A	

Analysis Batch: 686095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Total/NA	Water	9056A	
620-28577-5	MW-102B/250813	Total/NA	Water	9056A	
620-28577-6	MW-102IR/250813	Total/NA	Water	9056A	
620-28577-7	FB/250813	Total/NA	Water	9056A	
MB 410-686095/5	Method Blank	Total/NA	Water	9056A	
LCS 410-686095/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 410-686095/4	Lab Control Sample Dup	Total/NA	Water	9056A	
620-28577-6 MS	MW-102IR/250813	Total/NA	Water	9056A	
620-28577-6 DU	MW-102IR/250813	Total/NA	Water	9056A	

Analysis Batch: 686927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-5	MW-102B/250813	Total/NA	Water	9056A	
MB 410-686927/5	Method Blank	Total/NA	Water	9056A	
LCS 410-686927/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 410-686927/4	Lab Control Sample Dup	Total/NA	Water	9056A	
410-235906-G-4 MS	Matrix Spike	Total/NA	Water	9056A	
410-235906-G-4 DU	Duplicate	Total/NA	Water	9056A	

Metals

Filtration Batch: 52104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Dissolved	Water	Filtration	
620-28577-5	MW-102B/250813	Dissolved	Water	Filtration	
620-28577-6	MW-102IR/250813	Dissolved	Water	Filtration	
620-28577-7	FB/250813	Dissolved	Water	Filtration	
MB 620-52104/1-B	Method Blank	Dissolved	Water	Filtration	

Metals

Prep Batch: 52116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Dissolved	Water	3005A	52104
620-28577-4	MW-103I/250813	Total/NA	Water	3005A	
620-28577-5	MW-102B/250813	Dissolved	Water	3005A	52104
620-28577-5	MW-102B/250813	Total/NA	Water	3005A	
620-28577-6	MW-102IR/250813	Dissolved	Water	3005A	52104
620-28577-6	MW-102IR/250813	Total/NA	Water	3005A	
620-28577-7	FB/250813	Dissolved	Water	3005A	52104
620-28577-7	FB/250813	Total/NA	Water	3005A	
MB 620-52104/1-B	Method Blank	Dissolved	Water	3005A	52104
MB 620-52116/1-A	Method Blank	Total/NA	Water	3005A	
LCS 620-52116/2-A	Lab Control Sample	Total/NA	Water	3005A	
620-28600-C-1-C MS	Matrix Spike	Total/NA	Water	3005A	
620-28600-C-1-B DU	Duplicate	Total/NA	Water	3005A	

Analysis Batch: 52265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Dissolved	Water	6010D	52116
620-28577-4	MW-103I/250813	Total/NA	Water	6010D	52116
620-28577-5	MW-102B/250813	Dissolved	Water	6010D	52116
620-28577-5	MW-102B/250813	Total/NA	Water	6010D	52116
620-28577-6	MW-102IR/250813	Dissolved	Water	6010D	52116
620-28577-6	MW-102IR/250813	Total/NA	Water	6010D	52116
620-28577-7	FB/250813	Dissolved	Water	6010D	52116
620-28577-7	FB/250813	Total/NA	Water	6010D	52116
MB 620-52104/1-B	Method Blank	Dissolved	Water	6010D	52116
MB 620-52116/1-A	Method Blank	Total/NA	Water	6010D	52116
LCS 620-52116/2-A	Lab Control Sample	Total/NA	Water	6010D	52116
620-28600-C-1-C MS	Matrix Spike	Total/NA	Water	6010D	52116
620-28600-C-1-B DU	Duplicate	Total/NA	Water	6010D	52116

General Chemistry

Analysis Batch: 688227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Total/NA	Water	2320B-2011	
620-28577-5	MW-102B/250813	Total/NA	Water	2320B-2011	
620-28577-6	MW-102IR/250813	Total/NA	Water	2320B-2011	
620-28577-7	FB/250813	Total/NA	Water	2320B-2011	
MB 410-688227/113	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-688227/114	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 410-688227/115	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 688232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Total/NA	Water	5310 C-2014	
620-28577-6	MW-102IR/250813	Total/NA	Water	5310 C-2014	
620-28577-7	FB/250813	Total/NA	Water	5310 C-2014	
MB 410-688232/7	Method Blank	Total/NA	Water	5310 C-2014	
LCS 410-688232/6	Lab Control Sample	Total/NA	Water	5310 C-2014	
MRL 410-688232/1	Lab Control Sample	Total/NA	Water	5310 C-2014	
620-28556-E-2 MS	Matrix Spike	Total/NA	Water	5310 C-2014	

General Chemistry (Continued)

Analysis Batch: 688232 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28556-E-2 DU	Duplicate	Total/NA	Water	5310 C-2014	

Analysis Batch: 688387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Total/NA	Water	5310 C-2014	
620-28577-6	MW-102IR/250813	Total/NA	Water	5310 C-2014	
620-28577-7	FB/250813	Total/NA	Water	5310 C-2014	

Client Sample ID: MW-17/250811
Lab Sample ID: 620-28577-1
Date Collected: 08/11/25 15:50
Matrix: Water
Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52249	CLR	EET RI	08/18/25 15:06
Total/NA	Analysis	8260C	DL	10	52540	CLR	EET RI	08/21/25 22:23

Client Sample ID: MW-19/250813
Lab Sample ID: 620-28577-2
Date Collected: 08/13/25 10:35
Matrix: Water
Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52457	CLR	EET RI	08/21/25 01:15

Client Sample ID: MW-18/250813
Lab Sample ID: 620-28577-3
Date Collected: 08/13/25 11:40
Matrix: Water
Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52249	CLR	EET RI	08/18/25 15:52
Total/NA	Analysis	8260C	DL	50	52540	CLR	EET RI	08/21/25 22:50

Client Sample ID: MW-103I/250813
Lab Sample ID: 620-28577-4
Date Collected: 08/13/25 12:35
Matrix: Water
Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52249	CLR	EET RI	08/18/25 16:15
Total/NA	Analysis	8260C	DL	10	52339	CLR	EET RI	08/19/25 16:45
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 15:09
Total/NA	Analysis	9056A		1	686094	KJQ8	ELLE	08/15/25 10:10
Total/NA	Analysis	9056A		1	686095	KJQ8	ELLE	08/15/25 10:10
Dissolved	Filtration	Filtration			52104	JPC	EET RI	08/14/25 11:20
Dissolved	Prep	3005A			52116	SRC	EET RI	08/14/25 15:34
Dissolved	Analysis	6010D		1	52265	JPC	EET RI	08/15/25 13:24
Total/NA	Prep	3005A			52116	SRC	EET RI	08/14/25 15:34
Total/NA	Analysis	6010D		1	52265	JPC	EET RI	08/15/25 12:42
Total/NA	Analysis	2320B-2011		1	688227	DI9Q	ELLE	08/20/25 06:44
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/20/25 05:35
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/20/25 05:35

Client Sample ID: MW-102B/250813
Lab Sample ID: 620-28577-5
Date Collected: 08/13/25 15:10
Matrix: Water
Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52249	CLR	EET RI	08/18/25 16:37

Client Sample ID: MW-102B/250813
Lab Sample ID: 620-28577-5

Date Collected: 08/13/25 15:10
Matrix: Water
Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C	DL	10	52339	CLR	EET RI	08/19/25 17:08
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		10	52418	JS	EET RI	08/20/25 16:36
Total/NA	Analysis	9056A		1	686094	KJQ8	ELLE	08/15/25 10:26
Total/NA	Analysis	9056A		1	686095	KJQ8	ELLE	08/15/25 10:26
Total/NA	Analysis	9056A		5	686927	KJQ8	ELLE	08/15/25 22:53
Dissolved	Filtration	Filtration			52104	JPC	EET RI	08/14/25 11:20
Dissolved	Prep	3005A			52116	SRC	EET RI	08/14/25 15:34
Dissolved	Analysis	6010D		1	52265	JPC	EET RI	08/15/25 13:30
Total/NA	Prep	3005A			52116	SRC	EET RI	08/14/25 15:34
Total/NA	Analysis	6010D		1	52265	JPC	EET RI	08/15/25 12:48
Total/NA	Analysis	2320B-2011		1	688227	DI9Q	ELLE	08/20/25 06:51

Client Sample ID: MW-102IR/250813
Lab Sample ID: 620-28577-6

Date Collected: 08/13/25 15:30
Matrix: Water
Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C	DL	10	52339	CLR	EET RI	08/19/25 17:31
Total/NA	Analysis	8260C		1	52457	CLR	EET RI	08/21/25 01:42
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 16:02
Total/NA	Analysis	9056A		1	686094	KJQ8	ELLE	08/15/25 10:34
Total/NA	Analysis	9056A		1	686095	KJQ8	ELLE	08/15/25 10:34
Dissolved	Filtration	Filtration			52104	JPC	EET RI	08/14/25 11:20
Dissolved	Prep	3005A			52116	SRC	EET RI	08/14/25 15:34
Dissolved	Analysis	6010D		1	52265	JPC	EET RI	08/15/25 13:36
Total/NA	Prep	3005A			52116	SRC	EET RI	08/14/25 15:34
Total/NA	Analysis	6010D		1	52265	JPC	EET RI	08/15/25 12:54
Total/NA	Analysis	2320B-2011		1	688227	DI9Q	ELLE	08/20/25 06:58
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/20/25 05:55
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/20/25 05:55

Client Sample ID: FB/250813
Lab Sample ID: 620-28577-7

Date Collected: 08/13/25 15:00
Matrix: Water
Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52249	CLR	EET RI	08/18/25 17:23
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 16:19
Total/NA	Analysis	9056A		1	686094	KJQ8	ELLE	08/15/25 10:18
Total/NA	Analysis	9056A		1	686095	KJQ8	ELLE	08/15/25 10:18

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28577-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: FB/250813
Lab Sample ID: 620-28577-7

Date Collected: 08/13/25 15:00
Matrix: Water
Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Filtration	Filtration			52104	JPC	EET RI	08/14/25 11:20
Dissolved	Prep	3005A			52116	SRC	EET RI	08/14/25 15:34
Dissolved	Analysis	6010D		1	52265	JPC	EET RI	08/15/25 13:42
Total/NA	Prep	3005A			52116	SRC	EET RI	08/14/25 15:34
Total/NA	Analysis	6010D		1	52265	JPC	EET RI	08/15/25 13:00
Total/NA	Analysis	2320B-2011		1	688227	DI9Q	ELLE	08/20/25 07:15
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/20/25 06:14
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/20/25 06:14

Client Sample ID: TB/250813
Lab Sample ID: 620-28577-8

Date Collected: 08/13/25 00:00
Matrix: Water
Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52249	CLR	EET RI	08/18/25 12:25

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28577-1
Project/Site: ESCO Steel Treaters Project

Laboratory: Eurofins Rhode Island

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11393	03-31-26

The following analytes are included in this report, but the laboratory is not certified by New York NELAP 11393. This list may include analytes for which the agency does not offer certification:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C		Water	1,2,3-Trichlorobenzene
8260C		Water	1,3,5-Trichlorobenzene
8260C		Water	4-Isopropyltoluene
8260C		Water	Chloromethane
8260C		Water	di-Isopropyl ether
8260C		Water	Ethyl tert-butyl ether
8260C		Water	Isopropylbenzene
8270D SIM ID	3510C	Water	1,4-Dioxane

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	08-27-25
A2LA	Dept. of Energy	0001.01	08-27-25
A2LA	ISO/IEC 17025	0001.01	08-27-25
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-26
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-26
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-26
Connecticut	State	PH-0746	06-30-27
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	07-01-26
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	08-27-25
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-26
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-26

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-26
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-26
North Carolina (WW/SW)	State	521	09-01-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	08-24-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	09-03-25
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	08-27-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
1,4D-LVI-Sur_00001	08/25/25	02/25/25	MeCl2, Lot 225682	1000 uL	MSS-1,4-D-Sur_00011	100 uL	1,4-Dioxane-d8	100 ug/mL
.MSS-1,4-D-Sur_00011	12/05/25	Absolute Standards, Inc, Lot 031424			(Purchased Reagent)		1,4-Dioxane-d8	1000 ug/mL
MSS-1,4-CAL1_00020	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	10 uL	1,4-Dioxane	0.050225 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL2_00019	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	20 uL	1,4-Dioxane	0.10045 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL3_00020	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	50 uL	1,4-Dioxane	0.251125 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL4_00019	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	100 uL	1,4-Dioxane	0.50225 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL5_00021	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	200 uL	1,4-Dioxane	1.0045 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL6_00020	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	500 uL	1,4-Dioxane	2.51125 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-CAL7_00017	08/01/25	05/28/25	MeCl2, Lot na	1 mL	MSS-1,4-Stock_00018	1 mL	1,4-Dioxane	5.0225 ug/mL
.MSS-1,4-Stock_00018	08/01/25	02/04/25	MeCl2, Lot na	10 mL	MSV-1,4-D-STD_00005	25 uL	1,4-Dioxane	5.0225 ug/mL
..MSV-1,4-D-STD_00005	07/17/26	Agilent, Lot 0006767288			(Purchased Reagent)		1,4-Dioxane	2009 ug/mL
MSS-1,4-ICV_00024	11/28/25	05/28/25	MeCl2, Lot na	10 mL	MSS-1,4-D-SS_00005	10 uL	1,4-Dioxane	1 ug/mL
.MSS-1,4-D-SS_00005	03/11/26	Absolute Standards, Inc, Lot 011024			(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
MSS-1,4D-IS_00001							4,4'-DDD	
							4,4'-DDE	
							4,4'-DDT	
							Benzidine_T	
							DFTPP	
							Pentachlorophenol_T	
					SV-ISTD8270_00025	125 uL	1,4-Dichlorobenzene-d4	12.5219 ug/mL
.SV-ISTD8270_00025	02/20/26	Restek, Lot A0218138			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2003.5 ug/mL
MT_ICP_Cal2RL_00040	07/01/27	12/11/24	DI Water, Lot n/a	500 mL	MT_PST_AQCRLA_00006	0.5 mL	Calcium	0.2 mg/L
							Iron	0.1 mg/L
							Magnesium	0.02 mg/L
							Potassium	1 mg/L
							Sodium	1.5 mg/L
.MT_PST_AQCRLA_00006	07/01/29	inorganic Ventures, Lot v2-meb745428			(Purchased Reagent)		Calcium	200 ug/mL
							Iron	100 ug/mL
							Magnesium	20 ug/mL
							Potassium	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Sodium	1500 ug/mL
MT_ICP_CCV_00046	01/10/26	10/29/24	DI Water, Lot n/a	250 mL	MT_PST_CCVA_00007	6.25 mL	Calcium	10 mg/L
							Iron	10 mg/L
							Magnesium	10 mg/L
							Potassium	10 mg/L
							Sodium	10 mg/L
.MT_PST_CCVA_00007	01/10/26	High Purity, Lot 2400332-250			(Purchased Reagent)		Calcium	400 mg/L
							Iron	400 mg/L
							Magnesium	400 mg/L
							Potassium	400 mg/L
							Sodium	400 mg/L
MT_ICP_ICSA_00042	02/28/26	02/25/25	DI Water, Lot n/a	250 mL	MT_PST_CLPINF_00008	10 mL	Al	200 mg/L
							Calcium	200 mg/L
							Iron	80 mg/L
							Magnesium	200 mg/L
.MT_PST_CLPINF_00008	02/28/26	environmental Express, Lot 2404549-500			(Purchased Reagent)		Al	5000 mg/L
							Calcium	5000 mg/L
							Iron	2000 mg/L
							Magnesium	5000 mg/L
MT_ICP_ICSAB_00046	02/28/26	03/05/25	DI Water, Lot n/a	250 mL	MT_PST_CLPINF_00009	10 mL	Al	200 mg/L
							Calcium	200 mg/L
							Iron	80 mg/L
							Magnesium	200 mg/L
					MT_PST_IFBSOL_00009	1.25 mL	Ag	0.5 mg/L
							As	0.5 mg/L
							Ba	0.25 mg/L
							Be	0.25 mg/L
							Cd	0.5 mg/L
							Co	0.25 mg/L
							Cr	0.25 mg/L
							Cu	0.25 mg/L
							Mn	0.25 mg/L
							Ni	0.5 mg/L
							Pb	0.5 mg/L
							Sb	0.3 mg/L
							Se	0.5 mg/L
							Tl	0.5 mg/L
							V	0.25 mg/L
							Zn	0.5 mg/L
.MT_PST_CLPINF_00009	07/15/26	CPI, Lot 1466098			(Purchased Reagent)		Al	5000 mg/L
							Calcium	5000 mg/L
							Iron	2000 mg/L
							Magnesium	5000 mg/L
.MT_PST_IFBSOL_00009	06/05/26	Inorganic Ventures, Lot v2-meb744057			(Purchased Reagent)		Ag	100 mg/L
							As	100 mg/L
							Ba	50 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Be	50 mg/L
							Cd	100 mg/L
							Co	50 mg/L
							Cr	50 mg/L
							Cu	50 mg/L
							Mn	50 mg/L
							Ni	100 mg/L
							Pb	100 mg/L
							Sb	60 mg/L
							Se	100 mg/L
							Tl	100 mg/L
							V	50 mg/L
							Zn	100 mg/L
MT_ICP_ICV_00055	09/13/25	04/15/25	DI Water, Lot n/a	250 mL	MT_SST_QC1_00020	12.5 mL	Calcium	5 mg/L
							Iron	5 mg/L
							Magnesium	5 mg/L
					MT_SST_QC2_00020	12.5 mL	Potassium	50 mg/L
							Sodium	5 mg/L
.MT_SST_QC1_00020	06/13/26	AccuStandard, Lot 224055035			(Purchased Reagent)		Calcium	100 mg/L
							Iron	100 mg/L
							Magnesium	100 mg/L
.MT_SST_QC2_00020	09/16/25	Accustandard, Lot 222045096-02			(Purchased Reagent)		Potassium	1000 mg/L
							Sodium	100 mg/L
MT_ICP_SPIKE_00130	09/16/25	06/02/25	DI Water, Lot n/a	100 mL	MT_PST_Ag_00006	1.25 mL	Ag	25 mg/L
					MT_SST_Ca_00006	0.5 mL	Calcium	75 mg/L
							Calcium hardness as calcium carbonate	187.5 mg/L
							Hardness as calcium carbonate	125 mg/L
					MT_SST_Na_00006	0.5 mL	Sodium	75 mg/L
					MT_SST_QC1_00020	25 mL	As	25 mg/L
							Be	25 mg/L
							Calcium	75 mg/L
							Calcium hardness as calcium carbonate	187.5 mg/L
							Cd	25 mg/L
							Co	25 mg/L
							Cr	25 mg/L
							Cu	25 mg/L
							Iron	25 mg/L
							Li	25 mg/L
							Magnesium	25 mg/L
							Mn	25 mg/L
							Mo	25 mg/L
							Ni	25 mg/L
							P	25 mg/L
							Pb	25 mg/L
							Sb	25 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Se	25 mg/L
							Sn	25 mg/L
							Sr	25 mg/L
							Ti	25 mg/L
							Tl	25 mg/L
							V	25 mg/L
							Zn	25 mg/L
					MT_SST_QC2_00020	25 mL	Ag	25 mg/L
							Al	25 mg/L
							B	25 mg/L
							Ba	25 mg/L
							Potassium	250 mg/L
							Si	125 mg/L
							SiO2	267.5 mg/L
							Sodium	75 mg/L
					MT_SST_S_00008	1 mL	Sulfur	100 mg/L
.MT_PST_Ag_00006	04/30/26	HPS, Lot 2415524-100			(Purchased Reagent)		Ag	1000 ug/mL
.MT_SST_Ca_00006	04/06/28	AccuStandard, Lot 223045009			(Purchased Reagent)		Calcium	10000 ug/mL
							Calcium hardness as calcium carbonate	25000 ug/mL
							Hardness as calcium carbonate	25000 ug/mL
.MT_SST_Na_00006	09/13/28	AccuStandard, Lot 221085140-01			(Purchased Reagent)		Sodium	10000 mg/L
.MT_SST_QC1_00020	06/13/26	AccuStandard, Lot 224055035			(Purchased Reagent)		As	100 mg/L
							Be	100 mg/L
							Calcium	100 mg/L
							Calcium hardness as calcium carbonate	250 mg/L
							Cd	100 mg/L
							Co	100 mg/L
							Cr	100 mg/L
							Cu	100 mg/L
							Iron	100 mg/L
							Li	100 mg/L
							Magnesium	100 mg/L
							Mn	100 mg/L
							Mo	100 mg/L
							Ni	100 mg/L
							P	100 mg/L
							Pb	100 mg/L
							Sb	100 mg/L
							Se	100 mg/L
							Sn	100 mg/L
							Sr	100 mg/L
							Ti	100 mg/L
							Tl	100 mg/L
							V	100 mg/L
							Zn	100 mg/L
.MT_SST_QC2_00020	09/16/25	Accustandard, Lot 222045096-02			(Purchased Reagent)		Ag	50 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Al	100 mg/L
							B	100 mg/L
							Ba	100 mg/L
							Potassium	1000 mg/L
							Si	500 mg/L
							SiO2	1070 mg/L
							Sodium	100 mg/L
.MT_SST_S_00008	11/09/27	Accustandard, Lot 222115054			(Purchased Reagent)		Sulfur	10000 ug/mL
OP-LCS-1,4-D_00080	01/22/26	07/22/25	Methanol, Lot 245552	10 mL	MSS-1,4-D-SS_00005	10 uL	1,4-Dioxane	1 ug/mL
.MSS-1,4-D-SS_00005	03/11/26	Absolute Standards, Inc, Lot 011024			(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
OP-SUR-1.4-D_00100	12/05/25	06/24/25	Methanol, Lot 245402	50 mL	MSS-1,4-D-Sur_00011	50 uL	1,4-Dioxane-d8	1 ug/mL
.MSS-1,4-D-Sur_00011	12/05/25	Absolute Standards, Inc, Lot 031424			(Purchased Reagent)		1,4-Dioxane-d8	1000 ug/mL
VO8260BFB_00010							1,2-Dichloroethane-d4 (Surr)	
							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							1,4-Dichlorobenzene-d4	
							4-Bromofluorobenzene (Surr)	
							BFB	50 ug/mL
							Chlorobenzene-d5	
							Dibromofluoromethane (Surr)	
							Fluorobenzene	
							Tentatively Identified Compound	
							Toluene-d8 (Surr)	
							Trihalomethanes, Total	
							Xylenes, Total	
VO8260BFB_00011							1,2-Dichloroethane-d4 (Surr)	
							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							1,4-Dichlorobenzene-d4	
							4-Bromofluorobenzene (Surr)	
							BFB	50 ug/mL
							Chlorobenzene-d5	
							Dibromofluoromethane (Surr)	
							Fluorobenzene	
							Tentatively Identified Compound	
							Toluene-d8 (Surr)	
							Trihalomethanes, Total	
							Xylenes, Total	
VO8260IS/SS_00026	11/12/25	05/12/25	methanol, Lot 0000288059	50 mL	VO8260ISSur_00018	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							1,4-Dichlorobenzene-d4	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorobenzene	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VO8260ISSur_00018	05/12/26		Agilent, Lot 0006813471		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							1,4-Dichlorobenzene-d4	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Fluorobenzene	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VO8260Primary_00142	07/24/26		Agilent, Lot 0006837291		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane (Freon 113)	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	500 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Butanone (MEK)	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Hexanone (MBK)	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							4-Methyl-2-pentanone (MIBK)	50 ug/mL
							Acetone	50 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromomethane	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloroform	50 ug/mL
							Chloromethane	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							di-Isopropyl ether	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorodifluoromethane (Freon 12)	50 ug/mL
							Ethanol	1000 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Iodomethane	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m,p-Xylene	50 ug/mL
							Methyl acetate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							tert-Butanol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trichlorofluoromethane (Freon 11)	50 ug/mL
							Vinyl chloride	50 ug/mL
VO8260Primary_00143	07/29/26	Agilent, Lot 0006837291			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane (Freon 113)	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	500 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Butanone (MEK)	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Hexanone (MBK)	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							4-Methyl-2-pentanone (MIBK)	50 ug/mL
							Acetone	50 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Bromomethane	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloroform	50 ug/mL
							Chloromethane	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							di-Isopropyl ether	50 ug/mL

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorodifluoromethane (Freon 12)	50 ug/mL
							Ethanol	1000 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Iodomethane	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m,p-Xylene	50 ug/mL
							Methyl acetate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							tert-Butanol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trichlorofluoromethane (Freon 11)	50 ug/mL
							Vinyl chloride	50 ug/mL
VO8260Second_00123	07/16/26		Absolute, Lot 011625		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane (Freon 113)	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Butanone (MEK)	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Hexanone (MBK)	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							4-Methyl-2-pentanone (MIBK)	50 ug/mL
							Acetone	50 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Bromomethane	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloroform	50 ug/mL
							Chloromethane	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							di-Isopropyl ether	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorodifluoromethane (Freon 12)	50 ug/mL
							Ethanol	1000 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m,p-Xylene	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							tert-Butanol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trichlorofluoromethane (Freon 11)	50 ug/mL
							Vinyl chloride	50 ug/mL
VO8260Second_00125	08/04/26		Absolute, Lot 011625		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane (Freon 113)	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Butanone (MEK)	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Hexanone (MBK)	50 ug/mL
							4-Chlorotoluene	50 ug/mL

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Isopropyltoluene	50 ug/mL
							4-Methyl-2-pentanone (MIBK)	50 ug/mL
							Acetone	50 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Bromomethane	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloroform	50 ug/mL
							Chloromethane	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							di-Isopropyl ether	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorodifluoromethane (Freon 12)	50 ug/mL
							Ethanol	1000 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m,p-Xylene	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							tert-Butanol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane (Freon 11)	50 ug/mL
							Vinyl chloride	50 ug/mL
VOEM/VA_Prim_00002	07/29/25	07/22/25	Methanol, Lot EH675-US	2 mL	VOEM_Primary_00001	100 uL	Ethyl methacrylate	50 ug/mL
					VOVAPrimary_00015	20 uL	Vinyl acetate	50 ug/mL
.VOEM_Primary_00001	06/18/26	Agilent, Lot 0006852323			(Purchased Reagent)		Ethyl methacrylate	1000 ug/mL
.VOVAPrimary_00015	09/30/25	Restek, Lot A0209567			(Purchased Reagent)		Vinyl acetate	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
WC_Alk_LCS_00025	10/24/25	07/24/25	DI Water, Lot -	2 L	WC_Alk_Std_00025	40 mL	Total Alkalinity	188.869 mg/L
.WC_Alk_Std_00025	10/24/25	Fisher (Na2CO3), Lot 250579			(Purchased Reagent)		Total Alkalinity	9443.43 mg/L
WC_Alk_LCS_00027	10/24/25	07/24/25	DI Water, Lot -	4 L	WC_Alk_Std_00025	39.82 mL	Total Alkalinity	94.0094 mg/L
.WC_Alk_Std_00025	10/24/25	Fisher (Na2CO3), Lot 250579			(Purchased Reagent)		Total Alkalinity	9443.43 mg/L
WC_IC_C_Det_00228	08/13/25	08/11/25	DI Water, Lot DI	50 mL	WC_IC_C_Br_00009	2.5 mL	Bromide	50 ug/mL
					WC_IC_C_Cl_00012	2 mL	Chloride	40 ug/mL
					WC_IC_C_F_00010	0.5 mL	Fluoride	10 ug/mL
					WC_IC_C_NO2_00007	0.5 mL	Nitrite as N	10 ug/mL
					WC_IC_C_NO3_00009	0.5 mL	Nitrate as N	10 ug/mL
					WC_IC_Q_SO4_00018	5 mL	Sulfate	100 ug/mL
.WC_IC_C_Br_00009	03/18/27	Absolute Standards, Lot 031824			(Purchased Reagent)		Bromide	1000 ug/mL
.WC_IC_C_Cl_00012	06/10/26	INORGANIC VENTURES, Lot U2-CL731103			(Purchased Reagent)		Chloride	1000 ug/mL
.WC_IC_C_F_00010	12/05/25	Inorganic Ventures, Lot V2-F740739			(Purchased Reagent)		Fluoride	1000 ug/mL
.WC_IC_C_NO2_00007	08/10/26	Absolute Standards, Inc., Lot 081023			(Purchased Reagent)		Nitrite as N	1000 ug/mL
.WC_IC_C_NO3_00009	07/24/27	Absolute Standards, Lot 072424			(Purchased Reagent)		Nitrate as N	1000 ug/mL
.WC_IC_Q_SO4_00018	06/10/27	Absolute Standards, Lot 061024			(Purchased Reagent)		Sulfate	1000 ug/mL
WC_IC_QC2_01435	08/12/25	08/11/25	DI Water, Lot IC	50 mL	WC_IC_Q_Cl_00016	1 mL	Chloride	20 ug/mL
					WC_IC_Q_NO3_00007	0.25 mL	Nitrate as N	5 ug/mL
					WC_IC_Q_SO4_00019	2.5 mL	Sulfate	50 ug/mL
.WC_IC_Q_Cl_00016	03/11/28	ABSOLUTE STANDARDS, Lot 031125			(Purchased Reagent)		Chloride	1000 ug/mL
.WC_IC_Q_NO3_00007	10/29/27	Absoslute Standards, Lot 102924			(Purchased Reagent)		Nitrate as N	1000 ug/mL
.WC_IC_Q_SO4_00019	05/05/28	ABSOLUTE STANDARDS, Lot 050525			(Purchased Reagent)		Sulfate	1000 ug/mL
WC_IC_QC2_01438	08/15/25	08/14/25	DI Water, Lot IC	50 mL	WC_IC_Q_Cl_00016	1 mL	Chloride	20 ug/mL
					WC_IC_Q_NO3_00007	0.25 mL	Nitrate as N	5 ug/mL
					WC_IC_Q_SO4_00019	2.5 mL	Sulfate	50 ug/mL
.WC_IC_Q_Cl_00016	03/11/28	ABSOLUTE STANDARDS, Lot 031125			(Purchased Reagent)		Chloride	1000 ug/mL
.WC_IC_Q_NO3_00007	10/29/27	Absoslute Standards, Lot 102924			(Purchased Reagent)		Nitrate as N	1000 ug/mL
.WC_IC_Q_SO4_00019	05/05/28	ABSOLUTE STANDARDS, Lot 050525			(Purchased Reagent)		Sulfate	1000 ug/mL
WC_IC_QC2_01441	08/19/25	08/18/25	DI Water, Lot IC	50 mL	WC_IC_Q_Cl_00016	1 mL	Chloride	20 ug/mL
					WC_IC_Q_SO4_00019	2.5 mL	Sulfate	50 ug/mL
.WC_IC_Q_Cl_00016	03/11/28	ABSOLUTE STANDARDS, Lot 031125			(Purchased Reagent)		Chloride	1000 ug/mL
.WC_IC_Q_SO4_00019	05/05/28	ABSOLUTE STANDARDS, Lot 050525			(Purchased Reagent)		Sulfate	1000 ug/mL
WC_TIC_QC_00067	09/17/25	08/18/25	DI Water, Lot Flow	100 mL	WC_TC_Q_BCarb_00008	0.1754 g	Total Carbon	500.326 mg/L
							Total Carbon Res 1	500.326 mg/L
							Total Carbon Res 2	500.326 mg/L
							Total Carbon Res 3	500.326 mg/L
					WC_TC_Q_Carb_00011	0.2208 g	Total Carbon	500.326 mg/L
							Total Carbon Res 1	500.326 mg/L
							Total Carbon Res 2	500.326 mg/L
							Total Carbon Res 3	500.326 mg/L
.WC_TC_Q_BCarb_00008	11/30/26	Sigma-Aldrich, Lot AD-22192			(Purchased Reagent)		Total Carbon	0.143 g/g
							Total Carbon Res 1	0.143 g/g
							Total Carbon Res 2	0.143 g/g
							Total Carbon Res 3	0.143 g/g

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.WC_TC_Q_Carb_00011	05/15/30	LabChem, Lot 45040435			(Purchased Reagent)		Total Carbon	0.113 g/g
							Total Carbon Res 1	0.113 g/g
							Total Carbon Res 2	0.113 g/g
							Total Carbon Res 3	0.113 g/g
WC_TOC_QC_STD_00075	09/17/25	08/18/25	DI Water, Lot Flow	1 L	WC_FL_KHP_3_00007	1.0633 g	TOC Result 1	500.283 mg/L
							TOC Result 2	500.283 mg/L
							TOC Result 3	500.283 mg/L
							Total Organic Carbon	500.283 mg/L
.WC_FL_KHP_3_00007	12/24/25	Acros Organics, Lot A0414437			(Purchased Reagent)		TOC Result 1	0.4705 g/g
							TOC Result 2	0.4705 g/g
							TOC Result 3	0.4705 g/g
							Total Organic Carbon	0.4705 g/g

Reagent

MSS-1,4-D-SS_00005

ABSOLUTE STANDARDS, INC.

ISO - 17034

Certificate of Analysis

Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within +/- 0.5% of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: U_{CRM} is the expanded uncertainty which utilizes a K = 2 (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

Reagent

MSS-1,4-D-Sur_00011

CERTIFIED WEIGHT REPORT

Part Number: **71882**
Lot Number: 031424
Description: 1,4-Dioxane-d8

Expiration Date: 031429
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

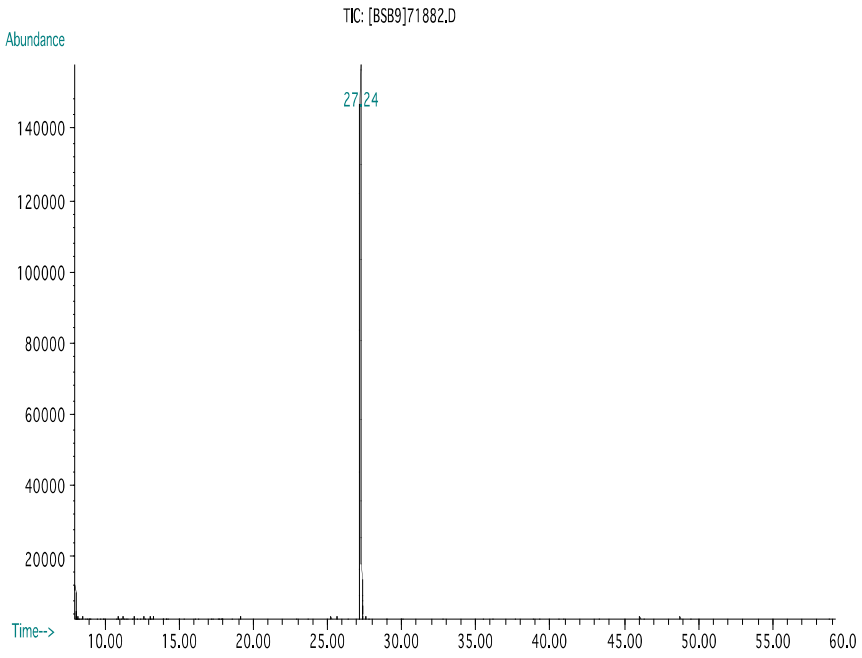
Solvent(s): **Lot#**
Methanol EH299-US

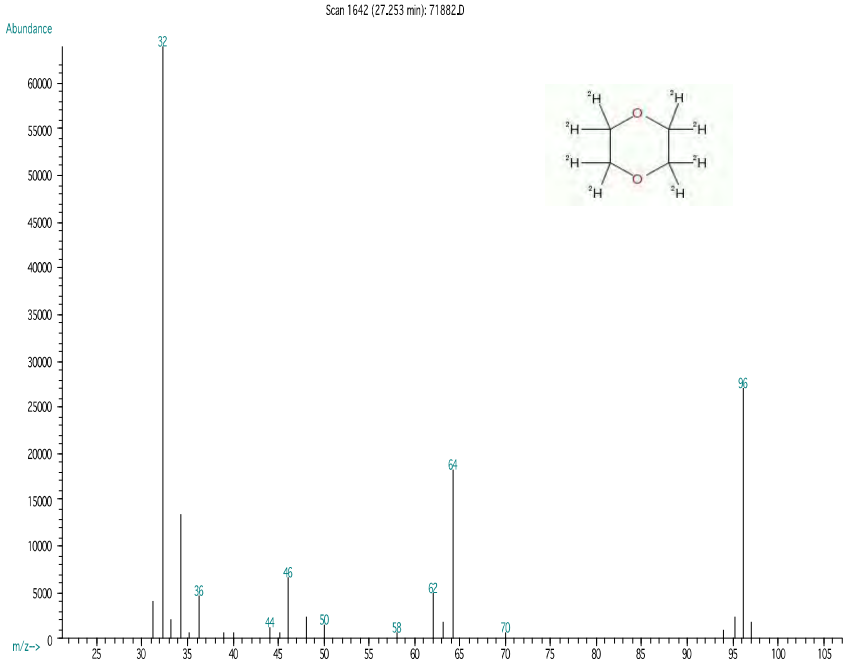
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 200.0 0.006 Flask Uncertainty

Formulated By:	Lawrence Barry	031424 DATE
Reviewed By:	Pedro L. Rentas	031424 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	1,4-Dioxane-d8	1882	I-19239A	1000	99	0.2	0.20200	0.20226	1001.3	4.1	17647-74-4	N/A	orl-rbt 2000mg/kg

Method: GC6MSD-1. **Detector:** MSD (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm filmthickness). **Oven Profile**: Temp. 1=35°C (Time 1=10min.), Temp. 2=200°C (Time 2=18.75 min.), Rate=4°C/min., Injector Temp.=200°C, Detector Temp.=220°C. Solvent delay = 7 min. **Analyst:** Candice Warren.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Reagent

MSV-1,4-D-STD_00005

Agilent
Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: 1,4-Dioxane Standard
Product Number: NV-152-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006767288
Lot Issue Date: 18-Oct-2023
Expiration Date: 30-Nov-2025

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
1,4-dioxane	2008	±	10 µg/mL	000123-91-1	RM20283

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and 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 above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, 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 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20ºC to 25ºC immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard 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.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

Reagent

MT_PST_Ag_00006

7221 Investment Drive • North Charleston, SC 29418
843.767.7900 • info@highpuritystandards.com • www.highpuritystandards.com

Certificate of Analysis

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER
ISO 17034:2016 (RMP) Accreditation Certificate Number AR-1436

Product Description: Silver

Product Number: **100051-1-100**
Lot Number: **2415524-100**
Matrix: 2% HNO3
Density: 1.018 g/mL ± 0.002 g/mL @ 20.9°C ± 0.3°C

Certified Value:

Element	µg/mL	SRM ID
Ag	1000 ± 3	3151

The Certified value is based on gravimetric and volumetric preparation, and verified against NIST SRM 3100 series when available via inductively coupled plasma optical emission spectrometry (ICP-OES) and/or inductively coupled plasma mass spectrometry (ICP-MS) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor k is about 2.
* Refer to Traceability Information, Section 4

Uncertified Values:

Trace Metal Impurity Scan: The data reported are based upon a scan of this specific lot via ICP-OES/ICP-MS analysis. The values are reported in µg/L.

Ag	M	Cu	60	Li	<0.02	Rb	<0.02	Th	<0.02
Al	<0.05	Dy	<0.02	Lu	<0.02	Re	<0.02	Ti	<0.02
As	<0.05	Er	<0.02	Mg	<0.6	Rh	<0.02	Tl	<0.02
Au	<1.8	Eu	<0.02	Mn	<0.05	Ru	<0.02	Tm	<0.02
B	<1	Fe	<1	Mo	<0.02	Sb	<0.02	U	<0.05
Ba	<0.02	Ga	<0.02	Na	<3	Sc	<0.02	V	<0.05
Be	<0.02	Gd	<0.02	Nb	<0.02	Se	<0.1	W	<0.02
Bi	<0.02	Ge	<0.02	Nd	<0.02	Si	<5	Y	<0.02
Ca	<1	Hf	<0.02	Ni	<0.02	Sm	<0.02	Yb	<0.02
Cd	<0.02	Ho	<0.02	Os	<0.02	Sn	<0.5	Zn	<0.02
Ce	<0.02	In	<0.02	Pb	<0.05	Sr	<0.02	Zr	<0.02
Co	<0.05	Ir	<0.02	Pd	<0.5	Ta	<0.02		
Cr	<0.05	K	<1	Pr	<0.02	Tb	<0.02		
Cs	<0.02	La	<0.02	Pt	<0.02	Te	<0.02		

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored normal laboratory conditions.

Expiration Information:

The expiry date is guaranteed to be valid for eighteen months from the shipping date provided and is guaranteed through the month of expiration. For this reason, standards from the same lot may have different expiration dates.

Shipped Date: October 2024
Expiration Date: April 30, 2026
Certificate Issue Date: June 18, 2024

Julio Soto, Quality Manager

Reagent

MT_PST_AQCRLA_00006

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-75246
Lot Number:	V2-MEB745428
Matrix:	2% (v/v) HNO3

Value / Analyte(s):	1 500 µg/mL ea: Sodium,	
	1 000 µg/mL ea: Potassium,	
	200 µg/mL ea: Calcium,	
	100 µg/mL ea: Boron,	Iron,
	50 µg/mL ea: Aluminum, Phosphorus,	Lithium,
	30 µg/mL ea: Selenium,	
	20 µg/mL ea: Magnesium,	
	15 µg/mL ea: Lead,	
	10 µg/mL ea: Nickel, Cobalt, Copper, Thallium, Zinc,	Barium, Chromium, Strontium, Vanadium,
	8 µg/mL ea: Arsenic,	
	5 µg/mL ea: Cadmium,	
	4 µg/mL ea: Beryllium,	Manganese

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**49.94 ± 0.19 µg/mL**	**Arsenic, As**	**8.00 ± 0.05 µg/mL**
Barium, Ba	**10.00 ± 0.05 µg/mL**	**Beryllium, Be**	**3.998 ± 0.020 µg/mL**
Boron, B	**100.0 ± 0.5 µg/mL**	**Cadmium, Cd**	**4.999 ± 0.030 µg/mL**
Calcium, Ca	**200.0 ± 0.6 µg/mL**	**Chromium, Cr**	**10.00 ± 0.05 µg/mL**
Cobalt, Co	**10.02 ± 0.05 µg/mL**	**Copper, Cu**	**10.00 ± 0.06 µg/mL**
Iron, Fe	**100.0 ± 0.4 µg/mL**	**Lead, Pb**	**15.00 ± 0.07 µg/mL**
Lithium, Li	**50.09 ± 0.22 µg/mL**	**Magnesium, Mg**	**20.00 ± 0.10 µg/mL**
Manganese, Mn	**4.000 ± 0.020 µg/mL**	**Nickel, Ni**	**10.00 ± 0.06 µg/mL**
Phosphorus, P	**50.03 ± 0.24 µg/mL**	**Potassium, K**	**1 000 ± 4 µg/mL**
Selenium, Se	**30.03 ± 0.19 µg/mL**	**Sodium, Na**	**1 500 ± 7 µg/mL**
Strontium, Sr	**10.00 ± 0.04 µg/mL**	**Thallium, Tl**	**10.00 ± 0.04 µg/mL**
Vanadium, V	**10.01 ± 0.04 µg/mL**	**Zinc, Zn**	**10.00 ± 0.04 µg/mL**

Density: 1.018 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	120618
Cu	EDTA	928	928
Cu	Calculated		See Sec. 4.2
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mg	Calculated		See Sec. 4.2
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	200413
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Sr	EDTA	928	928
Sr	ICP Assay	Traceable to 3153a	K2-SR650985
Sr	Calculated		See Sec. 4.2

Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928
Zn	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 15, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **July 15, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

MT_PST_CCVA_00007

7221 Investment Drive • North Charleston, SC 29418
843.767.7900 • info@highpuritystandards.com • www.highpuritystandards.com

Certificate of Analysis

Certified Reference Material

Product Description: Special Mix

Product Number: **SM-150-077-A-250**
Lot Number: **2400332-250**
Matrix: 4% HNO3
Purity: 99.0%-99.9998%

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER
ISO 17034:2016 (RMP) Accreditation Certificate Number AR-1436

Certified Values:

Element	(µg/mL)	SRM ID	Element	(µg/mL)	SRM ID
Al	400 ± 4	3101a	Li	200 ± 2	3129a
As	200 ± 2	3103a	Mg	400 ± 4	3131a
B	200 ± 2	3107	Mn	200 ± 3	3132
Ba	200 ± 2	3104a	Na	400 ± 4	3152a
Be	200 ± 2	3105a	Ni	200 ± 2	3136
Ca	400 ± 4	3109a	P	200 ± 3	3139a
Cd	200 ± 2	3108	Pb	200 ± 2	3128
Co	200 ± 2	3113	S	200 ± 3	3154
Cr	200 ± 2	3112a	Se	200 ± 2	3149
Cu	200 ± 2	3114	Sr	200 ± 2	3153a
Fe	400 ± 4	3126a	Tl	200 ± 2	3158
K	400 ± 4	3141a	Zn	200 ± 2	3168a

Certified values are based on gravimetric and volumetric preparation, and verified against NIST SRM 3100 series when available via inductively coupled plasma optical emission spectrometry (ICP-OES) and/or inductively coupled plasma mass spectrometry (ICP-MS) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.
* Refer to Traceability Information, Section 4

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Expiration Information:

The expiry date is guaranteed to be valid for one year from the shipping date provided and is guaranteed through the month of expiration. For this reason, standards from the same lot may have different expiration dates.

Shipped Date: January 2024
Expiration Date: January 31, 2025
Certificate Issue Date: January 5, 2024

Julio Soto, Quality Manager

Preparation Information:

This Certified Reference Material (CRM) is generally prepared from single element standard solutions that are ISO 17034 certified reference materials and manufactured under appropriate laboratory conditions using the methods developed at NIST for SRM Spectrometric Standard Solutions. Sub-boiling distilled high-purity acid has been used to place the materials in solution and stabilize the standard. The matrix is as noted above in 18 megaohm deionized water. Stability of this product is based upon rigorous short-term and long-term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product. If, during the period of validity, a recall is instituted due to substantial changes in the stability of this product, the purchaser will be notified.

Homogeneity:

This product is determined to be homogeneous following in-house procedures developed in accordance with the requirements of ISO 17034 and ISO Guide 35.

Intended Use:

This product is intended for use as a calibration standard, quality control standard, and/or for the validation of analytical methods. The standard is confirmed homogeneous; therefore, the minimum sample size should be consistent with the end user's measurement capabilities.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

1. **Standard Weight and Analytical Balance**
   The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in 'NIST Weights and Measures Measurement Assurance Program' with a certificate of measurement traceability to NIST primary standards. The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.
2. **Volumetric Device**
   The calibrations of volumetric vessels are verified using the ASTM method E542.
3. **Thermometer**
   The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.
4. **Calibration Standards**
   The Calibration Standard is traceable to SRM 3100 Series Spectrometric Standard Solutions. If an SRM is not available, a second source standard or independent lot is used.

Refer to Safety Datasheet (SDS) for hazardous information.

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High-Purity Standards.

Reagent

MT_PST_CLPINF_00008

environmental express®

Certificate of Analysis

Certified Reference Material

Product Description:	Custom Inorganic Standard
Product Number:	**ICL500-6**
Lot Number:	**2404549-500**
Matrix:	5% HNO3
Purity:	99.995%-99.9995%
Density:	1.093 g/mL ± 0.002 g/mL @ 21.7°C ± 0.3°C

Certified Values:

Element	(µg/mL)	SRM ID
Al	5000 ± 30	3101a
Ca	5000 ± 30	3109a
Fe	2000 ± 12	3126a
Mg	5000 ± 30	3131a

Certified values are based on gravimetric and volumetric preparation, and verified against NIST SRM 3100 series when available via inductively coupled plasma optical emission spectrometry (ICP-OES) and/or inductively coupled plasma mass spectrometry (ICP-MS) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

* Refer to Traceability Information, Section 4

Uncertified Values:

Trace Metal Impurity Scan: The data reported are based upon a scan of this specific lot via ICP-OES/ICP-MS analysis. The values are reported in µg/L.

Ag	<1.1	Ca	M	K	<93	Ni	7.8	Sr	32.3
Al	M	Cd	<0.5	Li	<0.1	Pb	33.5	Ti	<0.3
As	<0.3	Co	13.8	Mg	M	S	<200	Tl	<0.1
B	<5	Cr	10.6	Mn	17.1	Sb	<0.4	V	1.9
Ba	8.3	Cu	133	Mo	3.5	Se	<0.5	Zn	6.9
Be	2.9	Fe	M	Na	<79	Sn	<3		

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Expiration Information:

The expiry date is guaranteed to be valid for one year from the shipping date provided and is guaranteed through the month of expiration. For this reason, standards from the same lot may have different expiration dates.

Shipped Date:	February 2024
Expiration Date:	February 28, 2025
Certificate Issue Date:	February 16, 2024

Carson R Geib

Carson Geib, Quality and Compliance Manager

2345A Charleston Regional Pkwy, Charleston, South Carolina 29492

Reagent

MT_PST_CLPINF_00009

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-ICP-ICSA

ICP ICSA Mix

Lot #: 1466098

Matrix: 5% HNO_3

*Expiration Date: 15 July 2026

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
Al	5000 ± 25 mg/L	Fe	2000 ± 10 mg/L
Ca	5000 ± 25 mg/L	Mg	5007 ± 25 mg/L

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #
Al	1369281	Fe	1440932
Ca	1344004	Mg	1454072

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to, **ISO 17034**, **ISO/IEC 17025** and **ISO 9001**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see reverse side)**. The solution was stabilized using high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see reverse side)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Fe	MAJOR	Sb	<0.5
Al	MAJOR	Hg	5	Se	<2
As	<0.5	K	106	Sn	0.685
Ba	16	Li	3	Sr	120
Be	<0.5	Mg	MAJOR	Th	<0.5
Ca	MAJOR	Mn	22	Ti	5
Cd	<0.5	Mo	4	Tl	<0.5
Co	2	Na	<50	U	<0.5
Cr	12	Ni	5	V	<2
Cu	1.969	Pb	2	Zn	10

USA
5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901
www.cpiinternational.com

Europe
Nieuwe Hemweg 7P P: +31 20 638 05 97
1013BG Amsterdam F: +31 20 420 28 36
The Netherlands

Reagent

MT_PST_IFBSOL_00009

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-74673
Lot Number:	V2-MEB744057
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	100 µg/mL ea: Silver, Arsenic, Cadmium, Nickel, Lead, Selenium, Thallium, Zinc, 60 µg/mL ea: Antimony, 50 µg/mL ea: Vanadium, Cobalt, Chromium, Copper, Manganese, Barium, Beryllium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**60.01 ± 0.41 µg/mL**	**Arsenic, As**	**100.0 ± 0.6 µg/mL**
Barium, Ba	**50.00 ± 0.29 µg/mL**	**Beryllium, Be**	**50.00 ± 0.30 µg/mL**
Cadmium, Cd	**100.0 ± 0.4 µg/mL**	**Chromium, Cr**	**50.01 ± 0.28 µg/mL**
Cobalt, Co	**50.00 ± 0.24 µg/mL**	**Copper, Cu**	**49.99 ± 0.22 µg/mL**
Lead, Pb	**100.0 ± 0.5 µg/mL**	**Manganese, Mn**	**50.01 ± 0.22 µg/mL**
Nickel, Ni	**100.0 ± 0.4 µg/mL**	**Selenium, Se**	**100.0 ± 0.6 µg/mL**
Silver, Ag	**100.0 ± 0.4 µg/mL**	**Thallium, Tl**	**100.0 ± 0.5 µg/mL**
Vanadium, V	**50.00 ± 0.22 µg/mL**	**Zinc, Zn**	**100.0 ± 0.4 µg/mL**

Density: 1.013 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	120618
Cu	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information (https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver)

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 24, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 24, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

MT_SST_Ca_00006

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuTrace™ Reference Standard

Catalog No: ICP-09N-10X-1
Description: Calcium ICP Standard
Element: Calcium (Ca)
SRM: 3109a
Lot: 223045009
Matrix: 2-5% Nitric acid
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

359349
ID: MT_SST_Ca_00006
Exp: 04/06/28 Prpd.
High Purity Ca stock stan

Date Certified: Apr 6, 2023
Expiration: Apr 6, 2028
Density: 1.043 g/mL
Sample Size: 100 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Certified Concentration: 10000 µg/mL

Trace Elements in µg/mL

Ag	nd<0.02	Ce	nd<0.2	Gd	nd<0.02	Lu	nd<0.02	Pb	nd<0.2	Sc	nd<0.02	Tl	nd<0.02
Al	N/A	Co	nd<0.02	Ge	N/A	Mg	1.84	Pd	nd<0.2	Se	N/A	Ti	nd<0.2
As	nd<0.2	Cr	nd<0.02	Hf	nd<0.02	Mn	nd<0.02	Pr	nd<0.2	Si	N/A	Tm	nd<0.02
Au	nd<0.02	Cs	N/A	Hg	nd<0.2	Mo	nd<0.02	Pt	nd<0.2	Sm	nd<0.2	U	nd<0.2
B	nd<0.2	Cu	nd<0.02	Ho	nd<0.02	Na	0.08	Rb	N/A	Sn	nd<0.02	V	nd<0.02
Ba	nd<0.02	Dy	nd<0.02	In	nd<0.2	Nb	nd<0.2	Re	nd<0.2	Sr	0.04	W	nd<0.2
Be	nd<0.02	Er	nd<0.02	Ir	nd<0.2	Nd	nd<0.02	Rh	nd<0.2	Ta	nd<0.2	Y	nd<0.02
Bi	nd<0.2	Eu	nd<0.02	K	nd<0.2	Ni	nd<0.02	Ru	nd<0.02	Tb	nd<0.02	Yb	nd<0.02
Ca	*	Fe	nd<0.02	La	N/A	Os	N/A	S	N/A	Te	nd<0.2	Zn	0.04
Cd	nd<0.02	Ga	nd<0.02	Li	nd<0.02	P	N/A	Sb	nd<0.2	Th	nd<0.02	Zr	nd<0.02

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

This solution was assayed titrimetrically, using EDTA which was standardized against NIST SRM #915a (calcium carbonate).

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

The gravimetric uncertainty for this product is ±0.24%. The CRM uncertainty is ±2.4%.

In order to verify the concentration(s), the final solution was checked by plasma emission spectroscopy (ICP) against material traceable to the above listed NIST SRM(s).

We use the highest purity raw materials available to minimize impurity levels in the final solution. Typically 99.999%+ pure starting materials are used as well as high purity acids and ASTM Type I 18 megohm deionized water.

All trace level elemental impurities were determined via plasma emission spectroscopy on the concentrate.

All weights are traceable through NIST, Test No. 684/291344-18 & 684/292605-19

All glassware used in preparation is Class A.

All bottles are acid leached and triple rinsed with deionized water prior to use.

Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware. Keep bottle tightly capped.

Certified By: Meigan O'Leary
Meigan O'Leary, Inorganic QC Manager

For use in routine laboratory analysis.

Reagent

MT_SST_Na_00006

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuTrace™ Reference Standard

Catalog No: ICP-54N-10X-1
Description: Sodium ICP Standard
Element: Sodium (Na)
SRM: 3152a
Lot: 221085140-01
Matrix: 2-5% Nitric acid
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

359350
ID: MT_SST_Na_00006
Exp: 09/13/28 Prpd.
ICP Sodium 2nd source

Date Certified: Sep 13, 2023
Expiration: Sep 13, 2028
Density: 1.036 g/mL
Sample Size: 100 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ilac-MRA

Certified Concentration: 10000 µg/mL

Trace Elements in µg/mL

Ag	nd<0.02	Ce	nd<0.2	Gd	nd<0.02	Lu	nd<0.02	Pb	nd<0.2	Sc	nd<0.02	Tl	nd<0.02
Al	nd<0.02	Co	nd<0.02	Ge	nd<0.2	Mg	nd<0.02	Pd	nd<0.2	Se	nd<0.2	Ti	nd<0.2
As	nd<0.2	Cr	nd<0.02	Hf	nd<0.02	Mn	nd<0.02	Pr	nd<0.2	Si	N/A	Tm	nd<0.02
Au	nd<0.02	Cs	N/A	Hg	nd<0.2	Mo	nd<0.02	Pt	nd<0.2	Sm	nd<0.2	U	nd<0.2
B	nd<0.2	Cu	nd<0.02	Ho	nd<0.02	Na	*	Rb	N/A	Sn	nd<0.02	V	nd<0.02
Ba	nd<0.02	Dy	nd<0.02	In	nd<0.2	Nb	nd<0.2	Re	nd<0.2	Sr	nd<0.02	W	N/A
Be	nd<0.02	Er	nd<0.02	Ir	nd<0.2	Nd	nd<0.02	Rh	nd<0.2	Ta	nd<0.2	Y	nd<0.02
Bi	nd<0.2	Eu	nd<0.02	K	0.2	Ni	nd<0.02	Ru	nd<0.02	Tb	nd<0.02	Yb	nd<0.02
Ca	0.04	Fe	nd<0.02	La	nd<0.02	Os	N/A	S	N/A	Te	nd<0.2	Zn	0.02
Cd	nd<0.02	Ga	nd<0.02	Li	nd<0.02	P	N/A	Sb	nd<0.2	Th	nd<0.02	Zr	nd<0.02

This Certified Reference Meterial was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

This solution was assayed gravimetrically, using a balance calibrated against weight sets, ID #88270, traceable to NIST

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has hed its expiration date extended and is identical to the same lot number without the suffix.

The gravimetric uncertainty for this product is ±0.24%. The CRM uncertainty is ±2.4%.

In order to verify the concentration(s), the final solution was checked by plasma emission spectroscopy (ICP) against material traceable to the above listed NIST SRM(s).

We use the highest purity raw materials available to minimize impurity levels in the final solution. Typically 99.999%+ pure starting materials are used as well as high purity acids and ASTM Type I 18 megohm deionized water.

All trace level elemental impurities were determined via plasma emission spectroscopy on the concentrate.

All weights are traceable through NIST, Test No. 684/289871-17

All glassware used in preparation is Class A.

All bottles are acid leached and triple rinsed with deionized water prior to use.

Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware. Keep bottle tightly capped.

Certified By: Meigan O'Leary
Meigan O'Leary, Inorganic QC Manager

For use in routine laboratory analysis.

Reagent

MT_SST_QC1_00020

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuTrace™ Reference Standard

Catalog No: QCS-01-5
Description: ICP Quality Control Standard #1
Lot: 224055035
Matrix: 5% Nitric acid, tr HF
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: May 13, 2024
Expiration: Jun 13, 2026
Sample Size: 500 mL
Components: 23
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ILAC-MRA

Component		SRM #	Prepared Concentration (µg/mL)
Sb	Antimony	3102a	100
As	Arsenic	3103a	100
Be	Beryllium	3105a	100
Cd	Cadmium	3108	100
Ca	Calcium	3109a	100
Cr	Chromium	3112a	100
Co	Cobalt	3113	100
Cu	Copper	3114	100
Fe	Iron	3126a	100
Pb	Lead	3128	100
Li	Lithium	3129a	100
Mg	Magnesium	3131a	100
Mn	Manganese	3132	100
Mo	Molybdenum	3134	100
Ni	Nickel	3136	100
P	Phosphorus	3139a	100
Se	Selenium	3149	100
Sr	Strontium	3153a	100
Tl	Thallium	3158	100
Sn	Tin	3161a	100
Ti	Titanium	3162a	100
V	Vanadium	3165	100
Zn	Zinc	3168a	100

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

The gravimetric uncertainty for this product is ±0.24%. The CRM uncertainty is ±2.4% and was determined in accordance with ISO 17034.

In order to verify the concentration(s), the final solution was checked by plasma emission spectroscopy (ICP) against material traceable to the above listed NIST SRM(s).

We use the highest purity raw materials available to minimize impurity levels in the final solution. Typically 99.999%+ pure sterling materials are used as well as high purity acids and ASTM Type I 18 megohm deionized water.

All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

All glassware used in preparation is Class A.

All bottles are acid leached and triple rinsed with deionized water prior to use.

Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware. Keep bottle tightly capped.

Certified By: Meigan O'Leary
Meigan O'Leary, Inorganic QC Manager

For use in routine laboratory analysis.

Reagent

MT_SST_QC2_00020

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuTrace™ Reference Standard

Catalog No: QCS-02-5
Description: ICP Quality Control Standard #2
Lot: 222045096-02
Matrix: 2-5% Nitric acid, tr HF
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: May 8, 2024
Expiration: Jun 8, 2026
Sample Size: 500 mL
Components: 7
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ILAC-MRA

Component		SRM #	Prepared Concentration (µg/mL)
Al	Aluminum	3101a	100
Ba	Barium	3104a	100
B	Boron	3107	100
K	Potassium	3141a	1000
Si	Silicon	3150	500
Ag	Silver	3151	50
Na	Sodium	3152a	100

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

The gravimetric uncertainty for this product is ±0.24%. The CRM uncertainty is ±2.4% and was determined in accordance with ISO 17034.

In order to verify the concentration(s), the final solution was checked by plasma emission spectroscopy (ICP) against material traceable to the above listed NIST SRM(s).

We use the highest purity raw materials available to minimize impurity levels in the final solution. Typically 99.999%+ pure starting materials are used as well as high purity acids and ASTM Type I 18 megohm deionized water.

All weights are traceable through NIST, Test No. 684/289871-17

All glassware used in preparation is Class A.

All bottles are acid leached and triple rinsed with deionized water prior to use.

Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware. Keep bottle tightly capped.

Certified By: Meigan O'Leary
Meigan O'Leary, Inorganic QC Manager

For use in routine laboratory analysis.

Reagent

MT_SST_S_00008

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuTrace™ Reference Standard

Catalog No: ICP-56W-10X-1
Description: Sulfur ICP Standard
Element: Sulfur (S)
SRM: 3154
Lot: 222115054
Matrix: Water
Hazards: *Refer to SDS for complete safety information*

None Required

Signal Word: Warning

Date Certified: Nov 9, 2022
Expiration: Nov 9, 2027
Density: 1.024 g/mL
Sample Size: 100 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Certified Concentration: 10000 µg/mL

Trace Elements in µg/mL

Ag	nd<0.02	**Ce**	nd<0.2	**Gd**	nd<0.02	**Lu**	nd<0.02	**Pb**	nd<0.2	**Sc**	nd<0.02	**Ti**	nd<0.02
Al	nd<0.02	**Co**	nd<0.02	**Ge**	nd<0.2	**Mg**	nd<0.02	**Pd**	nd<0.2	**Se**	nd<0.2	**Tl**	nd<0.2
As	nd<0.2	**Cr**	nd<0.02	**Hf**	nd<0.02	**Mn**	nd<0.02	**Pr**	nd<0.2	**Si**	nd<0.2	**Tm**	nd<0.02
Au	nd<0.02	**Cs**	N/A	**Hg**	nd<0.2	**Mo**	nd<0.02	**Pt**	nd<0.2	**Sm**	nd<0.2	**U**	nd<0.2
B	nd<0.2	**Cu**	nd<0.02	**Ho**	nd<0.02	**Na**	**0.03**	**Rb**	N/A	**Sn**	nd<0.02	**V**	nd<0.02
Ba	nd<0.02	**Dy**	nd<0.02	**In**	nd<0.2	**Nb**	nd<0.2	**Re**	nd<0.2	**Sr**	nd<0.02	**W**	nd<0.2
Be	nd<0.02	**Er**	nd<0.02	**Ir**	nd<0.2	**Nd**	nd<0.02	**Rh**	nd<0.2	**Ta**	nd<0.2	**Y**	nd<0.02
Bi	nd<0.2	**Eu**	nd<0.02	**K**	nd<0.2	**Ni**	nd<0.02	**Ru**	nd<0.02	**Tb**	nd<0.02	**Yb**	nd<0.02
Ca	**0.07**	**Fe**	nd<0.02	**La**	nd<0.02	**Os**	N/A	**S**	*	**Te**	nd<0.2	**Zn**	nd<0.02
Cd	nd<0.02	**Ga**	nd<0.02	**Li**	nd<0.02	**P**	N/A	**Sb**	nd<0.2	**Th**	nd<0.02	**Zr**	nd<0.02

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

This solution was assayed gravimetrically, using a balance calibrated against weight sets, ID #88270, traceable to NIST

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

The gravimetric uncertainty for this product is ±0.24%. The CRM uncertainty is ±2.4%.

In order to verify the concentration(s), the final solution was checked by plasma emission spectroscopy (ICP) against material traceable to the above listed NIST SRM(s).

We use the highest purity raw materials available to minimize impurity levels in the final solution. Typically 99.999%+ pure starting materials are used as well as high purity acids and ASTM Type I 18 megohm deionized water.

All trace level elemental impurities were determined via plasma emission spectroscopy on the concentrate.

All glassware used in preparation is Class A.

All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

All bottles are acid leached and triple rinsed with deionized water prior to use.

Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware. Keep bottle tightly capped.

Certified By: Meigan O'Leary

Meigan O'Leary, Inorganic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

1. **Quality Standards:**

   ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

   ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

Reagent

SV-ISTD8270_00025

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567684 **Lot No.:** A0218138

Description : 8270 Internal Standard

8270 Internal Standard 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : October 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,002.4 µg/mL	+/- 90.1893
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,013.2 µg/mL	+/- 90.6757
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,017.2 µg/mL	+/- 90.8559
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,014.6 µg/mL	+/- 90.7388
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,009.6 µg/mL	+/- 90.5136
6	Perylene-d12	1520-96-3	PR-33205	99%	2,002.2 µg/mL	+/- 90.1803

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

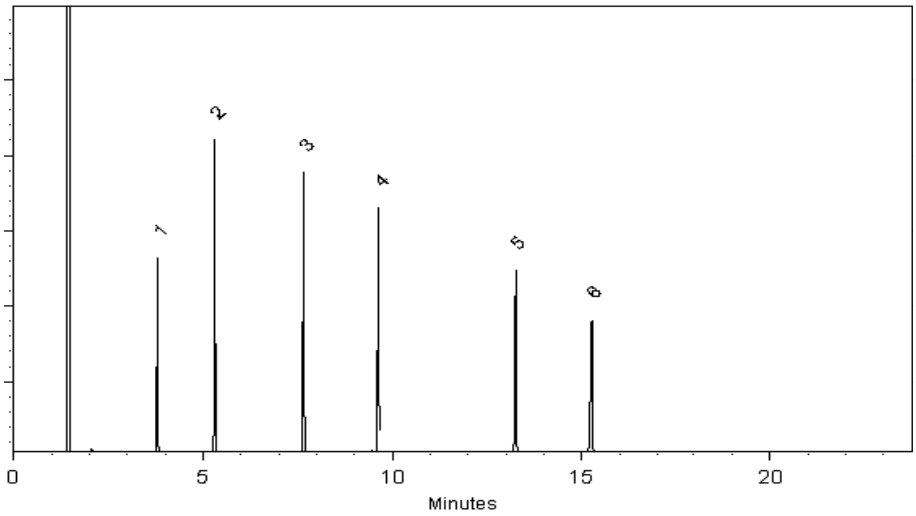
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 21-Oct-2024 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 23-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VO8260ISSur_00018

Agilent
Trusted Answers

ISO 17034

Certified Reference Material

Product Name: Internal and Surrogate Standard
Product Number: STM-540-1
Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006813471
Lot Issue Date: 25-Sep-2024
Expiration Date: 31-Oct-2027

Component Name	CERTIFIED VALUES Concentration		Expanded Uncertainty	CAS#	Analyte Lot
chlorobenzene-d5	2512	±	55 µg/mL	003114-55-4	RM19678
1,4-dichlorobenzene-d4	2508	±	30 µg/mL	003855-82-1	rm19347
fluorobenzene	2512	±	113 µg/mL	000462-06-6	RM13378
4-bromofluorobenzene	2509	±	17 µg/mL	000460-00-4	RM12164
dibromofluoromethane	2510	±	142 µg/mL	001868-53-7	RM01021
1,2-dichloroethane-d4	2505	±	69 µg/mL	017060-07-0	RM21040
toluene-d8	2507	±	36 µg/mL	002037-26-5	RM20758

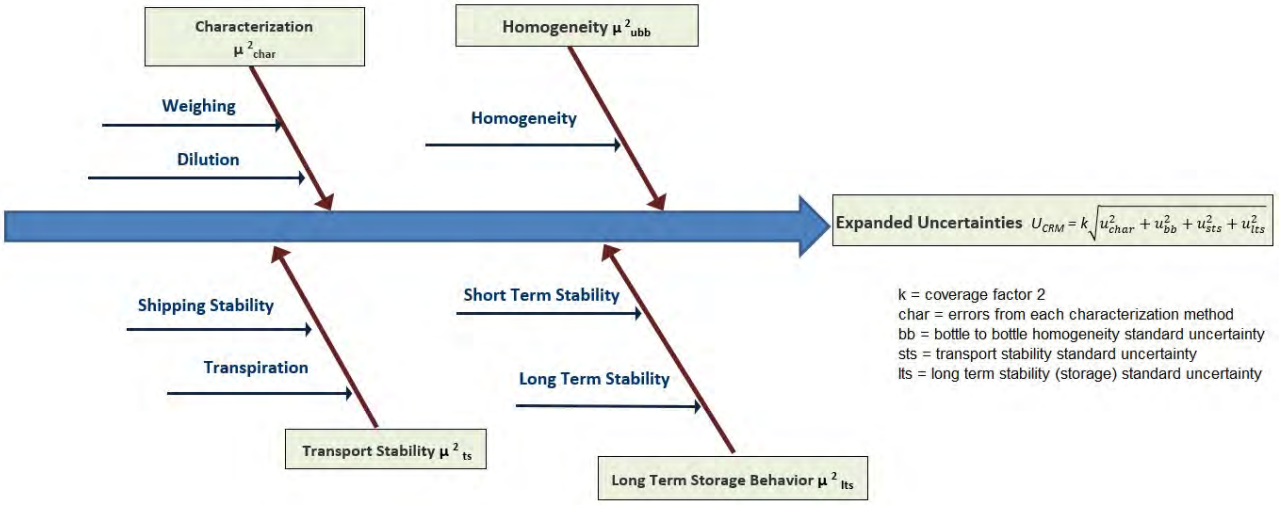
Matrix: methanol (methyl alcohol)

Description:
This document was prepared in accordance with ISO 17034 and Guide 31. This Certified Reference Material is intended for use as a calibration standard for the quantitative determination of the analyte listed. The CRM was manufactured and verified in accordance with the ISO 9001 registered Quality Management System. The certified concentration value reported for the analyte is based upon the gravimetric and volumetric measurements made during the preparation of the standard. The analyte concentrations were verified by the accredited ISO 17025 laboratory using an appropriate analytical technique.

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.

Agilent
Trusted Answers

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using the coverage factor of k=2.



Homogeneity:
This analytical standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20ºC to 25ºC immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this standard.

Intended Use:
This analytical standard 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.

Expiration of Certification:
The certification of this standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

Reagent

VO8260Primary_00142

Agilent
Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Custom Standard
Product Number: CUS-28148
Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006837291
Lot Issue Date: 10-Mar-2025
Expiration Date: 30-Apr-2027

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
benzene	50.2	±	0.3 µg/mL	000071-43-2	RM12931
bromobenzene	50.2	±	0.3 µg/mL	000108-86-1	RM18187
bromochloromethane	50.1	±	0.3 µg/mL	000074-97-5	RM00009
bromodichloromethane	50.1	±	0.3 µg/mL	000075-27-4	RM20004
bromoform	50.1	±	0.3 µg/mL	000075-25-2	RM13987
bromomethane	50.2	±	0.3 µg/mL	000074-83-9	RM00064
n-butylbenzene	50.2	±	0.3 µg/mL	000104-51-8	RM03651
sec-butylbenzene	50.2	±	0.3 µg/mL	000135-98-8	RM17905
tert-butylbenzene	50.2	±	0.3 µg/mL	000098-06-6	RM14040
carbon tetrachloride	50.2	±	0.3 µg/mL	000056-23-5	RM07576
chlorobenzene	50.2	±	0.3 µg/mL	000108-90-7	RM16055
chloroethane	50.2	±	0.3 µg/mL	000075-00-3	RM00065
chloroform	50.2	±	0.3 µg/mL	000067-66-3	RM15321
chloromethane	50.2	±	0.3 µg/mL	000074-87-3	RM12571
2-chlorotoluene	50.2	±	0.3 µg/mL	000095-49-8	RM22006
4-chlorotoluene	50.2	±	0.3 µg/mL	000106-43-4	RM18212
dibromochloromethane	50.1	±	0.3 µg/mL	000124-48-1	RM19222
1,2-dibromo-3-chloropropane	50.2	±	0.3 µg/mL	000096-12-8	RM12895
1,2-dibromoethane	50.1	±	0.3 µg/mL	000106-93-4	RM00018
dibromomethane	50.1	±	0.3 µg/mL	000074-95-3	RM10223
1,2-dichlorobenzene	50.2	±	0.3 µg/mL	000095-50-1	RM16249
1,3-dichlorobenzene	50.2	±	0.3 µg/mL	000541-73-1	RM16466
1,4-dichlorobenzene	50.1	±	0.3 µg/mL	000106-46-7	RM12826
dichlorodifluoromethane	50.2	±	0.3 µg/mL	000075-71-8	RM05289
1,1-dichloroethane	50.2	±	0.3 µg/mL	000075-34-3	RM19798
1,2-dichloroethane	50.2	±	0.3 µg/mL	000107-06-2	RM04655
1,1-dichloroethene	50.2	±	0.3 µg/mL	000075-35-4	RM19401
cis-1,2-dichloroethene	50.2	±	0.3 µg/mL	000156-59-2	RM19542
trans-1,2-dichloroethene	50.2	±	0.3 µg/mL	000156-60-5	RM07565
1,2-dichloropropane	50.1	±	0.3 µg/mL	000078-87-5	RM12821
MTBE	50.2	±	0.3 µg/mL	001634-04-4	RM17686
acetone	50.2	±	0.3 µg/mL	000067-64-1	RM20566
acrylonitrile	50.2	±	0.3 µg/mL	000107-13-1	RM20367
2-butanone	50.2	±	0.3 µg/mL	000078-93-3	RM06696
2-hexanone	50.2	±	0.3 µg/mL	000591-78-6	RM10228

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
4-methyl-2-pentanone	50.2	±	0.3 µg/mL	000108-10-1	RM22517
1,3-dichloropropane	50.2	±	0.3 µg/mL	000142-28-9	RM09825
2,2-dichloropropane	50.1	±	0.3 µg/mL	000594-20-7	RM21741
1,1-dichloropropene	50.2	±	0.3 µg/mL	000563-58-6	RM16247
cis-1,3-dichloropropene	50.2	±	0.3 µg/mL	010061-01-5	RM17895
trans-1,3-dichloropropene	50.2	±	0.3 µg/mL	010061-02-6	RM12254
ethylbenzene	50.2	±	0.3 µg/mL	000100-41-4	RM16356
hexachlorobutadiene	50.2	±	0.3 µg/mL	000087-68-3	RM18420
isopropylbenzene	50.2	±	0.3 µg/mL	000098-82-8	RM21284
4-isopropyltoluene	50.1	±	0.3 µg/mL	000099-87-6	RM09747
methylene chloride	50.2	±	0.3 µg/mL	000075-09-2	RM09575
naphthalene	50.2	±	0.3 µg/mL	000091-20-3	RM10445
n-propylbenzene	50.1	±	0.3 µg/mL	000103-65-1	RM21209
styrene	50.2	±	0.3 µg/mL	000100-42-5	RM20330
1,1,1,2-tetrachloroethane	50.2	±	0.3 µg/mL	000630-20-6	RM20417
1,1,2,2-tetrachloroethane	50.2	±	0.3 µg/mL	000079-34-5	RM02540
tetrachloroethene	50.2	±	0.3 µg/mL	000127-18-4	RM06491
toluene	50.2	±	0.3 µg/mL	000108-88-3	RM14228
1,2,3-trichlorobenzene	50.2	±	0.3 µg/mL	000087-61-6	RM20804
1,2,4-trichlorobenzene	50.1	±	0.3 µg/mL	000120-82-1	RM09454
1,1,1-trichloroethane	50.2	±	0.3 µg/mL	000071-55-6	RM18157
1,1,2-trichloroethane	50.1	±	0.3 µg/mL	000079-00-5	RM01175
trichloroethene	50.2	±	0.3 µg/mL	000079-01-6	RM14232
trichlorofluoromethane	50.2	±	0.3 µg/mL	000075-69-4	RM00017
1,2,3-trichloropropane	50.2	±	0.3 µg/mL	000096-18-4	RM17174
1,2,4-trimethylbenzene	50.2	±	0.3 µg/mL	000095-63-6	RM06731
1,3,5-trimethylbenzene	50.2	±	0.3 µg/mL	000108-67-8	RM13787
vinyl chloride	50.2	±	0.3 µg/mL	000075-01-4	RM05458
m-xylene	25.1	±	0.1 µg/mL	000108-38-3	RM15919
p-xylene	25.1	±	0.1 µg/mL	000106-42-3	RM09445
tetrahydrofuran	50.2	±	0.3 µg/mL	000109-99-9	RM20353
carbon disulfide	50.2	±	0.3 µg/mL	000075-15-0	RM04997
t-butanol (2-methyl-2-propanol)	501.5	±	2.5 µg/mL	000075-65-0	RM01883
diisopropyl ether	50.2	±	0.3 µg/mL	000108-20-3	RM20331
tert-butyl ethyl ether	50.2	±	0.3 µg/mL	000637-92-3	RM13253
tert-amyl methyl ether	50.2	±	0.3 µg/mL	000994-05-8	RM14173
o-xylene	50.2	±	0.3 µg/mL	000095-47-6	RM19766
1,3,5-trichlorobenzene	50.1	±	0.3 µg/mL	000108-70-3	RM02554
diethyl ether	50.2	±	0.3 µg/mL	000060-29-7	RM20341
1,4-dioxane	501.5	±	2.5 µg/mL	000123-91-1	RM20283
1,1,2-trichlorotrifluoroethane	50.2	±	0.3 µg/mL	000076-13-1	RM14500
ethanol	1001	±	5 µg/mL	000064-17-5	RM21467
trans-1,4-dichloro-2-butene	50.2	±	0.3 µg/mL	000110-57-6	RM13971

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
cyclohexane	50.2	±	0.3 µg/mL	000110-82-7	RM14638
methyl acetate	50.2	±	0.3 µg/mL	000079-20-9	NT02091
methylcyclohexane	50.2	±	0.3 µg/mL	000108-87-2	RM18053
iodomethane	50.2	±	0.3 µg/mL	000074-88-4	RM14171

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and 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 above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, 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 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20ºC to 25ºC immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard 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.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Agilent
Trusted Answers

Monica Bourgeois
QMS Representative

Reagent

VO8260Primary_00143

Agilent
Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Custom Standard
Product Number: CUS-28148
Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006837291
Lot Issue Date: 10-Mar-2025
Expiration Date: 30-Apr-2027

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
benzene	50.2	±	0.3 µg/mL	000071-43-2	RM12931
bromobenzene	50.2	±	0.3 µg/mL	000108-86-1	RM18187
bromochloromethane	50.1	±	0.3 µg/mL	000074-97-5	RM00009
bromodichloromethane	50.1	±	0.3 µg/mL	000075-27-4	RM20004
bromoform	50.1	±	0.3 µg/mL	000075-25-2	RM13987
bromomethane	50.2	±	0.3 µg/mL	000074-83-9	RM00064
n-butylbenzene	50.2	±	0.3 µg/mL	000104-51-8	RM03651
sec-butylbenzene	50.2	±	0.3 µg/mL	000135-98-8	RM17905
tert-butylbenzene	50.2	±	0.3 µg/mL	000098-06-6	RM14040
carbon tetrachloride	50.2	±	0.3 µg/mL	000056-23-5	RM07576
chlorobenzene	50.2	±	0.3 µg/mL	000108-90-7	RM16055
chloroethane	50.2	±	0.3 µg/mL	000075-00-3	RM00065
chloroform	50.2	±	0.3 µg/mL	000067-66-3	RM15321
chloromethane	50.2	±	0.3 µg/mL	000074-87-3	RM12571
2-chlorotoluene	50.2	±	0.3 µg/mL	000095-49-8	RM22006
4-chlorotoluene	50.2	±	0.3 µg/mL	000106-43-4	RM18212
dibromochloromethane	50.1	±	0.3 µg/mL	000124-48-1	RM19222
1,2-dibromo-3-chloropropane	50.2	±	0.3 µg/mL	000096-12-8	RM12895
1,2-dibromoethane	50.1	±	0.3 µg/mL	000106-93-4	RM00018
dibromomethane	50.1	±	0.3 µg/mL	000074-95-3	RM10223
1,2-dichlorobenzene	50.2	±	0.3 µg/mL	000095-50-1	RM16249
1,3-dichlorobenzene	50.2	±	0.3 µg/mL	000541-73-1	RM16466
1,4-dichlorobenzene	50.1	±	0.3 µg/mL	000106-46-7	RM12826
dichlorodifluoromethane	50.2	±	0.3 µg/mL	000075-71-8	RM05289
1,1-dichloroethane	50.2	±	0.3 µg/mL	000075-34-3	RM19798
1,2-dichloroethane	50.2	±	0.3 µg/mL	000107-06-2	RM04655
1,1-dichloroethene	50.2	±	0.3 µg/mL	000075-35-4	RM19401
cis-1,2-dichloroethene	50.2	±	0.3 µg/mL	000156-59-2	RM19542
trans-1,2-dichloroethene	50.2	±	0.3 µg/mL	000156-60-5	RM07565
1,2-dichloropropane	50.1	±	0.3 µg/mL	000078-87-5	RM12821
MTBE	50.2	±	0.3 µg/mL	001634-04-4	RM17686
acetone	50.2	±	0.3 µg/mL	000067-64-1	RM20566
acrylonitrile	50.2	±	0.3 µg/mL	000107-13-1	RM20367
2-butanone	50.2	±	0.3 µg/mL	000078-93-3	RM06696
2-hexanone	50.2	±	0.3 µg/mL	000591-78-6	RM10228

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
4-methyl-2-pentanone	50.2	±	0.3 µg/mL	000108-10-1	RM22517
1,3-dichloropropane	50.2	±	0.3 µg/mL	000142-28-9	RM09825
2,2-dichloropropane	50.1	±	0.3 µg/mL	000594-20-7	RM21741
1,1-dichloropropene	50.2	±	0.3 µg/mL	000563-58-6	RM16247
cis-1,3-dichloropropene	50.2	±	0.3 µg/mL	010061-01-5	RM17895
trans-1,3-dichloropropene	50.2	±	0.3 µg/mL	010061-02-6	RM12254
ethylbenzene	50.2	±	0.3 µg/mL	000100-41-4	RM16356
hexachlorobutadiene	50.2	±	0.3 µg/mL	000087-68-3	RM18420
isopropylbenzene	50.2	±	0.3 µg/mL	000098-82-8	RM21284
4-isopropyltoluene	50.1	±	0.3 µg/mL	000099-87-6	RM09747
methylene chloride	50.2	±	0.3 µg/mL	000075-09-2	RM09575
naphthalene	50.2	±	0.3 µg/mL	000091-20-3	RM10445
n-propylbenzene	50.1	±	0.3 µg/mL	000103-65-1	RM21209
styrene	50.2	±	0.3 µg/mL	000100-42-5	RM20330
1,1,1,2-tetrachloroethane	50.2	±	0.3 µg/mL	000630-20-6	RM20417
1,1,2,2-tetrachloroethane	50.2	±	0.3 µg/mL	000079-34-5	RM02540
tetrachloroethene	50.2	±	0.3 µg/mL	000127-18-4	RM06491
toluene	50.2	±	0.3 µg/mL	000108-88-3	RM14228
1,2,3-trichlorobenzene	50.2	±	0.3 µg/mL	000087-61-6	RM20804
1,2,4-trichlorobenzene	50.1	±	0.3 µg/mL	000120-82-1	RM09454
1,1,1-trichloroethane	50.2	±	0.3 µg/mL	000071-55-6	RM18157
1,1,2-trichloroethane	50.1	±	0.3 µg/mL	000079-00-5	RM01175
trichloroethene	50.2	±	0.3 µg/mL	000079-01-6	RM14232
trichlorofluoromethane	50.2	±	0.3 µg/mL	000075-69-4	RM00017
1,2,3-trichloropropane	50.2	±	0.3 µg/mL	000096-18-4	RM17174
1,2,4-trimethylbenzene	50.2	±	0.3 µg/mL	000095-63-6	RM06731
1,3,5-trimethylbenzene	50.2	±	0.3 µg/mL	000108-67-8	RM13787
vinyl chloride	50.2	±	0.3 µg/mL	000075-01-4	RM05458
m-xylene	25.1	±	0.1 µg/mL	000108-38-3	RM15919
p-xylene	25.1	±	0.1 µg/mL	000106-42-3	RM09445
tetrahydrofuran	50.2	±	0.3 µg/mL	000109-99-9	RM20353
carbon disulfide	50.2	±	0.3 µg/mL	000075-15-0	RM04997
t-butanol (2-methyl-2-propanol)	501.5	±	2.5 µg/mL	000075-65-0	RM01883
diisopropyl ether	50.2	±	0.3 µg/mL	000108-20-3	RM20331
tert-butyl ethyl ether	50.2	±	0.3 µg/mL	000637-92-3	RM13253
tert-amyl methyl ether	50.2	±	0.3 µg/mL	000994-05-8	RM14173
o-xylene	50.2	±	0.3 µg/mL	000095-47-6	RM19766
1,3,5-trichlorobenzene	50.1	±	0.3 µg/mL	000108-70-3	RM02554
diethyl ether	50.2	±	0.3 µg/mL	000060-29-7	RM20341
1,4-dioxane	501.5	±	2.5 µg/mL	000123-91-1	RM20283
1,1,2-trichlorotrifluoroethane	50.2	±	0.3 µg/mL	000076-13-1	RM14500
ethanol	1001	±	5 µg/mL	000064-17-5	RM21467
trans-1,4-dichloro-2-butene	50.2	±	0.3 µg/mL	000110-57-6	RM13971

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
cyclohexane	50.2	±	0.3 µg/mL	000110-82-7	RM14638
methyl acetate	50.2	±	0.3 µg/mL	000079-20-9	NT02091
methylcyclohexane	50.2	±	0.3 µg/mL	000108-87-2	RM18053
iodomethane	50.2	±	0.3 µg/mL	000074-88-4	RM14171

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and 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 above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, 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 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20ºC to 25ºC immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard 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.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Agilent
Trusted Answers

Monica Bourgeois
QMS Representative

ANAB
ANSI National Accreditation Board
ACCREDITED
ISO 17034
REFERENCE MATERIAL PRODUCER

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

Reagent

VO8260Second_00123

CERTIFIED WEIGHT REPORT

Part Number: 94577
Lot Number: 011625
Description: EPA Method 524.2 Volatile Standard
80 components
Expiration Date: 011628 Solvent(s): Methanol Lot# EJ143-USQ7
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Volume(s) shown below were combined and diluted to (mL): 200.0 0.002 Flask Uncertainty

Formulated By: Eli Arego 011625 DATE
Reviewed By: Pedro L. Rentas 011625 DATE

	Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc.(µg/mL)	Final Conc.(µg/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Bromodichloromethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	75-27-4	N/A	orl-rat 916mg/kg
2.	Dibromochloromethane	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	124-48-1	N/A	orl-rat 848mg/kg
3.	cis-1,2-Dichloroethene	32001	010925	0.025	5.00	0.017	2000.3	50.0	0.6	156-59-2	N/A	N/A
4.	trans-1,2-Dichloroethene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	156-60-5	N/A	orl-rat 1235mg/kg
5.	Methylene chloride	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	75-09-2	500 ppm	orl-rat 820mg/kg
6.	1,1-Dichloroethene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
7.	Bromochloromethane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	74-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg
8.	Bromoform	32001	010925	0.025	5.00	0.017	2001.1	50.0	0.6	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
9.	Carbon tetrachloride	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
10.	Chloroform	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
11.	Dibromomethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	74-95-3	N/A	orl-rat 108mg/kg
12.	1,1-Dichloroethane	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	75-34-3	100 ppm	orl-rat 725mg/kg
13.	2,2-Dichloropropane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	594-20-7	N/A	N/A
14.	Tetrachloroethene	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	127-18-4	25 ppm (170mg/m3/8H)(5mg)	orl-rat 2629mg/kg
15.	1,1,1-Trichloroethane	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
16.	1,2-Dibromo-3-chloropropane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	96-12-8	0.001 ppm	orl-rat 170mg/kg
17.	1,2-Dibromoethane	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
18.	1,2-Dichloroethane	32001	010925	0.025	5.00	0.017	2000.9	50.0	0.6	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
19.	1,2-Dichloropropane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
20.	1,3-Dichloropropane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	142-28-9	N/A	unr-mus 3600mg/kg
21.	1,1-Dichloropropene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.7	563-58-6	N/A	N/A
22.	cis-1,3-Dichloropropene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	10061-01-5	N/A	N/A
23.	trans-1,3-Dichloropropene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	10061-02-6	N/A	N/A
24.	Hexachloro-1,3-butadiene	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
25.	1,1,1,2-Tetrachloroethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	630-20-6	N/A	orl-rat 670mg/kg
26.	1,1,2,2-Tetrachloroethane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
27.	1,1,2-Trichloroethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
28.	Trichloroethene	32001	010925	0.025	5.00	0.017	2000.9	50.0	0.6	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
29.	1,2,3-Trichloropropane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
30.	Benzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	71-43-2	1 ppm	orl-rat 4894mg/kg
31.	Bromobenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	108-86-1	N/A	orl-rat 2699mg/kg
32.	n-Butyl benzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	104-51-8	N/A	N/A
33.	Ethyl benzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
34.	p-Isopropyl toluene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	99-87-6	N/A	orl-rat 4750mg/kg
35.	Naphthalene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
36.	Styrene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	100-42-5	100 ppm	orl-rat 5000mg/kg
37.	Toluene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	108-88-3	200 ppm	orl-rat 5000mg/kg
38.	1,2,3-Trichlorobenzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	87-61-6	N/A	ipr-mus 1390mg/kg
39.	1,2,4-Trichlorobenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
40.	1,2,4-Trimethylbenzene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	95-63-6	N/A	orl-rat 5g/kg
41.	1,3,5-Trimethylbenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	108-67-8	N/A	orl-rat 5000mg/kg
42.	m-Xylene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
43.	tert-Butyl benzene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	98-06-6	N/A	N/A
44.	sec-Butyl benzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	135-98-8	N/A	orl-rat 2240mg/kg
45.	Chlorobenzene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
46.	2-Chlorotoluene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	95-49-8	50 ppm (260mg/m3/8H)	orl-rat 3600mg/kg
47.	4-Chlorotoluene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	106-43-4	N/A	orl-rat 2100mg/kg
48.	1,2-Dichlorobenzene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
49.	1,3-Dichlorobenzene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	541-73-1	N/A	ipr-mus 1052mg/kg
50.	1,4-Dichlorobenzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
51.	Isopropylbenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
52.	n-Propylbenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	103-65-1	N/A	orl-rat 6040mg/kg
53.	o-Xylene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
54.	p-Xylene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
55.	Bromomethane	30058	101524	0.025	5.00	0.017	2007.5	50.2	0.4	74-83-9	5 ppm (20mg/m3/8H) (skin)	orl-rat 214mg/kg
56.	Chloroethane	30058	101524	0.025	5.00	0.017	2005.3	50.1	0.4	75-00-3	1000 ppm (2600mg/m3/8H)	N/A
57.	Chloromethane	30058	101524	0.025	5.00	0.017	2017.6	50.4	0.4	74-87-3	100 ppm	orl-rat 1800mg/kg
58.	Dichlorodifluoromethane	30058	101524	0.025	5.00	0.017	2010.3	50.3	0.4	75-71-8	1000 ppm (4950mg/m3/8H)	N/A
59.	Trichlorofluoromethane	30058	101524	0.025	5.00	0.017	2009.7	50.2	0.4	75-69-4	1000 ppm (5600mg/m3/8H)	ipr-mus 1743mg/kg
60.	Vinyl chloride	30058	101524	0.025	5.00	0.017	2006.8	50.2	0.4	75-01-4	N/A	N/A
61.	Acetone	92898	042420	0.025	5.00	0.017	2003.3	50.1	0.4	67-64-1	750 ppm	orl-rat 5800mg/kg
62.	Acrylonitrile	92898	042420	0.025	5.00	0.017	2003.7	50.1	0.4	107-13-1	N/A	orl-rat 78 mg/kg
63.	2-Butanone (Methyl ethyl ketone)	92898	042420	0.025	5.00	0.017	2002.0	50.1	0.4	78-93-3	200 ppm (590mg/m3/8H)	orl-rat 2737mg/kg
64.	Carbon disulphide	92898	042420	0.025	5.00	0.017	2003.0	50.1	0.4	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
65.	2-Hexanone	92898	042420	0.025	5.00	0.017	2002.0	50.1	0.4	591-78-6	100 ppm (410mg/m3/8H)	orl-rat 2580mg/kg
66.	4-Methyl-2-pentanone (MIBK)	92898	042420	0.025	5.00	0.017	2003.3	50.1	0.4	108-10-1	100 ppm (410mg/m3/8H)	orl-rat 2080mg/kg
67.	Tetrahydrofuran	92898	042420	0.025	5.00	0.017	2002.4	50.1	0.4	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
68.	Methyl tert-butyl ether (MTBE)	70209	072123	0.05	10.00	0.042	1003.5	50.2	0.5	1634-04-4	N/A	orl-rat 4g/kg
69.	tert-Amyl methyl ether	93394	092716	0.10	20.00	0.003	501.0	50.1	0.2	994-05-8	N/A	N/A
70.	tert-Butyl alcohol (t-Butanol)	93394	092716	0.10	20.00	0.003	5003.6	500.4	2.0	75-65-0	100 ppm (300mg/m3/8H)	orl-rat 3500mg/kg
71.	Diethyl ether (Ethyl ether)	93394	092716	0.10	20.00	0.003	501.4	50.1	0.2	60-29-7	400ppm (1200mg/m3/8H)	orl-rat 1215mg/kg
72.	1,4-Dioxane	93394	092716	0.10	20.00	0.003	5003.4	500.4	2.0	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
73.	Ethyl tert-butyl ether (ETBE)	93394	092716	0.10	20.00	0.003	501.4	50.1	0.2	637-92-3	N/A	N/A
74.	Isopropyl ether	93394	092716	0.10	20.00	0.003	500.4	50.0	0.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
75.	1,3,5-Trichlorobenzene	93394	092716	0.10	20.00	0.003	500.5	50.1	0.2	108-70-3	N/A	orl-rat 800mg/kg
76.	Allyl chloride (3-Chloropropene)	70325	042224	0.05	10.00	0.042	1002.6	50.1	0.5	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
77.	trans-1,4-Dichloro-2-butene	70466	011625	0.05	10.00	0.042	1003.9	50.2	0.5	110-57-6	N/A	N/A
78.	2-Isopropyl toluene	72537	060822	0.05	10.00	0.042	1000.7	50.0	0.5	527-84-4	N/A	orl-rat 2130mg/kg
79.	1,1,2-Trichlorotrifluoroethane	70474	092922	0.05	10.00	0.042	1001.4	50.1	0.5	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
80.	Ethanol	90572	063024	0.05	10.00	0.042	20005.0	1000.4	9.3	64-17-5	1000 ppm (1900mg/m3/8H)	orl-rat 7060mg/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5 % of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyatt, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

VO8260Second_00125

CERTIFIED WEIGHT REPORT

Part Number: 94577
Lot Number: 011625
Description: EPA Method 524.2 Volatile Standard
80 components
Expiration Date: 011628 Solvent(s): Methanol Lot# EJ143-USQ7
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Volume(s) shown below were combined and diluted to (mL): 200.0 0.002 Flask Uncertainty

Formulated By: Eli Ataga 011625 DATE
Reviewed By: Pedro L. Rentas 011625 DATE

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Bromodichloromethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	75-27-4	N/A	orl-rat 916mg/kg
2. Dibromochloromethane	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	124-48-1	N/A	orl-rat 848mg/kg
3. cis-1,2-Dichloroethene	32001	010925	0.025	5.00	0.017	2000.3	50.0	0.6	156-59-2	N/A	N/A
4. trans-1,2-Dichloroethene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	156-60-5	N/A	orl-rat 1235mg/kg
5. Methylene chloride	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	75-09-2	500 ppm	orl-rat 820mg/kg
6. 1,1-Dichloroethene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
7. Bromochloromethane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	74-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg
8. Bromoform	32001	010925	0.025	5.00	0.017	2001.1	50.0	0.6	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
9. Carbon tetrachloride	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
10. Chloroform	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
11. Dibromomethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	74-95-3	N/A	orl-rat 108mg/kg
12. 1,1-Dichloroethane	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	75-34-3	100 ppm	orl-rat 725mg/kg
13. 2,2-Dichloropropane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	594-20-7	N/A	N/A
14. Tetrachloroethene	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	127-18-4	25 ppm (170mg/m3/8H)(5mg)	orl-rat 2629mg/kg
15. 1,1,1-Trichloroethane	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
16. 1,2-Dibromo-3-chloropropane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	96-12-8	0.001 ppm	orl-rat 170mg/kg
17. 1,2-Dibromoethane	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
18. 1,2-Dichloroethane	32001	010925	0.025	5.00	0.017	2000.9	50.0	0.6	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
19. 1,2-Dichloropropane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
20. 1,3-Dichloropropane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	142-28-9	N/A	unr-mus 3600mg/kg
21. 1,1-Dichloropropene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.7	563-58-6	N/A	N/A
22. cis-1,3-Dichloropropene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	10061-01-5	N/A	N/A
23. trans-1,3-Dichloropropene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	10061-02-6	N/A	N/A
24. Hexachloro-1,3-butadiene	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
25. 1,1,1,2-Tetrachloroethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	630-20-6	N/A	orl-rat 670mg/kg
26. 1,1,2,2-Tetrachloroethane	32001	010925	0.025	5.00	0.017	2000.8	50.0	0.6	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
27. 1,1,2-Trichloroethane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
28. Trichloroethene	32001	010925	0.025	5.00	0.017	2000.9	50.0	0.6	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
29. 1,2,3-Trichloropropane	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
30. Benzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	71-43-2	1 ppm	orl-rat 4894mg/kg
31. Bromobenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	108-86-1	N/A	orl-rat 2699mg/kg
32. n-Butyl benzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	104-51-8	N/A	N/A
33. Ethyl benzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
34. p-Isopropyl toluene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	99-87-6	N/A	orl-rat 4750mg/kg
35. Naphthalene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
36. Styrene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	100-42-5	100 ppm	orl-rat 5000mg/kg
37. Toluene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	108-88-3	200 ppm	orl-rat 5000mg/kg
38. 1,2,3-Trichlorobenzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	87-61-6	N/A	ipr-mus 1390mg/kg
39. 1,2,4-Trichlorobenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
40. 1,2,4-Trimethylbenzene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	95-63-6	N/A	orl-rat 5g/kg
41. 1,3,5-Trimethylbenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	108-67-8	N/A	orl-rat 5000mg/kg
42. m-Xylene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
43. tert-Butyl benzene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	98-06-6	N/A	N/A
44. sec-Butyl benzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	135-98-8	N/A	orl-rat 2240mg/kg
45. Chlorobenzene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
46. 2-Chlorotoluene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	95-49-8	50 ppm (260mg/m3/8H)	orl-rat 3600mg/kg
47. 4-Chlorotoluene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	106-43-4	N/A	orl-rat 2100mg/kg
48. 1,2-Dichlorobenzene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
49. 1,3-Dichlorobenzene	32001	010925	0.025	5.00	0.017	2000.4	50.0	0.6	541-73-1	N/A	ipr-mus 1052mg/kg
50. 1,4-Dichlorobenzene	32001	010925	0.025	5.00	0.017	2000.5	50.0	0.6	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
51. Isopropylbenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
52. n-Propylbenzene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	103-65-1	N/A	orl-rat 6040mg/kg
53. o-Xylene	32001	010925	0.025	5.00	0.017	2000.7	50.0	0.6	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
54. p-Xylene	32001	010925	0.025	5.00	0.017	2000.6	50.0	0.6	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
55. Bromomethane	30058	101524	0.025	5.00	0.017	2007.5	50.2	0.4	74-83-9	5 ppm (20mg/m3/8H) (skin)	orl-rat 214mg/kg
56. Chloroethane	30058	101524	0.025	5.00	0.017	2005.3	50.1	0.4	75-00-3	1000 ppm (2600mg/m3/8H)	N/A
57. Chloromethane	30058	101524	0.025	5.00	0.017	2017.6	50.4	0.4	74-87-3	100 ppm	orl-rat 1800mg/kg
58. Dichlorodifluoromethane	30058	101524	0.025	5.00	0.017	2010.3	50.3	0.4	75-71-8	1000 ppm (4950mg/m3/8H)	N/A
59. Trichlorofluoromethane	30058	101524	0.025	5.00	0.017	2009.7	50.2	0.4	75-69-4	1000 ppm (5600mg/m3/8H)	ipr-mus 1743mg/kg
60. Vinyl chloride	30058	101524	0.025	5.00	0.017	2006.8	50.2	0.4	75-01-4	N/A	N/A
61. Acetone	92898	042420	0.025	5.00	0.017	2003.3	50.1	0.4	67-64-1	750 ppm	orl-rat 5800mg/kg
62. Acrylonitrile	92898	042420	0.025	5.00	0.017	2003.7	50.1	0.4	107-13-1	N/A	orl-rat 78 mg/kg
63. 2-Butanone (Methyl ethyl ketone)	92898	042420	0.025	5.00	0.017	2002.0	50.1	0.4	78-93-3	200 ppm (590mg/m3/8H)	orl-rat 2737mg/kg
64. Carbon disulphide	92898	042420	0.025	5.00	0.017	2003.0	50.1	0.4	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
65. 2-Hexanone	92898	042420	0.025	5.00	0.017	2002.0	50.1	0.4	591-78-6	100 ppm (410mg/m3/8H)	orl-rat 2590mg/kg
66. 4-Methyl-2-pentanone (MIBK)	92898	042420	0.025	5.00	0.017	2003.3	50.1	0.4	108-10-1	100 ppm (410mg/m3/8H)	orl-rat 2080mg/kg
67. Tetrahydrofuran	92898	042420	0.025	5.00	0.017	2002.4	50.1	0.4	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
68. Methyl tert-butyl ether (MTBE)	70209	072123	0.05	10.00	0.042	1003.5	50.2	0.5	1634-04-4	N/A	orl-rat 4g/kg
69. tert-Amyl methyl ether	93394	092716	0.10	20.00	0.003	501.0	50.1	0.2	994-05-8	N/A	N/A
70. tert-Butyl alcohol (t-Butanol)	93394	092716	0.10	20.00	0.003	5003.6	500.4	2.0	75-65-0	100 ppm (300mg/m3/8H)	orl-rat 3500mg/kg
71. Diethyl ether (Ethyl ether)	93394	092716	0.10	20.00	0.003	501.4	50.1	0.2	60-29-7	400ppm (1200mg/m3/8H)	orl-rat 1215mg/kg
72. 1,4-Dioxane	93394	092716	0.10	20.00	0.003	5003.4	500.4	2.0	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
73. Ethyl tert-butyl ether (ETBE)	93394	092716	0.10	20.00	0.003	501.4	50.1	0.2	637-92-3	N/A	N/A
74. Isopropyl ether	93394	092716	0.10	20.00	0.003	500.4	50.0	0.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
75. 1,3,5-Trichlorobenzene	93394	092716	0.10	20.00	0.003	500.5	50.1	0.2	108-70-3	N/A	orl-rat 800mg/kg
76. Allyl chloride (3-Chloropropene)	70325	042224	0.05	10.00	0.042	1002.6	50.1	0.5	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
77. trans-1,4-Dichloro-2-butene	70466	011625	0.05	10.00	0.042	1003.9	50.2	0.5	110-57-6	N/A	N/A
78. 2-Isopropyl toluene	72537	060822	0.05	10.00	0.042	1000.7	50.0	0.5	527-84-4	N/A	orl-rat 2130mg/kg
79. 1,1,2-Trichlorotrifluoroethane	70474	092922	0.05	10.00	0.042	1001.4	50.1	0.5	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
80. Ethanol	90572	063024	0.05	10.00	0.042	20005.0	1000.4	9.3	64-17-5	1000 ppm (1900mg/m3/8H)	orl-rat 7060mg/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5 % of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyatt, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

VOVAPrimary_00015

Reference Standard Data Pack

8260 List 1 / Std #6 Vinyl Acetate (2015)

Catalog # 569724

Lot # A0209567

110 Benner Circle Bellefonte, PA 16823-8812
1-814-353-1300 1-800-356-1688
www.restek.com

FOR LABORATORY USE ONLY. READ SDS PRIOR TO USE.
RAW MATERIAL TEST INFORMATION AVAILABLE UPON REQUEST

MANUFACTURED UNDER RESTEK'S ISO 9001 REGISTERED QUALITY SYSTEM

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

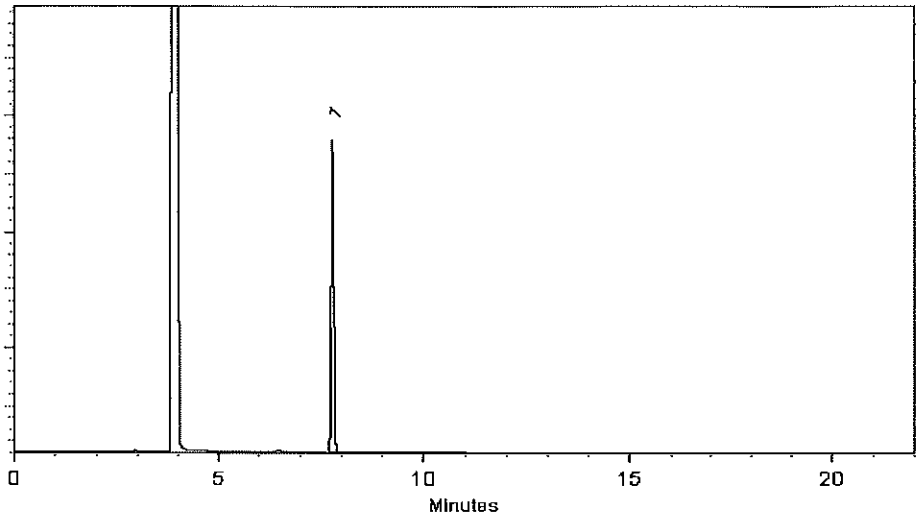
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 27-Mar-2024 **Balance Serial #** B251644995

Amanda Miller - Operations Tech III - ARM QC

Date Passed: 29-Mar-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK

Reference Material Batch Record
Lot #: A0209567

Catalog #: 569724	**Target:** 5,000 ug/mL	
Description: 8260 List 1 / Std #6 Vinyl Acetate (2015)		
Solvent: P&T Methanol	**Solvent Lot:** 234204	**Final Volume:** 400 ml

Made by: Morgan Craighead	**Date:** 3/27/2024 7:16:16PM		
Tested by: Jennifer Pollino	**Date:** 3/28/2024 7:48:40AM		
Pass	**By:** Amanda Miller	**Date:** 3/29/2024 8:58:59AM	
Packaged by: Malina Homan / Morgan Craighead	**Date:** 3/27/2024 8:16:02PM	**No. Units:** 192	**Pkg Size:** 1 mL
Balance Used: BEDE001744 XP205	**Serial #:** B251644995		

Compound	CAS	Storage Location	Lot #	Purity	Target Conc(ug/mL)	Target	Actual	Calc Conc(ug/mL)
Vinyl acetate	108-05-4	F0030	RP231030CTH	0.98	5,000.00	2,040.82 mg	2,055.00 mg	5,034.8

Reagent

WC_FL_KHP_3_00007

ThermoFisher SCIENTIFIC

Version	01
Molecular weight	204.22
Quality Test / Release Date	05/29/2022
Molecular Formula	C8 H5 K O4
CAS No	877-24-7
Linear Formula	2-(HO2C)C6H4CO2K
Flash Point (°C)	

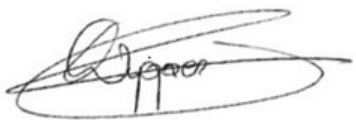
Certificate of Analysis

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Catalog Number	42406	**Quality Test / Release Date**	05/29/2022
Lot Number	A0414437	**Suggested retest date**	05/29/2027
Description	Potassium hydrogen phthalate,ACS reagent,acidimetric standar d		
Country of Origin	INDIA		
Declaration of Origin	synthetic		

BSE/TSE	
Chemical	

Result name	Specifications	Test Value
Appearance (Color)	White	White
Appearance (Form)	Crystalline powder or crystals	Crystalline powder
Infrared spectrum	Conforms	Conforms
Titration with NaOH	99.95 to 100.05 % (On dried basis)	100.02 % (On dried basis)
pH	4.00 to 4.02 (0.05M at 25.0 +/- 0.2°C)	4.00 (0.05M at 25.0 +/- 0.2°C)
Insoluble matter	=<0.005 %	0.004 %
Chlorine compounds (as Cl)	=<0.003 %	=<0.003 %
Sulfur compounds (as S)	=<0.002 %	=<0.002 %
Heavy metals (as Pb)	=<5 ppm	=<5 ppm
Iron (Fe)	=<5 ppm	=<5 ppm
Sodium (Na)	=<0.005 %	=<0.005 %



C. Wygaerts, QA Manager

Issued: 05-30-2022

Acros Organics BV
ENA23, zone1, nr 1350, Janssen Pharmaceuticalaan 3a, B-2440 Geel, Belgium
Tel +32 14/57.52.11 - Fax+32 14/59.34.34 Internet: https://www.thermofisher.com
1 Reagent Lane, Fair Lawn, NJ 07410, USA Fax 201-796-1329

Reagent

WC_IC_C_Br_00009

CERTIFIED WEIGHT REPORT:

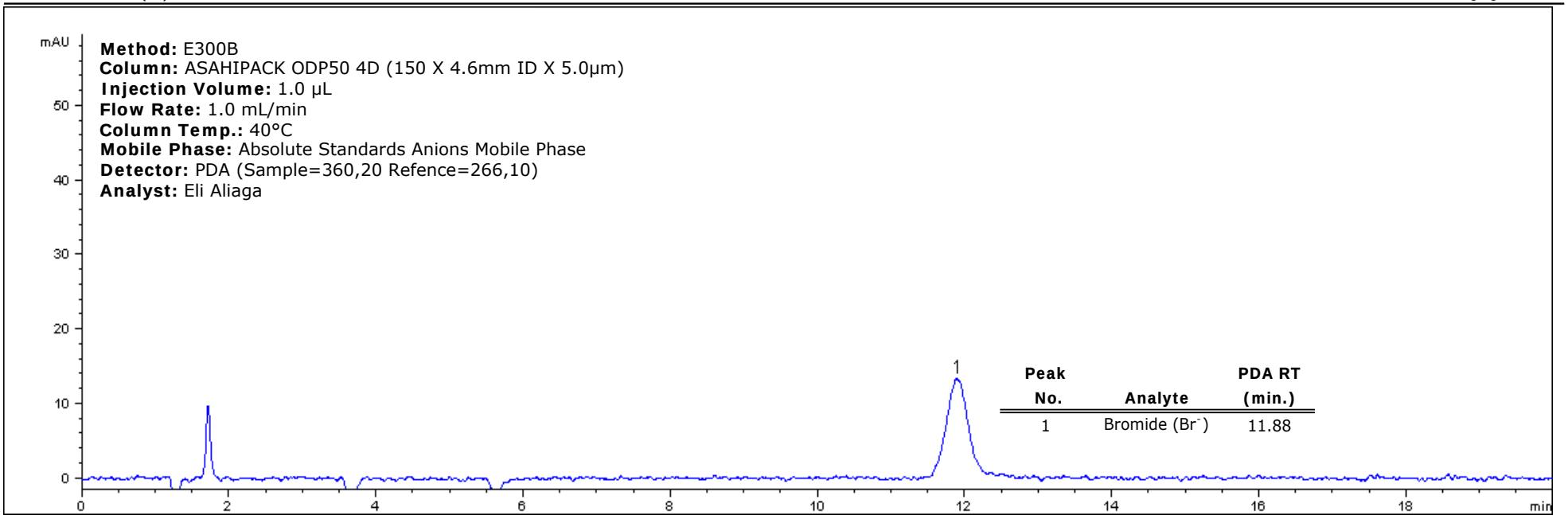
Part Number: **54107**
Lot Number: **031824**
Description: **Bromide (Br^-)**

Expiration Date: 031827
Recommended Storage: Refrigerate (4 ºC)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

Lot #
Solvent: 031824 ASTM Type 1 Water

Formulated By:	Benson Chan	031824
Reviewed By:	Pedro L. Rentas	031824

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium bromide (Br)	IN093	MKBS8981V	1000	99.0	0.10	77.7	5.2031	5.2032	**1000.0**	**2.0**	7647-15-6	NA	orl-rat 3500mg/kg	3184



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_C_Cl_00012

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Ion Chromatography Solution
Catalog Number:	ICCL1
Lot Number:	U2-CL731103
Matrix:	H2O
Value / Analyte(s):	1 000 µg/mL ea: Chloride
Starting Material:	Potassium Chloride
Starting Material Lot#:	2389
Starting Material Purity:	99.8400%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1003 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**1003 ± 5 µg/mL** Fajans NIST SRM 999c Lot Number: 999c
Assay Method #2	**1002 ± 4 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2
Assay Method #3	**1003 ± 2 µg/mL** IC Assay NIST SRM 3182 Lot Number: 190830

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

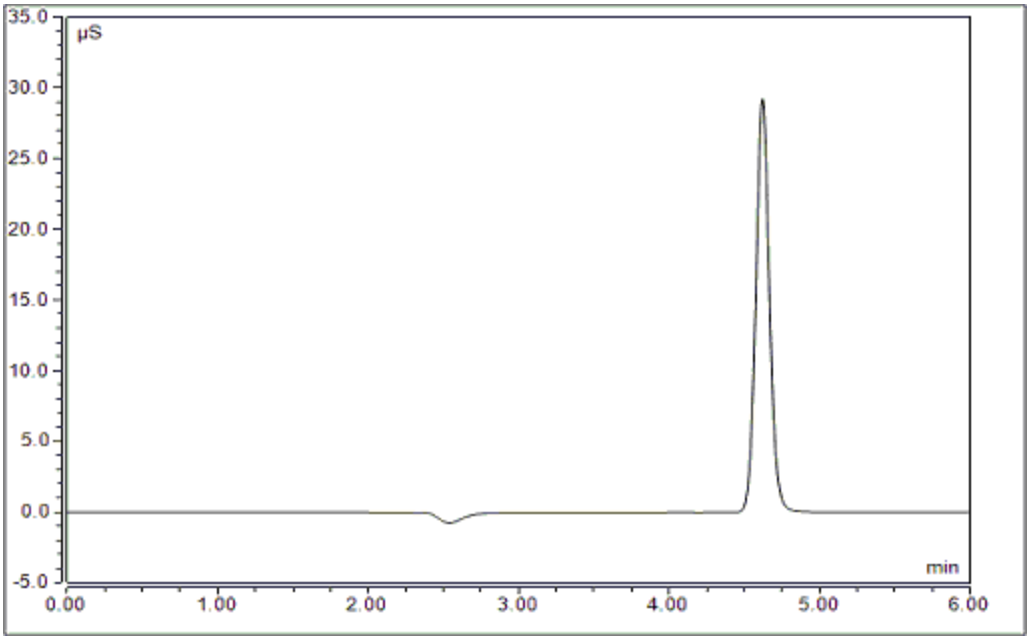
4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 CHROMATOGRAM



Thermo Dionex Aquion IC

Analytical Column:	IonPac AS22 4 x 250 mm	**Eluent:**	4.5 mM Na2CO3 / 1.4mM NaHCO3
Guard Column:	IonPac AG22 4 x 50 mm	**Eluent Flow Rate:**	1.2mL/min
Anion Self Regen Suppressor/ Chemical Suppression:	AERS 500 4 mm	**Column Temp:**	20°C
		Cell Temp:	35°C
Cation Self Regen Suppressor/ Chemical Suppression:	N/A	**Scale X-Axis:**	minutes
		Scale Y-Axis:	35µS/cm
		Concentration:	20µg/g
Suppressor Current/ Chemical Suppressant:	41mA		

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 29, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 29, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

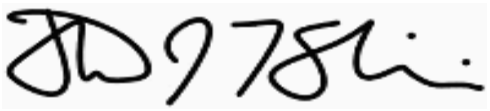
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

WC_IC_C_F_00010

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Ion Chromatography Solution
Catalog Number:	ICF1
Lot Number:	V2-F740739
Matrix:	H2O
Value / Analyte(s):	1 000 µg/mL ea: Fluoride
Starting Material:	Sodium fluoride
Starting Material Lot#:	2399
Starting Material Purity:	99.3600%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1000 ± 3 µg/mL

Density: 1.001 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **1000 ± 2 µg/mL**
IC Assay NIST SRM 3183 Lot Number: 140203

Assay Method #2 **1001 ± 4 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

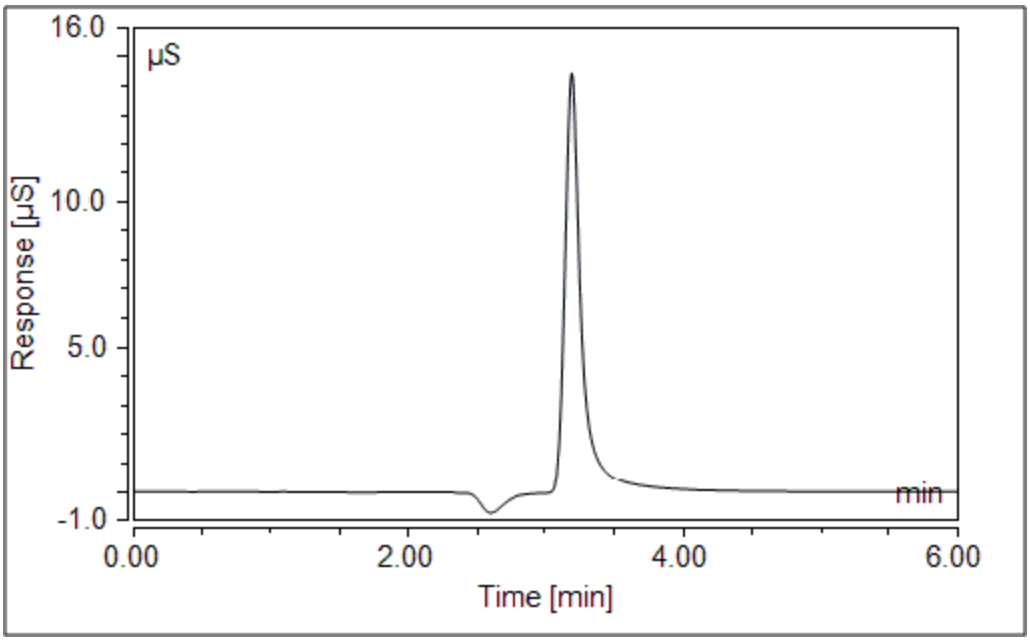
4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 CHROMATOGRAM



Thermo Dionex Aquion IC

Analytical Column:	IonPac AS22 4 x 250 mm	**Eluent:**	4.5 mM Na2CO3 / 1.4mM NaHCO3
Guard Column:	IonPac AG22 4 x 50 mm	**Eluent Flow Rate:**	1.2mL/min
Anion Self Regen Suppressor/ Chemical Suppression:	AERS 500 4 mm	**Column Temp:**	20°C
		Cell Temp:	35°C
		Scale X-Axis:	minutes
Cation Self Regen Suppressor/ Chemical Suppression:	N/A	**Scale Y-Axis:**	16µS/cm
		Concentration:	10µg/g
Suppressor Current/ Chemical Suppressant:	41mA		

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 22, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 22, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

WC_IC_C_NO2_00007

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

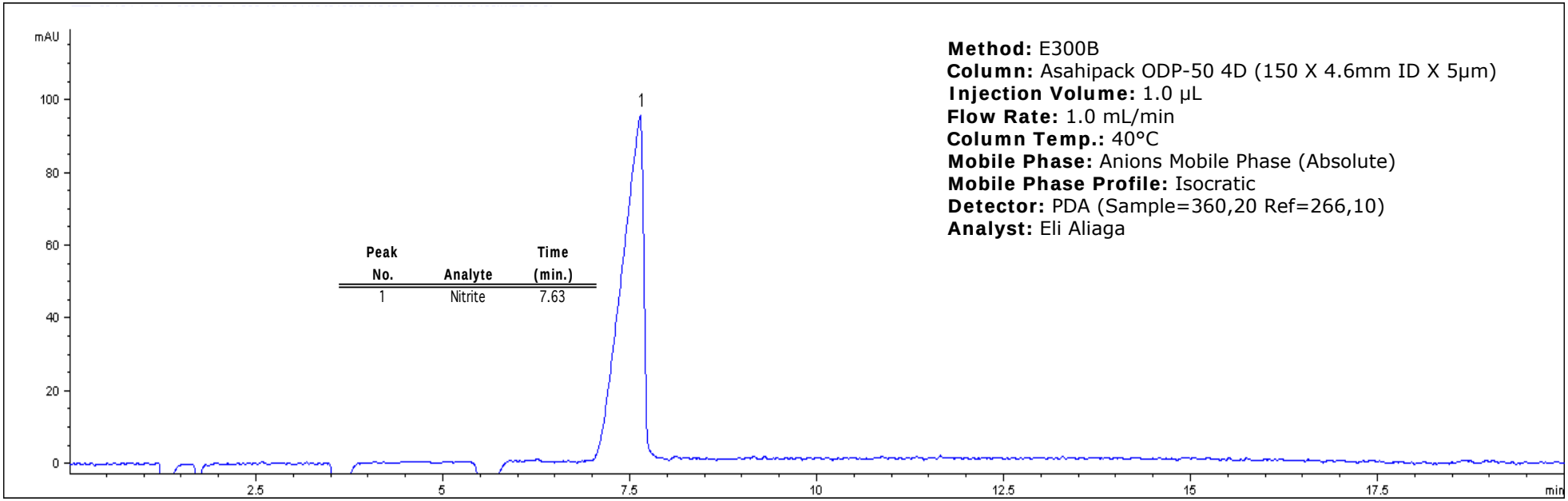
Part Number: 54104
Lot Number: 081023
Description: Nitrite (NO_2^-) as N

Lot #
Solvent: 081023 ASTM Type 1 Water

Expiration Date: 081026
Recommended Storage: Refrigerate (4 ºC)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.0 0.058 Flask Uncertainty

Formulated By:	Benson Chan 081023
Reviewed By:	Pedro L. Rentas 081023

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrite (N)	IN089	MKCS0948	1000	99.7	0.10	20.3	19.7736	19.7751	**1000.1**	**2.0**	7632-00-0	NA	orl-rat 186mg/kg	NA



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_C_NO3_00009

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

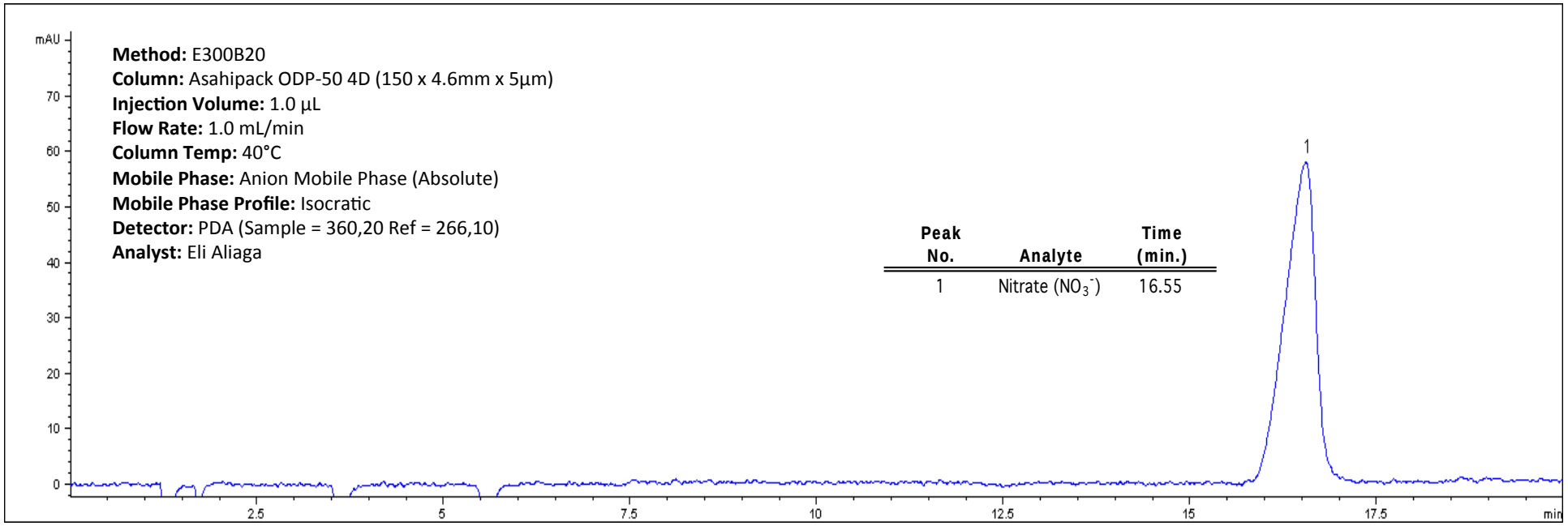
Part Number: **54103**
Lot Number: **072424**
Description: **Nitrate (NO_3^-) as N**

Expiration Date: 072427
Recommended Storage: Refrigerate (4 ºC)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

Lot #
Solvent: 072424 ASTM Type 1 Water

Formulated By:	Benson Chan	072424
Reviewed By:	Pedro L. Rentas	072424

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (N)	IN138	MKCQ7907	1000	99.1	0.10	16.5	24.4928	24.4940	**1000.0**	**2.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3185



Method: E300B20
Column: Asahipack ODP-50 4D (150 x 4.6mm x 5µm)
Injection Volume: 1.0 µL
Flow Rate: 1.0 mL/min
Column Temp: 40°C
Mobile Phase: Anion Mobile Phase (Absolute)
Mobile Phase Profile: Isocratic
Detector: PDA (Sample = 360,20 Ref = 266,10)
Analyst: Eli Aliaga

Peak No.	Analyte	Time (min.)
1	Nitrate (NO_3^-)	16.55

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_Q_CI_00016

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

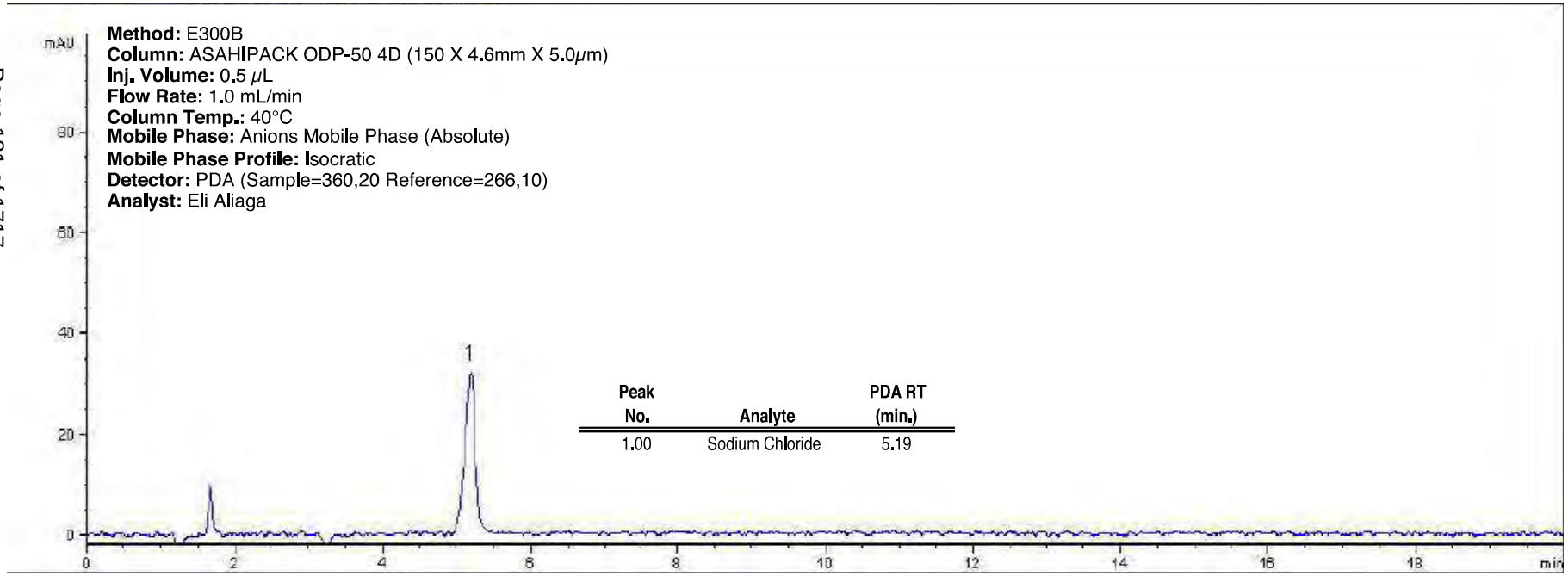
Part Number: 54101
Lot Number: 031125
Description: Chloride (Cl^-)

Solvent: Lot # 031125 ASTM Type 1 Water

Formulated By:	Benson Chan	031125
Reviewed By:	Pedro L. Rentas	031125

Expiration Date: 031128
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium chloride (Cl)	IN090	317765	1000	99.6	0.10	60.7	6.6164	6.6176	**1000.2**	**2.0**	7647-14-5	NA	NA	3182



Method: E300B
Column: ASAHIPACK ODP-50 4D (150 X 4.6mm X 5.0µm)
Inj. Volume: 0.5 µL
Flow Rate: 1.0 mL/min
Column Temp.: 40°C
Mobile Phase: Anions Mobile Phase (Absolute)
Mobile Phase Profile: Isocratic
Detector: PDA (Sample=360,20 Reference=266,10)
Analyst: Eli Aliaga

Peak No.	Analyte	PDA RT (min.)
1.00	Sodium Chloride	5.19

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_Q_NO3_00007

CERTIFIED WEIGHT REPORT:

Part Number: 54103
Lot Number: 102924
Description: Nitrate (NO_3^-) as N

Expiration Date: 102927
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

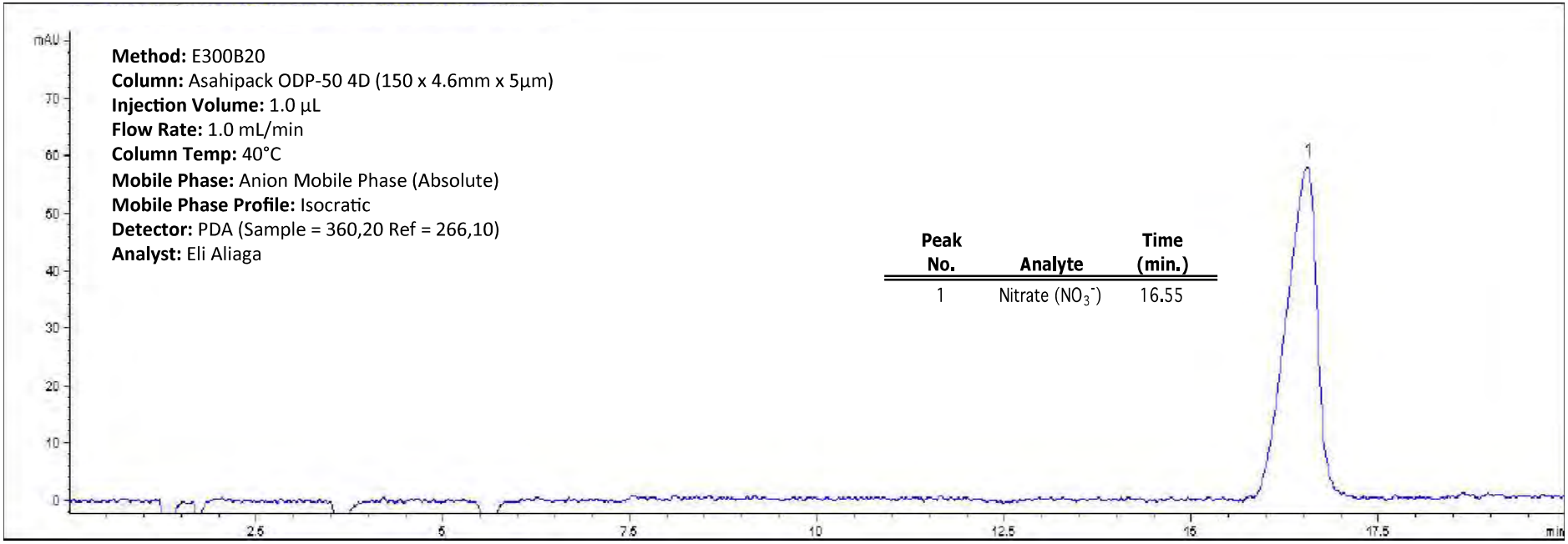
Weight shown below was diluted to (mL): 4000.1 | 0.15 Flask Uncertainty | 5E-05 Balance Uncertainty

Solvent: 102924 ASTM Type 1 Water

Lot #

Formulated By:	Aleah O'Brady	102924
Reviewed By:	Pedro L. Rentas	102924

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (N)	IN138	MKCQ7907	1000	99.1	0.10	16.5	24.4928	24.4935	**1000.0**	**2.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3185



Method: E300B20
Column: Asahipack ODP-50 4D (150 x 4.6mm x 5µm)
Injection Volume: 1.0 µL
Flow Rate: 1.0 mL/min
Column Temp: 40°C
Mobile Phase: Anion Mobile Phase (Absolute)
Mobile Phase Profile: Isocratic
Detector: PDA (Sample = 360,20 Ref = 266,10)
Analyst: Eli Aliaga

Peak No.	Analyte	Time (min.)
1	Nitrate (NO_3^-)	16.55

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_Q_SO4_00018

CERTIFIED WEIGHT REPORT:

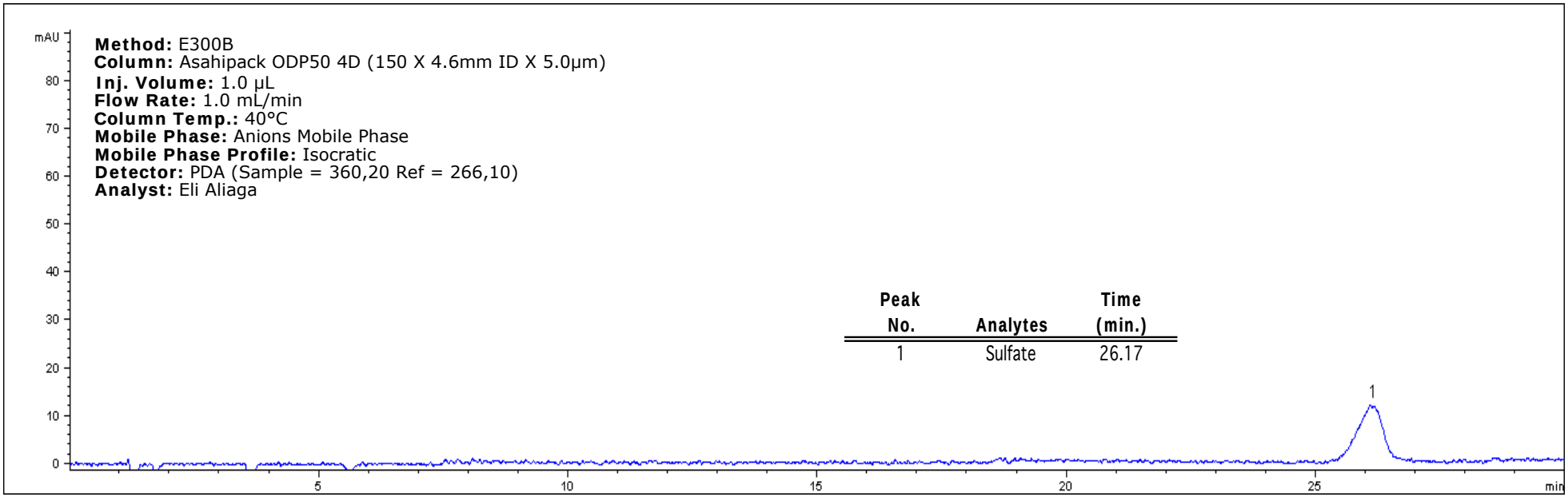
Part Number: **54506**
Lot Number: **061024**
Description: **Sulfate (SO_4^{2-})**

Expiration Date: 061027
Recommended Storage: Refrigerate (4 ºC)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

Lot #
Solvent: 061024 ASTM Type 1 Water

Formulated By:	Aleah O'Brady	061024
Reviewed By:	Pedro L. Rentas	061024

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium sulfate (SO4)	IN091	MKCS1079	1000	99.9	0.10	55.1	7.2669	7.2673	**1000.0**	**2.0**	7778-80-5	NA	orl-rat >2000 mg/kg	3181



Method: E300B
Column: Asahipack ODP50 4D (150 X 4.6mm ID X 5.0µm)
Inj. Volume: 1.0 µL
Flow Rate: 1.0 mL/min
Column Temp.: 40°C
Mobile Phase: Anions Mobile Phase
Mobile Phase Profile: Isocratic
Detector: PDA (Sample = 360,20 Ref = 266,10)
Analyst: Eli Aliaga

Peak No.	Analytes	Time (min.)
1	Sulfate	26.17

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Reagent

WC_IC_Q_SO4_00019

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

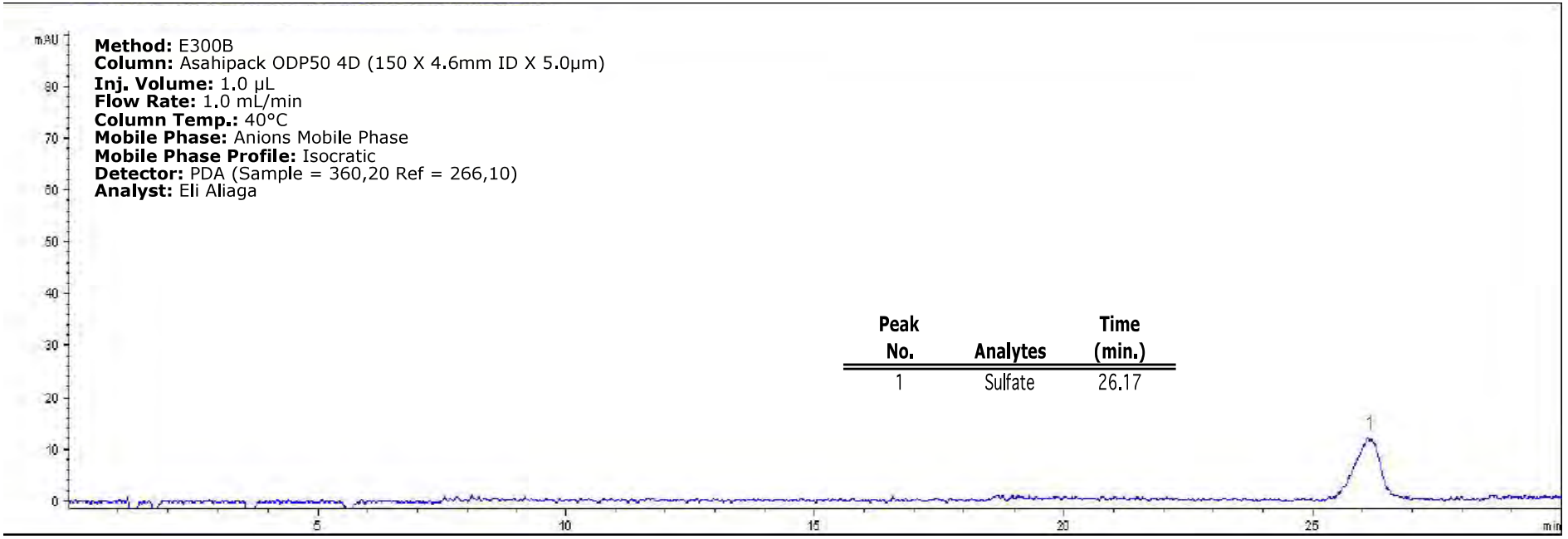
Part Number: 54506
Lot Number: 050525
Description: Sulfate (SO_4^{2-})

Expiration Date: 050528
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

Solvent: Lot # 050525 ASTM Type 1 Water

Formulated By:	Aleah O'Brady	050525
Reviewed By:	Pedro L. Rentas	050525

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium sulfate (SO4)	IN091	MKCT0953	1000	99.9	0.10	55.1	7.2669	7.2671	**1000.0**	**2.0**	7778-80-5	NA	orl-rat >2000 mg/kg	3181



Method: E300B
Column: Asahipack ODP50 4D (150 X 4.6mm ID X 5.0µm)
Inj. Volume: 1.0 µL
Flow Rate: 1.0 mL/min
Column Temp.: 40°C
Mobile Phase: Anions Mobile Phase
Mobile Phase Profile: Isocratic
Detector: PDA (Sample = 360,20 Ref = 266,10)
Analyst: Eli Aliaga

Peak No.	Analytes	Time (min.)
1	Sulfate	26.17

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware, and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated by an ISO17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994). Rev 1.0, 2/25/2025

Reagent

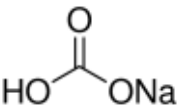
WC_TC_Q_BCarb_00008

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Sodium bicarbonate - ACS reagent, ≥99.7%

Product Number:	**S6014**
Batch Number:	**SLCL6650**
Brand:	SIGALD
CAS Number:	144-55-8
MDL Number:	MFCD00003528
Formula:	NaHCO3
Formula Weight:	84.01 g/mol
Quality Release Date:	02 NOV 2021
Recommended Retest Date:	NOV 2026



Test	Specification	Result
Ammonium (NH4) < /= 5 ppm	Conforms	Conforms
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Assay	99.7 - 100.3 %	100.1 %
Calcium (Ca) < /= 0.02%	Conforms	Conforms
Chloride (Cl) < /= 0.003%	Conforms	Conforms
Heavy Metals by ICP-OES	< = 5 ppm	< 5 ppm
Infrared Spectrum	Conforms to Structure	Conforms
Insoluble Matter < /= 0.015%	Conforms	Conforms
Iron (Fe) < /= 0.001%	Conforms	Conforms
Magnesium (Mg) < /= 0.005%	Conforms	Conforms
Note ACS tests	----------	----------
Phosphate (PO4) < /= 0.001%	Conforms	Conforms
Potassium (K) < /= 0.005%	Conforms	Conforms

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Number: **S6014**
Batch Number: **SLCL6650**

Test	Specification	Result
Sulfur Compounds (SO4) < /= 0.003%	Conforms	Conforms

Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Reagent

WC_TC_Q_Carb_00011

LabChem
Part of TCP Analytical Group
Jackson's Pointe Commerce Park- Building 1000
1010 Jackson's Pointe Court, Zelienople, PA 16063

Certificate of Analysis

Sodium Carbonate Anhydrous ACS

Product Code: **LC22965**

Manufacture Date: April 25, 2025

Lot Number: **45040435**

Test	Specification	Result
Appearance (color)	white	white
Assay - % w/w	>= 99.5 % w/w	99.8% w/w
Calcium (Ca)	<= 0.03 %	<0.01%
Iron (Fe)	<= 5 ppm	<5ppm
Magnesium (Mg)	<= 0.005 %	<0.001%
Potassium (K)	<= 0.005 %	<0.001%
Loss on Heating @ 285°C	<= 1.0 %	<0.4%
Chloride	<= 0.02 %	<0.01%
Heavy Metals (Pb)	<= 5 ppm	<5ppm
Insoluble Matter and NH4OH ppt	<= 0.01 %	<0.01%
Phosphate (PO4)	<= 0.001 %	<0.001%
Silica (SiO2)	<= 0.005 %	<0.005%
Sulfur compounds (as SO4)	<= 0.003 %	<0.003%

Intended Use *- Product is intended for use in manufacturing procedures and laboratory procedures and protocols.*

Storage Information *- Unless noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.*

Instructions for Handling and Use - *Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.*

Preparation - *All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST*

The suffix of the product code may differ from what is on your product label. The suffix will designate the size and be associated with a numeric digit(s). Visit LabChem.com for more information

Suffix	1	2	3/3S/36/36S	4/4C	5	6	7	8	9	20	44	200	246	486
Size	500mL or g	1L or 1kg	2.5L/2.5L Coated/6x2.5L/6x2.5L Coated	4L	20L	10L	125mL	25g	100g	20x20mL	4x4L	200L	24x6mL	48x6mL

Michael Monteleone

Michael Monteleone
Chemistry Supervisor - Quality Control

ISO9001:2015 Registration #0306-01

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-VRX ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-17/250811	620-28577-1	112	113	100	100
MW-17/250811 DL	620-28577-1 DL	107	110	99	99
MW-19/250813	620-28577-2	106	103	100	98
MW-18/250813	620-28577-3	111	113	98	99
MW-18/250813 DL	620-28577-3 DL	107	110	100	98
MW-103I/250813	620-28577-4	113	112	100	100
MW-103I/250813 DL	620-28577-4 DL	111	112	101	101
MW-102B/250813	620-28577-5	110	109	100	99
MW-102B/250813 DL	620-28577-5 DL	111	110	99	99
MW-102IR/250813	620-28577-6	106	105	99	100
MW-102IR/250813 DL	620-28577-6 DL	109	111	100	99
FB/250813	620-28577-7	111	111	100	100
TB/250813	620-28577-8	111	111	100	100
	MB 620-52249/7	109	109	98	99
	MB 620-52339/7	105	102	96	99
	MB 620-52457/7	101	104	100	100
	MB 620-52540/7	104	107	100	99
	LCS 620-52249/4	107	103	102	102
	LCS 620-52339/4	103	99	102	100
	LCS 620-52457/4	101	96	101	102
	LCS 620-52540/4	104	101	101	104
	LCSD 620-52249/5	107	104	103	103
	LCSD 620-52339/5	105	99	102	100
	LCSD 620-52457/5	103	98	100	102
	LCSD 620-52540/5	103	101	100	104

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081825-04.D

Lab ID: LCS 620-52249/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	20.9	104	72-120	
Acetone	20.0	22.0	110	19-144	
Acrylonitrile	20.0	20.9	104	67-141	
Benzene	20.0	19.8	99	82-120	
Bromobenzene	20.0	21.9	110	80-115	
Bromochloromethane	20.0	21.7	108	84-119	
Bromodichloromethane	20.0	26.0	130	77-118	*
Bromoform	20.0	23.0	115	68-130	
Bromomethane	20.0	14.9	75	27-151	
2-Butanone (MEK)	20.0	21.6	108	32-126	
n-Butylbenzene	20.0	23.1	115	81-129	
sec-Butylbenzene	20.0	23.1	115	81-124	
tert-Butylbenzene	20.0	23.8	119	80-128	
Carbon disulfide	20.0	18.9	94	67-136	
Carbon tetrachloride	20.0	50.7	254	70-129	*
Chlorobenzene	20.0	20.7	104	82-112	
Chloroethane	20.0	19.9	100	47-142	
Chloroform	20.0	21.9	110	77-126	
Chloromethane	20.0	14.6	73	26-159	
2-Chlorotoluene	20.0	22.6	113	82-122	
4-Chlorotoluene	20.0	22.6	113	79-123	
1,2-Dibromo-3-Chloropropane	20.0	20.0	100	64-117	
Dibromochloromethane	20.0	21.2	106	71-126	
1,2-Dibromoethane (EDB)	20.0	22.4	112	83-122	
Dibromomethane	20.0	21.9	110	83-117	
1,2-Dichlorobenzene	20.0	20.7	103	87-118	
1,3-Dichlorobenzene	20.0	21.5	107	83-122	
1,4-Dichlorobenzene	20.0	20.1	100	81-115	
Dichlorodifluoromethane (Freon 12)	20.0	10.8	54	21-147	
1,1-Dichloroethane	20.0	20.3	102	84-122	
1,2-Dichloroethane	20.0	21.0	105	69-121	
1,1-Dichloroethene	20.0	20.0	100	83-123	
cis-1,2-Dichloroethene	20.0	21.5	108	85-122	
trans-1,2-Dichloroethene	20.0	20.1	100	84-123	
1,2-Dichloropropane	20.0	20.7	104	80-124	
1,3-Dichloropropane	20.0	21.4	107	80-118	
2,2-Dichloropropane	20.0	26.0	130	74-125	*
1,1-Dichloropropene	20.0	21.5	108	76-120	
cis-1,3-Dichloropropene	20.0	23.0	115	76-125	
trans-1,3-Dichloropropene	20.0	23.0	115	77-132	

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 Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081825-04.D

Lab ID: LCS 620-52249/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethylbenzene	20.0	23.0	115	85-116	
Hexachlorobutadiene	20.0	19.7	99	70-127	
2-Hexanone (MBK)	20.0	20.6	103	40-130	
Isopropylbenzene	20.0	21.8	109	78-122	
4-Isopropyltoluene	20.0	23.2	116	80-121	
Methyl tert-butyl ether	20.0	21.3	106	72-126	
4-Methyl-2-pentanone (MIBK)	20.0	18.0	90	59-130	
Methylene Chloride	20.0	20.2	101	77-124	
Naphthalene	20.0	16.4	82	57-133	
N-Propylbenzene	20.0	21.6	108	86-124	
Styrene	20.0	24.1	121	80-121	
1,1,1,2-Tetrachloroethane	20.0	22.3	111	81-113	
1,1,2,2-Tetrachloroethane	20.0	20.4	102	74-115	
Tetrachloroethene	20.0	22.1	111	78-124	
Toluene	20.0	21.2	106	83-114	
1,2,3-Trichlorobenzene	20.0	19.0	95	73-128	
1,2,4-Trichlorobenzene	20.0	20.6	103	74-128	
1,3,5-Trichlorobenzene	20.0	20.6	103	81-124	
1,1,1-Trichloroethane	20.0	27.9	140	76-124	*
1,1,2-Trichloroethane	20.0	21.5	107	83-120	
Trichloroethene	20.0	21.2	106	79-113	
Trichlorofluoromethane (Freon 11)	20.0	18.7	93	68-130	
1,2,3-Trichloropropane	20.0	21.0	105	74-116	
1,2,4-Trimethylbenzene	20.0	23.8	119	83-121	
1,3,5-Trimethylbenzene	20.0	23.6	118	82-125	
Vinyl chloride	20.0	17.2	86	49-145	
m,p-Xylene	20.0	24.5	123	82-128	
o-Xylene	20.0	23.8	119	83-122	
Tetrahydrofuran	20.0	19.4	97	59-134	
Ethyl ether	20.0	19.3	96	74-119	
Tert-amyl methyl ether	20.0	20.3	101	70-122	
Ethyl tert-butyl ether	20.0	21.5	107	72-122	
di-Isopropyl ether	20.0	20.7	103	66-130	
tert-Butanol	200	207	104	60-146	
trans-1,4-Dichloro-2-butene	20.0	21.1	105	57-146	
Ethanol	400	463	116	53-150	

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 Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081925-03.D

Lab ID: LCS 620-52339/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	22.2	111	72-120	
Acetone	20.0	15.8	79	19-144	
Acrylonitrile	20.0	21.4	107	67-141	
Benzene	20.0	20.8	104	82-120	
Bromobenzene	20.0	21.7	108	80-115	
Bromochloromethane	20.0	22.7	113	84-119	
Bromodichloromethane	20.0	24.9	124	77-118	*
Bromoform	20.0	21.6	108	68-130	
Bromomethane	20.0	16.9	85	27-151	
2-Butanone (MEK)	20.0	17.6	88	32-126	
n-Butylbenzene	20.0	22.6	113	81-129	
sec-Butylbenzene	20.0	22.4	112	81-124	
tert-Butylbenzene	20.0	23.0	115	80-128	
Carbon disulfide	20.0	21.7	108	67-136	
Carbon tetrachloride	20.0	49.6	248	70-129	*
Chlorobenzene	20.0	20.7	104	82-112	
Chloroethane	20.0	19.8	99	47-142	
Chloroform	20.0	21.5	108	77-126	
Chloromethane	20.0	15.6	78	26-159	
2-Chlorotoluene	20.0	22.1	111	82-122	
4-Chlorotoluene	20.0	22.1	111	79-123	
1,2-Dibromo-3-Chloropropane	20.0	18.3	91	64-117	
Dibromochloromethane	20.0	20.4	102	71-126	
1,2-Dibromoethane (EDB)	20.0	22.1	111	83-122	
Dibromomethane	20.0	21.5	107	83-117	
1,2-Dichlorobenzene	20.0	20.7	104	87-118	
1,3-Dichlorobenzene	20.0	20.9	105	83-122	
1,4-Dichlorobenzene	20.0	20.0	100	81-115	
Dichlorodifluoromethane (Freon 12)	20.0	21.5	107	21-147	
1,1-Dichloroethane	20.0	21.0	105	84-122	
1,2-Dichloroethane	20.0	20.4	102	69-121	
1,1-Dichloroethene	20.0	22.2	111	83-123	
cis-1,2-Dichloroethene	20.0	22.1	110	85-122	
trans-1,2-Dichloroethene	20.0	21.8	109	84-123	
1,2-Dichloropropane	20.0	21.3	106	80-124	
1,3-Dichloropropane	20.0	21.0	105	80-118	
2,2-Dichloropropane	20.0	25.0	125	74-125	
1,1-Dichloropropene	20.0	22.9	114	76-120	
cis-1,3-Dichloropropene	20.0	22.5	113	76-125	
trans-1,3-Dichloropropene	20.0	21.8	109	77-132	

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 Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081925-03.D

Lab ID: LCS 620-52339/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethylbenzene	20.0	23.1	116	85-116	
Hexachlorobutadiene	20.0	18.8	94	70-127	
2-Hexanone (MBK)	20.0	15.2	76	40-130	
Isopropylbenzene	20.0	21.0	105	78-122	
4-Isopropyltoluene	20.0	22.8	114	80-121	
Methyl tert-butyl ether	20.0	22.6	113	72-126	
4-Methyl-2-pentanone (MIBK)	20.0	16.1	80	59-130	
Methylene Chloride	20.0	21.0	105	77-124	
Naphthalene	20.0	15.2	76	57-133	
N-Propylbenzene	20.0	21.2	106	86-124	
Styrene	20.0	24.0	120	80-121	
1,1,1,2-Tetrachloroethane	20.0	21.7	108	81-113	
1,1,2,2-Tetrachloroethane	20.0	19.3	96	74-115	
Tetrachloroethene	20.0	22.6	113	78-124	
Toluene	20.0	21.8	109	83-114	
1,2,3-Trichlorobenzene	20.0	18.1	90	73-128	
1,2,4-Trichlorobenzene	20.0	19.6	98	74-128	
1,3,5-Trichlorobenzene	20.0	20.4	102	81-124	
1,1,1-Trichloroethane	20.0	26.7	133	76-124	*
1,1,2-Trichloroethane	20.0	21.1	105	83-120	
Trichloroethene	20.0	22.2	111	79-113	
Trichlorofluoromethane (Freon 11)	20.0	21.9	110	68-130	
1,2,3-Trichloropropane	20.0	19.7	98	74-116	
1,2,4-Trimethylbenzene	20.0	22.7	114	83-121	
1,3,5-Trimethylbenzene	20.0	23.2	116	82-125	
Vinyl chloride	20.0	20.0	100	49-145	
m,p-Xylene	20.0	24.0	120	82-128	
o-Xylene	20.0	23.3	117	83-122	
Tetrahydrofuran	20.0	20.4	102	59-134	
Ethyl ether	20.0	21.2	106	74-119	
Tert-amyl methyl ether	20.0	20.4	102	70-122	
Ethyl tert-butyl ether	20.0	22.0	110	72-122	
di-Isopropyl ether	20.0	21.1	106	66-130	
tert-Butanol	200	207	103	60-146	
trans-1,4-Dichloro-2-butene	20.0	18.5	93	57-146	
Ethanol	400	427	107	53-150	

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 Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V5-082025-15.D

Lab ID: LCS 620-52457/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	20.6	103	72-120	
Acetone	20.0	19.1	96	19-144	
Acrylonitrile	20.0	15.8	79	67-141	
Benzene	20.0	17.8	89	82-120	
Bromobenzene	20.0	19.1	95	80-115	
Bromochloromethane	20.0	18.0	90	84-119	
Bromodichloromethane	20.0	16.6	83	77-118	
Bromoform	20.0	20.0	100	68-130	
Bromomethane	20.0	17.7	89	27-151	
2-Butanone (MEK)	20.0	14.7	73	32-126	
n-Butylbenzene	20.0	18.4	92	81-129	
sec-Butylbenzene	20.0	20.8	104	81-124	
tert-Butylbenzene	20.0	20.7	103	80-128	
Carbon disulfide	20.0	16.8	84	67-136	
Carbon tetrachloride	20.0	19.4	97	70-129	
Chlorobenzene	20.0	18.3	92	82-112	
Chloroethane	20.0	22.1	111	47-142	
Chloroform	20.0	18.3	91	77-126	
Chloromethane	20.0	14.6	73	26-159	
2-Chlorotoluene	20.0	19.8	99	82-122	
4-Chlorotoluene	20.0	19.1	95	79-123	
1,2-Dibromo-3-Chloropropane	20.0	17.9	89	64-117	
Dibromochloromethane	20.0	17.0	85	71-126	
1,2-Dibromoethane (EDB)	20.0	19.3	96	83-122	
Dibromomethane	20.0	18.1	91	83-117	
1,2-Dichlorobenzene	20.0	18.9	95	87-118	
1,3-Dichlorobenzene	20.0	19.2	96	83-122	
1,4-Dichlorobenzene	20.0	17.3	86	81-115	
Dichlorodifluoromethane (Freon 12)	20.0	18.0	90	21-147	
1,1-Dichloroethane	20.0	17.7	88	84-122	
1,2-Dichloroethane	20.0	16.1	80	69-121	
1,1-Dichloroethene	20.0	18.4	92	83-123	
cis-1,2-Dichloroethene	20.0	18.8	94	85-122	
trans-1,2-Dichloroethene	20.0	19.5	98	84-123	
1,2-Dichloropropane	20.0	17.7	89	80-124	
1,3-Dichloropropane	20.0	18.2	91	80-118	
2,2-Dichloropropane	20.0	20.8	104	74-125	
1,1-Dichloropropene	20.0	20.1	101	76-120	
cis-1,3-Dichloropropene	20.0	17.0	85	76-125	
trans-1,3-Dichloropropene	20.0	19.8	99	77-132	

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 Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V5-082025-15.D

Lab ID: LCS 620-52457/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethylbenzene	20.0	18.6	93	85-116	
Hexachlorobutadiene	20.0	22.2	111	70-127	
2-Hexanone (MBK)	20.0	16.6	83	40-130	
Isopropylbenzene	20.0	20.2	101	78-122	
4-Isopropyltoluene	20.0	17.9	89	80-121	
Methyl tert-butyl ether	20.0	21.6	108	72-126	
4-Methyl-2-pentanone (MIBK)	20.0	14.9	74	59-130	
Methylene Chloride	20.0	18.5	93	77-124	
Naphthalene	20.0	18.6	93	57-133	
N-Propylbenzene	20.0	19.7	99	86-124	
Styrene	20.0	18.0	90	80-121	
1,1,1,2-Tetrachloroethane	20.0	19.3	96	81-113	
1,1,2,2-Tetrachloroethane	20.0	17.2	86	74-115	
Tetrachloroethene	20.0	20.1	101	78-124	
Toluene	20.0	17.6	88	83-114	
1,2,3-Trichlorobenzene	20.0	20.6	103	73-128	
1,2,4-Trichlorobenzene	20.0	18.2	91	74-128	
1,3,5-Trichlorobenzene	20.0	20.9	104	81-124	
1,1,1-Trichloroethane	20.0	19.5	97	76-124	
1,1,2-Trichloroethane	20.0	18.3	92	83-120	
Trichloroethene	20.0	17.4	87	79-113	
Trichlorofluoromethane (Freon 11)	20.0	21.8	109	68-130	
1,2,3-Trichloropropane	20.0	18.2	91	74-116	
1,2,4-Trimethylbenzene	20.0	18.4	92	83-121	
1,3,5-Trimethylbenzene	20.0	19.7	98	82-125	
Vinyl chloride	20.0	17.8	89	49-145	
m,p-Xylene	40.0	39.8	99	82-128	
o-Xylene	20.0	19.4	97	83-122	
Tetrahydrofuran	20.0	14.8	74	59-134	
Ethyl ether	20.0	16.2	81	74-119	
Tert-amyl methyl ether	20.0	21.8	109	70-122	
Ethyl tert-butyl ether	20.0	18.4	92	72-122	
di-Isopropyl ether	20.0	15.1	75	66-130	
tert-Butanol	200	209	104	60-146	
trans-1,4-Dichloro-2-butene	20.0	15.1	76	57-146	
Ethanol	400	294	74	53-150	

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 Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V5-082125-15.D

Lab ID: LCS 620-52540/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	24.5	122	72-120	*
Acetone	20.0	17.7	88	19-144	
Acrylonitrile	20.0	17.8	89	67-141	
Benzene	20.0	20.1	101	82-120	
Bromobenzene	20.0	22.1	111	80-115	
Bromochloromethane	20.0	21.6	108	84-119	
Bromodichloromethane	20.0	19.9	100	77-118	
Bromoform	20.0	23.2	116	68-130	
Bromomethane	20.0	22.6	113	27-151	
2-Butanone (MEK)	20.0	14.9	75	32-126	
n-Butylbenzene	20.0	19.8	99	81-129	
sec-Butylbenzene	20.0	23.6	118	81-124	
tert-Butylbenzene	20.0	23.8	119	80-128	
Carbon disulfide	20.0	19.5	98	67-136	
Carbon tetrachloride	20.0	23.4	117	70-129	
Chlorobenzene	20.0	20.9	104	82-112	
Chloroethane	20.0	29.1	145	47-142	*
Chloroform	20.0	21.6	108	77-126	
Chloromethane	20.0	16.6	83	26-159	
2-Chlorotoluene	20.0	22.6	113	82-122	
4-Chlorotoluene	20.0	22.1	110	79-123	
1,2-Dibromo-3-Chloropropane	20.0	19.8	99	64-117	
Dibromochloromethane	20.0	20.4	102	71-126	
1,2-Dibromoethane (EDB)	20.0	22.4	112	83-122	
Dibromomethane	20.0	21.4	107	83-117	
1,2-Dichlorobenzene	20.0	21.1	106	87-118	
1,3-Dichlorobenzene	20.0	22.3	112	83-122	
1,4-Dichlorobenzene	20.0	19.2	96	81-115	
Dichlorodifluoromethane (Freon 12)	20.0	20.4	102	21-147	
1,1-Dichloroethane	20.0	20.7	103	84-122	
1,2-Dichloroethane	20.0	19.3	96	69-121	
1,1-Dichloroethene	20.0	21.6	108	83-123	
cis-1,2-Dichloroethene	20.0	22.0	110	85-122	
trans-1,2-Dichloroethene	20.0	22.1	110	84-123	
1,2-Dichloropropane	20.0	20.5	102	80-124	
1,3-Dichloropropane	20.0	21.3	106	80-118	
2,2-Dichloropropane	20.0	24.3	122	74-125	
1,1-Dichloropropene	20.0	22.9	114	76-120	
cis-1,3-Dichloropropene	20.0	19.5	98	76-125	
trans-1,3-Dichloropropene	20.0	23.2	116	77-132	

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 Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V5-082125-15.D

Lab ID: LCS 620-52540/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethylbenzene	20.0	20.9	104	85-116	
Hexachlorobutadiene	20.0	23.8	119	70-127	
2-Hexanone (MBK)	20.0	17.0	85	40-130	
Isopropylbenzene	20.0	22.5	112	78-122	
4-Isopropyltoluene	20.0	18.9	94	80-121	
Methyl tert-butyl ether	20.0	24.5	122	72-126	
4-Methyl-2-pentanone (MIBK)	20.0	15.5	78	59-130	
Methylene Chloride	20.0	22.0	110	77-124	
Naphthalene	20.0	18.2	91	57-133	
N-Propylbenzene	20.0	22.3	111	86-124	
Styrene	20.0	20.4	102	80-121	
1,1,1,2-Tetrachloroethane	20.0	22.3	111	81-113	
1,1,2,2-Tetrachloroethane	20.0	19.8	99	74-115	
Tetrachloroethene	20.0	22.8	114	78-124	
Toluene	20.0	20.2	101	83-114	
1,2,3-Trichlorobenzene	20.0	21.9	110	73-128	
1,2,4-Trichlorobenzene	20.0	20.3	102	74-128	
1,3,5-Trichlorobenzene	20.0	22.9	115	81-124	
1,1,1-Trichloroethane	20.0	23.3	117	76-124	
1,1,2-Trichloroethane	20.0	21.6	108	83-120	
Trichloroethene	20.0	19.8	99	79-113	
Trichlorofluoromethane (Freon 11)	20.0	26.3	132	68-130	*
1,2,3-Trichloropropane	20.0	20.5	103	74-116	
1,2,4-Trimethylbenzene	20.0	21.3	107	83-121	
1,3,5-Trimethylbenzene	20.0	22.5	112	82-125	
Vinyl chloride	20.0	20.5	102	49-145	
m,p-Xylene	40.0	45.5	114	82-128	
o-Xylene	20.0	21.8	109	83-122	
Tetrahydrofuran	20.0	15.6	78	59-134	
Ethyl ether	20.0	19.4	97	74-119	
Tert-amyl methyl ether	20.0	24.5	122	70-122	
Ethyl tert-butyl ether	20.0	20.7	104	72-122	
di-Isopropyl ether	20.0	17.0	85	66-130	
tert-Butanol	200	231	115	60-146	
trans-1,4-Dichloro-2-butene	20.0	19.5	97	57-146	
Ethanol	400	303	76	53-150	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081825-05.D

Lab ID: LCSD 620-52249/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	21.1	106	1	20	72-120	
Acetone	20.0	18.7	94	16	20	19-144	
Acrylonitrile	20.0	20.4	102	2	20	67-141	
Benzene	20.0	19.9	99	0	20	82-120	
Bromobenzene	20.0	21.9	109	0	20	80-115	
Bromochloromethane	20.0	21.8	109	1	20	84-119	
Bromodichloromethane	20.0	25.4	127	2	20	77-118	*
Bromoform	20.0	22.9	115	1	20	68-130	
Bromomethane	20.0	15.7	78	5	20	27-151	
2-Butanone (MEK)	20.0	19.9	99	8	20	32-126	
n-Butylbenzene	20.0	23.2	116	1	20	81-129	
sec-Butylbenzene	20.0	23.1	115	0	20	81-124	
tert-Butylbenzene	20.0	23.8	119	0	20	80-128	
Carbon disulfide	20.0	18.7	94	1	20	67-136	
Carbon tetrachloride	20.0	50.3	252	1	20	70-129	*
Chlorobenzene	20.0	20.8	104	0	20	82-112	
Chloroethane	20.0	20.3	102	2	20	47-142	
Chloroform	20.0	21.8	109	1	20	77-126	
Chloromethane	20.0	14.5	72	1	20	26-159	
2-Chlorotoluene	20.0	22.5	112	1	20	82-122	
4-Chlorotoluene	20.0	22.8	114	1	20	79-123	
1,2-Dibromo-3-Chloropropane	20.0	19.3	97	3	20	64-117	
Dibromochloromethane	20.0	21.5	107	1	20	71-126	
1,2-Dibromoethane (EDB)	20.0	22.3	112	0	20	83-122	
Dibromomethane	20.0	21.9	109	0	20	83-117	
1,2-Dichlorobenzene	20.0	21.1	105	2	20	87-118	
1,3-Dichlorobenzene	20.0	21.5	107	0	20	83-122	
1,4-Dichlorobenzene	20.0	19.9	100	1	20	81-115	
Dichlorodifluoromethane (Freon 12)	20.0	10.7	53	1	20	21-147	
1,1-Dichloroethane	20.0	20.5	103	1	20	84-122	
1,2-Dichloroethane	20.0	21.2	106	1	20	69-121	
1,1-Dichloroethene	20.0	20.4	102	2	20	83-123	
cis-1,2-Dichloroethene	20.0	21.4	107	1	20	85-122	
trans-1,2-Dichloroethene	20.0	20.8	104	3	20	84-123	
1,2-Dichloropropane	20.0	20.9	104	1	20	80-124	
1,3-Dichloropropane	20.0	21.6	108	1	20	80-118	
2,2-Dichloropropane	20.0	25.5	127	2	20	74-125	*
1,1-Dichloropropene	20.0	21.9	109	2	20	76-120	
cis-1,3-Dichloropropene	20.0	23.2	116	1	20	76-125	
trans-1,3-Dichloropropene	20.0	23.0	115	0	20	77-132	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081825-05.D

Lab ID: LCSD 620-52249/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Ethylbenzene	20.0	23.1	115	0	20	85-116	
Hexachlorobutadiene	20.0	20.2	101	2	20	70-127	
2-Hexanone (MBK)	20.0	18.1	90	13	20	40-130	
Isopropylbenzene	20.0	21.6	108	1	20	78-122	
4-Isopropyltoluene	20.0	23.1	115	1	20	80-121	
Methyl tert-butyl ether	20.0	22.0	110	3	20	72-126	
4-Methyl-2-pentanone (MIBK)	20.0	17.4	87	3	20	59-130	
Methylene Chloride	20.0	20.0	100	1	20	77-124	
Naphthalene	20.0	16.5	83	1	20	57-133	
N-Propylbenzene	20.0	21.3	107	1	20	86-124	
Styrene	20.0	23.9	120	1	20	80-121	
1,1,1,2-Tetrachloroethane	20.0	22.5	112	1	20	81-113	
1,1,2,2-Tetrachloroethane	20.0	20.7	104	2	20	74-115	
Tetrachloroethene	20.0	22.4	112	1	20	78-124	
Toluene	20.0	21.3	107	1	20	83-114	
1,2,3-Trichlorobenzene	20.0	19.5	97	2	20	73-128	
1,2,4-Trichlorobenzene	20.0	21.0	105	2	20	74-128	
1,3,5-Trichlorobenzene	20.0	20.8	104	1	20	81-124	
1,1,1-Trichloroethane	20.0	28.4	142	2	20	76-124	*
1,1,2-Trichloroethane	20.0	21.5	108	0	20	83-120	
Trichloroethene	20.0	22.0	110	4	20	79-113	
Trichlorofluoromethane (Freon 11)	20.0	21.0	105	12	20	68-130	
1,2,3-Trichloropropane	20.0	20.8	104	1	20	74-116	
1,2,4-Trimethylbenzene	20.0	23.7	119	0	20	83-121	
1,3,5-Trimethylbenzene	20.0	23.6	118	0	20	82-125	
Vinyl chloride	20.0	16.9	85	1	20	49-145	
m,p-Xylene	20.0	24.5	123	0	20	82-128	
o-Xylene	20.0	23.9	120	1	20	83-122	
Tetrahydrofuran	20.0	18.8	94	3	20	59-134	
Ethyl ether	20.0	19.6	98	2	20	74-119	
Tert-amyl methyl ether	20.0	20.5	102	1	20	70-122	
Ethyl tert-butyl ether	20.0	21.8	109	2	20	72-122	
di-Isopropyl ether	20.0	20.5	102	1	20	66-130	
tert-Butanol	200	184	92	12	20	60-146	
trans-1,4-Dichloro-2-butene	20.0	20.5	103	3	20	57-146	
Ethanol	400	428	107	8	20	53-150	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081925-04.D

Lab ID: LCSD 620-52339/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	22.0	110	1	20	72-120	
Acetone	20.0	14.9	75	6	20	19-144	
Acrylonitrile	20.0	21.1	106	1	20	67-141	
Benzene	20.0	20.7	104	1	20	82-120	
Bromobenzene	20.0	21.5	107	1	20	80-115	
Bromochloromethane	20.0	22.3	111	2	20	84-119	
Bromodichloromethane	20.0	24.1	121	3	20	77-118	*
Bromoform	20.0	22.0	110	2	20	68-130	
Bromomethane	20.0	18.8	94	10	20	27-151	
2-Butanone (MEK)	20.0	15.8	79	11	20	32-126	
n-Butylbenzene	20.0	21.9	110	3	20	81-129	
sec-Butylbenzene	20.0	22.1	110	1	20	81-124	
tert-Butylbenzene	20.0	22.9	114	0	20	80-128	
Carbon disulfide	20.0	21.3	106	2	20	67-136	
Carbon tetrachloride	20.0	50.7	253	2	20	70-129	*
Chlorobenzene	20.0	20.7	103	0	20	82-112	
Chloroethane	20.0	20.5	103	4	20	47-142	
Chloroform	20.0	21.4	107	1	20	77-126	
Chloromethane	20.0	15.2	76	3	20	26-159	
2-Chlorotoluene	20.0	22.1	111	0	20	82-122	
4-Chlorotoluene	20.0	21.8	109	1	20	79-123	
1,2-Dibromo-3-Chloropropane	20.0	18.1	90	1	20	64-117	
Dibromochloromethane	20.0	20.3	102	0	20	71-126	
1,2-Dibromoethane (EDB)	20.0	21.7	109	2	20	83-122	
Dibromomethane	20.0	21.6	108	1	20	83-117	
1,2-Dichlorobenzene	20.0	20.5	103	1	20	87-118	
1,3-Dichlorobenzene	20.0	21.1	105	1	20	83-122	
1,4-Dichlorobenzene	20.0	19.9	100	0	20	81-115	
Dichlorodifluoromethane (Freon 12)	20.0	20.8	104	3	20	21-147	
1,1-Dichloroethane	20.0	20.7	104	1	20	84-122	
1,2-Dichloroethane	20.0	20.4	102	0	20	69-121	
1,1-Dichloroethene	20.0	22.0	110	1	20	83-123	
cis-1,2-Dichloroethene	20.0	22.5	112	2	20	85-122	
trans-1,2-Dichloroethene	20.0	21.6	108	1	20	84-123	
1,2-Dichloropropane	20.0	20.9	104	2	20	80-124	
1,3-Dichloropropane	20.0	20.7	104	2	20	80-118	
2,2-Dichloropropane	20.0	24.5	123	2	20	74-125	
1,1-Dichloropropene	20.0	22.4	112	2	20	76-120	
cis-1,3-Dichloropropene	20.0	22.3	111	1	20	76-125	
trans-1,3-Dichloropropene	20.0	21.8	109	0	20	77-132	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V4-081925-04.D

Lab ID: LCSD 620-52339/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Ethylbenzene	20.0	22.8	114	1	20	85-116	
Hexachlorobutadiene	20.0	18.9	95	1	20	70-127	
2-Hexanone (MBK)	20.0	14.3	71	6	20	40-130	
Isopropylbenzene	20.0	20.8	104	1	20	78-122	
4-Isopropyltoluene	20.0	22.3	112	2	20	80-121	
Methyl tert-butyl ether	20.0	22.7	114	0	20	72-126	
4-Methyl-2-pentanone (MIBK)	20.0	15.3	76	5	20	59-130	
Methylene Chloride	20.0	21.3	106	1	20	77-124	
Naphthalene	20.0	16.0	80	5	20	57-133	
N-Propylbenzene	20.0	21.0	105	1	20	86-124	
Styrene	20.0	23.3	117	3	20	80-121	
1,1,1,2-Tetrachloroethane	20.0	21.7	108	0	20	81-113	
1,1,2,2-Tetrachloroethane	20.0	19.7	98	2	20	74-115	
Tetrachloroethene	20.0	22.2	111	2	20	78-124	
Toluene	20.0	21.3	107	2	20	83-114	
1,2,3-Trichlorobenzene	20.0	18.9	95	5	20	73-128	
1,2,4-Trichlorobenzene	20.0	20.6	103	5	20	74-128	
1,3,5-Trichlorobenzene	20.0	20.5	102	0	20	81-124	
1,1,1-Trichloroethane	20.0	26.4	132	1	20	76-124	*
1,1,2-Trichloroethane	20.0	20.8	104	1	20	83-120	
Trichloroethene	20.0	21.4	107	4	20	79-113	
Trichlorofluoromethane (Freon 11)	20.0	21.5	107	2	20	68-130	
1,2,3-Trichloropropane	20.0	19.7	98	0	20	74-116	
1,2,4-Trimethylbenzene	20.0	22.9	114	1	20	83-121	
1,3,5-Trimethylbenzene	20.0	23.1	116	0	20	82-125	
Vinyl chloride	20.0	19.7	98	2	20	49-145	
m,p-Xylene	20.0	23.5	118	2	20	82-128	
o-Xylene	20.0	23.0	115	1	20	83-122	
Tetrahydrofuran	20.0	20.1	100	1	20	59-134	
Ethyl ether	20.0	20.9	105	1	20	74-119	
Tert-amyl methyl ether	20.0	20.1	100	2	20	70-122	
Ethyl tert-butyl ether	20.0	22.0	110	0	20	72-122	
di-Isopropyl ether	20.0	21.3	106	1	20	66-130	
tert-Butanol	200	199	99	4	20	60-146	
trans-1,4-Dichloro-2-butene	20.0	18.4	92	1	20	57-146	
Ethanol	400	464	116	8	20	53-150	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V5-082025-16.D

Lab ID: LCSD 620-52457/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.7	94	10	20	72-120	
Acetone	20.0	15.7	79	19	20	19-144	
Acrylonitrile	20.0	16.1	80	2	20	67-141	
Benzene	20.0	16.6	83	7	20	82-120	
Bromobenzene	20.0	17.6	88	8	20	80-115	
Bromochloromethane	20.0	17.3	87	4	20	84-119	
Bromodichloromethane	20.0	15.7	78	6	20	77-118	
Bromoform	20.0	18.5	93	8	20	68-130	
Bromomethane	20.0	17.2	86	3	20	27-151	
2-Butanone (MEK)	20.0	13.2	66	11	20	32-126	
n-Butylbenzene	20.0	16.3	81	12	20	81-129	
sec-Butylbenzene	20.0	18.6	93	11	20	81-124	
tert-Butylbenzene	20.0	18.8	94	10	20	80-128	
Carbon disulfide	20.0	15.3	76	9	20	67-136	
Carbon tetrachloride	20.0	18.0	90	8	20	70-129	
Chlorobenzene	20.0	16.9	84	8	20	82-112	
Chloroethane	20.0	18.3	91	19	20	47-142	
Chloroform	20.0	16.9	85	8	20	77-126	
Chloromethane	20.0	13.4	67	9	20	26-159	
2-Chlorotoluene	20.0	18.1	90	9	20	82-122	
4-Chlorotoluene	20.0	17.6	88	8	20	79-123	
1,2-Dibromo-3-Chloropropane	20.0	17.2	86	4	20	64-117	
Dibromochloromethane	20.0	16.1	81	5	20	71-126	
1,2-Dibromoethane (EDB)	20.0	18.4	92	5	20	83-122	
Dibromomethane	20.0	17.4	87	4	20	83-117	
1,2-Dichlorobenzene	20.0	17.2	86	9	20	87-118	*
1,3-Dichlorobenzene	20.0	17.8	89	8	20	83-122	
1,4-Dichlorobenzene	20.0	15.7	79	9	20	81-115	*
Dichlorodifluoromethane (Freon 12)	20.0	15.9	80	13	20	21-147	
1,1-Dichloroethane	20.0	16.6	83	6	20	84-122	*
1,2-Dichloroethane	20.0	15.0	75	7	20	69-121	
1,1-Dichloroethene	20.0	16.8	84	9	20	83-123	
cis-1,2-Dichloroethene	20.0	17.7	88	6	20	85-122	
trans-1,2-Dichloroethene	20.0	17.8	89	9	20	84-123	
1,2-Dichloropropane	20.0	16.9	84	5	20	80-124	
1,3-Dichloropropane	20.0	17.2	86	6	20	80-118	
2,2-Dichloropropane	20.0	19.0	95	9	20	74-125	
1,1-Dichloropropene	20.0	18.1	90	11	20	76-120	
cis-1,3-Dichloropropene	20.0	16.3	81	5	20	76-125	
trans-1,3-Dichloropropene	20.0	18.5	92	7	20	77-132	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V5-082025-16.D

Lab ID: LCSD 620-52457/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Ethylbenzene	20.0	16.9	85	9	20	85-116	
Hexachlorobutadiene	20.0	19.1	96	15	20	70-127	
2-Hexanone (MBK)	20.0	15.5	77	7	20	40-130	
Isopropylbenzene	20.0	18.1	91	11	20	78-122	
4-Isopropyltoluene	20.0	15.9	80	11	20	80-121	
Methyl tert-butyl ether	20.0	20.5	102	6	20	72-126	
4-Methyl-2-pentanone (MIBK)	20.0	14.2	71	4	20	59-130	
Methylene Chloride	20.0	17.6	88	5	20	77-124	
Naphthalene	20.0	17.0	85	9	20	57-133	
N-Propylbenzene	20.0	17.9	89	10	20	86-124	
Styrene	20.0	16.6	83	8	20	80-121	
1,1,1,2-Tetrachloroethane	20.0	17.7	88	9	20	81-113	
1,1,2,2-Tetrachloroethane	20.0	16.4	82	5	20	74-115	
Tetrachloroethene	20.0	18.2	91	10	20	78-124	
Toluene	20.0	16.4	82	8	20	83-114	*
1,2,3-Trichlorobenzene	20.0	18.7	94	9	20	73-128	
1,2,4-Trichlorobenzene	20.0	16.6	83	9	20	74-128	
1,3,5-Trichlorobenzene	20.0	19.0	95	9	20	81-124	
1,1,1-Trichloroethane	20.0	18.1	91	7	20	76-124	
1,1,2-Trichloroethane	20.0	17.5	87	5	20	83-120	
Trichloroethene	20.0	16.2	81	7	20	79-113	
Trichlorofluoromethane (Freon 11)	20.0	19.6	98	11	20	68-130	
1,2,3-Trichloropropane	20.0	17.1	86	6	20	74-116	
1,2,4-Trimethylbenzene	20.0	16.7	83	10	20	83-121	
1,3,5-Trimethylbenzene	20.0	17.7	89	10	20	82-125	
Vinyl chloride	20.0	16.2	81	9	20	49-145	
m,p-Xylene	40.0	36.6	92	8	20	82-128	
o-Xylene	20.0	17.9	89	8	20	83-122	
Tetrahydrofuran	20.0	14.6	73	1	20	59-134	
Ethyl ether	20.0	15.9	80	2	20	74-119	
Tert-amyl methyl ether	20.0	20.8	104	5	20	70-122	
Ethyl tert-butyl ether	20.0	17.4	87	6	20	72-122	
di-Isopropyl ether	20.0	14.3	71	6	20	66-130	
tert-Butanol	200	209	105	0	20	60-146	
trans-1,4-Dichloro-2-butene	20.0	14.3	72	5	20	57-146	
Ethanol	400	269	67	9	20	53-150	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V5-082125-16.D

Lab ID: LCSD 620-52540/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	20.8	104	16	20	72-120	
Acetone	20.0	18.4	92	4	20	19-144	
Acrylonitrile	20.0	16.1	80	10	20	67-141	
Benzene	20.0	17.9	89	12	20	82-120	
Bromobenzene	20.0	19.3	97	14	20	80-115	
Bromochloromethane	20.0	18.8	94	14	20	84-119	
Bromodichloromethane	20.0	17.4	87	13	20	77-118	
Bromoform	20.0	20.9	105	10	20	68-130	
Bromomethane	20.0	20.3	102	11	20	27-151	
2-Butanone (MEK)	20.0	14.5	73	3	20	32-126	
n-Butylbenzene	20.0	17.6	88	12	20	81-129	
sec-Butylbenzene	20.0	20.5	102	14	20	81-124	
tert-Butylbenzene	20.0	20.9	105	13	20	80-128	
Carbon disulfide	20.0	16.8	84	15	20	67-136	
Carbon tetrachloride	20.0	20.5	102	13	20	70-129	
Chlorobenzene	20.0	18.8	94	11	20	82-112	
Chloroethane	20.0	23.5	117	21	20	47-142	*
Chloroform	20.0	19.1	96	12	20	77-126	
Chloromethane	20.0	14.6	73	13	20	26-159	
2-Chlorotoluene	20.0	20.3	101	11	20	82-122	
4-Chlorotoluene	20.0	19.7	99	11	20	79-123	
1,2-Dibromo-3-Chloropropane	20.0	18.4	92	8	20	64-117	
Dibromochloromethane	20.0	17.9	89	13	20	71-126	
1,2-Dibromoethane (EDB)	20.0	19.9	99	12	20	83-122	
Dibromomethane	20.0	19.3	96	10	20	83-117	
1,2-Dichlorobenzene	20.0	18.8	94	12	20	87-118	
1,3-Dichlorobenzene	20.0	20.1	100	10	20	83-122	
1,4-Dichlorobenzene	20.0	17.4	87	10	20	81-115	
Dichlorodifluoromethane (Freon 12)	20.0	17.2	86	17	20	21-147	
1,1-Dichloroethane	20.0	18.2	91	13	20	84-122	
1,2-Dichloroethane	20.0	17.1	85	12	20	69-121	
1,1-Dichloroethene	20.0	18.6	93	15	20	83-123	
cis-1,2-Dichloroethene	20.0	19.2	96	14	20	85-122	
trans-1,2-Dichloroethene	20.0	19.1	96	14	20	84-123	
1,2-Dichloropropane	20.0	18.1	90	13	20	80-124	
1,3-Dichloropropane	20.0	18.8	94	12	20	80-118	
2,2-Dichloropropane	20.0	21.4	107	13	20	74-125	
1,1-Dichloropropene	20.0	19.9	100	14	20	76-120	
cis-1,3-Dichloropropene	20.0	17.3	86	12	20	76-125	
trans-1,3-Dichloropropene	20.0	20.4	102	13	20	77-132	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V5-082125-16.D

Lab ID: LCSD 620-52540/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Ethylbenzene	20.0	18.7	93	11	20	85-116	
Hexachlorobutadiene	20.0	20.6	103	14	20	70-127	
2-Hexanone (MBK)	20.0	15.6	78	8	20	40-130	
Isopropylbenzene	20.0	19.9	99	12	20	78-122	
4-Isopropyltoluene	20.0	17.2	86	9	20	80-121	
Methyl tert-butyl ether	20.0	21.6	108	12	20	72-126	
4-Methyl-2-pentanone (MIBK)	20.0	14.7	73	6	20	59-130	
Methylene Chloride	20.0	19.4	97	13	20	77-124	
Naphthalene	20.0	16.5	83	10	20	57-133	
N-Propylbenzene	20.0	19.9	99	11	20	86-124	
Styrene	20.0	18.2	91	11	20	80-121	
1,1,1,2-Tetrachloroethane	20.0	20.2	101	10	20	81-113	
1,1,2,2-Tetrachloroethane	20.0	18.0	90	10	20	74-115	
Tetrachloroethene	20.0	20.1	100	13	20	78-124	
Toluene	20.0	18.1	91	11	20	83-114	
1,2,3-Trichlorobenzene	20.0	19.1	95	14	20	73-128	
1,2,4-Trichlorobenzene	20.0	17.9	90	13	20	74-128	
1,3,5-Trichlorobenzene	20.0	20.4	102	11	20	81-124	
1,1,1-Trichloroethane	20.0	20.5	103	13	20	76-124	
1,1,2-Trichloroethane	20.0	19.2	96	12	20	83-120	
Trichloroethene	20.0	17.4	87	13	20	79-113	
Trichlorofluoromethane (Freon 11)	20.0	22.8	114	14	20	68-130	
1,2,3-Trichloropropane	20.0	18.7	93	10	20	74-116	
1,2,4-Trimethylbenzene	20.0	18.9	94	12	20	83-121	
1,3,5-Trimethylbenzene	20.0	19.7	99	13	20	82-125	
Vinyl chloride	20.0	17.4	87	16	20	49-145	
m,p-Xylene	40.0	40.6	102	11	20	82-128	
o-Xylene	20.0	19.5	98	11	20	83-122	
Tetrahydrofuran	20.0	14.9	75	5	20	59-134	
Ethyl ether	20.0	16.9	84	14	20	74-119	
Tert-amyl methyl ether	20.0	21.8	109	12	20	70-122	
Ethyl tert-butyl ether	20.0	18.3	91	12	20	72-122	
di-Isopropyl ether	20.0	15.2	76	12	20	66-130	
tert-Butanol	200	210	105	9	20	60-146	
trans-1,4-Dichloro-2-butene	20.0	17.4	87	11	20	57-146	
Ethanol	400	301	75	1	20	53-150	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab File ID: V4-081825-07.D Lab Sample ID: MB 620-52249/7

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

Instrument ID: HPV4 Date Analyzed: 08/18/2025 12:02

GC Column: DB-VRX ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 620-52249/4	V4-081825-04.D	08/18/2025 10:54
	LCSD 620-52249/5	V4-081825-05.D	08/18/2025 11:17
TB/250813	620-28577-8	V4-081825-08.D	08/18/2025 12:25
MW-17/250811	620-28577-1	V4-081825-15.D	08/18/2025 15:06
MW-18/250813	620-28577-3	V4-081825-17.D	08/18/2025 15:52
MW-103I/250813	620-28577-4	V4-081825-18.D	08/18/2025 16:15
MW-102B/250813	620-28577-5	V4-081825-19.D	08/18/2025 16:37
FB/250813	620-28577-7	V4-081825-21.D	08/18/2025 17:23

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab File ID: V4-081925-07.D Lab Sample ID: MB 620-52339/7

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

Instrument ID: HPV4 Date Analyzed: 08/19/2025 14:16

GC Column: DB-VRX ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 620-52339/4	V4-081925-03.D	08/19/2025 12:44
	LCSD 620-52339/5	V4-081925-04.D	08/19/2025 13:07
MW-103I/250813 DL	620-28577-4 DL	V4-081925-13.D	08/19/2025 16:45
MW-102B/250813 DL	620-28577-5 DL	V4-081925-14.D	08/19/2025 17:08
MW-102IR/250813 DL	620-28577-6 DL	V4-081925-15.D	08/19/2025 17:31

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab File ID: V5-082025-18.D Lab Sample ID: MB 620-52457/7

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

Instrument ID: HPV5 Date Analyzed: 08/20/2025 21:43

GC Column: RTX-VMS ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 620-52457/4	V5-082025-15.D	08/20/2025 20:21
	LCSD 620-52457/5	V5-082025-16.D	08/20/2025 20:48
MW-19/250813	620-28577-2	V5-082025-26.D	08/21/2025 01:15
MW-102IR/250813	620-28577-6	V5-082025-27.D	08/21/2025 01:42

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab File ID: V5-082125-18.D Lab Sample ID: MB 620-52540/7

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

Instrument ID: HPV5 Date Analyzed: 08/21/2025 20:10

GC Column: RTX-VMS ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 620-52540/4	V5-082125-15.D	08/21/2025 18:51
	LCSD 620-52540/5	V5-082125-16.D	08/21/2025 19:17
MW-17/250811 DL	620-28577-1 DL	V5-082125-23.D	08/21/2025 22:23
MW-18/250813 DL	620-28577-3 DL	V5-082125-24.D	08/21/2025 22:50

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

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab File ID: V4-080725-02.D BFB Injection Date: 08/07/2025

Instrument ID: HPV4 BFB Injection Time: 08:22

Analysis Batch No.: 51723

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.6	
75	30.0 - 60.0 % of mass 95	53.8	
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	(0.6) 1
174	Greater than 50% of mass 95	79.7	
175	5.0 - 9.0 % of mass 174	6.0	(7.5) 1
176	95.0 - 101.0 % of mass 174	80.1	(100.6) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.6) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 620-51723/3	V4-080725-03.	08/07/2025	8:50
	IC 620-51723/4	V4-080725-04.	08/07/2025	9:12
	IC 620-51723/5	V4-080725-05.	08/07/2025	9:35
	IC 620-51723/6	V4-080725-06.	08/07/2025	9:58
	IC 620-51723/7	V4-080725-07.	08/07/2025	10:21
	ICIS 620-51723/8	V4-080725-08.	08/07/2025	10:44
	IC 620-51723/9	V4-080725-09.	08/07/2025	11:07
	IC 620-51723/10	V4-080725-10.	08/07/2025	11:30
	IC 620-51723/11	V4-080725-11.	08/07/2025	11:53
	ICV 620-51723/16	V4-080725-16.	08/07/2025	15:14

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

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab File ID: V4-081825-02.D BFB Injection Date: 08/18/2025

Instrument ID: HPV4 BFB Injection Time: 10:08

Analysis Batch No.: 52249

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.8	
75	30.0 - 60.0 % of mass 95	54.8	
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	0.5	(0.7) 1
174	Greater than 50% of mass 95	81.5	
175	5.0 - 9.0 % of mass 174	5.9	(7.3) 1
176	95.0 - 101.0 % of mass 174	81.2	(99.7) 1
177	5.0 - 9.0 % of mass 176	5.4	(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 620-52249/3	V4-081825-03.	08/18/2025	10:31
	LCS 620-52249/4	V4-081825-04.	08/18/2025	10:54
	LCSD 620-52249/5	V4-081825-05.	08/18/2025	11:17
	MB 620-52249/7	V4-081825-07.	08/18/2025	12:02
TB/250813	620-28577-8	V4-081825-08.	08/18/2025	12:25
MW-17/250811	620-28577-1	V4-081825-15.	08/18/2025	15:06
MW-18/250813	620-28577-3	V4-081825-17.	08/18/2025	15:52
MW-103I/250813	620-28577-4	V4-081825-18.	08/18/2025	16:15
MW-102B/250813	620-28577-5	V4-081825-19.	08/18/2025	16:37
FB/250813	620-28577-7	V4-081825-21.	08/18/2025	17:23

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

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab File ID: V4-081925-01.D BFB Injection Date: 08/19/2025

Instrument ID: HPV4 BFB Injection Time: 11:59

Analysis Batch No.: 52339

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.4	
75	30.0 - 60.0 % of mass 95	53.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.6	(0.7) 1
174	Greater than 50% of mass 95	83.6	
175	5.0 - 9.0 % of mass 174	6.3	(7.5) 1
176	95.0 - 101.0 % of mass 174	83.8	(100.2) 1
177	5.0 - 9.0 % of mass 176	5.6	(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 620-52339/3	V4-081925-02.	08/19/2025	12:21
	LCS 620-52339/4	V4-081925-03.	08/19/2025	12:44
	LCSD 620-52339/5	V4-081925-04.	08/19/2025	13:07
	MB 620-52339/7	V4-081925-07.	08/19/2025	14:16
MW-103I/250813 DL	620-28577-4 DL	V4-081925-13.	08/19/2025	16:45
MW-102B/250813 DL	620-28577-5 DL	V4-081925-14.	08/19/2025	17:08
MW-102IR/250813 DL	620-28577-6 DL	V4-081925-15.	08/19/2025	17:31

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

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab File ID: V5-072425-02.D BFB Injection Date: 07/24/2025

Instrument ID: HPV5 BFB Injection Time: 09:52

Analysis Batch No.: 51000

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.9	
75	30.0 - 60.0 % of mass 95	48.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	93.8	
175	5.0 - 9.0 % of mass 174	6.7	(7.2) 1
176	95.0 - 101.0 % of mass 174	91.7	(97.8) 1
177	5.0 - 9.0 % of mass 176	5.9	(6.5) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 620-51000/3	V5-072425-03.	07/24/2025	10:25
	IC 620-51000/4	V5-072425-04.	07/24/2025	10:50
	IC 620-51000/5	V5-072425-05.	07/24/2025	11:16
	IC 620-51000/6	V5-072425-06.	07/24/2025	11:42
	IC 620-51000/7	V5-072425-07.	07/24/2025	12:08
	ICIS 620-51000/8	V5-072425-08.	07/24/2025	12:34
	IC 620-51000/9	V5-072425-09.	07/24/2025	13:01
	IC 620-51000/10	V5-072425-10.	07/24/2025	13:26
	IC 620-51000/11	V5-072425-11.	07/24/2025	13:52
	ICV 620-51000/14	V5-072425-14.	07/24/2025	15:28

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

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab File ID: V5-082025-13.D BFB Injection Date: 08/20/2025

Instrument ID: HPV5 BFB Injection Time: 19:28

Analysis Batch No.: 52457

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.2	
75	30.0 - 60.0 % of mass 95	47.0	
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	0.0	(0.0) 1
174	Greater than 50% of mass 95	97.8	
175	5.0 - 9.0 % of mass 174	7.2	(7.4) 1
176	95.0 - 101.0 % of mass 174	97.9	(100.0) 1
177	5.0 - 9.0 % of mass 176	6.3	(6.4) 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 620-52457/3	V5-082025-14.	08/20/2025	19:54
	LCS 620-52457/4	V5-082025-15.	08/20/2025	20:21
	LCSD 620-52457/5	V5-082025-16.	08/20/2025	20:48
	MB 620-52457/7	V5-082025-18.	08/20/2025	21:43
MW-19/250813	620-28577-2	V5-082025-26.	08/21/2025	1:15
MW-102IR/250813	620-28577-6	V5-082025-27.	08/21/2025	1:42

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

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab File ID: V5-082125-13.D BFB Injection Date: 08/21/2025

Instrument ID: HPV5 BFB Injection Time: 17:58

Analysis Batch No.: 52540

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.9	
75	30.0 - 60.0 % of mass 95	49.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	97.9	
175	5.0 - 9.0 % of mass 174	7.2	(7.4) 1
176	95.0 - 101.0 % of mass 174	97.2	(99.4) 1
177	5.0 - 9.0 % of mass 176	6.5	(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 620-52540/3	V5-082125-14.	08/21/2025	18:25
	LCS 620-52540/4	V5-082125-15.	08/21/2025	18:51
	LCSD 620-52540/5	V5-082125-16.	08/21/2025	19:17
	MB 620-52540/7	V5-082125-18.	08/21/2025	20:10
MW-17/250811 DL	620-28577-1 DL	V5-082125-23.	08/21/2025	22:23
MW-18/250813 DL	620-28577-3 DL	V5-082125-24.	08/21/2025	22:50

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

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Sample No.: ICIS 620-51723/8 Date Analyzed: 08/07/2025 10:44

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm)

Lab File ID (Standard): V4-080725-08.D Heated Purge: (Y/N) N

Calibration ID: 10515

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		346631	4.64	249731	9.04	147217	11.55
UPPER LIMIT		693262	5.14	499462	9.54	294434	12.05
LOWER LIMIT		173316	4.14	124866	8.54	73609	11.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 620-51723/16		365585	4.64	267914	9.04	152256	11.55

FB = Fluorobenzene
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 Rhode Island Job No.: 620-28577-1

SDG No.:

Sample No.: CCVIS 620-52249/3 Date Analyzed: 08/18/2025 10:31

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm)

Lab File ID (Standard): V4-081825-03.D Heated Purge: (Y/N) N

Calibration ID: 10515

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		285402	4.65	211041	9.04	128080	11.55
UPPER LIMIT		570804	5.15	422082	9.54	256160	12.05
LOWER LIMIT		142701	4.15	105521	8.54	64040	11.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 620-52249/4		294691	4.65	217654	9.04	127975	11.55
LCSD 620-52249/5		290157	4.65	214551	9.04	126946	11.55
MB 620-52249/7		272172	4.65	190791	9.04	109312	11.55
620-28577-8	TB/250813	259388	4.65	184913	9.04	105248	11.55
620-28577-1	MW-17/250811	252254	4.65	178419	9.04	103917	11.55
620-28577-3	MW-18/250813	255549	4.65	177418	9.04	98498	11.55
620-28577-4	MW-103I/250813	246415	4.65	175207	9.04	101986	11.55
620-28577-5	MW-102B/250813	261969	4.65	183695	9.04	104863	11.55
620-28577-7	FB/250813	251223	4.65	177606	9.04	103288	11.55

FB = Fluorobenzene
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 Rhode Island Job No.: 620-28577-1

SDG No.:

Sample No.: CCVIS 620-52339/3 Date Analyzed: 08/19/2025 12:21

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm)

Lab File ID (Standard): V4-081925-02.D Heated Purge: (Y/N) N

Calibration ID: 10515

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		304546	4.65	221149	9.04	132223	11.55
UPPER LIMIT		609092	5.15	442298	9.54	264446	12.05
LOWER LIMIT		152273	4.15	110575	8.54	66112	11.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 620-52339/4		319449	4.65	234741	9.04	136580	11.55
LCSD 620-52339/5		315734	4.65	229821	9.04	135687	11.55
MB 620-52339/7		291923	4.64	197754	9.04	114455	11.55
620-28577-4 DL	MW-103I/250813 DL	257840	4.65	180520	9.04	105044	11.55
620-28577-5 DL	MW-102B/250813 DL	257551	4.65	181277	9.04	103545	11.55
620-28577-6 DL	MW-102IR/250813 DL	263174	4.65	186208	9.04	109198	11.55

FB = Fluorobenzene
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 Rhode Island Job No.: 620-28577-1

SDG No.:

Sample No.: ICIS 620-51000/8 Date Analyzed: 07/24/2025 12:34

Instrument ID: HPV5 GC Column: RTX-VMS ID: 0.25(mm)

Lab File ID (Standard): V5-072425-08.D Heated Purge: (Y/N) N

Calibration ID: 10429

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		955195	6.75	733026	10.02	368930	12.34
UPPER LIMIT		1910390	7.25	1466052	10.52	737860	12.84
LOWER LIMIT		477598	6.25	366513	9.52	184465	11.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 620-51000/14		1109321	6.75	854981	10.02	432767	12.34

FB = Fluorobenzene
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 Rhode Island Job No.: 620-28577-1

SDG No.:

Sample No.: CCVIS 620-52457/3 Date Analyzed: 08/20/2025 19:54

Instrument ID: HPV5 GC Column: RTX-VMS ID: 0.25(mm)

Lab File ID (Standard): V5-082025-14.D Heated Purge: (Y/N) N

Calibration ID: 10429

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		742166	6.74	569614	10.01	285389	12.34
UPPER LIMIT		1484332	7.24	1139228	10.51	570778	12.84
LOWER LIMIT		371083	6.24	284807	9.51	142695	11.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 620-52457/4		724536	6.75	553710	10.02	279473	12.34
LCSD 620-52457/5		734773	6.74	569436	10.01	291291	12.34
MB 620-52457/7		704285	6.74	545097	10.02	263369	12.34
620-28577-2	MW-19/250813	553391	6.74	423296	10.02	202485	12.34
620-28577-6	MW-102IR/250813	546219	6.75	415714	10.01	203423	12.34

FB = Fluorobenzene
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 Rhode Island Job No.: 620-28577-1

SDG No.:

Sample No.: CCVIS 620-52540/3 Date Analyzed: 08/21/2025 18:25

Instrument ID: HPV5 GC Column: RTX-VMS ID: 0.25(mm)

Lab File ID (Standard): V5-082125-14.D Heated Purge: (Y/N) N

Calibration ID: 10429

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		644905	6.74	498963	10.01	257631	12.34
UPPER LIMIT		1289810	7.24	997926	10.51	515262	12.84
LOWER LIMIT		322453	6.24	249482	9.51	128816	11.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 620-52540/4		625829	6.75	488363	10.01	259639	12.34
LCSD 620-52540/5		641782	6.75	495385	10.01	260845	12.34
MB 620-52540/7		600997	6.75	465667	10.01	223930	12.34
620-28577-1 DL	MW-17/250811 DL	495562	6.75	377408	10.01	182929	12.34
620-28577-3 DL	MW-18/250813 DL	490829	6.74	379410	10.02	180495	12.34

FB = Fluorobenzene
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 Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-17/250811 | Lab Sample ID: 620-28577-1

Matrix: Water | Lab File ID: V4-081825-15.D

Analysis Method: 8260C | Date Collected: 08/11/2025 15:50

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 15:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	4.5	J	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U *	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	2.2		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-17/250811 | Lab Sample ID: 620-28577-1

Matrix: Water | Lab File ID: V4-081825-15.D

Analysis Method: 8260C | Date Collected: 08/11/2025 15:50

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 15:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	97		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	3.3		1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U *	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	0.94	J *	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	*Trichloroethene*	*340*	*E*	*1.0*	*0.36*
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-17/250811 | Lab Sample ID: 620-28577-1

Matrix: Water | Lab File ID: V4-081825-15.D

Analysis Method: 8260C | Date Collected: 08/11/2025 15:50

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 15:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	10		1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		70-130
1868-53-7	Dibromofluoromethane (Surr)	112		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-17/250811 DL | Lab Sample ID: 620-28577-1 DL

Matrix: Water | Lab File ID: V5-082125-23.D

Analysis Method: 8260C | Date Collected: 08/11/2025 15:50

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 22:23

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52540 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	10	U *	10	2.0
67-64-1	Acetone	100	U	100	9.0
107-13-1	Acrylonitrile	10	U	10	3.6
71-43-2	Benzene	10	U	10	2.5
108-86-1	Bromobenzene	10	U	10	4.0
74-97-5	Bromochloromethane	10	U	10	3.9
75-27-4	Bromodichloromethane	5.0	U	5.0	3.3
75-25-2	Bromoform	10	U	10	4.5
74-83-9	Bromomethane	20	U	20	6.3
78-93-3	2-Butanone (MEK)	20	U	20	5.8
104-51-8	n-Butylbenzene	10	U	10	4.5
135-98-8	sec-Butylbenzene	10	U	10	4.0
98-06-6	tert-Butylbenzene	10	U	10	4.0
75-15-0	Carbon disulfide	20	U	20	4.4
56-23-5	Carbon tetrachloride	10	U	10	2.5
108-90-7	Chlorobenzene	10	U	10	4.2
75-00-3	Chloroethane	20	U *	20	4.1
67-66-3	Chloroform	10	U	10	3.0
74-87-3	Chloromethane	20	U	20	4.9
95-49-8	2-Chlorotoluene	10	U	10	4.3
106-43-4	4-Chlorotoluene	10	U	10	4.2
96-12-8	1,2-Dibromo-3-Chloropropane	20	U	20	5.1
124-48-1	Dibromochloromethane	5.0	U	5.0	3.3
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	5.0	3.4
74-95-3	Dibromomethane	10	U	10	3.6
95-50-1	1,2-Dichlorobenzene	10	U	10	4.8
541-73-1	1,3-Dichlorobenzene	10	U	10	5.0
106-46-7	1,4-Dichlorobenzene	10	U	10	4.9
75-71-8	Dichlorodifluoromethane (Freon 12)	20	U	20	2.9
75-34-3	1,1-Dichloroethane	10	U	10	3.6
107-06-2	1,2-Dichloroethane	10	U	10	2.6
75-35-4	1,1-Dichloroethene	10	U	10	3.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-17/250811 DL | Lab Sample ID: 620-28577-1 DL

Matrix: Water | Lab File ID: V5-082125-23.D

Analysis Method: 8260C | Date Collected: 08/11/2025 15:50

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 22:23

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52540 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	60		10	3.0
156-60-5	trans-1,2-Dichloroethene	10	U	10	1.9
78-87-5	1,2-Dichloropropane	10	U	10	3.6
142-28-9	1,3-Dichloropropane	10	U	10	3.2
594-20-7	2,2-Dichloropropane	10	U	10	4.9
563-58-6	1,1-Dichloropropene	10	U	10	2.9
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	3.0
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	3.7
100-41-4	Ethylbenzene	10	U	10	3.6
87-68-3	Hexachlorobutadiene	10	U	10	2.4
591-78-6	2-Hexanone (MBK)	20	U	20	6.9
98-82-8	Isopropylbenzene	10	U	10	3.8
99-87-6	4-Isopropyltoluene	10	U	10	4.3
1634-04-4	Methyl tert-butyl ether	10	U	10	2.6
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U	20	3.5
75-09-2	Methylene Chloride	20	U	20	5.4
91-20-3	Naphthalene	20	U	20	7.0
103-65-1	N-Propylbenzene	10	U	10	3.6
100-42-5	Styrene	10	U	10	4.2
630-20-6	1,1,1,2-Tetrachloroethane	10	U	10	3.7
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	4.6
127-18-4	Tetrachloroethene	10	U	10	3.6
108-88-3	Toluene	10	U	10	2.8
87-61-6	1,2,3-Trichlorobenzene	10	U	10	7.4
120-82-1	1,2,4-Trichlorobenzene	10	U	10	7.0
108-70-3	1,3,5-Trichlorobenzene	10	U	10	5.4
71-55-6	1,1,1-Trichloroethane	10	U	10	3.3
79-00-5	1,1,2-Trichloroethane	10	U	10	3.5
79-01-6	Trichloroethene	220		10	3.6
75-69-4	Trichlorofluoromethane (Freon 11)	10	U *	10	2.3
96-18-4	1,2,3-Trichloropropane	10	U	10	5.1
95-63-6	1,2,4-Trimethylbenzene	10	U	10	4.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-17/250811 DL | Lab Sample ID: 620-28577-1 DL

Matrix: Water | Lab File ID: V5-082125-23.D

Analysis Method: 8260C | Date Collected: 08/11/2025 15:50

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 22:23

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52540 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	*1,3,5-Trimethylbenzene*	*10*	*U*	*10*	*4.5*
75-01-4	*Vinyl chloride*	*6.7*	*J*	*10*	*2.6*
179601-23-1	*m,p-Xylene*	*10*	*U*	*10*	*7.8*
95-47-6	*o-Xylene*	*10*	*U*	*10*	*4.3*
109-99-9	*Tetrahydrofuran*	*20*	*U*	*20*	*7.0*
60-29-7	*Ethyl ether*	*10*	*U*	*10*	*4.2*
994-05-8	*Tert-amyl methyl ether*	*10*	*U*	*10*	*2.6*
637-92-3	*Ethyl tert-butyl ether*	*10*	*U*	*10*	*2.9*
108-20-3	*di-Isopropyl ether*	*10*	*U*	*10*	*2.6*
75-65-0	*tert-Butanol*	*100*	*U*	*100*	*85*
110-57-6	*trans-1,4-Dichloro-2-butene*	*50*	*U*	*50*	*8.1*
64-17-5	*Ethanol*	*2000*	*U*	*2000*	*91*

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-19/250813 | Lab Sample ID: 620-28577-2

Matrix: Water | Lab File ID: V5-082025-26.D

Analysis Method: 8260C | Date Collected: 08/13/2025 10:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 01:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52457 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	10	U	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U *	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U *	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	5.3	*	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.54	J	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-19/250813 | Lab Sample ID: 620-28577-2

Matrix: Water | Lab File ID: V5-082025-26.D

Analysis Method: 8260C | Date Collected: 08/13/2025 10:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 01:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52457 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	80		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	0.43	J	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	5.2		1.0	0.36
108-88-3	Toluene	1.0	U *	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	41		1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	80		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-19/250813 | Lab Sample ID: 620-28577-2

Matrix: Water | Lab File ID: V5-082025-26.D

Analysis Method: 8260C | Date Collected: 08/13/2025 10:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 01:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52457 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	0.39	J	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-18/250813 | Lab Sample ID: 620-28577-3

Matrix: Water | Lab File ID: V4-081825-17.D

Analysis Method: 8260C | Date Collected: 08/13/2025 11:40

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 15:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	4.7	J	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U *	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	13		1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	23		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-18/250813 | Lab Sample ID: 620-28577-3

Matrix: Water | Lab File ID: V4-081825-17.D

Analysis Method: 8260C | Date Collected: 08/13/2025 11:40

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 15:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	95		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0		1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U *	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	45		1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	*1,1,1-Trichloroethane*	*520*	** E*	*1.0*	*0.33*
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	*Trichloroethene*	*2500*	*E*	*1.0*	*0.36*
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-18/250813 | Lab Sample ID: 620-28577-3

Matrix: Water | Lab File ID: V4-081825-17.D

Analysis Method: 8260C | Date Collected: 08/13/2025 11:40

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 15:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		70-130
1868-53-7	Dibromofluoromethane (Surr)	111		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-18/250813 DL | Lab Sample ID: 620-28577-3 DL

Matrix: Water | Lab File ID: V5-082125-24.D

Analysis Method: 8260C | Date Collected: 08/13/2025 11:40

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 22:50

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52540 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	50	U *	50	10
67-64-1	Acetone	500	U	500	45
107-13-1	Acrylonitrile	50	U	50	18
71-43-2	Benzene	50	U	50	13
108-86-1	Bromobenzene	50	U	50	20
74-97-5	Bromochloromethane	50	U	50	20
75-27-4	Bromodichloromethane	25	U	25	17
75-25-2	Bromoform	50	U	50	23
74-83-9	Bromomethane	100	U	100	31
78-93-3	2-Butanone (MEK)	100	U	100	29
104-51-8	n-Butylbenzene	50	U	50	23
135-98-8	sec-Butylbenzene	50	U	50	20
98-06-6	tert-Butylbenzene	50	U	50	20
75-15-0	Carbon disulfide	100	U	100	22
56-23-5	Carbon tetrachloride	50	U	50	12
108-90-7	Chlorobenzene	50	U	50	21
75-00-3	Chloroethane	100	U *	100	20
67-66-3	Chloroform	50	U	50	15
74-87-3	Chloromethane	100	U	100	24
95-49-8	2-Chlorotoluene	50	U	50	21
106-43-4	4-Chlorotoluene	50	U	50	21
96-12-8	1,2-Dibromo-3-Chloropropane	100	U	100	26
124-48-1	Dibromochloromethane	25	U	25	16
106-93-4	1,2-Dibromoethane (EDB)	25	U	25	17
74-95-3	Dibromomethane	50	U	50	18
95-50-1	1,2-Dichlorobenzene	50	U	50	24
541-73-1	1,3-Dichlorobenzene	50	U	50	25
106-46-7	1,4-Dichlorobenzene	50	U	50	24
75-71-8	Dichlorodifluoromethane (Freon 12)	100	U	100	14
75-34-3	1,1-Dichloroethane	50	U	50	18
107-06-2	1,2-Dichloroethane	50	U	50	13
75-35-4	1,1-Dichloroethene	50	U	50	17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-18/250813 DL | Lab Sample ID: 620-28577-3 DL

Matrix: Water | Lab File ID: V5-082125-24.D

Analysis Method: 8260C | Date Collected: 08/13/2025 11:40

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 22:50

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52540 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	63		50	15
156-60-5	trans-1,2-Dichloroethene	50	U	50	9.4
78-87-5	1,2-Dichloropropane	50	U	50	18
142-28-9	1,3-Dichloropropane	50	U	50	16
594-20-7	2,2-Dichloropropane	50	U	50	24
563-58-6	1,1-Dichloropropene	50	U	50	14
10061-01-5	cis-1,3-Dichloropropene	25	U	25	15
10061-02-6	trans-1,3-Dichloropropene	25	U	25	19
100-41-4	Ethylbenzene	50	U	50	18
87-68-3	Hexachlorobutadiene	50	U	50	12
591-78-6	2-Hexanone (MBK)	100	U	100	34
98-82-8	Isopropylbenzene	50	U	50	19
99-87-6	4-Isopropyltoluene	50	U	50	21
1634-04-4	Methyl tert-butyl ether	50	U	50	13
108-10-1	4-Methyl-2-pentanone (MIBK)	100	U	100	17
75-09-2	Methylene Chloride	100	U	100	27
91-20-3	Naphthalene	100	U	100	35
103-65-1	N-Propylbenzene	50	U	50	18
100-42-5	Styrene	50	U	50	21
630-20-6	1,1,1,2-Tetrachloroethane	50	U	50	18
79-34-5	1,1,2,2-Tetrachloroethane	25	U	25	23
127-18-4	Tetrachloroethene	35	J	50	18
108-88-3	Toluene	50	U	50	14
87-61-6	1,2,3-Trichlorobenzene	50	U	50	37
120-82-1	1,2,4-Trichlorobenzene	50	U	50	35
108-70-3	1,3,5-Trichlorobenzene	50	U	50	27
71-55-6	1,1,1-Trichloroethane	330		50	17
79-00-5	1,1,2-Trichloroethane	50	U	50	18
79-01-6	Trichloroethene	1700		50	18
75-69-4	Trichlorofluoromethane (Freon 11)	50	U *	50	11
96-18-4	1,2,3-Trichloropropane	50	U	50	26
95-63-6	1,2,4-Trimethylbenzene	50	U	50	23

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-18/250813 DL | Lab Sample ID: 620-28577-3 DL

Matrix: Water | Lab File ID: V5-082125-24.D

Analysis Method: 8260C | Date Collected: 08/13/2025 11:40

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 22:50

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52540 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	*1,3,5-Trimethylbenzene*	*50*	*U*	*50*	*22*
75-01-4	*Vinyl chloride*	*50*	*U*	*50*	*13*
179601-23-1	*m,p-Xylene*	*50*	*U*	*50*	*39*
95-47-6	*o-Xylene*	*50*	*U*	*50*	*21*
109-99-9	*Tetrahydrofuran*	*100*	*U*	*100*	*35*
60-29-7	*Ethyl ether*	*50*	*U*	*50*	*21*
994-05-8	*Tert-amyl methyl ether*	*50*	*U*	*50*	*13*
637-92-3	*Ethyl tert-butyl ether*	*50*	*U*	*50*	*15*
108-20-3	*di-Isopropyl ether*	*50*	*U*	*50*	*13*
75-65-0	*tert-Butanol*	*500*	*U*	*500*	*430*
110-57-6	*trans-1,4-Dichloro-2-butene*	*250*	*U*	*250*	*40*
64-17-5	*Ethanol*	*10000*	*U*	*10000*	*450*

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-103I/250813 | Lab Sample ID: 620-28577-4

Matrix: Water | Lab File ID: V4-081825-18.D

Analysis Method: 8260C | Date Collected: 08/13/2025 12:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 16:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	4.4	J	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U *	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	13		1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	6.5		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-103I/250813 | Lab Sample ID: 620-28577-4

Matrix: Water | Lab File ID: V4-081825-18.D

Analysis Method: 8260C | Date Collected: 08/13/2025 12:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 16:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	*cis-1,2-Dichloroethene*	*130*	*E*	*1.0*	*0.30*
156-60-5	trans-1,2-Dichloroethene	0.74	J	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U *	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.3		1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U *	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	*Trichloroethene*	*110*	*E*	*1.0*	*0.36*
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-103I/250813 | Lab Sample ID: 620-28577-4

Matrix: Water | Lab File ID: V4-081825-18.D

Analysis Method: 8260C | Date Collected: 08/13/2025 12:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 16:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	5.1		1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		70-130
1868-53-7	Dibromofluoromethane (Surr)	113		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-103I/250813 DL | Lab Sample ID: 620-28577-4 DL

Matrix: Water | Lab File ID: V4-081925-13.D

Analysis Method: 8260C | Date Collected: 08/13/2025 12:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 16:45

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	10	U	10	2.0
67-64-1	Acetone	13	J B	100	9.0
107-13-1	Acrylonitrile	10	U	10	3.6
71-43-2	Benzene	10	U	10	2.5
108-86-1	Bromobenzene	10	U	10	4.0
74-97-5	Bromochloromethane	10	U	10	3.9
75-27-4	Bromodichloromethane	5.0	U *	5.0	3.3
75-25-2	Bromoform	10	U	10	4.5
74-83-9	Bromomethane	20	U	20	6.3
78-93-3	2-Butanone (MEK)	20	U	20	5.8
104-51-8	n-Butylbenzene	10	U	10	4.5
135-98-8	sec-Butylbenzene	10	U	10	4.0
98-06-6	tert-Butylbenzene	10	U	10	4.0
75-15-0	Carbon disulfide	20	U	20	4.4
56-23-5	Carbon tetrachloride	10	U *	10	2.5
108-90-7	Chlorobenzene	10	U	10	4.2
75-00-3	Chloroethane	20	U	20	4.1
67-66-3	Chloroform	10	U	10	3.0
74-87-3	Chloromethane	20	U	20	4.9
95-49-8	2-Chlorotoluene	10	U	10	4.3
106-43-4	4-Chlorotoluene	10	U	10	4.2
96-12-8	1,2-Dibromo-3-Chloropropane	20	U	20	5.1
124-48-1	Dibromochloromethane	5.0	U	5.0	3.3
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	5.0	3.4
74-95-3	Dibromomethane	10	U	10	3.6
95-50-1	1,2-Dichlorobenzene	10	U	10	4.8
541-73-1	1,3-Dichlorobenzene	10	U	10	5.0
106-46-7	1,4-Dichlorobenzene	10	U	10	4.9
75-71-8	Dichlorodifluoromethane (Freon 12)	20	U	20	2.9
75-34-3	1,1-Dichloroethane	11		10	3.6
107-06-2	1,2-Dichloroethane	10	U	10	2.6
75-35-4	1,1-Dichloroethene	5.4	J	10	3.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-103I/250813 DL | Lab Sample ID: 620-28577-4 DL

Matrix: Water | Lab File ID: V4-081925-13.D

Analysis Method: 8260C | Date Collected: 08/13/2025 12:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 16:45

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	100		10	3.0
156-60-5	*trans-1,2-Dichloroethene*	*10*	*U*	*10*	*1.9*
78-87-5	*1,2-Dichloropropane*	*10*	*U*	*10*	*3.6*
142-28-9	*1,3-Dichloropropane*	*10*	*U*	*10*	*3.2*
594-20-7	*2,2-Dichloropropane*	*10*	*U*	*10*	*4.9*
563-58-6	*1,1-Dichloropropene*	*10*	*U*	*10*	*2.9*
10061-01-5	*cis-1,3-Dichloropropene*	*5.0*	*U*	*5.0*	*3.0*
10061-02-6	*trans-1,3-Dichloropropene*	*5.0*	*U*	*5.0*	*3.7*
100-41-4	*Ethylbenzene*	*10*	*U*	*10*	*3.6*
87-68-3	*Hexachlorobutadiene*	*10*	*U*	*10*	*2.4*
591-78-6	*2-Hexanone (MBK)*	*20*	*U*	*20*	*6.9*
98-82-8	*Isopropylbenzene*	*10*	*U*	*10*	*3.8*
99-87-6	*4-Isopropyltoluene*	*10*	*U*	*10*	*4.3*
1634-04-4	*Methyl tert-butyl ether*	*10*	*U*	*10*	*2.6*
108-10-1	*4-Methyl-2-pentanone (MIBK)*	*20*	*U*	*20*	*3.5*
75-09-2	*Methylene Chloride*	*20*	*U*	*20*	*5.4*
91-20-3	*Naphthalene*	*20*	*U*	*20*	*7.0*
103-65-1	*N-Propylbenzene*	*10*	*U*	*10*	*3.6*
100-42-5	*Styrene*	*10*	*U*	*10*	*4.2*
630-20-6	*1,1,1,2-Tetrachloroethane*	*10*	*U*	*10*	*3.7*
79-34-5	*1,1,2,2-Tetrachloroethane*	*5.0*	*U*	*5.0*	*4.6*
127-18-4	*Tetrachloroethene*	*10*	*U*	*10*	*3.6*
108-88-3	*Toluene*	*10*	*U*	*10*	*2.8*
87-61-6	*1,2,3-Trichlorobenzene*	*10*	*U*	*10*	*7.4*
120-82-1	*1,2,4-Trichlorobenzene*	*10*	*U*	*10*	*7.0*
108-70-3	*1,3,5-Trichlorobenzene*	*10*	*U*	*10*	*5.4*
71-55-6	*1,1,1-Trichloroethane*	*10*	*U **	*10*	*3.3*
79-00-5	*1,1,2-Trichloroethane*	*10*	*U*	*10*	*3.5*
79-01-6	Trichloroethene	83		10	3.6
75-69-4	*Trichlorofluoromethane (Freon 11)*	*10*	*U*	*10*	*2.3*
96-18-4	*1,2,3-Trichloropropane*	*10*	*U*	*10*	*5.1*
95-63-6	*1,2,4-Trimethylbenzene*	*10*	*U*	*10*	*4.6*

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-103I/250813 DL | Lab Sample ID: 620-28577-4 DL

Matrix: Water | Lab File ID: V4-081925-13.D

Analysis Method: 8260C | Date Collected: 08/13/2025 12:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 16:45

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	*1,3,5-Trimethylbenzene*	*10*	*U*	*10*	*4.5*
75-01-4	*Vinyl chloride*	*10*	*U*	*10*	*2.6*
179601-23-1	*m,p-Xylene*	*10*	*U*	*10*	*7.8*
95-47-6	*o-Xylene*	*10*	*U*	*10*	*4.3*
109-99-9	*Tetrahydrofuran*	*20*	*U*	*20*	*7.0*
60-29-7	*Ethyl ether*	*10*	*U*	*10*	*4.2*
994-05-8	*Tert-amyl methyl ether*	*10*	*U*	*10*	*2.6*
637-92-3	*Ethyl tert-butyl ether*	*10*	*U*	*10*	*2.9*
108-20-3	*di-Isopropyl ether*	*10*	*U*	*10*	*2.6*
75-65-0	*tert-Butanol*	*100*	*U*	*100*	*85*
110-57-6	*trans-1,4-Dichloro-2-butene*	*50*	*U*	*50*	*8.1*
64-17-5	*Ethanol*	*2000*	*U*	*2000*	*91*

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		70-130
1868-53-7	Dibromofluoromethane (Surr)	111		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102B/250813 | Lab Sample ID: 620-28577-5

Matrix: Water | Lab File ID: V4-081825-19.D

Analysis Method: 8260C | Date Collected: 08/13/2025 15:10

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 16:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	7.8	J	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	0.85	J	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U *	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	4.6		2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	2.1		1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.71	J	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102B/250813 | Lab Sample ID: 620-28577-5

Matrix: Water | Lab File ID: V4-081825-19.D

Analysis Method: 8260C | Date Collected: 08/13/2025 15:10

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 16:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	*cis-1,2-Dichloroethene*	*180*	*E*	*1.0*	*0.30*
156-60-5	trans-1,2-Dichloroethene	1.8		1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U *	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	0.62	J	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U *	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	3.7		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102B/250813 | Lab Sample ID: 620-28577-5

Matrix: Water | Lab File ID: V4-081825-19.D

Analysis Method: 8260C | Date Collected: 08/13/2025 15:10

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 16:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	25		1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-130
1868-53-7	Dibromofluoromethane (Surr)	110		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102B/250813 DL | Lab Sample ID: 620-28577-5 DL

Matrix: Water | Lab File ID: V4-081925-14.D

Analysis Method: 8260C | Date Collected: 08/13/2025 15:10

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 17:08

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	10	U	10	2.0
67-64-1	Acetone	12	J B	100	9.0
107-13-1	Acrylonitrile	10	U	10	3.6
71-43-2	Benzene	10	U	10	2.5
108-86-1	Bromobenzene	10	U	10	4.0
74-97-5	Bromochloromethane	10	U	10	3.9
75-27-4	Bromodichloromethane	5.0	U *	5.0	3.3
75-25-2	Bromoform	10	U	10	4.5
74-83-9	Bromomethane	20	U	20	6.3
78-93-3	2-Butanone (MEK)	20	U	20	5.8
104-51-8	n-Butylbenzene	10	U	10	4.5
135-98-8	sec-Butylbenzene	10	U	10	4.0
98-06-6	tert-Butylbenzene	10	U	10	4.0
75-15-0	Carbon disulfide	20	U	20	4.4
56-23-5	Carbon tetrachloride	10	U *	10	2.5
108-90-7	Chlorobenzene	10	U	10	4.2
75-00-3	Chloroethane	20	U	20	4.1
67-66-3	Chloroform	10	U	10	3.0
74-87-3	Chloromethane	20	U	20	4.9
95-49-8	2-Chlorotoluene	10	U	10	4.3
106-43-4	4-Chlorotoluene	10	U	10	4.2
96-12-8	1,2-Dibromo-3-Chloropropane	20	U	20	5.1
124-48-1	Dibromochloromethane	5.0	U	5.0	3.3
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	5.0	3.4
74-95-3	Dibromomethane	10	U	10	3.6
95-50-1	1,2-Dichlorobenzene	10	U	10	4.8
541-73-1	1,3-Dichlorobenzene	10	U	10	5.0
106-46-7	1,4-Dichlorobenzene	10	U	10	4.9
75-71-8	Dichlorodifluoromethane (Freon 12)	20	U	20	2.9
75-34-3	1,1-Dichloroethane	10	U	10	3.6
107-06-2	1,2-Dichloroethane	10	U	10	2.6
75-35-4	1,1-Dichloroethene	10	U	10	3.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102B/250813 DL | Lab Sample ID: 620-28577-5 DL

Matrix: Water | Lab File ID: V4-081925-14.D

Analysis Method: 8260C | Date Collected: 08/13/2025 15:10

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 17:08

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	150		10	3.0
156-60-5	*trans-1,2-Dichloroethene*	*10*	*U*	*10*	*1.9*
78-87-5	*1,2-Dichloropropane*	*10*	*U*	*10*	*3.6*
142-28-9	*1,3-Dichloropropane*	*10*	*U*	*10*	*3.2*
594-20-7	*2,2-Dichloropropane*	*10*	*U*	*10*	*4.9*
563-58-6	*1,1-Dichloropropene*	*10*	*U*	*10*	*2.9*
10061-01-5	*cis-1,3-Dichloropropene*	*5.0*	*U*	*5.0*	*3.0*
10061-02-6	*trans-1,3-Dichloropropene*	*5.0*	*U*	*5.0*	*3.7*
100-41-4	*Ethylbenzene*	*10*	*U*	*10*	*3.6*
87-68-3	*Hexachlorobutadiene*	*10*	*U*	*10*	*2.4*
591-78-6	*2-Hexanone (MBK)*	*20*	*U*	*20*	*6.9*
98-82-8	*Isopropylbenzene*	*10*	*U*	*10*	*3.8*
99-87-6	*4-Isopropyltoluene*	*10*	*U*	*10*	*4.3*
1634-04-4	*Methyl tert-butyl ether*	*10*	*U*	*10*	*2.6*
108-10-1	*4-Methyl-2-pentanone (MIBK)*	*20*	*U*	*20*	*3.5*
75-09-2	*Methylene Chloride*	*20*	*U*	*20*	*5.4*
91-20-3	*Naphthalene*	*20*	*U*	*20*	*7.0*
103-65-1	*N-Propylbenzene*	*10*	*U*	*10*	*3.6*
100-42-5	*Styrene*	*10*	*U*	*10*	*4.2*
630-20-6	*1,1,1,2-Tetrachloroethane*	*10*	*U*	*10*	*3.7*
79-34-5	*1,1,2,2-Tetrachloroethane*	*5.0*	*U*	*5.0*	*4.6*
127-18-4	*Tetrachloroethene*	*10*	*U*	*10*	*3.6*
108-88-3	*Toluene*	*10*	*U*	*10*	*2.8*
87-61-6	*1,2,3-Trichlorobenzene*	*10*	*U*	*10*	*7.4*
120-82-1	*1,2,4-Trichlorobenzene*	*10*	*U*	*10*	*7.0*
108-70-3	*1,3,5-Trichlorobenzene*	*10*	*U*	*10*	*5.4*
71-55-6	*1,1,1-Trichloroethane*	*10*	*U **	*10*	*3.3*
79-00-5	*1,1,2-Trichloroethane*	*10*	*U*	*10*	*3.5*
79-01-6	*Trichloroethene*	*10*	*U*	*10*	*3.6*
75-69-4	*Trichlorofluoromethane (Freon 11)*	*10*	*U*	*10*	*2.3*
96-18-4	*1,2,3-Trichloropropane*	*10*	*U*	*10*	*5.1*
95-63-6	*1,2,4-Trimethylbenzene*	*10*	*U*	*10*	*4.6*

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102B/250813 DL | Lab Sample ID: 620-28577-5 DL

Matrix: Water | Lab File ID: V4-081925-14.D

Analysis Method: 8260C | Date Collected: 08/13/2025 15:10

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 17:08

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	*1,3,5-Trimethylbenzene*	*10*	*U*	*10*	*4.5*
75-01-4	*Vinyl chloride*	*21*		*10*	*2.6*
179601-23-1	*m,p-Xylene*	*10*	*U*	*10*	*7.8*
95-47-6	*o-Xylene*	*10*	*U*	*10*	*4.3*
109-99-9	*Tetrahydrofuran*	*20*	*U*	*20*	*7.0*
60-29-7	*Ethyl ether*	*10*	*U*	*10*	*4.2*
994-05-8	*Tert-amyl methyl ether*	*10*	*U*	*10*	*2.6*
637-92-3	*Ethyl tert-butyl ether*	*10*	*U*	*10*	*2.9*
108-20-3	*di-Isopropyl ether*	*10*	*U*	*10*	*2.6*
75-65-0	*tert-Butanol*	*100*	*U*	*100*	*85*
110-57-6	*trans-1,4-Dichloro-2-butene*	*50*	*U*	*50*	*8.1*
64-17-5	*Ethanol*	*2000*	*U*	*2000*	*91*

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-130
1868-53-7	Dibromofluoromethane (Surr)	111		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102IR/250813 | Lab Sample ID: 620-28577-6

Matrix: Water | Lab File ID: V5-082025-27.D

Analysis Method: 8260C | Date Collected: 08/13/2025 15:30

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 01:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52457 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	4.8	J B	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U *	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U *	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	0.70	J *	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	2.1		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102IR/250813 | Lab Sample ID: 620-28577-6

Matrix: Water | Lab File ID: V5-082025-27.D

Analysis Method: 8260C | Date Collected: 08/13/2025 15:30

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 01:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52457 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	*cis-1,2-Dichloroethene*	*150*	*E*	*1.0*	*0.30*
156-60-5	trans-1,2-Dichloroethene	1.9		1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	0.45	J	1.0	0.36
108-88-3	Toluene	1.0	U *	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	2.7		1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	*Trichloroethene*	*290*	*E*	*1.0*	*0.36*
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102IR/250813 | Lab Sample ID: 620-28577-6

Matrix: Water | Lab File ID: V5-082025-27.D

Analysis Method: 8260C | Date Collected: 08/13/2025 15:30

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 01:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52457 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	17		1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102IR/250813 DL | Lab Sample ID: 620-28577-6 DL

Matrix: Water | Lab File ID: V4-081925-15.D

Analysis Method: 8260C | Date Collected: 08/13/2025 15:30

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 17:31

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	10	U	10	2.0
67-64-1	Acetone	100	U	100	9.0
107-13-1	Acrylonitrile	10	U	10	3.6
71-43-2	Benzene	10	U	10	2.5
108-86-1	Bromobenzene	10	U	10	4.0
74-97-5	Bromochloromethane	10	U	10	3.9
75-27-4	Bromodichloromethane	5.0	U *	5.0	3.3
75-25-2	Bromoform	10	U	10	4.5
74-83-9	Bromomethane	20	U	20	6.3
78-93-3	2-Butanone (MEK)	20	U	20	5.8
104-51-8	n-Butylbenzene	10	U	10	4.5
135-98-8	sec-Butylbenzene	10	U	10	4.0
98-06-6	tert-Butylbenzene	10	U	10	4.0
75-15-0	Carbon disulfide	20	U	20	4.4
56-23-5	Carbon tetrachloride	10	U *	10	2.5
108-90-7	Chlorobenzene	10	U	10	4.2
75-00-3	Chloroethane	20	U	20	4.1
67-66-3	Chloroform	10	U	10	3.0
74-87-3	Chloromethane	20	U	20	4.9
95-49-8	2-Chlorotoluene	10	U	10	4.3
106-43-4	4-Chlorotoluene	10	U	10	4.2
96-12-8	1,2-Dibromo-3-Chloropropane	20	U	20	5.1
124-48-1	Dibromochloromethane	5.0	U	5.0	3.3
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	5.0	3.4
74-95-3	Dibromomethane	10	U	10	3.6
95-50-1	1,2-Dichlorobenzene	10	U	10	4.8
541-73-1	1,3-Dichlorobenzene	10	U	10	5.0
106-46-7	1,4-Dichlorobenzene	10	U	10	4.9
75-71-8	Dichlorodifluoromethane (Freon 12)	20	U	20	2.9
75-34-3	1,1-Dichloroethane	10	U	10	3.6
107-06-2	1,2-Dichloroethane	10	U	10	2.6
75-35-4	1,1-Dichloroethene	10	U	10	3.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102IR/250813 DL | Lab Sample ID: 620-28577-6 DL

Matrix: Water | Lab File ID: V4-081925-15.D

Analysis Method: 8260C | Date Collected: 08/13/2025 15:30

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 17:31

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	120		10	3.0
156-60-5	*trans-1,2-Dichloroethene*	*2.4*	*J*	*10*	*1.9*
78-87-5	*1,2-Dichloropropane*	*10*	*U*	*10*	*3.6*
142-28-9	*1,3-Dichloropropane*	*10*	*U*	*10*	*3.2*
594-20-7	*2,2-Dichloropropane*	*10*	*U*	*10*	*4.9*
563-58-6	*1,1-Dichloropropene*	*10*	*U*	*10*	*2.9*
10061-01-5	*cis-1,3-Dichloropropene*	*5.0*	*U*	*5.0*	*3.0*
10061-02-6	*trans-1,3-Dichloropropene*	*5.0*	*U*	*5.0*	*3.7*
100-41-4	*Ethylbenzene*	*10*	*U*	*10*	*3.6*
87-68-3	*Hexachlorobutadiene*	*10*	*U*	*10*	*2.4*
591-78-6	*2-Hexanone (MBK)*	*20*	*U*	*20*	*6.9*
98-82-8	*Isopropylbenzene*	*10*	*U*	*10*	*3.8*
99-87-6	*4-Isopropyltoluene*	*10*	*U*	*10*	*4.3*
1634-04-4	*Methyl tert-butyl ether*	*10*	*U*	*10*	*2.6*
108-10-1	*4-Methyl-2-pentanone (MIBK)*	*20*	*U*	*20*	*3.5*
75-09-2	*Methylene Chloride*	*20*	*U*	*20*	*5.4*
91-20-3	*Naphthalene*	*20*	*U*	*20*	*7.0*
103-65-1	*N-Propylbenzene*	*10*	*U*	*10*	*3.6*
100-42-5	*Styrene*	*10*	*U*	*10*	*4.2*
630-20-6	*1,1,1,2-Tetrachloroethane*	*10*	*U*	*10*	*3.7*
79-34-5	*1,1,2,2-Tetrachloroethane*	*5.0*	*U*	*5.0*	*4.6*
127-18-4	*Tetrachloroethene*	*10*	*U*	*10*	*3.6*
108-88-3	*Toluene*	*10*	*U*	*10*	*2.8*
87-61-6	*1,2,3-Trichlorobenzene*	*10*	*U*	*10*	*7.4*
120-82-1	*1,2,4-Trichlorobenzene*	*10*	*U*	*10*	*7.0*
108-70-3	*1,3,5-Trichlorobenzene*	*10*	*U*	*10*	*5.4*
71-55-6	*1,1,1-Trichloroethane*	*10*	*U **	*10*	*3.3*
79-00-5	*1,1,2-Trichloroethane*	*10*	*U*	*10*	*3.5*
79-01-6	Trichloroethene	260		10	3.6
75-69-4	*Trichlorofluoromethane (Freon 11)*	*10*	*U*	*10*	*2.3*
96-18-4	*1,2,3-Trichloropropane*	*10*	*U*	*10*	*5.1*
95-63-6	*1,2,4-Trimethylbenzene*	*10*	*U*	*10*	*4.6*

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102IR/250813 DL | Lab Sample ID: 620-28577-6 DL

Matrix: Water | Lab File ID: V4-081925-15.D

Analysis Method: 8260C | Date Collected: 08/13/2025 15:30

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 17:31

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	*1,3,5-Trimethylbenzene*	*10*	*U*	*10*	*4.5*
75-01-4	*Vinyl chloride*	*14*		*10*	*2.6*
179601-23-1	*m,p-Xylene*	*10*	*U*	*10*	*7.8*
95-47-6	*o-Xylene*	*10*	*U*	*10*	*4.3*
109-99-9	*Tetrahydrofuran*	*20*	*U*	*20*	*7.0*
60-29-7	*Ethyl ether*	*10*	*U*	*10*	*4.2*
994-05-8	*Tert-amyl methyl ether*	*10*	*U*	*10*	*2.6*
637-92-3	*Ethyl tert-butyl ether*	*10*	*U*	*10*	*2.9*
108-20-3	*di-Isopropyl ether*	*10*	*U*	*10*	*2.6*
75-65-0	*tert-Butanol*	*100*	*U*	*100*	*85*
110-57-6	*trans-1,4-Dichloro-2-butene*	*50*	*U*	*50*	*8.1*
64-17-5	*Ethanol*	*2000*	*U*	*2000*	*91*

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		70-130
1868-53-7	Dibromofluoromethane (Surr)	109		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: FB/250813 | Lab Sample ID: 620-28577-7

Matrix: Water | Lab File ID: V4-081825-21.D

Analysis Method: 8260C | Date Collected: 08/13/2025 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 17:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	4.3	J	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U *	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: FB/250813 | Lab Sample ID: 620-28577-7

Matrix: Water | Lab File ID: V4-081825-21.D

Analysis Method: 8260C | Date Collected: 08/13/2025 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 17:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U *	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U *	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	1.0	U	1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: FB/250813 | Lab Sample ID: 620-28577-7

Matrix: Water | Lab File ID: V4-081825-21.D

Analysis Method: 8260C | Date Collected: 08/13/2025 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 17:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		70-130
1868-53-7	Dibromofluoromethane (Surr)	111		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: TB/250813 | Lab Sample ID: 620-28577-8

Matrix: Water | Lab File ID: V4-081825-08.D

Analysis Method: 8260C | Date Collected: 08/13/2025 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 12:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	2.5	J	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U *	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: TB/250813 | Lab Sample ID: 620-28577-8

Matrix: Water | Lab File ID: V4-081825-08.D

Analysis Method: 8260C | Date Collected: 08/13/2025 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 12:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U *	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U *	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	1.0	U	1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: TB/250813 | Lab Sample ID: 620-28577-8

Matrix: Water | Lab File ID: V4-081825-08.D

Analysis Method: 8260C | Date Collected: 08/13/2025 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 12:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		70-130
1868-53-7	Dibromofluoromethane (Surr)	111		70-130

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-51723/3	V4-080725-03.D
Level 2	IC 620-51723/4	V4-080725-04.D
Level 3	IC 620-51723/5	V4-080725-05.D
Level 4	IC 620-51723/6	V4-080725-06.D
Level 5	IC 620-51723/7	V4-080725-07.D
Level 6	ICIS 620-51723/8	V4-080725-08.D
Level 7	IC 620-51723/9	V4-080725-09.D
Level 8	IC 620-51723/10	V4-080725-10.D
Level 9	IC 620-51723/11	V4-080725-11.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 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane (Freon 12)	0.4681 0.3997	0.4351 0.4076	0.4078 0.4015	0.3899 0.3748	0.3978	Ave		0.4092			0.0100	6.7		20.0			
Chloromethane	+++++ 0.3186	0.4254 0.3154	0.3557 0.3116	0.3408 0.2851	0.3160	Ave		0.3336			0.0500	12.8		20.0			
Vinyl chloride	0.2971 0.2513	0.2590 0.2580	0.2475 0.2478	0.2665 0.2243	0.2546	Ave		0.2562			0.0500	7.5		20.0			
Bromomethane	0.4426 0.1735	0.3008 0.1715	0.2461 0.1715	0.2081 0.1626	0.1830	Lin1	0.1468	0.1651			0.0100				0.9990		0.9900
Chloroethane	0.1492 0.1762	0.1503 0.1701	0.1738 0.1685	0.2057 0.1521	0.1670	Ave		0.1681			0.0833	10.4		20.0			
Ethanol	+++++ 0.0028	+++++ 0.0026	+++++ 0.0025	0.0025 0.0027	0.0026	Ave		0.0026			0.0023	4.4		20.0			
Trichlorofluoromethane (Freon 11)	+++++ 0.5656	0.5956 0.5785	0.5676 0.5793	0.6038 0.5478	0.5680	Ave		0.5758			0.0500	3.1		20.0			
Acetone	+++++ 0.1746	+++++ 0.1979	+++++ 0.1586	0.2235 0.1388	0.2020	Ave		0.1826			0.0870	17.0		20.0			
Ethyl ether	0.2232 0.2323	0.2213 0.2410	0.2437 0.2406	0.2376 0.2297	0.2122	Ave		0.2313			0.0500	4.6		20.0			
1,1-Dichloroethene	0.2406 0.2666	0.2586 0.2803	0.2524 0.2734	0.2712 0.2649	0.2490	Ave		0.2619			0.0500	4.9		20.0			
Iodomethane	0.1995 0.1271	0.1697 0.1479	0.1393 0.1577	0.1257 0.1661	0.1239	Qua1	0.0290	0.1280	0.0004003		0.0500				0.9980		0.9900
tert-Butanol	+++++ 0.0231	0.0220 0.0234	0.0285 0.0231	0.0231 0.0236	0.0193	Ave		0.0233			0.0080	10.9		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 Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

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 9	LVL 5		B	M1	M2								
Acrylonitrile	0.0821 0.1186	0.0971 0.1227	0.1330 0.1213	0.1195 0.1135	0.1100	Ave		0.1131			0.0430	13.5		20.0			
Methylene Chloride	+++++ 0.3421	0.5397 0.3468	0.4674 0.3382	0.3669 0.3198	0.3429	Lin1	0.2371	0.3265			0.0500				0.9990		0.9900
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.3626 0.3274	0.3398 0.3376	0.3170 0.3327	0.3084 0.3114	0.2915	Ave		0.3254			0.0500	6.4		20.0			
Methyl acetate	+++++ 0.2226	0.3078 0.2195	0.2937 0.2176	0.2332 0.2152	0.1997	Ave		0.2387			0.0500	16.6		20.0			
Carbon disulfide	1.0697 0.9353	1.0053 0.9611	0.9428 0.9430	0.9609 0.8911	0.9206	Ave		0.9589			0.0500	5.4		20.0			
trans-1,2-Dichloroethene	0.2716 0.2745	0.2760 0.2893	0.2662 0.2856	0.2888 0.2703	0.2670	Ave		0.2766			0.0500	3.3		20.0			
Methyl tert-butyl ether	0.6385 0.7271	0.6440 0.7728	0.7237 0.7696	0.7091 0.7479	0.6690	Ave		0.7113			0.0500	7.1		20.0			
1,1-Dichloroethane	0.5401 0.5461	0.5352 0.5715	0.5692 0.5578	0.5698 0.5232	0.5370	Ave		0.5500			0.0500	3.2		20.0			
2-Butanone (MEK)	+++++ 0.1016	0.0265 0.1464	0.0516 +++++	0.0888 +++++	0.1079	Qua1	-0.057	0.0854	0.0015143	*	0.0950				0.9960		0.9900
di-Isopropyl ether	0.6190 0.7797	0.6480 0.8247	0.7361 0.8078	0.7350 0.7557	0.7194	Ave		0.7361			0.0500	9.2		20.0			
cis-1,2-Dichloroethene	0.2735 0.3156	0.3021 0.3206	0.3234 0.3211	0.3250 0.3044	0.3099	Ave		0.3106			0.0500	5.2		20.0			
Bromochloromethane	0.1302 0.1537	0.1470 0.1562	0.1606 0.1528	0.1586 0.1459	0.1489	Ave		0.1504			0.0500	6.0		20.0			
Chloroform	1.8727 0.6974	1.2550 0.6982	1.0344 0.6834	0.8323 0.6445	0.7103	Lin1	0.6430	0.6575			0.0500				0.9990		0.9900
2,2-Dichloropropane	0.3246 0.3178	0.3211 0.3234	0.3159 0.3224	0.3219 0.3003	0.3125	Ave		0.3178			0.0500	2.4		20.0			
Ethyl tert-butyl ether	0.6233 0.7607	0.6205 0.8022	0.7335 0.7963	0.7267 0.7813	0.6988	Ave		0.7270			0.0500	9.4		20.0			
Tetrahydrofuran	+++++ 0.0729	0.0570 0.0765	0.0621 0.0761	0.0651 0.0782	0.0607	Ave		0.0686			0.0290	12.1		20.0			
1,2-Dichloroethane	0.5654 0.5030	0.5571 0.5044	0.5576 0.4914	0.5489 0.4691	0.4913	Ave		0.5209			0.0500	6.9		20.0			
1,1,1-Trichloroethane	0.3933 0.3896	0.4085 0.4095	0.3961 0.4061	0.3985 0.4023	0.3726	Ave		0.3974			0.0500	2.9		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 Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

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 9	LVL 5		B	M1	M2								
1,1-Dichloropropene	0.3164 0.3798	0.3295 0.4055	0.3361 0.4071	0.3658 0.3926	0.3563	Ave		0.3655			0.0500	9.1		20.0			
Cyclohexane	0.3526 0.4629	0.3446 0.4933	0.3531 0.4905	0.4249 0.4713	0.4429	Ave		0.4262			0.0500	14.3		20.0			
Carbon tetrachloride	0.1109 0.1238	0.1030 0.1291	0.1058 0.1365	0.1165 0.1362	0.1118	Ave		0.1193			0.0500	10.6		20.0			
Benzene	1.3758 1.1696	1.2346 1.1985	1.2553 1.1794	1.1892 1.1132	1.1315	Ave		1.2052			0.0500	6.5		20.0			
Tert-amyl methyl ether	2.1299 0.6639	1.3605 0.6961	1.0790 0.6781	0.7953 0.6760	0.6689	Lin1	0.7124	0.6629			0.0500				0.9990		0.9900
Dibromomethane	0.2050 0.2132	0.2099 0.2173	0.2433 0.2146	0.2260 0.2078	0.2069	Ave		0.2160			0.1100	5.6		20.0			
1,2-Dichloropropane	0.2555 0.2748	0.2464 0.2859	0.2804 0.2842	0.2750 0.2749	0.2609	Ave		0.2709			0.0500	5.0		20.0			
Trichloroethene	0.3001 0.3274	0.3175 0.3397	0.3168 0.3339	0.3300 0.3250	0.3023	Ave		0.3214			0.0500	4.2		20.0			
Bromodichloromethane	0.6788 0.4344	0.5220 0.4336	0.5501 0.4333	0.4796 0.4186	0.4285	Lin1	0.1439	0.4241			0.0500				0.9990		0.9900
1,4-Dioxane	+++++ 0.0028	+++++ 0.0029	0.0007 0.0028	0.0018 0.0033	0.0020	Lin1	-0.066	0.0032			0.0010				0.9920		0.9900
Methylcyclohexane	0.3480 0.5014	0.3656 0.5417	0.3752 0.5407	0.4359 0.5248	0.4692	Ave		0.4558			0.0500	17.0		20.0			
cis-1,3-Dichloropropene	0.3096 0.4699	0.3412 0.5097	0.4369 0.5130	0.4403 0.5075	0.4249	Ave		0.4392			0.0500	16.6		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.2023	0.1217 0.2579	0.1884 0.2331	0.1866 0.2380	0.1753	Lin1	-0.158	0.2380			0.0990				0.9940		0.9900
trans-1,3-Dichloropropene	0.3811 0.4397	0.3424 0.4840	0.3843 0.4838	0.4104 0.4834	0.3926	Ave		0.4224			0.0500	12.5		20.0			
1,1,2-Trichloroethane	0.2205 0.2440	0.2348 0.2507	0.2818 0.2451	0.2639 0.2400	0.2300	Ave		0.2456			0.0500	7.5		20.0			
Toluene	0.7429 0.7132	0.7079 0.7334	0.7539 0.7178	0.7326 0.6939	0.6884	Ave		0.7205			0.0500	3.1		20.0			
1,3-Dichloropropane	0.4268 0.4871	0.4758 0.5031	0.5586 0.4899	0.5194 0.4647	0.4626	Ave		0.4875			0.0500	7.7		20.0			
Dibromochloromethane	0.4556 0.3470	0.3802 0.3546	0.4297 0.3534	0.3799 0.3519	0.3260	Ave		0.3754			0.0500	11.2		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 Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

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 9	LVL 5		B	M1	M2								
2-Hexanone (MBK)	+++++ 0.1754	0.0866 0.2574	0.1455 +++++	0.1278 +++++	0.1802	Qua1	-0.021	0.1269	0.0032182		0.0860				0.9960		0.9900
1,2-Dibromoethane (EDB)	0.2408 0.2985	0.2564 0.3075	0.3201 0.3066	0.3005 0.3043	0.2791	Ave		0.2904			0.0500	9.1		20.0			
Tetrachloroethene	0.3384 0.3354	0.3210 0.3523	0.3374 0.3502	0.3413 0.3402	0.3249	Ave		0.3379			0.0500	3.0		20.0			
1,1,1,2-Tetrachloroethane	0.4079 0.4284	0.4388 0.4375	0.5137 0.4258	0.4615 0.3874	0.4061	Ave		0.4341			0.0500	8.5		20.0			
Chlorobenzene	1.1669 1.0580	1.1622 1.0503	1.2579 1.0179	1.1820 0.9170	1.0337	Ave		1.0940			0.0500	9.6		20.0			
Ethylbenzene	1.5325 1.8851	1.4826 1.9524	1.7403 1.8864	1.8321 1.7132	1.7454	Ave		1.7522			0.0500	9.1		20.0			
Bromoform	0.3445 0.3537	0.3428 0.3598	0.4162 0.3544	0.3779 0.3306	0.3221	Ave		0.3558			0.0500	7.8		20.0			
m,p-Xylene	0.9831 1.4545	0.9769 1.5025	1.2547 1.4460	1.3156 1.3198	1.2903	Ave		1.2826			0.0500	14.9		20.0			
Styrene	0.7078 1.0139	0.6628 1.0769	0.8481 1.0512	0.9356 0.9701	0.9174	Ave		0.9093			0.0500	16.0		20.0			
1,1,2,2-Tetrachloroethane	0.5244 0.5841	0.5852 0.5555	0.7705 0.5310	0.6669 0.4766	0.5563	Qua1	0.0254	0.6057	-0.001315		0.0500				0.9980		0.9900
o-Xylene	1.0965 1.5985	1.1958 1.5935	1.5481 1.5244	1.6619 1.3770	1.5336	Ave		1.4588			0.0500	13.4		20.0			
1,2,3-Trichloropropane	0.4184 0.4720	0.4784 0.4655	0.5815 0.4496	0.5332 0.4053	0.4404	Ave		0.4716			0.0500	11.8		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.0929	+++++ 0.1001	0.0893 0.0993	0.0880 0.0996	0.0826	Ave		0.0931			0.0910	7.3		20.0			
Isopropylbenzene	2.0174 1.8954	1.9178 1.9154	2.0868 1.8497	2.0125 1.6903	1.8501	Ave		1.9151			0.0500	6.1		20.0			
Bromobenzene	0.4833 0.4980	0.5025 0.5070	0.5842 0.4898	0.5532 0.4400	0.4841	Ave		0.5047			0.0500	8.3		20.0			
N-Propylbenzene	+++++ 2.4183	1.4697 2.4670	1.8846 2.4062	2.2584 2.4019	2.1825	Lin1	-1.026	2.4303			0.0500				1.0000		0.9900
2-Chlorotoluene	0.3398 0.4327	0.3659 0.4380	0.4755 0.4249	0.4744 0.3782	0.4244	Ave		0.4171			0.0500	11.2		20.0			
4-Chlorotoluene	1.2299 1.5114	1.1769 1.5009	1.6662 1.4538	1.6117 1.2881	1.4516	Ave		1.4323			0.0500	11.7		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 Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

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 9	LVL 5		B	M1	M2								
1,3,5-Trimethylbenzene	1.0801 1.5936	1.1349 1.6430	1.4077 1.5940	1.5534 1.4587	1.4910	Ave		1.4396			0.0500	14.1		20.0			
tert-Butylbenzene	0.6467 0.9532	0.6884 0.9982	0.8325 0.9944	0.9301 0.9789	0.8891	Ave		0.8790			0.0500	15.0		20.0			
1,2,4-Trimethylbenzene	1.0343 1.6004	1.1273 1.6309	1.4653 1.6033	1.6086 1.4480	1.5150	Ave		1.4481			0.0500	15.2		20.0			
1,3-Dichlorobenzene	0.8650 0.9299	0.8863 0.9348	1.1459 0.9044	1.0602 0.8178	0.9218	Ave		0.9407			0.0500	10.8		20.0			
sec-Butylbenzene	1.4864 2.0168	1.6288 2.0312	1.9593 1.9932	2.1559 1.8092	1.9915	Ave		1.8969			0.0500	11.3		20.0			
1,4-Dichlorobenzene	1.7203 1.5966	1.7267 1.6395	2.0187 1.6221	1.7956 1.5696	1.5617	Ave		1.6945			0.0500	8.6		20.0			
4-Isopropyltoluene	2.0107 2.8522	2.0449 3.0277	2.4472 3.0376	2.7585 2.9706	2.6469	Ave		2.6440			0.0500	15.0		20.0			
1,2-Dichlorobenzene	1.2873 1.4358	1.3427 1.4966	1.6951 1.4792	1.5765 1.4548	1.3687	Ave		1.4596			0.0500	8.5		20.0			
n-Butylbenzene	1.7509 2.6300	1.8515 2.7752	2.1773 2.7791	2.4462 2.6899	2.4309	Ave		2.3923			0.0500	16.2		20.0			
1,2-Dibromo-3-Chloropropane	0.1849 0.2130	0.1944 0.2152	0.2543 0.2087	0.2252 0.2115	0.1917	Ave		0.2110			0.0630	9.8		20.0			
1,3,5-Trichlorobenzene	0.8862 1.0291	0.9275 1.1200	1.1182 1.0936	1.0866 1.0937	0.9685	Ave		1.0359			0.0500	8.5		20.0			
1,2,4-Trichlorobenzene	0.3832 0.5030	0.3848 0.5258	0.5136 0.5135	0.5086 0.4712	0.4471	Ave		0.4723			0.0500	11.8		20.0			
Naphthalene	+++++ 1.9239	1.1657 2.1473	1.5733 2.1046	1.6517 2.1277	1.5739	Lin1	-1.383	2.1129			0.0500				0.9970		0.9900
Hexachlorobutadiene	0.6550 0.4779	0.5209 0.4996	0.5464 0.4895	0.5200 0.4715	0.4743	Ave		0.5172			0.0500	11.1		20.0			
1,2,3-Trichlorobenzene	0.5951 0.7473	0.5718 0.7987	0.7860 0.7851	0.7646 0.7571	0.6773	Ave		0.7203			0.0500	11.8		20.0			
Dibromofluoromethane (Surr)	0.3158 0.3175	0.3164 0.3146	0.3174 0.3136	0.3168 0.3103	0.3165	Ave		0.3154			0.0500	0.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.4197 0.4098	0.4211 0.4046	0.4233 0.3956	0.4268 0.3905	0.4250	Ave		0.4129			0.0500	3.3		20.0			
Toluene-d8 (Surr)	0.9422 0.9639	0.9430 0.9549	0.9475 0.9639	0.9511 0.9621	0.9580	Ave		0.9541			0.0500	0.9		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 Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

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 9	LVL 5		B	M1	M2								
4-Bromofluorobenzene (Surr)	0.5524 0.5524	0.5512 0.5446	0.5576 0.5301	0.5656 0.4919	0.5518	Ave		0.5442			0.0500	4.0		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 Rhode Island | Job No.: 620-28577-1 | Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 | GC Column: DB-VRX | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 | Calibration End Date: 08/07/2025 11:53 | Calibration ID: 10515

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-51723/3	V4-080725-03.D
Level 2	IC 620-51723/4	V4-080725-04.D
Level 3	IC 620-51723/5	V4-080725-05.D
Level 4	IC 620-51723/6	V4-080725-06.D
Level 5	IC 620-51723/7	V4-080725-07.D
Level 6	ICIS 620-51723/8	V4-080725-08.D
Level 7	IC 620-51723/9	V4-080725-09.D
Level 8	IC 620-51723/10	V4-080725-10.D
Level 9	IC 620-51723/11	V4-080725-11.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 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane (Freon 12)	FB	Ave	1722 55421	3167 115008	5804 146462	14038 287138	27638	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Chloromethane	FB	Ave	+++++ 44170	3096 88973	5062 113668	12270 218410	21956	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Vinyl chloride	FB	Ave	1093 34839	1885 72792	3522 90372	9594 171816	17692	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Bromomethane	FB	Lin1	1628 24058	2189 48395	3502 62568	7492 124609	12716	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Chloroethane	FB	Ave	549 24428	1094 47977	2474 61477	7407 116505	11607	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Ethanol	FB	Ave	+++++ 7781	+++++ 14686	+++++ 18029	1833 40673	3576	+++++ 400	+++++ 800	+++++ 1000	100 2000	200
Trichlorofluoromethane (Freon 11)	FB	Ave	+++++ 78416	4335 163218	8078 211318	21740 419709	39464	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Acetone	FB	Ave	+++++ 24212	+++++ 55828	+++++ 57847	8048 106353	14033	+++++ 20.0	+++++ 40.0	+++++ 50.0	5.00 100	10.0
Ethyl ether	FB	Ave	821 32209	1611 68004	3468 87768	8556 175971	14742	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1-Dichloroethene	FB	Ave	885 36964	1882 79072	3592 99712	9765 202923	17301	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Iodomethane	FB	Qua1	734 17622	1235 41713	1982 57532	4525 127263	8612	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
tert-Butanol	FB	Ave	+++++ 32059	1604 65963	4053 84422	8321 180824	13402	+++++ 200	10.0 400	20.0 500	50.0 1000	100
Acrylonitrile	FB	Ave	302 16438	707 34619	1893 44242	4304 86988	7646	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Methylene Chloride	FB	Lin1	+++++ 47430	3928 97831	6652 123378	13209 245020	23828	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	IS REF	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
1,1,2-Trichlorotrifluoroethane (Freon 113)	FB	Ave	1334 45398	2473 95257	4512 121342	11105 238600	20257	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Methyl acetate	FB	Ave	+++++ 30866	2240 61919	4180 79364	8397 164901	13876	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Carbon disulfide	FB	Ave	3935 129684	7317 271145	13417 343980	34598 682672	63969	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
trans-1,2-Dichloroethene	FB	Ave	999 38054	2009 81612	3789 104178	10398 207064	18551	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Methyl tert-butyl ether	FB	Ave	2349 100811	4687 218019	10299 280719	25533 572990	46486	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1-Dichloroethane	FB	Ave	1987 75715	3895 161240	8100 203468	20517 400809	37313	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
2-Butanone (MEK)	FB	Qua1	+++++ 14090	193 41307	734 +++++	3196 +++++	7497	+++++ 20.0	1.00 40.0	2.00 +++++	5.00 +++++	10.0
di-Isopropyl ether	FB	Ave	2277 108113	4716 232679	10475 294673	26463 578974	49983	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
cis-1,2-Dichloroethene	FB	Ave	1006 43758	2199 90450	4602 117118	11703 233214	21535	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Bromochloromethane	FB	Ave	479 21310	1070 44065	2285 55748	5709 111751	10349	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Chloroform	FB	Lin1	6889 96694	9134 196980	14721 249276	29969 493806	49355	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
2,2-Dichloropropane	FB	Ave	1194 44064	2337 91237	4496 117589	11589 230068	21713	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Ethyl tert-butyl ether	FB	Ave	2293 105467	4516 226329	10439 290479	26167 598620	48554	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Tetrahydrofuran	FB	Ave	+++++ 10112	415 21586	884 27741	2344 59879	4219	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2-Dichloroethane	FB	Ave	2080 69746	4055 142294	7936 179259	19765 359431	34136	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1,1-Trichloroethane	FB	Ave	1447 54020	2973 115536	5637 148117	14347 308211	25892	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1-Dichloropropene	FB	Ave	1164 52660	2398 114415	4783 148498	13171 300771	24760	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Cyclohexane	FB	Ave	1297 64178	2508 139162	5025 178923	15298 361118	30775	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Carbon tetrachloride	FB	Ave	408 17169	750 36420	1506 49788	4195 104355	7768	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Benzene	FB	Ave	5061 162166	8986 338127	17865 430215	42818 852847	78623	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	IS REF	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
Tert-amyl methyl ether	FB	Lin1	7835 92050	9902 196394	15356 247359	28635 517910	46478	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Dibromomethane	FB	Ave	754 29559	1528 61298	3463 78280	8139 159180	14373	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2-Dichloropropane	FB	Ave	940 38095	1793 80672	3990 103662	9903 210613	18130	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Trichloroethene	FB	Ave	1104 45388	2311 95826	4509 121792	11882 249016	21004	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Bromodichloromethane	FB	Lin1	2497 60232	3799 122322	7829 158045	17269 320690	29774	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,4-Dioxane	FB	Lin1	+++++ 3824	+++++ 8136	97 10060	632 25442	1360	+++++ 200	+++++ 400	20.0 500	50.0 1000	100
Methylcyclohexane	FB	Ave	1280 69524	2661 152844	5340 197240	15695 402075	32604	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
cis-1,3-Dichloropropene	FB	Ave	1139 65146	2483 143815	6217 187127	15855 388826	29521	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
4-Methyl-2-pentanone (MIBK)	FB	Lin1	+++++ 28050	886 72770	2681 85029	6719 182328	12180	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
trans-1,3-Dichloropropene	FB	Ave	1402 60970	2492 136554	5469 176473	14776 370363	27282	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1,2-Trichloroethane	FB	Ave	811 33833	1709 70731	4010 89422	9502 183905	15981	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Toluene	FB	Ave	2733 98890	5152 206927	10729 261829	26379 531639	47831	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,3-Dichloropropane	FB	Ave	1570 67544	3463 141946	7949 178690	18700 356001	32142	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Dibromochloromethane	FB	Ave	1676 48111	2767 100050	6115 128893	13679 269634	22651	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
2-Hexanone (MBK)	FB	Qua1	+++++ 24319	630 72627	2071 +++++	4600 +++++	12524	+++++ 20.0	1.00 40.0	2.00 +++++	5.00 +++++	10.0
1,2-Dibromoethane (EDB)	FB	Ave	886 41389	1866 86767	4555 111821	10821 233173	19392	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Tetrachloroethene	FB	Ave	1245 46503	2336 99387	4801 127744	12288 260607	22578	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	1043 42796	2203 91953	5135 117765	11695 242330	20217	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Chlorobenzene	CBNZd5	Ave	2984 105683	5835 220779	12574 281544	29952 573634	51456	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Ethylbenzene	CBNZd5	Ave	3919	7444	17395	46425	86882	0.500	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 Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	IS REF	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
			188310	410395	521769	1071711		20.0	40.0	50.0	100	
Bromoform	CBNZd5	Ave	881 35335	1721 75631	4160 98015	9575 206803	16036	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
m,p-Xylene	CBNZd5	Ave	2514 145297	4905 315813	12542 399941	33338 825633	64229	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Styrene	CBNZd5	Ave	1810 101280	3328 226353	8477 290765	23708 606856	45667	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1,2,2-Tetrachloroethane	CBNZd5	Qua1	1341 58344	2938 116765	7702 146869	16898 298157	27691	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
o-Xylene	CBNZd5	Ave	2804 159677	6004 334951	15474 421652	42113 861399	76339	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2,3-Trichloropropane	CBNZd5	Ave	1070 47152	2402 97836	5812 124364	13510 253571	21924	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
trans-1,4-Dichloro-2-butene	FB	Ave	+++++ 12877	+++++ 28235	1271 36204	3169 76278	5739	+++++ 20.0	+++++ 40.0	2.00 50.0	5.00 100	10.0
Isopropylbenzene	CBNZd5	Ave	5159 189338	9629 402616	20859 511604	50997 1057415	92096	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Bromobenzene	CBNZd5	Ave	1236 49748	2523 106574	5839 135480	14017 275279	24097	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
N-Propylbenzene	CBNZd5	Lin1	+++++ 241574	7379 518551	18838 665539	57227 1502581	108643	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
2-Chlorotoluene	CBNZd5	Ave	869 43226	1837 92062	4753 117520	12021 236612	21125	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
4-Chlorotoluene	CBNZd5	Ave	3145 150975	5909 315491	16655 402116	40839 805828	72259	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,3,5-Trimethylbenzene	CBNZd5	Ave	2762 159189	5698 345351	14071 440898	39363 912504	74219	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
tert-Butylbenzene	FB	Ave	2379 132159	5010 281627	11847 362726	33488 749984	61780	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2,4-Trimethylbenzene	CBNZd5	Ave	2645	5660	14647	40761	75416	0.500	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 Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	IS REF	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
			159867	342801	443474	905845		20.0	40.0	50.0	100	
1,3-Dichlorobenzene	CBNZd5	Ave	2212 92892	4450 196500	11454 250142	26865 511570	45886	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
sec-Butylbenzene	CBNZd5	Ave	3801 201464	8178 426944	19584 551301	54631 1131764	99132	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,4-Dichlorobenzene	DCBd4	Ave	2642 94021	5257 194972	12130 247889	27697 502548	46455	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
4-Isopropyltoluene	DCBd4	Ave	3088 167958	6226 360069	14705 464200	42549 951130	78734	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2-Dichlorobenzene	DCBd4	Ave	1977 84550	4088 177978	10186 226043	24317 465807	40714	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
n-Butylbenzene	DCBd4	Ave	2689 154874	5637 330041	13083 424690	37732 861244	72309	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	284 12540	592 25594	1528 31893	3474 67704	5703	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,3,5-Trichlorobenzene	DCBd4	Ave	1361 60600	2824 133195	6719 167125	16761 350189	28810	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2,4-Trichlorobenzene	CBNZd5	Ave	980 50247	1932 110526	5134 142022	12889 294792	22256	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Naphthalene	DCBd4	Lin1	+++++ 113290	3549 255364	9454 321617	25477 681241	46818	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Hexachlorobutadiene	DCBd4	Ave	1006 28140	1586 59411	3283 74797	8021 150971	14107	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2,3-Trichlorobenzene	DCBd4	Ave	914 44007	1741 94981	4723 119972	11794 242398	20148	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Dibromofluoromethane (Surr)	FB	Ave	116190 110065	115145 110947	112912 114402	114054 118877	109958	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	154397 142055	153261 142678	150604 144315	153663 149581	147660	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
Toluene-d8 (Surr)	FB	Ave	346591 334108	343174 336756	337106 351588	342456 368558	332821	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
4-Bromofluorobenzene (Surr)	CBNZd5	Ave	141259 137962	138374 143089	139351 146624	143316 153852	137343	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua1 = Quadratic 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-51723/3	V4-080725-03.D
Level 2	IC 620-51723/4	V4-080725-04.D
Level 3	IC 620-51723/5	V4-080725-05.D
Level 4	IC 620-51723/6	V4-080725-06.D
Level 5	IC 620-51723/7	V4-080725-07.D
Level 6	ICIS 620-51723/8	V4-080725-08.D
Level 7	IC 620-51723/9	V4-080725-09.D
Level 8	IC 620-51723/10	V4-080725-10.D
Level 9	IC 620-51723/11	V4-080725-11.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane (Freon 12)	14.4						30					
Chloromethane	+++++	27.5						30				
Vinyl chloride	16.0						30					
Bromomethane	-9.8						30					
Chloroethane	-11.2						30					
Ethanol	+++++	+++++	+++++	-2.4						30		
Trichlorofluoromethane (Freon 11)	+++++	3.4						30				
Acetone	+++++	+++++	+++++	22.4						30		
Ethyl ether	-3.5						30					
1,1-Dichloroethene	-8.1						30					
Iodomethane	10.4						30					
tert-Butanol	+++++	-5.3						30				
Acrylonitrile	-27.4						30					
Methylene Chloride	+++++	-7.3						30				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
1,1,2-Trichlorotrifluoroethane (Freon 113)	11.4						30					
Methyl acetate	+++++	29.0						30				
Carbon disulfide	11.6						30					
trans-1,2-Dichloroethene	-1.8						30					
Methyl tert-butyl ether	-10.2						30					
1,1-Dichloroethane	-1.8						30					
2-Butanone (MEK)	+++++	-3.4 +++++	+++++					30				
di-Isopropyl ether	-15.9						30					
cis-1,2-Dichloroethene	-12.0						30					
Bromochloromethane	-13.4						30					
Chloroform	-10.8						30					
2,2-Dichloropropane	2.1						30					
Ethyl tert-butyl ether	-14.3						30					
Tetrahydrofuran	+++++	-16.9						30				
1,2-Dichloroethane	8.5						30					
1,1,1-Trichloroethane	-1.0						30					
1,1-Dichloropropene	-13.4						30					
Cyclohexane	-17.3						30					
Carbon tetrachloride	-7.0						30					
Benzene	14.1						30					
Tert-amyl methyl ether	6.4						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Dibromomethane	-5.1						30					
1,2-Dichloropropane	-5.7						30					
Trichloroethene	-6.6						30					
Bromodichloromethane	-7.8						30					
1,4-Dioxane	+++++	+++++	26.2						30			
Methylcyclohexane	-23.7						30					
cis-1,3-Dichloropropene	-29.5						30					
4-Methyl-2-pentanone (MIBK)	+++++	17.5						30				
trans-1,3-Dichloropropene	-9.8						30					
1,1,2-Trichloroethane	-10.3						30					
Toluene	3.1						30					
1,3-Dichloropropane	-12.5						30					
Dibromochloromethane	21.4						30					
2-Hexanone (MBK)	+++++	-17.0 +++++	+++++					30				
1,2-Dibromoethane (EDB)	-17.1						30					
Tetrachloroethene	0.2						30					
1,1,1,2-Tetrachloroethane	-6.0						30					
Chlorobenzene	6.7						30					
Ethylbenzene	-12.5						30					
Bromoform	-3.2						30					
m,p-Xylene	-23.4						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Styrene	-22.2						30					
1,1,2,2-Tetrachloroethane	-21.8						30					
o-Xylene	-24.8						30					
1,2,3-Trichloropropane	-11.3						30					
trans-1,4-Dichloro-2-butene	+++++	+++++	-4.1						30			
Isopropylbenzene	5.3						30					
Bromobenzene	-4.2						30					
N-Propylbenzene	+++++	2.7						30				
2-Chlorotoluene	-18.5						30					
4-Chlorotoluene	-14.1						30					
1,3,5-Trimethylbenzene	-25.0						30					
tert-Butylbenzene	-26.4						30					
1,2,4-Trimethylbenzene	-28.6						30					
1,3-Dichlorobenzene	-8.0						30					
sec-Butylbenzene	-21.6						30					
1,4-Dichlorobenzene	1.5						30					
4-Isopropyltoluene	-24.0						30					
1,2-Dichlorobenzene	-11.8						30					
n-Butylbenzene	-26.8						30					
1,2-Dibromo-3-Chloropropane	-12.4						30					
1,3,5-Trichlorobenzene	-14.5						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51723

SDG No.:

Instrument ID: HPV4 GC Column: DB-VRX ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2025 08:50 Calibration End Date: 08/07/2025 11:53 Calibration ID: 10515

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
1,2,4-Trichlorobenzene	-18.9						30					
Naphthalene	+++++	20.6						30				
Hexachlorobutadiene	26.6						30					
1,2,3-Trichlorobenzene	-17.4						30					
Dibromofluoromethane (Surr)	0.1						30					
1,2-Dichloroethane-d4 (Surr)	1.6						30					
Toluene-d8 (Surr)	-1.2						30					
4-Bromofluorobenzene (Surr)	1.5						30					

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

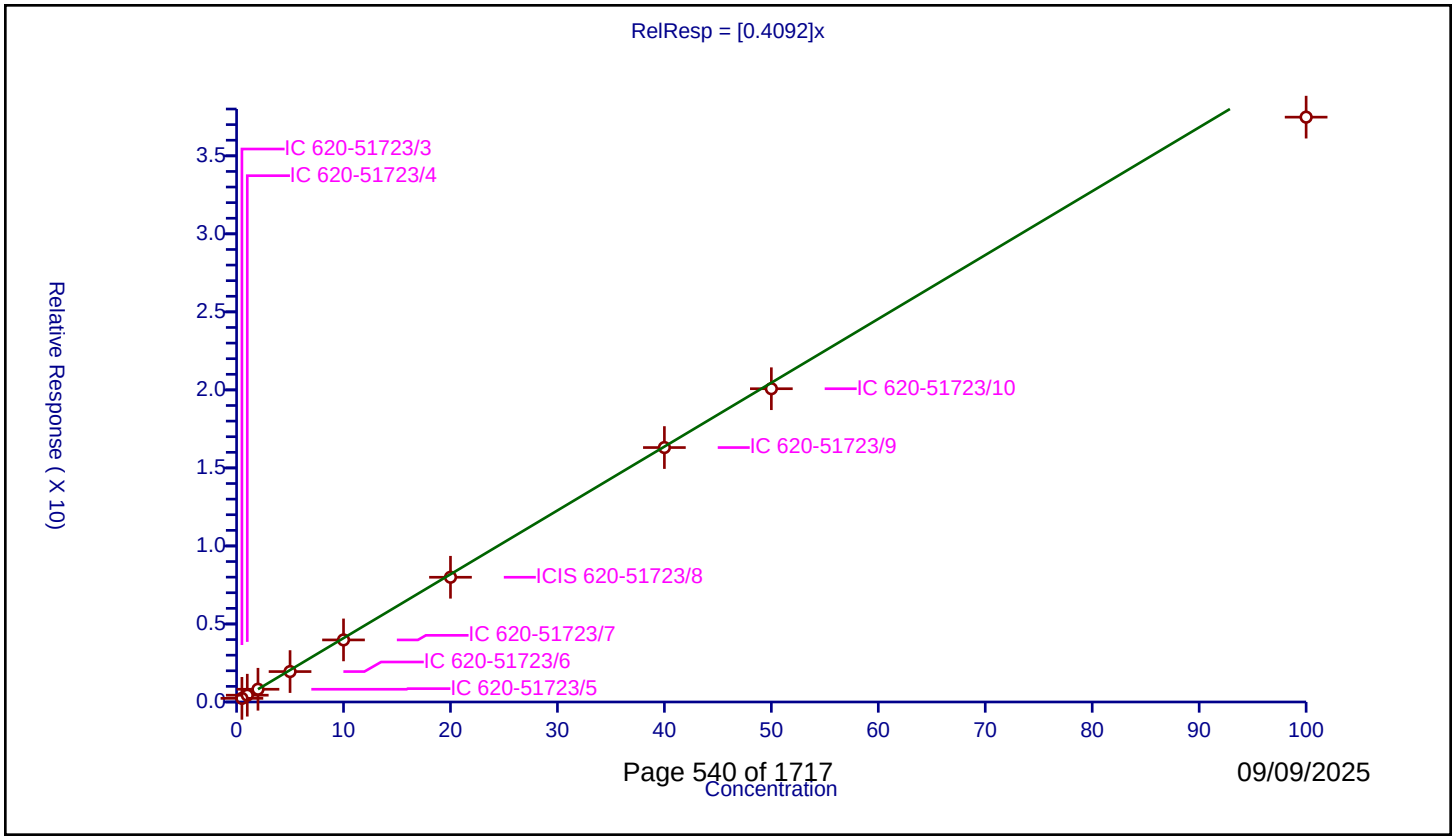
Curve Coefficients

Intercept:	0
Slope:	0.4092

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.234053	50.0	367866.0	0.468105	Y
2	IC 620-51723/4	1.0	0.435131	50.0	363913.0	0.435131	Y
3	IC 620-51723/5	2.0	0.815668	50.0	355782.0	0.407834	Y
4	IC 620-51723/6	5.0	1.94937	50.0	360065.0	0.389874	Y
5	IC 620-51723/7	10.0	3.977675	50.0	347414.0	0.397768	Y
6	ICIS 620-51723/8	20.0	7.994236	50.0	346631.0	0.399712	Y
7	IC 620-51723/9	40.0	16.305652	50.0	352663.0	0.407641	Y
8	IC 620-51723/10	50.0	20.076103	50.0	364767.0	0.401522	Y
9	IC 620-51723/11	100.0	37.478627	50.0	383069.0	0.374786	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

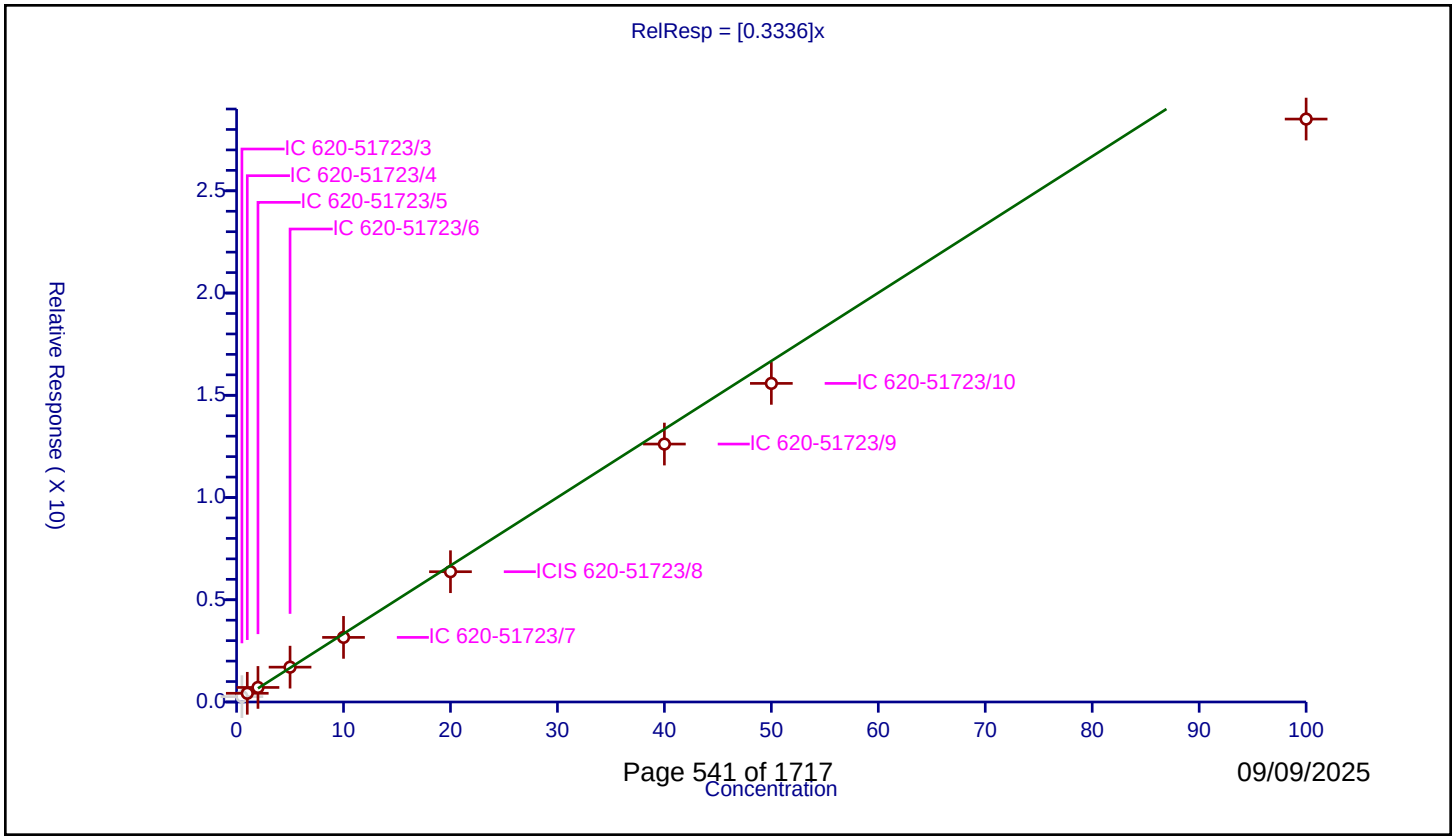
Curve Coefficients

Intercept:	0
Slope:	0.3336

Error Coefficients

Relative Standard Deviation:	12.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.263411	50.0	367866.0	0.526822	N
2	IC 620-51723/4	1.0	0.425376	50.0	363913.0	0.425376	Y
3	IC 620-51723/5	2.0	0.711391	50.0	355782.0	0.355695	Y
4	IC 620-51723/6	5.0	1.703859	50.0	360065.0	0.340772	Y
5	IC 620-51723/7	10.0	3.159919	50.0	347414.0	0.315992	Y
6	ICIS 620-51723/8	20.0	6.371329	50.0	346631.0	0.318566	Y
7	IC 620-51723/9	40.0	12.614451	50.0	352663.0	0.315361	Y
8	IC 620-51723/10	50.0	15.580905	50.0	364767.0	0.311618	Y
9	IC 620-51723/11	100.0	28.507919	50.0	383069.0	0.285079	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

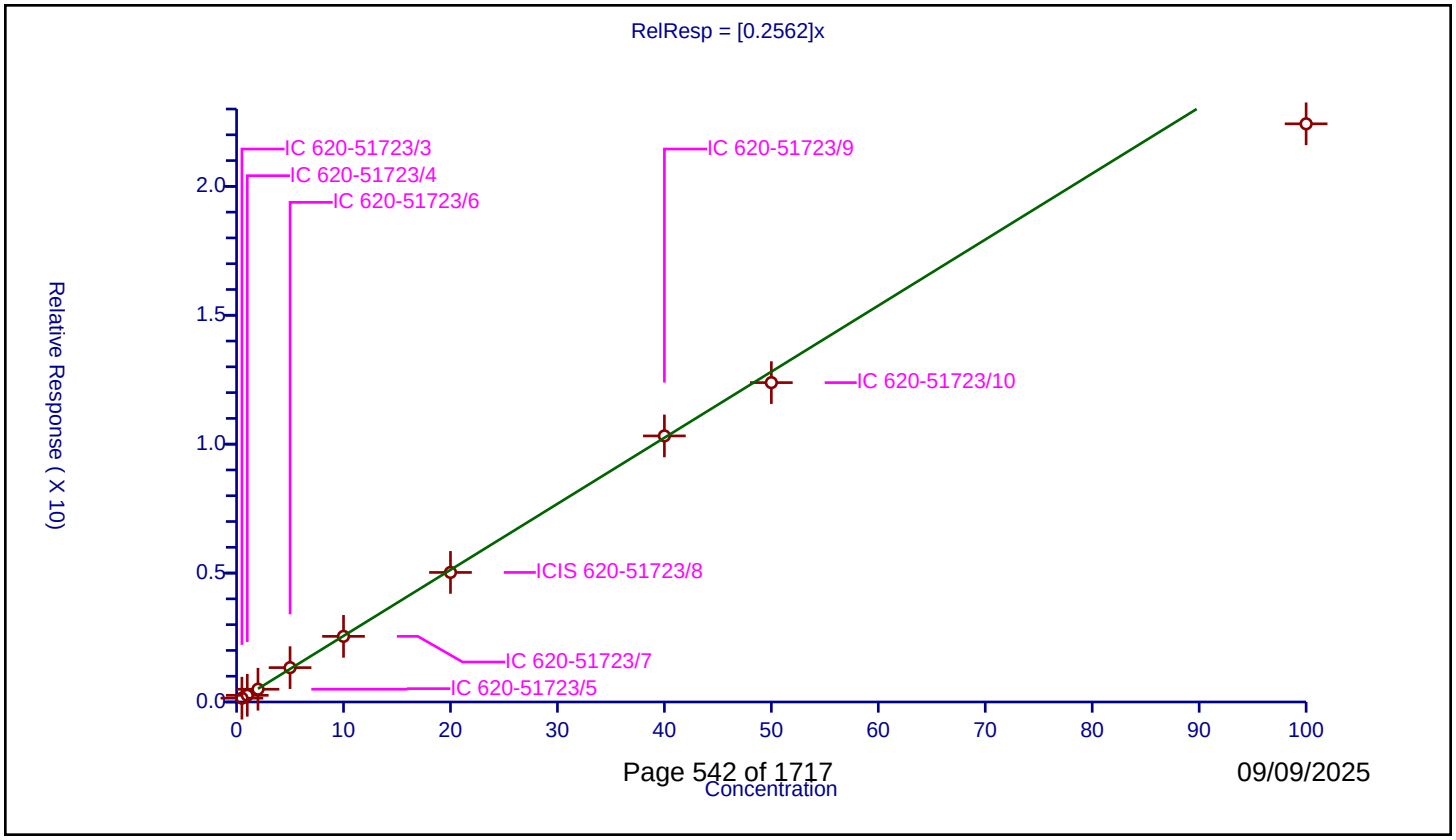
Curve Coefficients

Intercept:	0
Slope:	0.2562

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.14856	50.0	367866.0	0.297119	Y
2	IC 620-51723/4	1.0	0.25899	50.0	363913.0	0.25899	Y
3	IC 620-51723/5	2.0	0.494966	50.0	355782.0	0.247483	Y
4	IC 620-51723/6	5.0	1.332259	50.0	360065.0	0.266452	Y
5	IC 620-51723/7	10.0	2.546242	50.0	347414.0	0.254624	Y
6	ICIS 620-51723/8	20.0	5.025373	50.0	346631.0	0.251269	Y
7	IC 620-51723/9	40.0	10.320334	50.0	352663.0	0.258008	Y
8	IC 620-51723/10	50.0	12.387634	50.0	364767.0	0.247753	Y
9	IC 620-51723/11	100.0	22.426247	50.0	383069.0	0.224262	Y



Calibration / Bromomethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

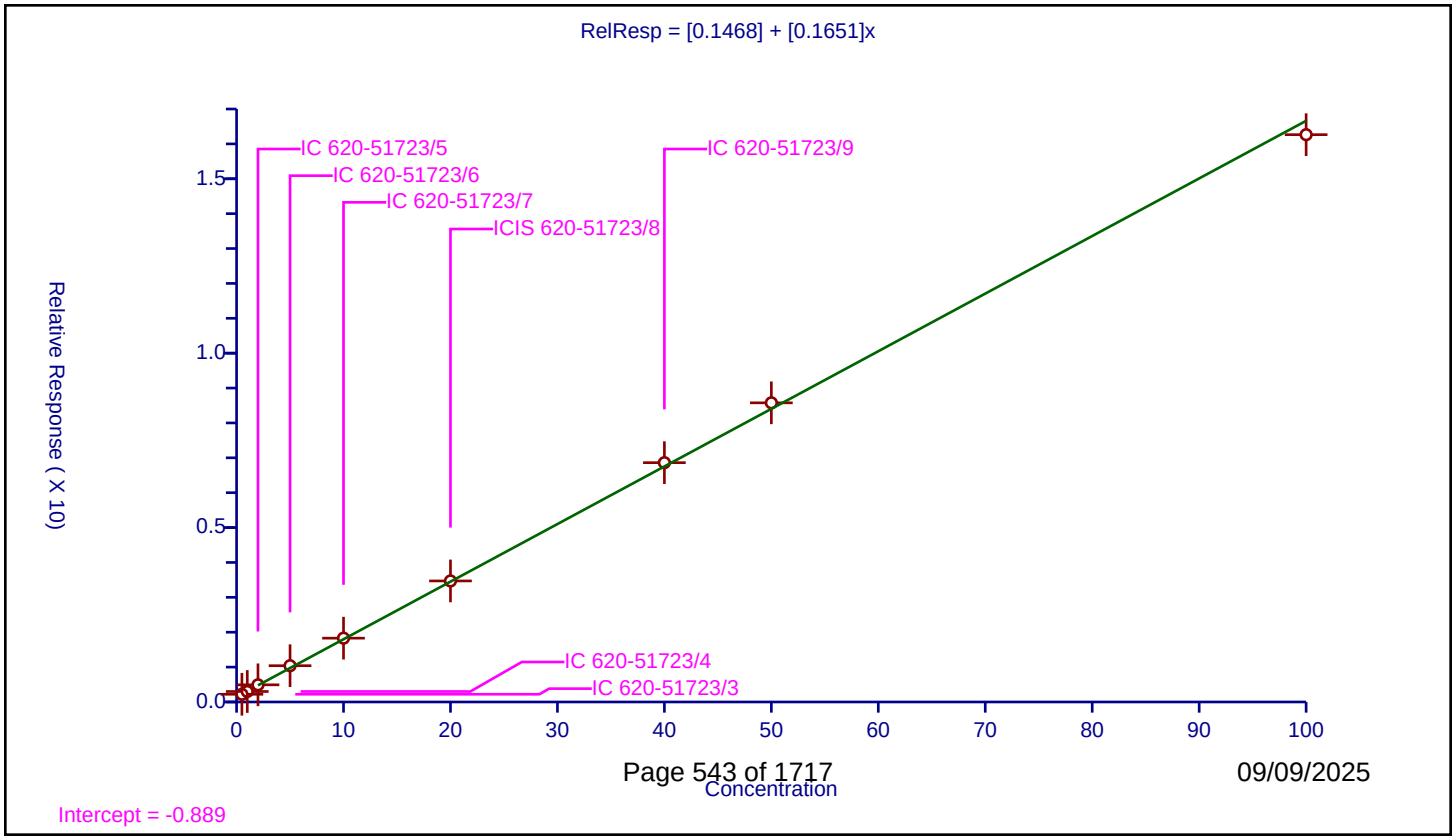
Curve Coefficients

Intercept:	0.1468
Slope:	0.1651

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.221276	50.0	367866.0	0.442552	Y
2	IC 620-51723/4	1.0	0.300759	50.0	363913.0	0.300759	Y
3	IC 620-51723/5	2.0	0.492155	50.0	355782.0	0.246078	Y
4	IC 620-51723/6	5.0	1.040368	50.0	360065.0	0.208074	Y
5	IC 620-51723/7	10.0	1.830093	50.0	347414.0	0.183009	Y
6	ICIS 620-51723/8	20.0	3.470261	50.0	346631.0	0.173513	Y
7	IC 620-51723/9	40.0	6.861366	50.0	352663.0	0.171534	Y
8	IC 620-51723/10	50.0	8.576434	50.0	364767.0	0.171529	Y
9	IC 620-51723/11	100.0	16.264563	50.0	383069.0	0.162646	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

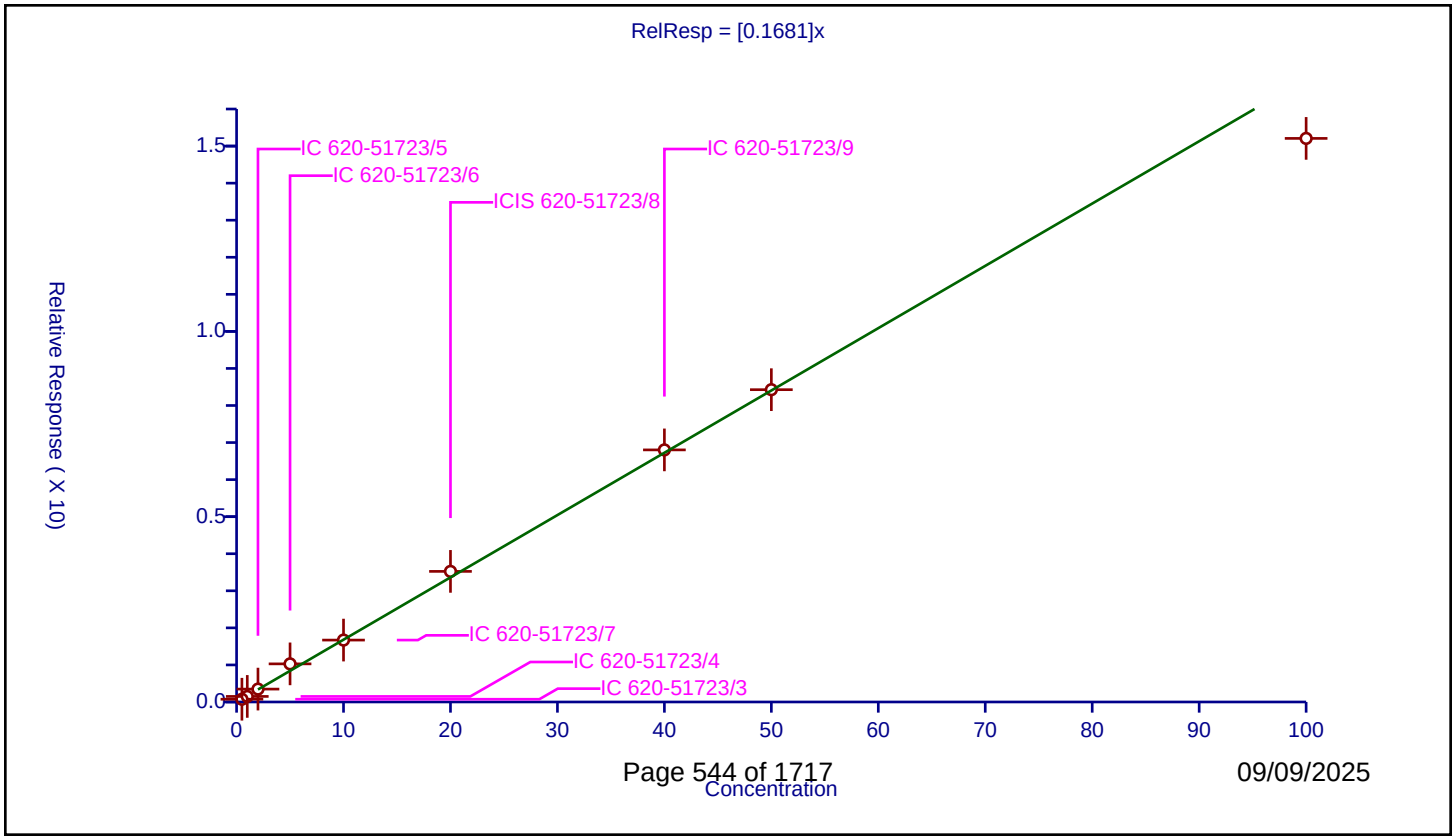
Curve Coefficients

Intercept:	0
Slope:	0.1681

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.07462	50.0	367866.0	0.149239	Y
2	IC 620-51723/4	1.0	0.150311	50.0	363913.0	0.150311	Y
3	IC 620-51723/5	2.0	0.347685	50.0	355782.0	0.173842	Y
4	IC 620-51723/6	5.0	1.028564	50.0	360065.0	0.205713	Y
5	IC 620-51723/7	10.0	1.670485	50.0	347414.0	0.167049	Y
6	ICIS 620-51723/8	20.0	3.523632	50.0	346631.0	0.176182	Y
7	IC 620-51723/9	40.0	6.802103	50.0	352663.0	0.170053	Y
8	IC 620-51723/10	50.0	8.426886	50.0	364767.0	0.168538	Y
9	IC 620-51723/11	100.0	15.20679	50.0	383069.0	0.152068	Y



Calibration / Ethanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

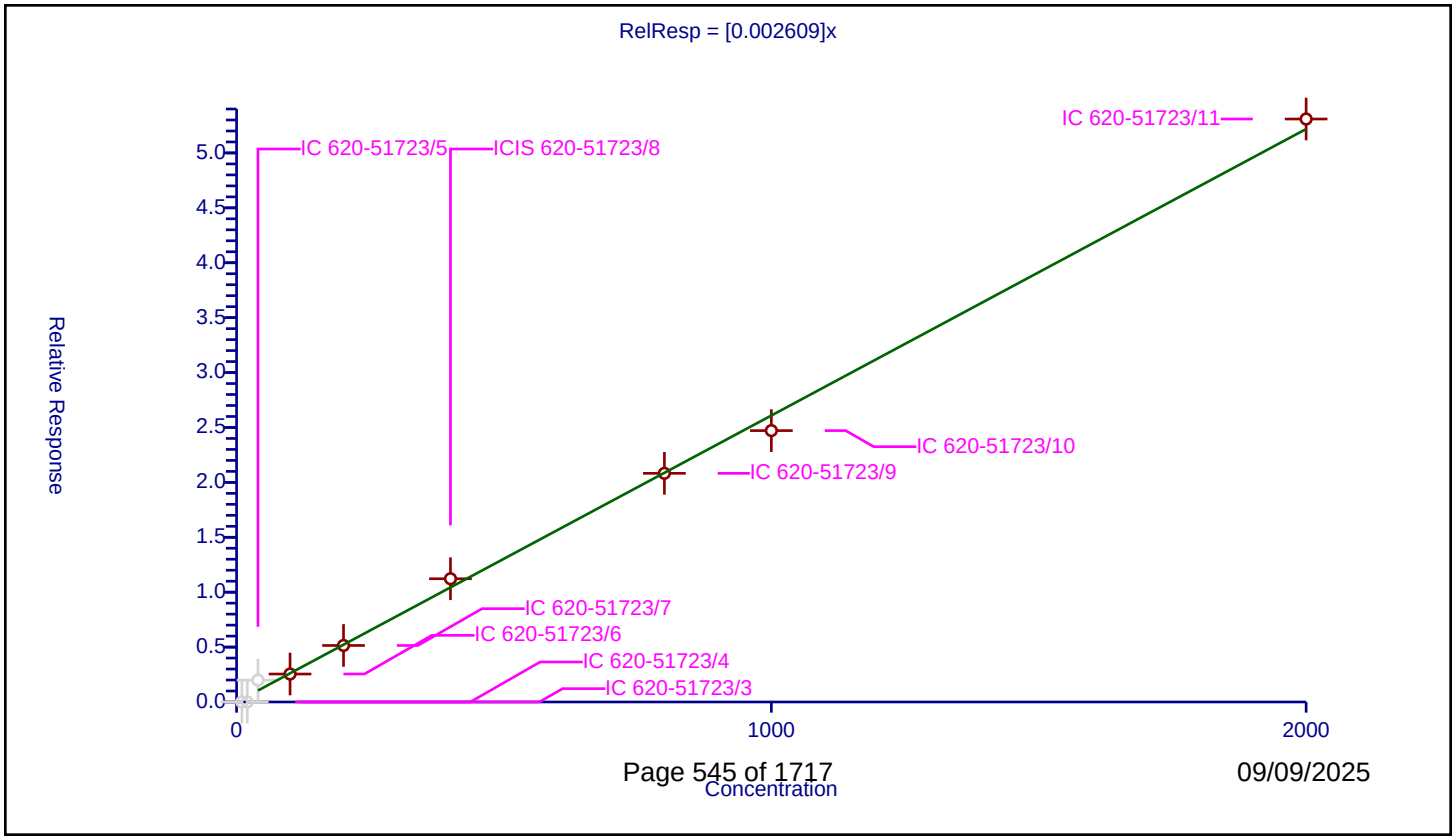
Curve Coefficients

Intercept:	0
Slope:	0.002609

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	10.0	0.0	50.0	367866.0	0.0	N
2	IC 620-51723/4	20.0	0.0	50.0	363913.0	0.0	N
3	IC 620-51723/5	40.0	0.198717	50.0	355782.0	0.004968	N
4	IC 620-51723/6	100.0	0.254537	50.0	360065.0	0.002545	Y
5	IC 620-51723/7	200.0	0.51466	50.0	347414.0	0.002573	Y
6	ICIS 620-51723/8	400.0	1.122375	50.0	346631.0	0.002806	Y
7	IC 620-51723/9	800.0	2.082158	50.0	352663.0	0.002603	Y
8	IC 620-51723/10	1000.0	2.471304	50.0	364767.0	0.002471	Y
9	IC 620-51723/11	2000.0	5.308835	50.0	383069.0	0.002654	Y



09/09/2025

Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

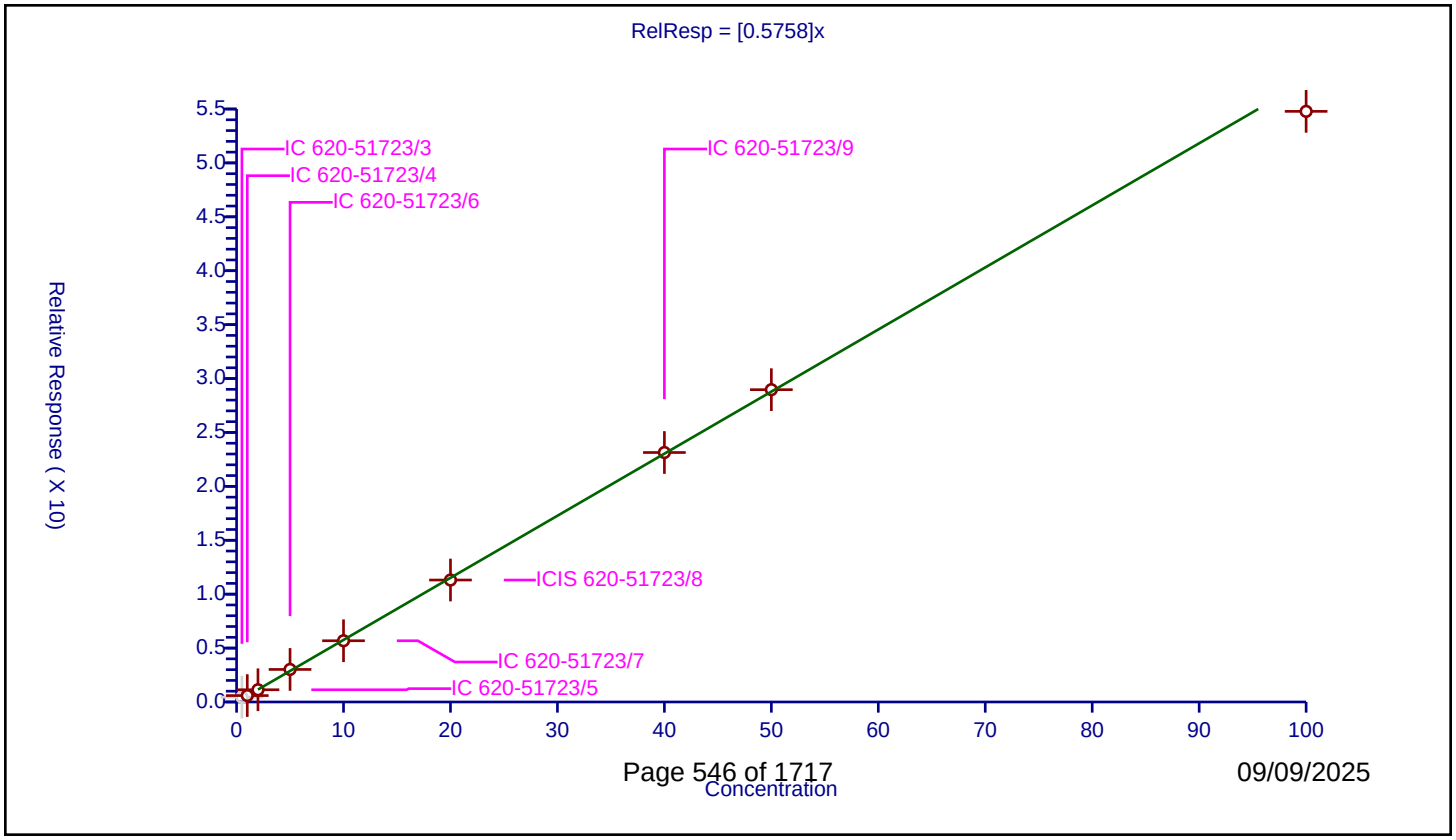
Curve Coefficients

Intercept:	0
Slope:	0.5758

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.448805	50.0	367866.0	0.897609	N
2	IC 620-51723/4	1.0	0.595609	50.0	363913.0	0.595609	Y
3	IC 620-51723/5	2.0	1.135246	50.0	355782.0	0.567623	Y
4	IC 620-51723/6	5.0	3.018899	50.0	360065.0	0.60378	Y
5	IC 620-51723/7	10.0	5.679679	50.0	347414.0	0.567968	Y
6	ICIS 620-51723/8	20.0	11.311164	50.0	346631.0	0.565558	Y
7	IC 620-51723/9	40.0	23.140789	50.0	352663.0	0.57852	Y
8	IC 620-51723/10	50.0	28.966162	50.0	364767.0	0.579323	Y
9	IC 620-51723/11	100.0	54.782428	50.0	383069.0	0.547824	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

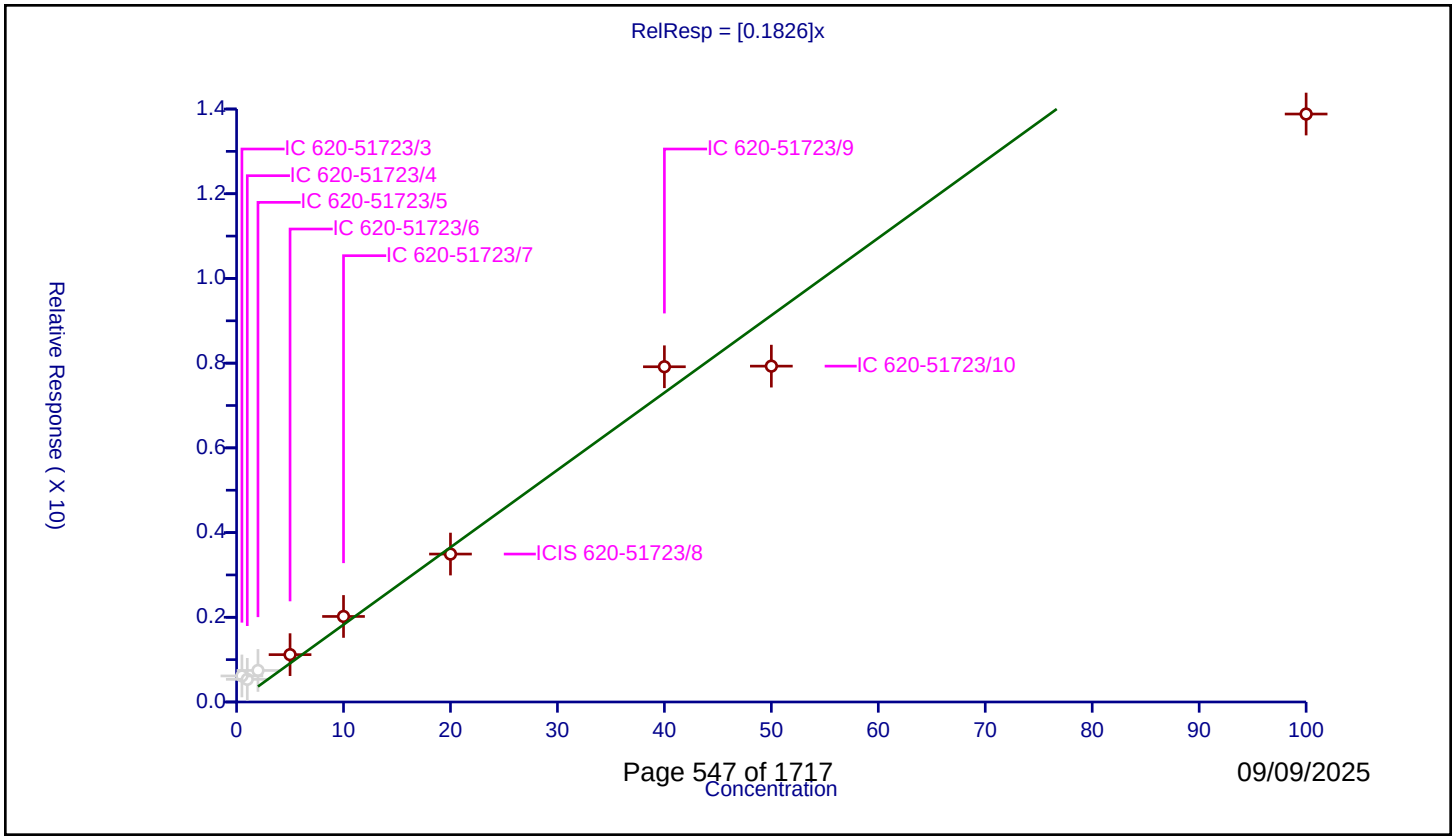
Curve Coefficients

Intercept:	0
Slope:	0.1826

Error Coefficients

Relative Standard Deviation:	17.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.615034	50.0	367866.0	1.230067	N
2	IC 620-51723/4	1.0	0.535018	50.0	363913.0	0.535018	N
3	IC 620-51723/5	2.0	0.744698	50.0	355782.0	0.372349	N
4	IC 620-51723/6	5.0	1.117576	50.0	360065.0	0.223515	Y
5	IC 620-51723/7	10.0	2.019637	50.0	347414.0	0.201964	Y
6	ICIS 620-51723/8	20.0	3.492475	50.0	346631.0	0.174624	Y
7	IC 620-51723/9	40.0	7.915205	50.0	352663.0	0.19788	Y
8	IC 620-51723/10	50.0	7.929308	50.0	364767.0	0.158586	Y
9	IC 620-51723/11	100.0	13.881703	50.0	383069.0	0.138817	Y



09/09/2025

Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

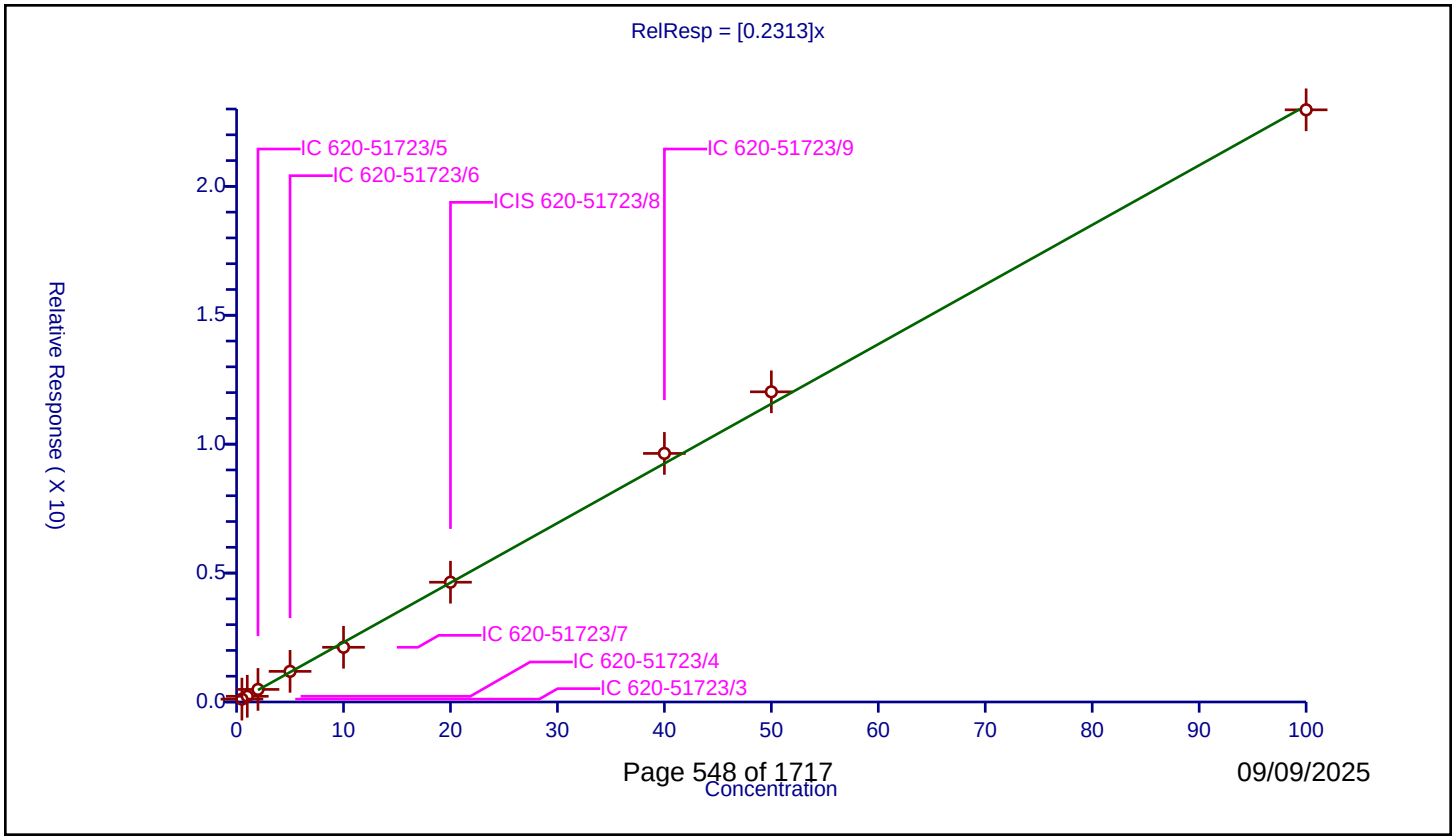
Curve Coefficients

Intercept:	0
Slope:	0.2313

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.11159	50.0	367866.0	0.223179	Y
2	IC 620-51723/4	1.0	0.221344	50.0	363913.0	0.221344	Y
3	IC 620-51723/5	2.0	0.487377	50.0	355782.0	0.243689	Y
4	IC 620-51723/6	5.0	1.188119	50.0	360065.0	0.237624	Y
5	IC 620-51723/7	10.0	2.121676	50.0	347414.0	0.212168	Y
6	ICIS 620-51723/8	20.0	4.646007	50.0	346631.0	0.2323	Y
7	IC 620-51723/9	40.0	9.641499	50.0	352663.0	0.241037	Y
8	IC 620-51723/10	50.0	12.030694	50.0	364767.0	0.240614	Y
9	IC 620-51723/11	100.0	22.968577	50.0	383069.0	0.229686	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

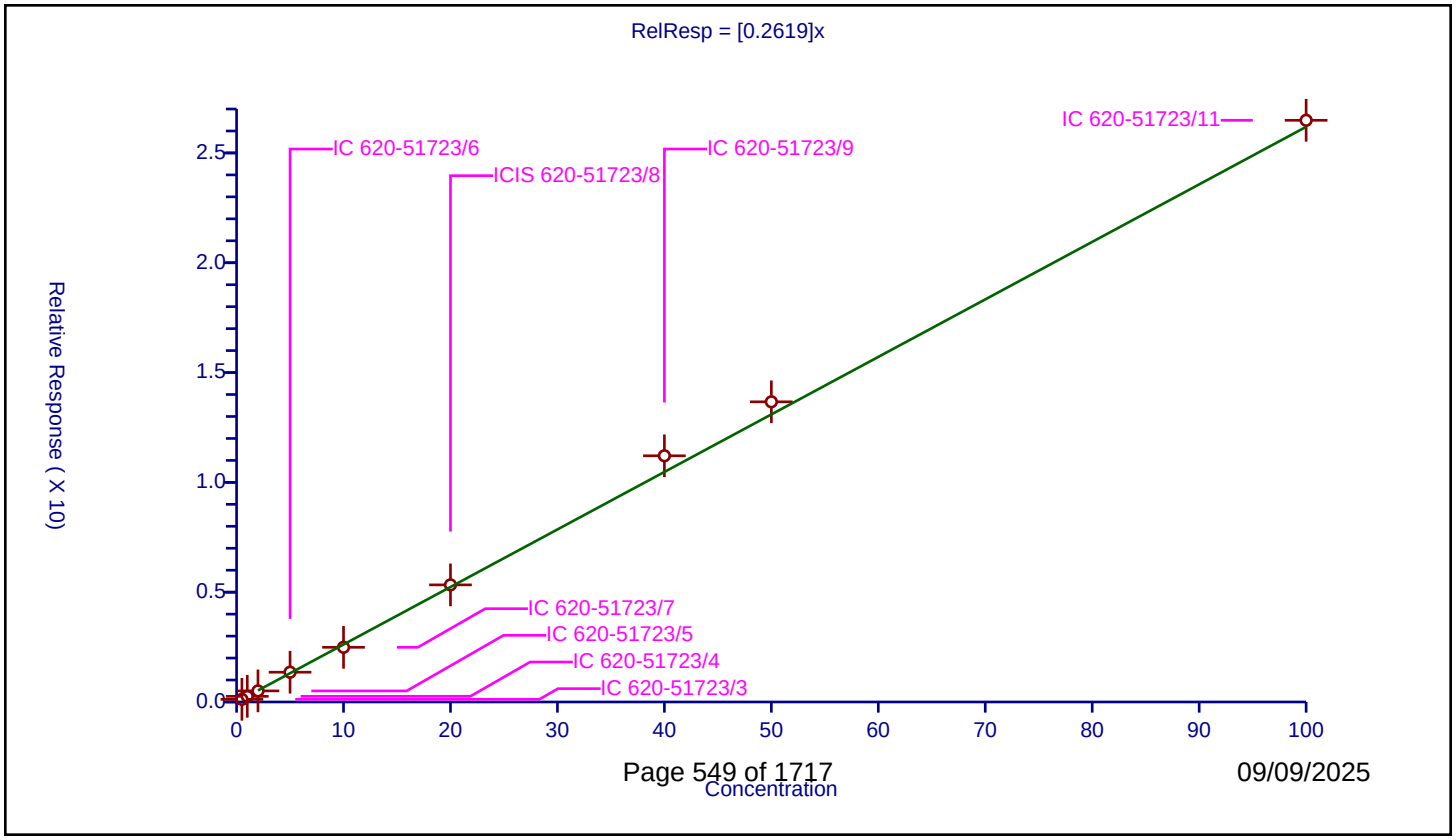
Curve Coefficients

Intercept:	0
Slope:	0.2619

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.120288	50.0	367866.0	0.240577	Y
2	IC 620-51723/4	1.0	0.258578	50.0	363913.0	0.258578	Y
3	IC 620-51723/5	2.0	0.504804	50.0	355782.0	0.252402	Y
4	IC 620-51723/6	5.0	1.356005	50.0	360065.0	0.271201	Y
5	IC 620-51723/7	10.0	2.489969	50.0	347414.0	0.248997	Y
6	ICIS 620-51723/8	20.0	5.331895	50.0	346631.0	0.266595	Y
7	IC 620-51723/9	40.0	11.210703	50.0	352663.0	0.280268	Y
8	IC 620-51723/10	50.0	13.667903	50.0	364767.0	0.273358	Y
9	IC 620-51723/11	100.0	26.486482	50.0	383069.0	0.264865	Y



Calibration / Iodomethane

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

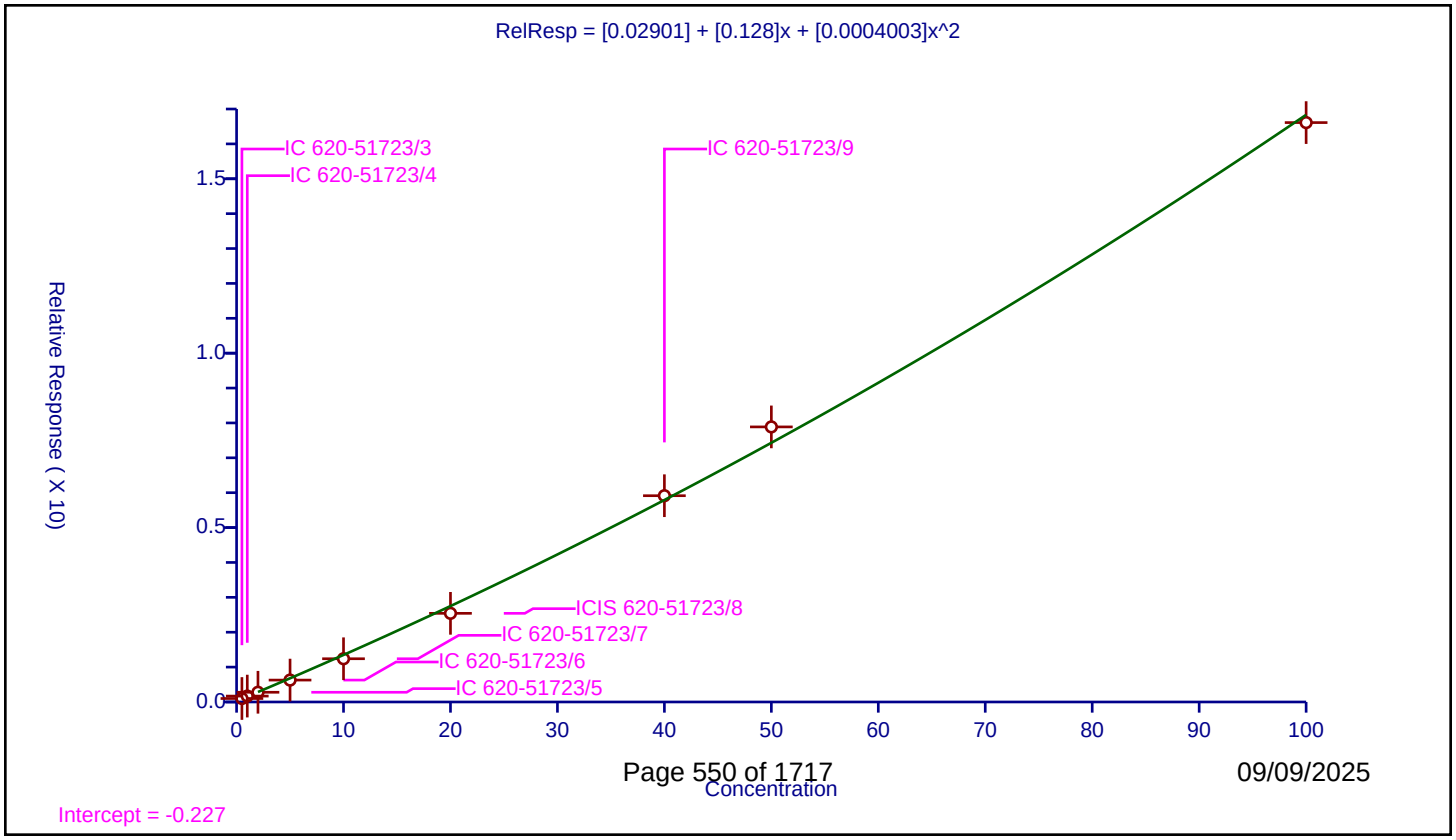
Curve Coefficients

Intercept:	0.02901
Slope:	0.128
Second Order:	0.0004003

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.099765	50.0	367866.0	0.199529	Y
2	IC 620-51723/4	1.0	0.169683	50.0	363913.0	0.169683	Y
3	IC 620-51723/5	2.0	0.278541	50.0	355782.0	0.139271	Y
4	IC 620-51723/6	5.0	0.628359	50.0	360065.0	0.125672	Y
5	IC 620-51723/7	10.0	1.239443	50.0	347414.0	0.123944	Y
6	ICIS 620-51723/8	20.0	2.541896	50.0	346631.0	0.127095	Y
7	IC 620-51723/9	40.0	5.914003	50.0	352663.0	0.14785	Y
8	IC 620-51723/10	50.0	7.88613	50.0	364767.0	0.157723	Y
9	IC 620-51723/11	100.0	16.610976	50.0	383069.0	0.16611	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

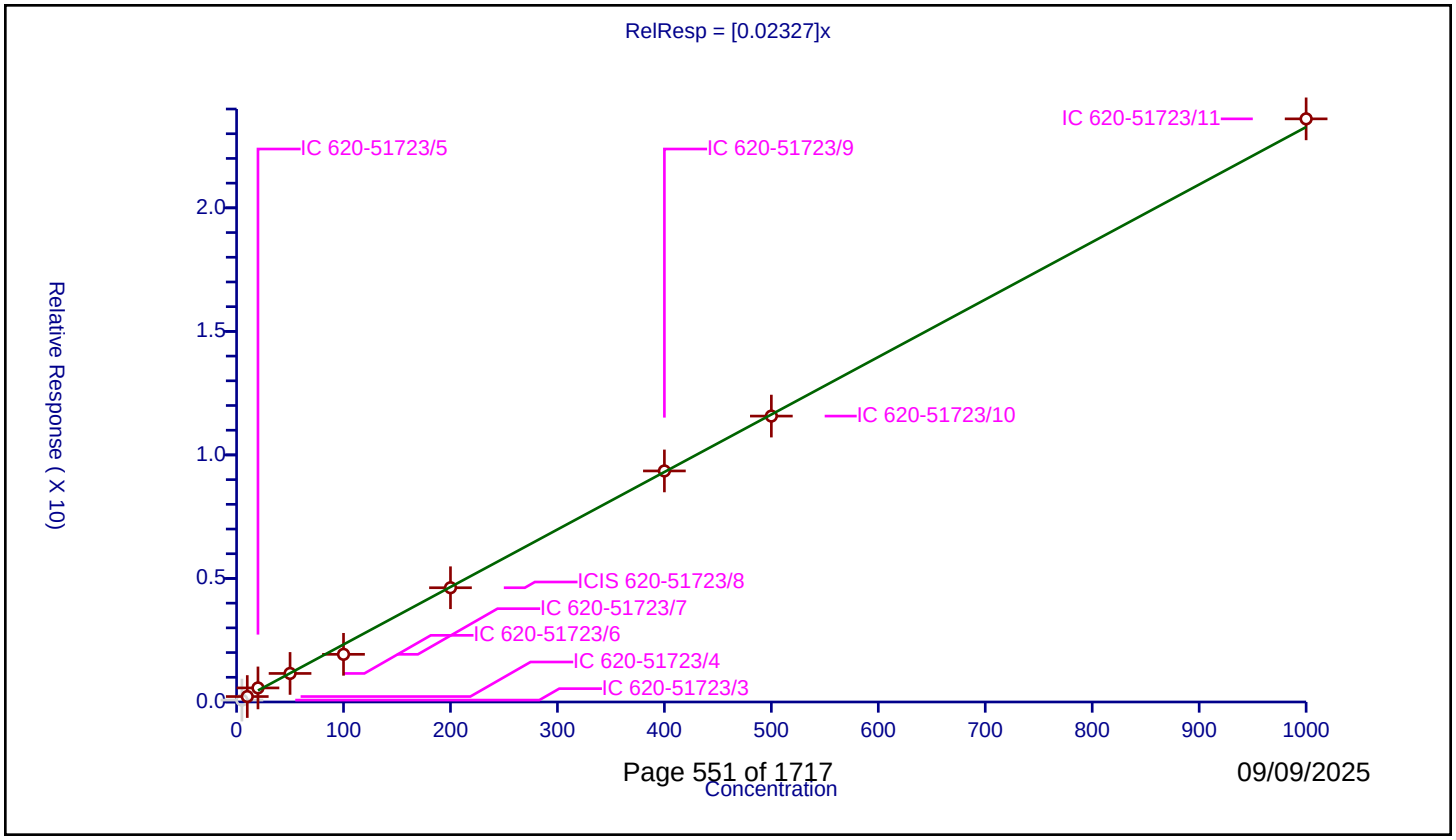
Curve Coefficients

Intercept:	0
Slope:	0.02327

Error Coefficients

Relative Standard Deviation:	10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	5.0	0.077202	50.0	367866.0	0.01544	N
2	IC 620-51723/4	10.0	0.220382	50.0	363913.0	0.022038	Y
3	IC 620-51723/5	20.0	0.56959	50.0	355782.0	0.02848	Y
4	IC 620-51723/6	50.0	1.155486	50.0	360065.0	0.02311	Y
5	IC 620-51723/7	100.0	1.928823	50.0	347414.0	0.019288	Y
6	ICIS 620-51723/8	200.0	4.62437	50.0	346631.0	0.023122	Y
7	IC 620-51723/9	400.0	9.352129	50.0	352663.0	0.02338	Y
8	IC 620-51723/10	500.0	11.572045	50.0	364767.0	0.023144	Y
9	IC 620-51723/11	1000.0	23.602014	50.0	383069.0	0.023602	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

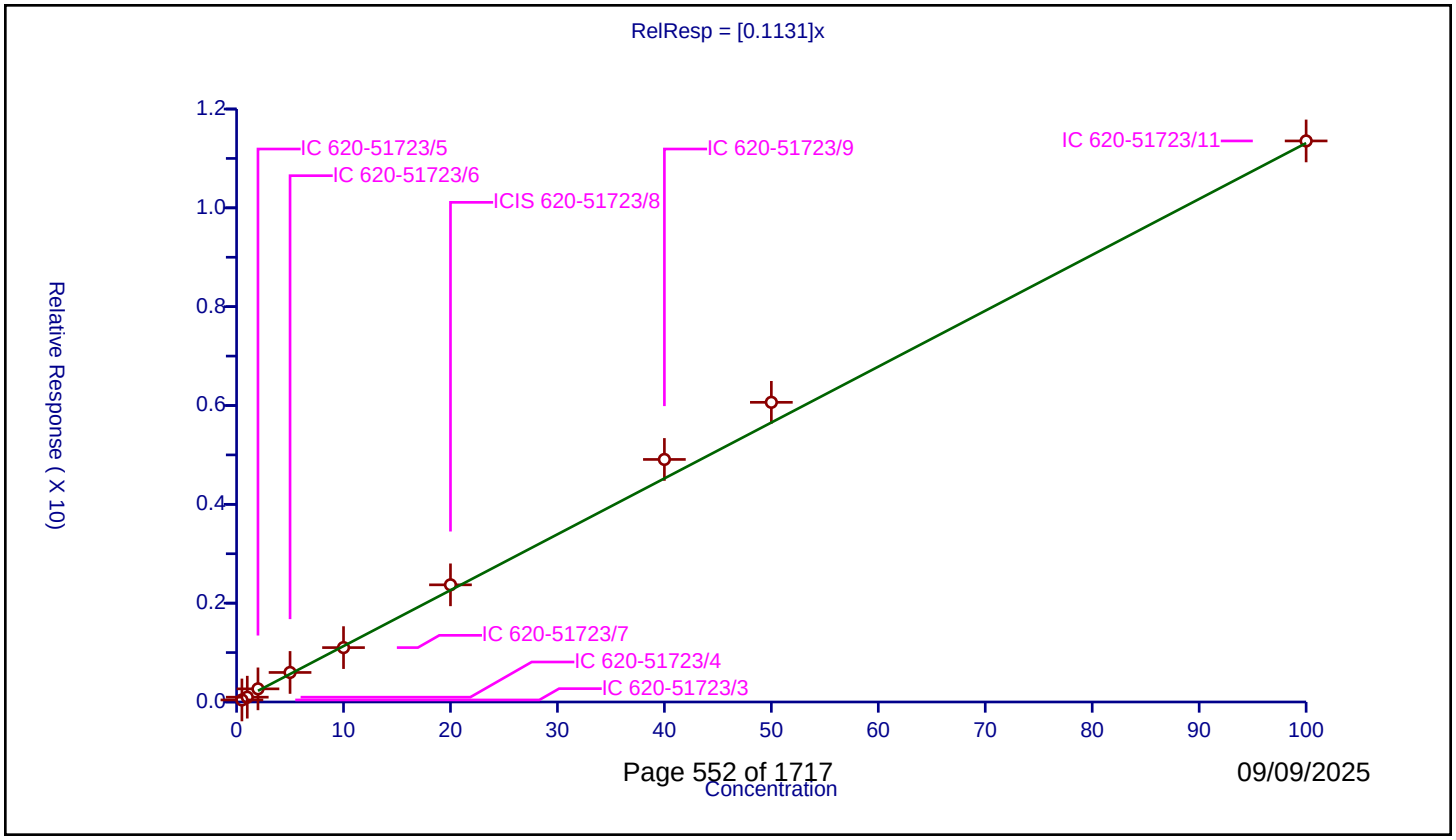
Curve Coefficients

Intercept:	0
Slope:	0.1131

Error Coefficients

Relative Standard Deviation:	13.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.041048	50.0	367866.0	0.082095	Y
2	IC 620-51723/4	1.0	0.097139	50.0	363913.0	0.097139	Y
3	IC 620-51723/5	2.0	0.266034	50.0	355782.0	0.133017	Y
4	IC 620-51723/6	5.0	0.59767	50.0	360065.0	0.119534	Y
5	IC 620-51723/7	10.0	1.100416	50.0	347414.0	0.110042	Y
6	ICIS 620-51723/8	20.0	2.371109	50.0	346631.0	0.118555	Y
7	IC 620-51723/9	40.0	4.908227	50.0	352663.0	0.122706	Y
8	IC 620-51723/10	50.0	6.064419	50.0	364767.0	0.121288	Y
9	IC 620-51723/11	100.0	11.35409	50.0	383069.0	0.113541	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

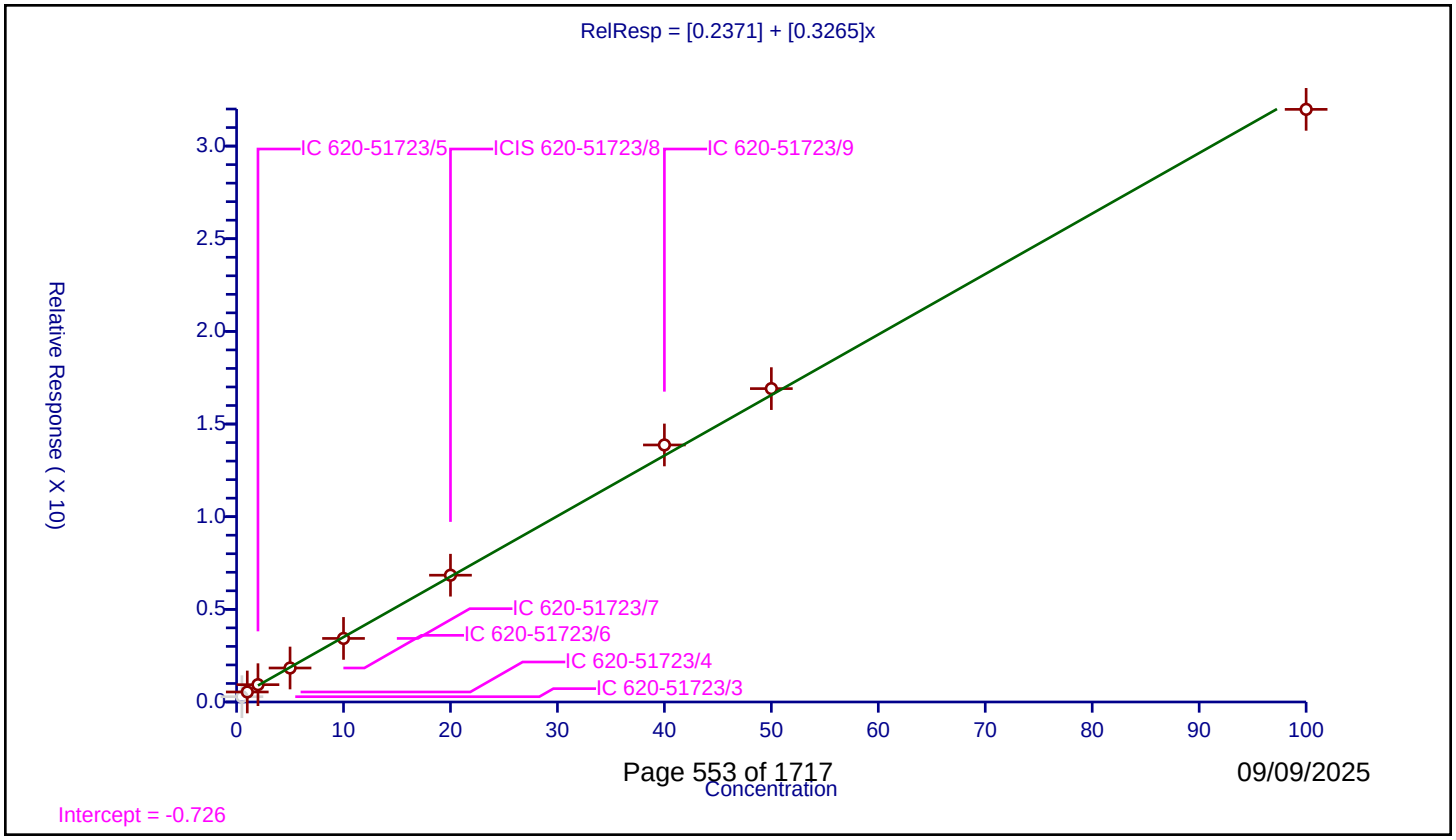
Curve Coefficients

Intercept:	0.2371
Slope:	0.3265

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.285974	50.0	367866.0	0.571947	N
2	IC 620-51723/4	1.0	0.539689	50.0	363913.0	0.539689	Y
3	IC 620-51723/5	2.0	0.934842	50.0	355782.0	0.467421	Y
4	IC 620-51723/6	5.0	1.834252	50.0	360065.0	0.36685	Y
5	IC 620-51723/7	10.0	3.429338	50.0	347414.0	0.342934	Y
6	ICIS 620-51723/8	20.0	6.841569	50.0	346631.0	0.342078	Y
7	IC 620-51723/9	40.0	13.870324	50.0	352663.0	0.346758	Y
8	IC 620-51723/10	50.0	16.911892	50.0	364767.0	0.338238	Y
9	IC 620-51723/11	100.0	31.981184	50.0	383069.0	0.319812	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

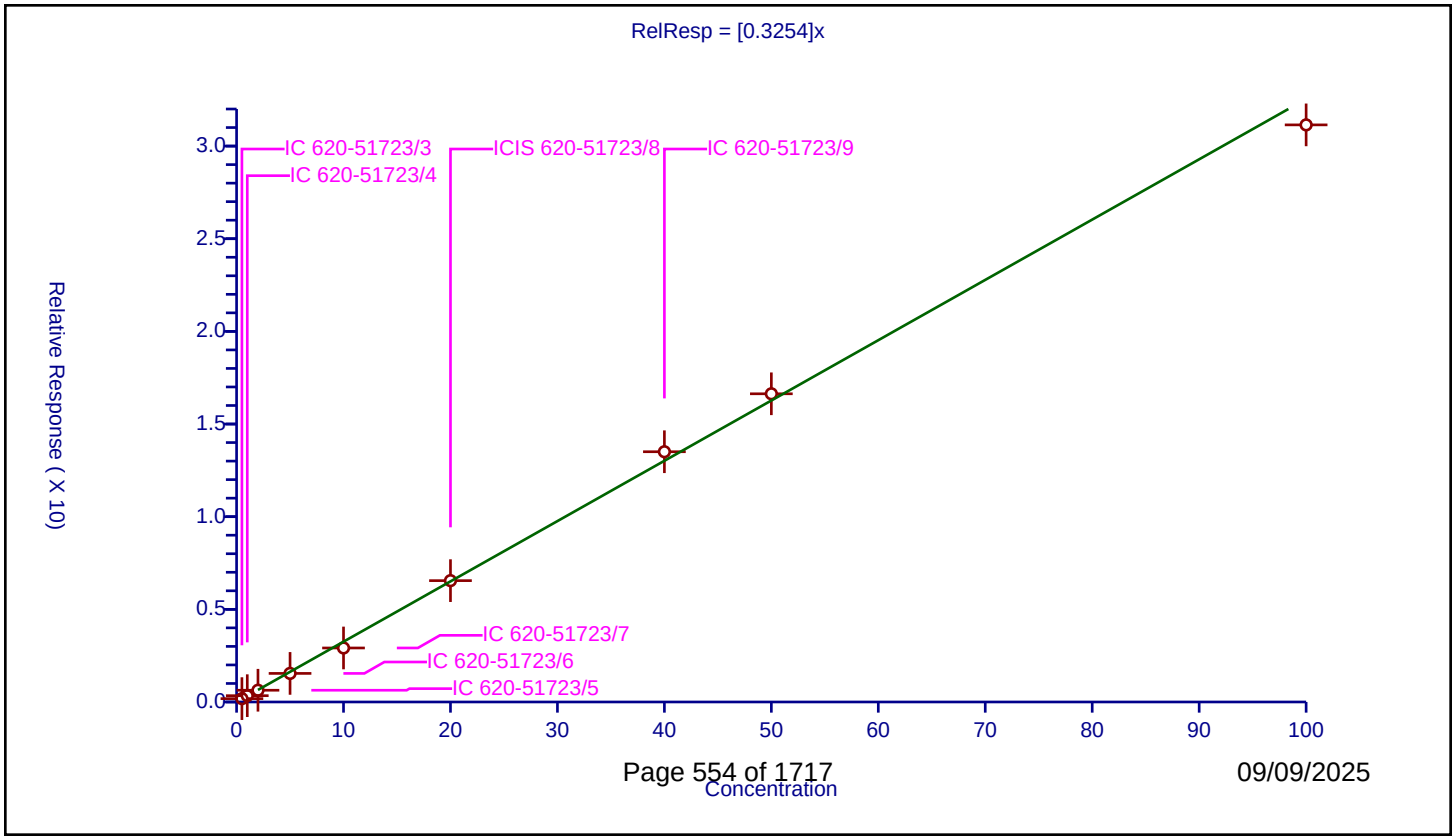
Curve Coefficients

Intercept:	0
Slope:	0.3254

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.181316	50.0	367866.0	0.362632	Y
2	IC 620-51723/4	1.0	0.339779	50.0	363913.0	0.339779	Y
3	IC 620-51723/5	2.0	0.634096	50.0	355782.0	0.317048	Y
4	IC 620-51723/6	5.0	1.542083	50.0	360065.0	0.308417	Y
5	IC 620-51723/7	10.0	2.915398	50.0	347414.0	0.29154	Y
6	ICIS 620-51723/8	20.0	6.548462	50.0	346631.0	0.327423	Y
7	IC 620-51723/9	40.0	13.505386	50.0	352663.0	0.337635	Y
8	IC 620-51723/10	50.0	16.632809	50.0	364767.0	0.332656	Y
9	IC 620-51723/11	100.0	31.143214	50.0	383069.0	0.311432	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

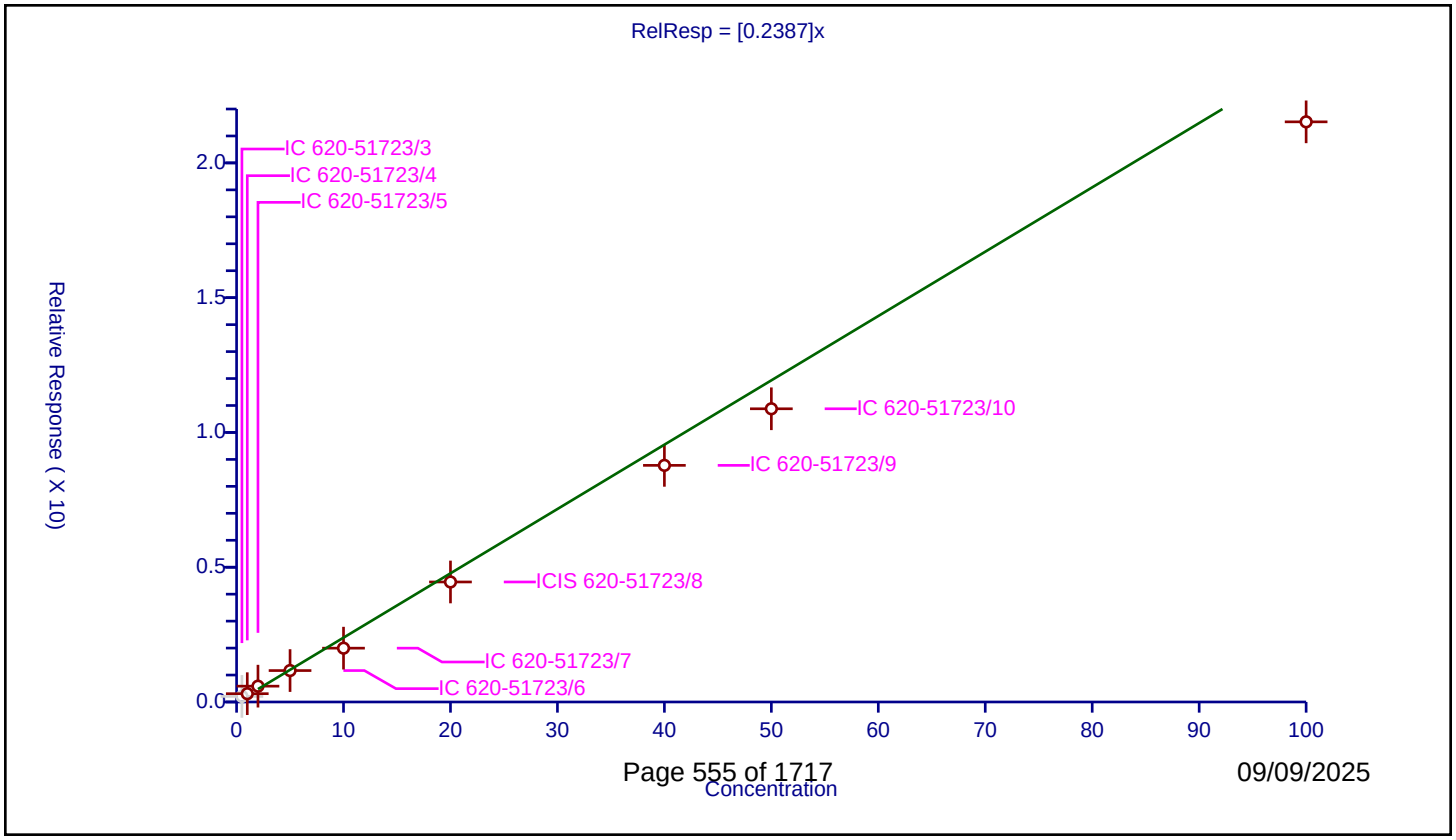
Curve Coefficients

Intercept:	0
Slope:	0.2387

Error Coefficients

Relative Standard Deviation:	16.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.207277	50.0	367866.0	0.414553	N
2	IC 620-51723/4	1.0	0.307766	50.0	363913.0	0.307766	Y
3	IC 620-51723/5	2.0	0.587438	50.0	355782.0	0.293719	Y
4	IC 620-51723/6	5.0	1.166039	50.0	360065.0	0.233208	Y
5	IC 620-51723/7	10.0	1.997041	50.0	347414.0	0.199704	Y
6	ICIS 620-51723/8	20.0	4.452285	50.0	346631.0	0.222614	Y
7	IC 620-51723/9	40.0	8.778777	50.0	352663.0	0.219469	Y
8	IC 620-51723/10	50.0	10.878725	50.0	364767.0	0.217575	Y
9	IC 620-51723/11	100.0	21.523668	50.0	383069.0	0.215237	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

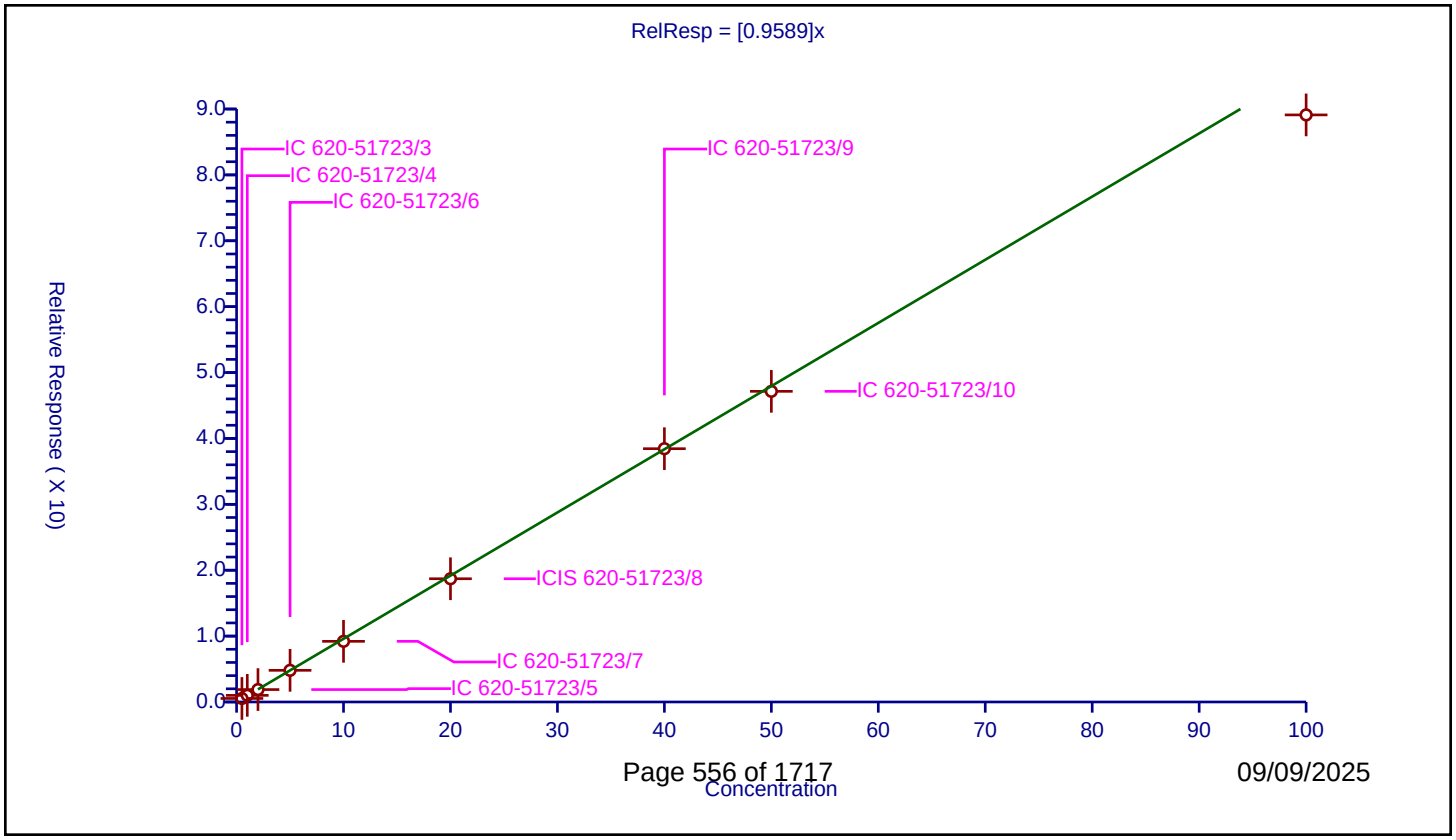
Curve Coefficients

Intercept:	0
Slope:	0.9589

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.534841	50.0	367866.0	1.069683	Y
2	IC 620-51723/4	1.0	1.005323	50.0	363913.0	1.005323	Y
3	IC 620-51723/5	2.0	1.885565	50.0	355782.0	0.942782	Y
4	IC 620-51723/6	5.0	4.80441	50.0	360065.0	0.960882	Y
5	IC 620-51723/7	10.0	9.206451	50.0	347414.0	0.920645	Y
6	ICIS 620-51723/8	20.0	18.706348	50.0	346631.0	0.935317	Y
7	IC 620-51723/9	40.0	38.442507	50.0	352663.0	0.961063	Y
8	IC 620-51723/10	50.0	47.150647	50.0	364767.0	0.943013	Y
9	IC 620-51723/11	100.0	89.105618	50.0	383069.0	0.891056	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

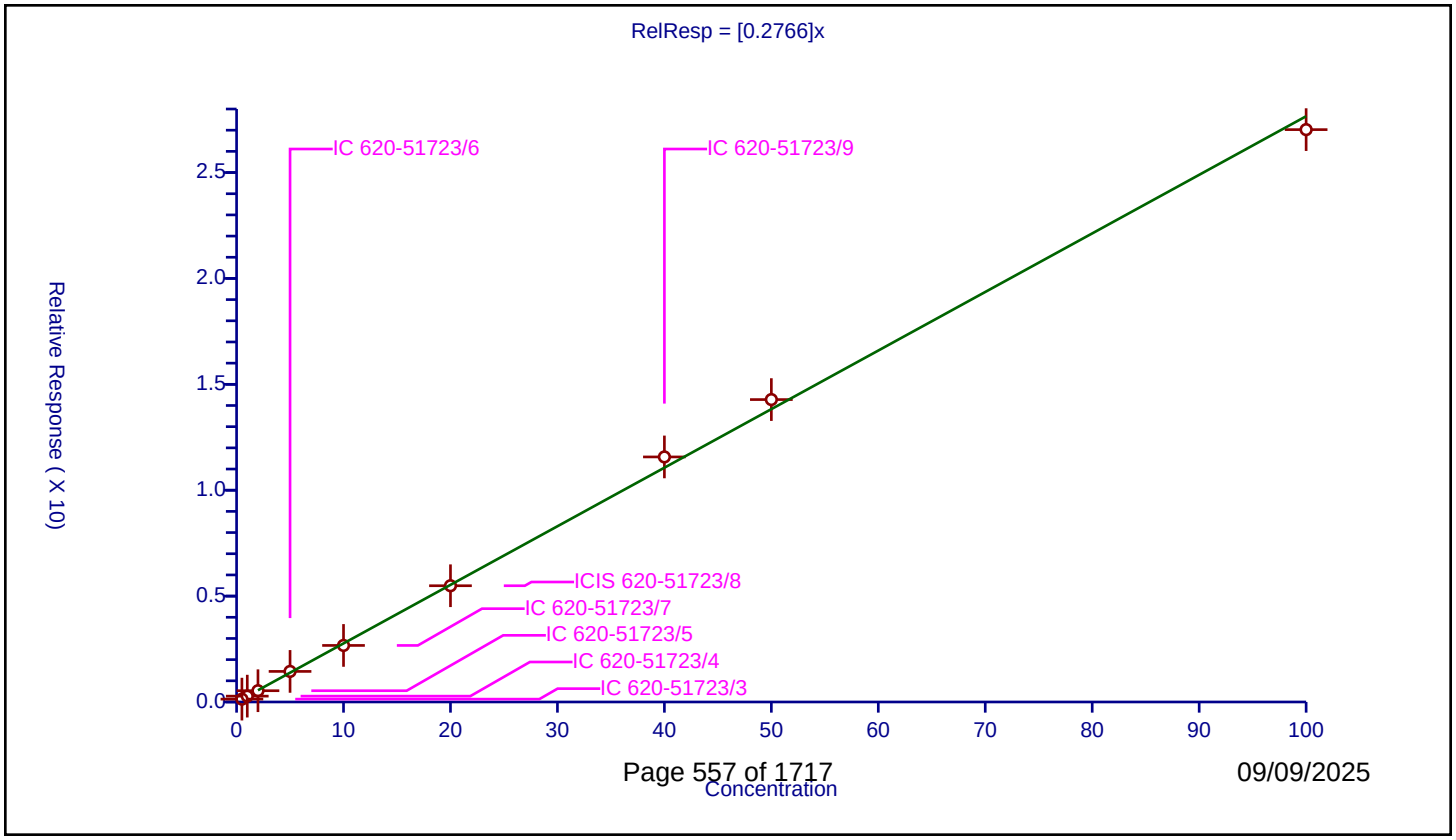
Curve Coefficients

Intercept:	0
Slope:	0.2766

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.135783	50.0	367866.0	0.271566	Y
2	IC 620-51723/4	1.0	0.276028	50.0	363913.0	0.276028	Y
3	IC 620-51723/5	2.0	0.532489	50.0	355782.0	0.266244	Y
4	IC 620-51723/6	5.0	1.443906	50.0	360065.0	0.288781	Y
5	IC 620-51723/7	10.0	2.669869	50.0	347414.0	0.266987	Y
6	ICIS 620-51723/8	20.0	5.489122	50.0	346631.0	0.274456	Y
7	IC 620-51723/9	40.0	11.57082	50.0	352663.0	0.28927	Y
8	IC 620-51723/10	50.0	14.280075	50.0	364767.0	0.285601	Y
9	IC 620-51723/11	100.0	27.026985	50.0	383069.0	0.27027	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

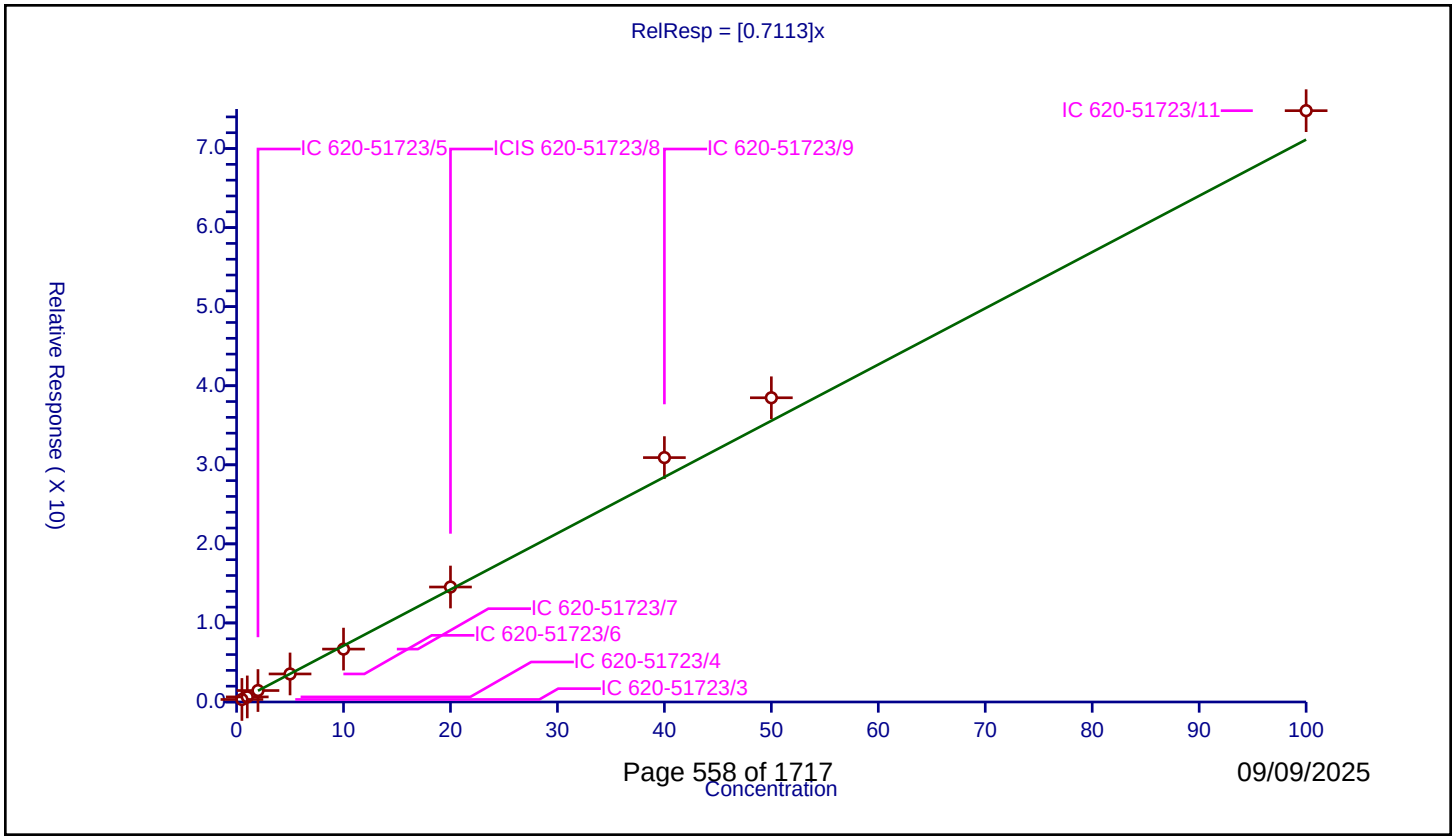
Curve Coefficients

Intercept:	0
Slope:	0.7113

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.319274	50.0	367866.0	0.638548	Y
2	IC 620-51723/4	1.0	0.643973	50.0	363913.0	0.643973	Y
3	IC 620-51723/5	2.0	1.447375	50.0	355782.0	0.723688	Y
4	IC 620-51723/6	5.0	3.54561	50.0	360065.0	0.709122	Y
5	IC 620-51723/7	10.0	6.690289	50.0	347414.0	0.669029	Y
6	ICIS 620-51723/8	20.0	14.541544	50.0	346631.0	0.727077	Y
7	IC 620-51723/9	40.0	30.910388	50.0	352663.0	0.77276	Y
8	IC 620-51723/10	50.0	38.479221	50.0	364767.0	0.769584	Y
9	IC 620-51723/11	100.0	74.789398	50.0	383069.0	0.747894	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

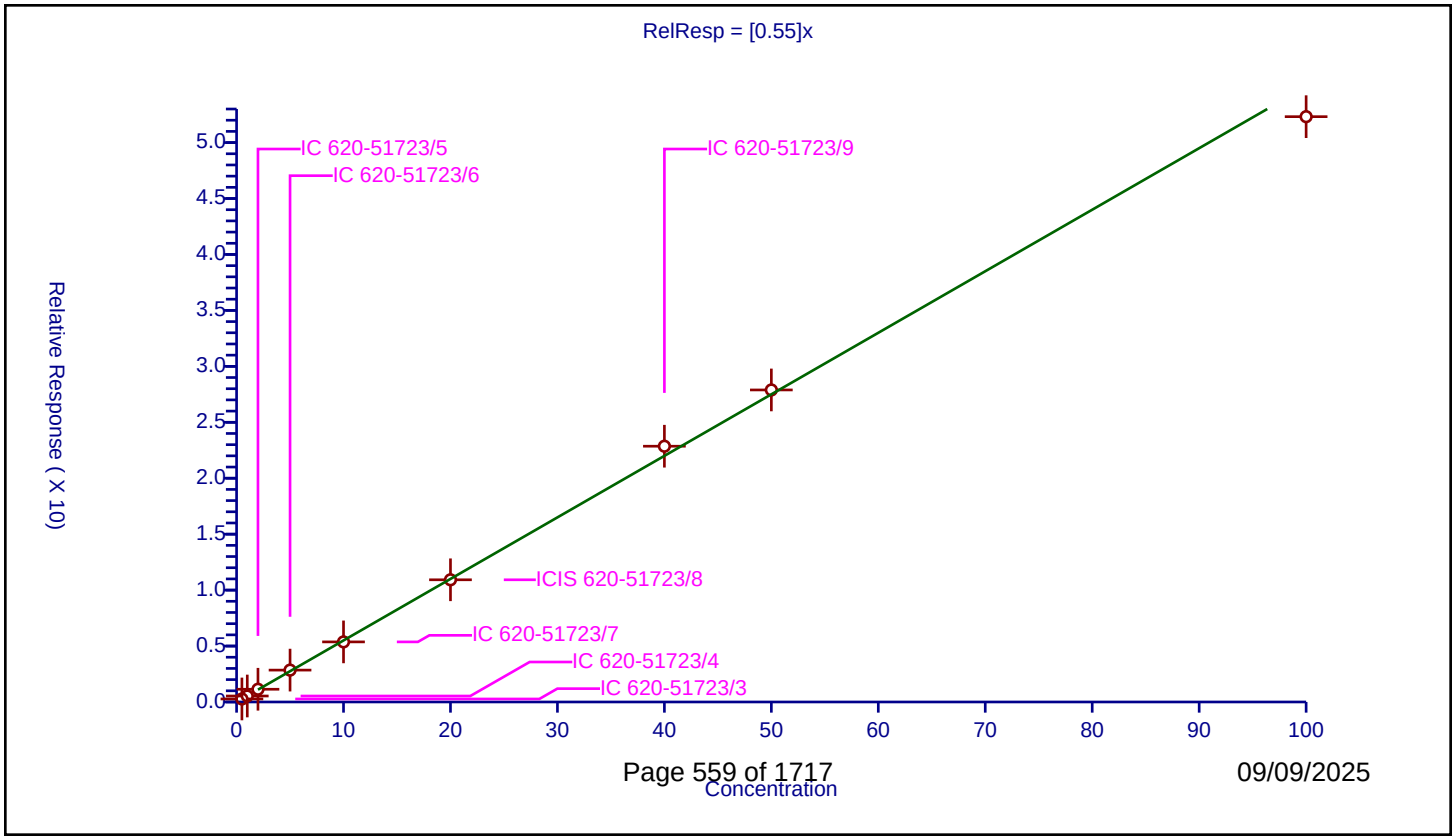
Curve Coefficients

Intercept:	0
Slope:	0.55

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.270071	50.0	367866.0	0.540142	Y
2	IC 620-51723/4	1.0	0.535155	50.0	363913.0	0.535155	Y
3	IC 620-51723/5	2.0	1.138338	50.0	355782.0	0.569169	Y
4	IC 620-51723/6	5.0	2.849069	50.0	360065.0	0.569814	Y
5	IC 620-51723/7	10.0	5.370106	50.0	347414.0	0.537011	Y
6	ICIS 620-51723/8	20.0	10.921556	50.0	346631.0	0.546078	Y
7	IC 620-51723/9	40.0	22.860351	50.0	352663.0	0.571509	Y
8	IC 620-51723/10	50.0	27.890133	50.0	364767.0	0.557803	Y
9	IC 620-51723/11	100.0	52.31551	50.0	383069.0	0.523155	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

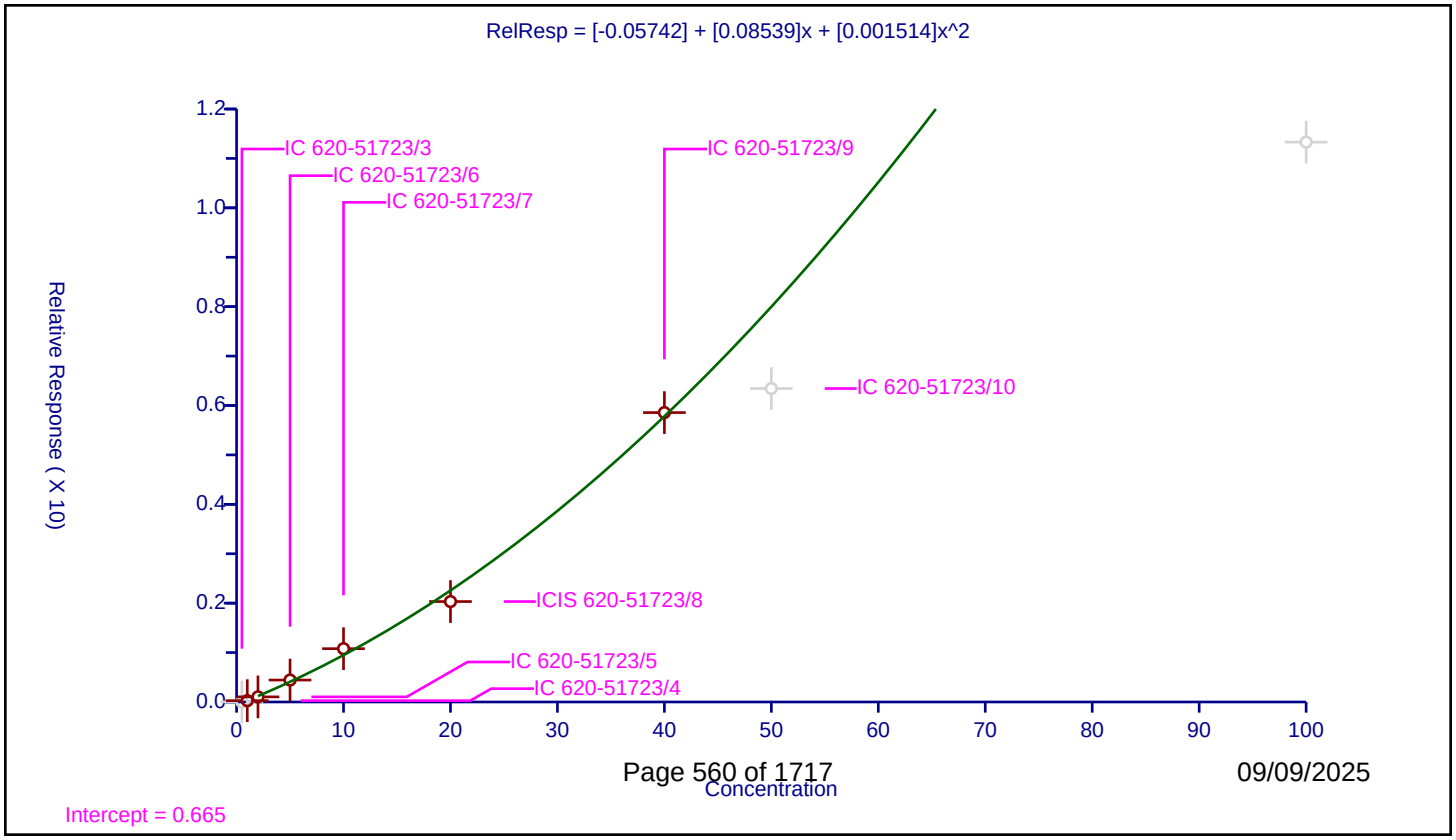
Curve Coefficients

Intercept:	-0.05742
Slope:	0.08539
Second Order:	0.001514

Error Coefficients

Relative Standard Deviation:	10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.0	50.0	367866.0	0.0	N
2	IC 620-51723/4	1.0	0.026517	50.0	363913.0	0.026517	Y
3	IC 620-51723/5	2.0	0.103153	50.0	355782.0	0.051577	Y
4	IC 620-51723/6	5.0	0.443809	50.0	360065.0	0.088762	Y
5	IC 620-51723/7	10.0	1.078972	50.0	347414.0	0.107897	Y
6	ICIS 620-51723/8	20.0	2.032421	50.0	346631.0	0.101621	Y
7	IC 620-51723/9	40.0	5.856441	50.0	352663.0	0.146411	Y
8	IC 620-51723/10	50.0	6.343501	50.0	364767.0	0.12687	N
9	IC 620-51723/11	100.0	11.329943	50.0	383069.0	0.113299	N



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

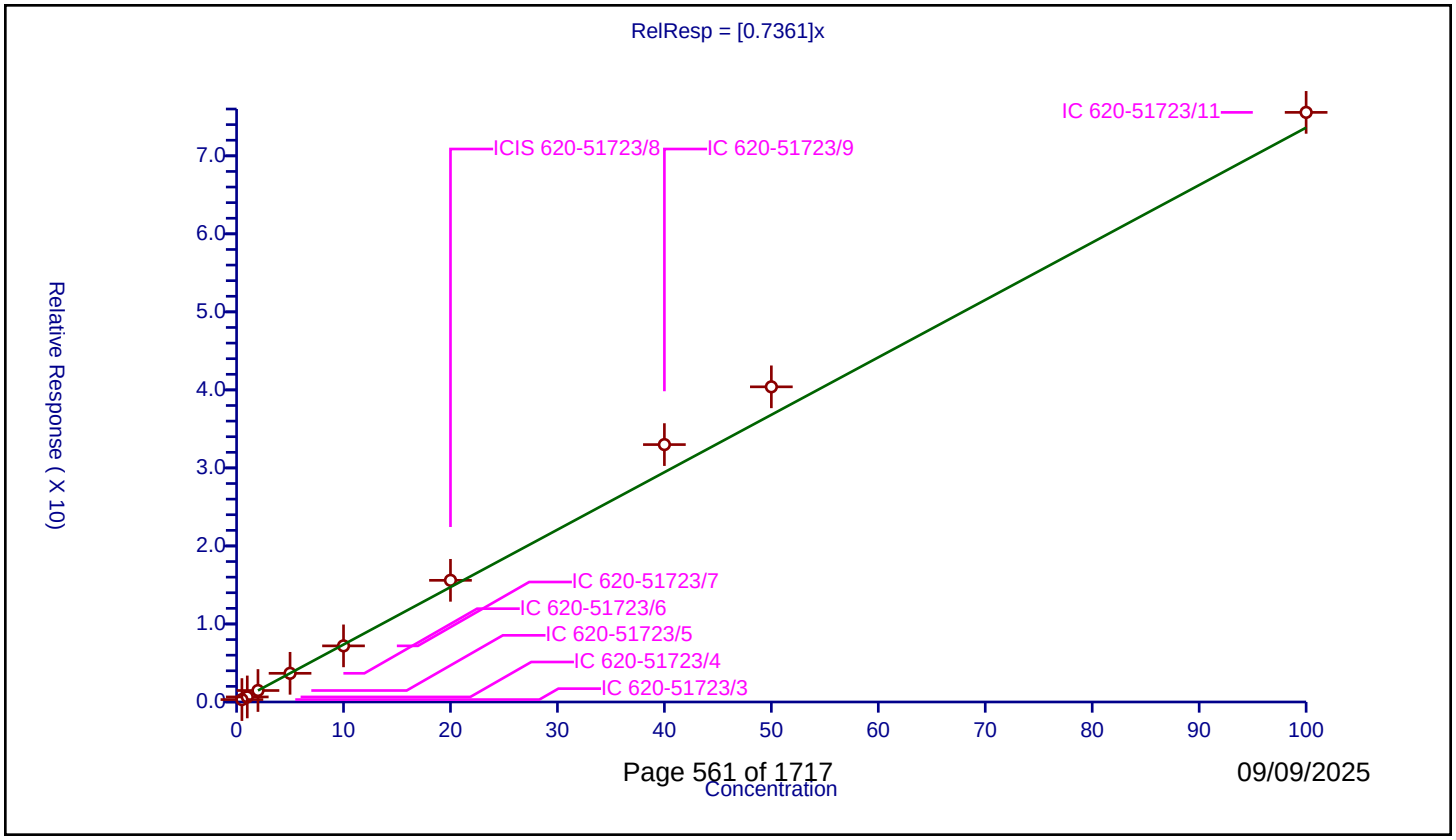
Curve Coefficients

Intercept:	0
Slope:	0.7361

Error Coefficients

Relative Standard Deviation:	9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.309488	50.0	367866.0	0.618975	Y
2	IC 620-51723/4	1.0	0.647957	50.0	363913.0	0.647957	Y
3	IC 620-51723/5	2.0	1.472109	50.0	355782.0	0.736055	Y
4	IC 620-51723/6	5.0	3.674753	50.0	360065.0	0.734951	Y
5	IC 620-51723/7	10.0	7.193579	50.0	347414.0	0.719358	Y
6	ICIS 620-51723/8	20.0	15.594826	50.0	346631.0	0.779741	Y
7	IC 620-51723/9	40.0	32.988859	50.0	352663.0	0.824721	Y
8	IC 620-51723/10	50.0	40.391949	50.0	364767.0	0.807839	Y
9	IC 620-51723/11	100.0	75.570459	50.0	383069.0	0.755705	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

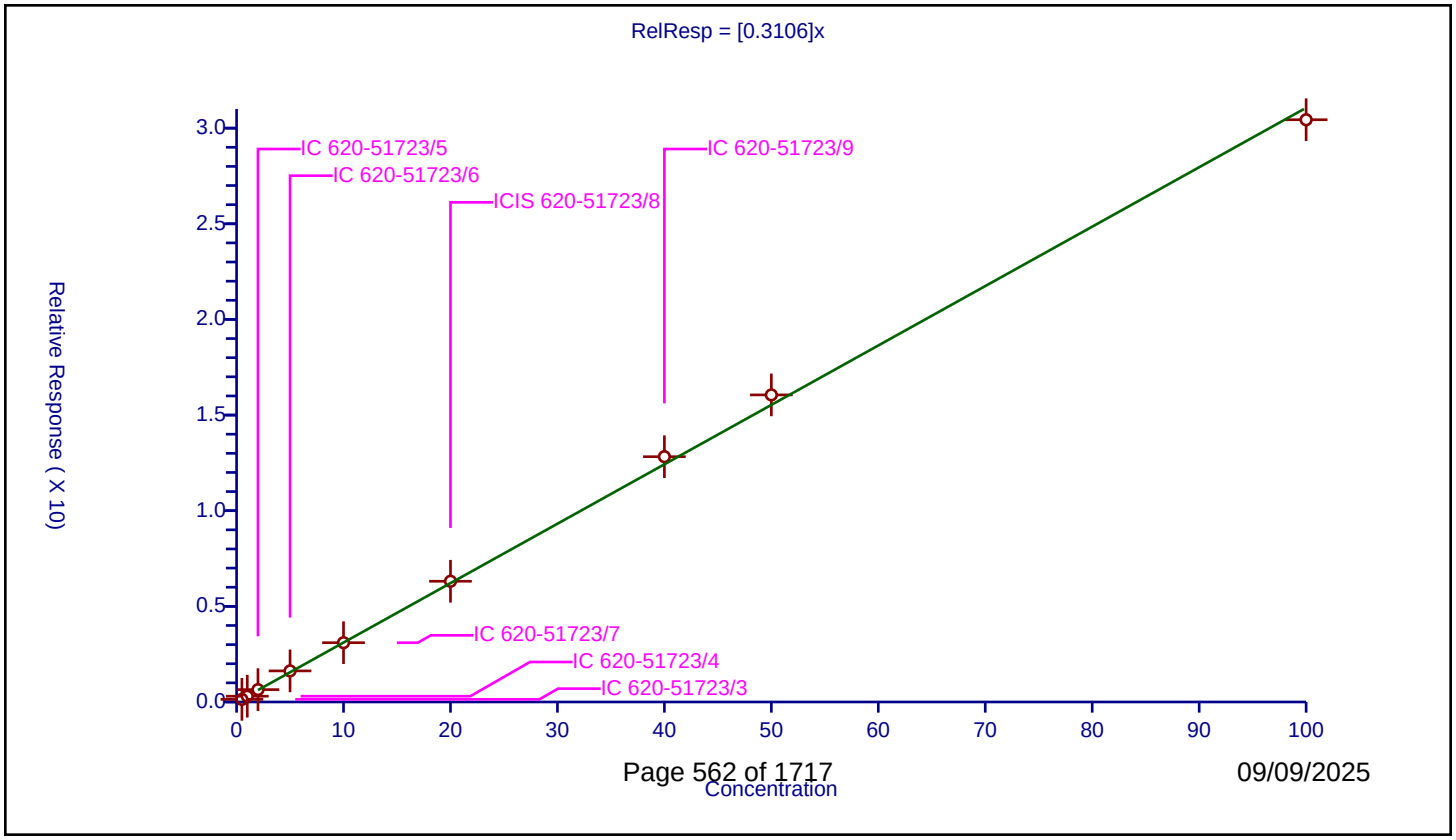
Curve Coefficients

Intercept:	0
Slope:	0.3106

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.136735	50.0	367866.0	0.273469	Y
2	IC 620-51723/4	1.0	0.302133	50.0	363913.0	0.302133	Y
3	IC 620-51723/5	2.0	0.646744	50.0	355782.0	0.323372	Y
4	IC 620-51723/6	5.0	1.625123	50.0	360065.0	0.325025	Y
5	IC 620-51723/7	10.0	3.099328	50.0	347414.0	0.309933	Y
6	ICIS 620-51723/8	20.0	6.311899	50.0	346631.0	0.315595	Y
7	IC 620-51723/9	40.0	12.823857	50.0	352663.0	0.320596	Y
8	IC 620-51723/10	50.0	16.05381	50.0	364767.0	0.321076	Y
9	IC 620-51723/11	100.0	30.440208	50.0	383069.0	0.304402	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

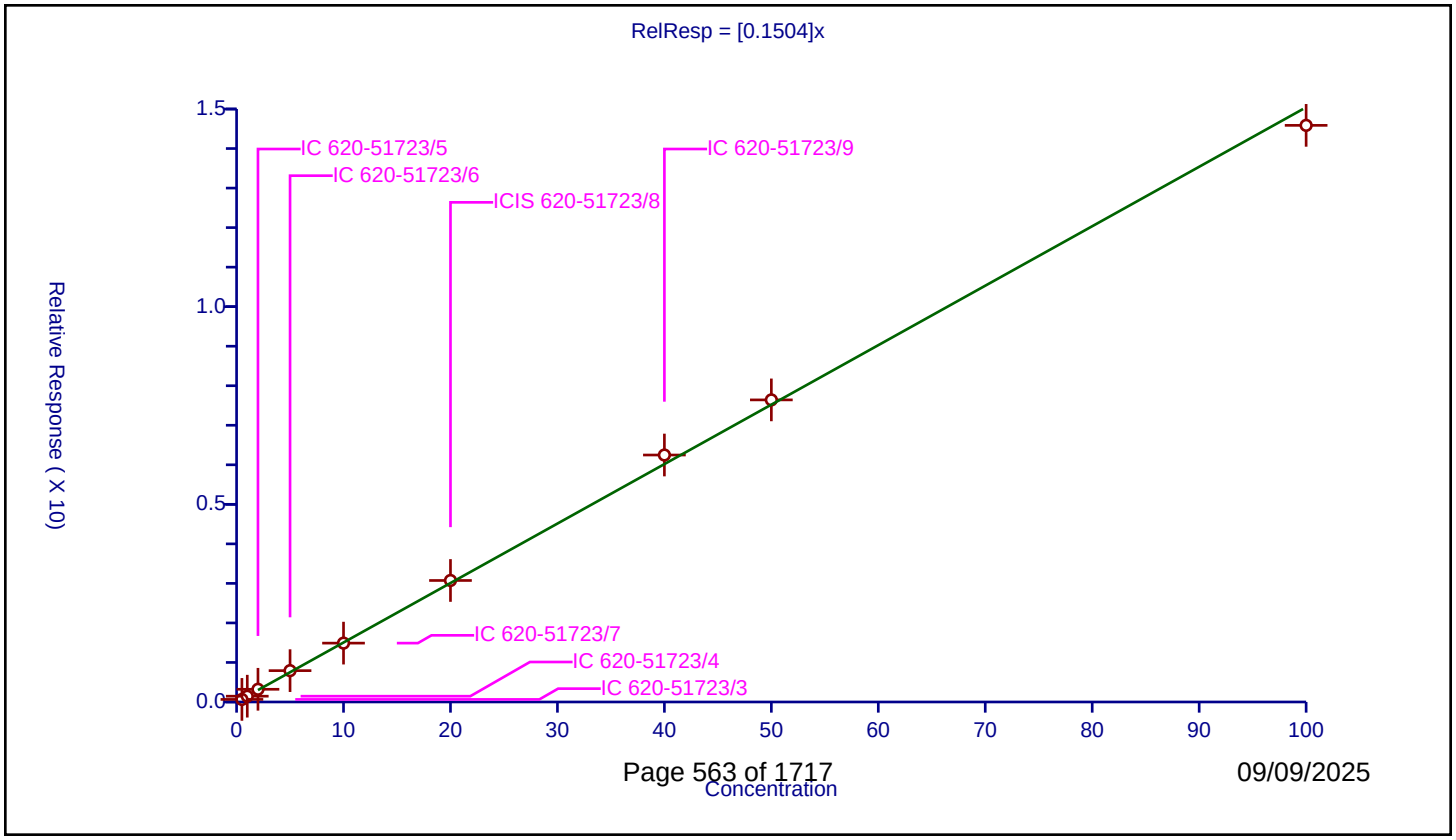
Curve Coefficients

Intercept:	0
Slope:	0.1504

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.065105	50.0	367866.0	0.13021	Y
2	IC 620-51723/4	1.0	0.147013	50.0	363913.0	0.147013	Y
3	IC 620-51723/5	2.0	0.321124	50.0	355782.0	0.160562	Y
4	IC 620-51723/6	5.0	0.792774	50.0	360065.0	0.158555	Y
5	IC 620-51723/7	10.0	1.489433	50.0	347414.0	0.148943	Y
6	ICIS 620-51723/8	20.0	3.073874	50.0	346631.0	0.153694	Y
7	IC 620-51723/9	40.0	6.247466	50.0	352663.0	0.156187	Y
8	IC 620-51723/10	50.0	7.64159	50.0	364767.0	0.152832	Y
9	IC 620-51723/11	100.0	14.586276	50.0	383069.0	0.145863	Y



Calibration / Chloroform

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

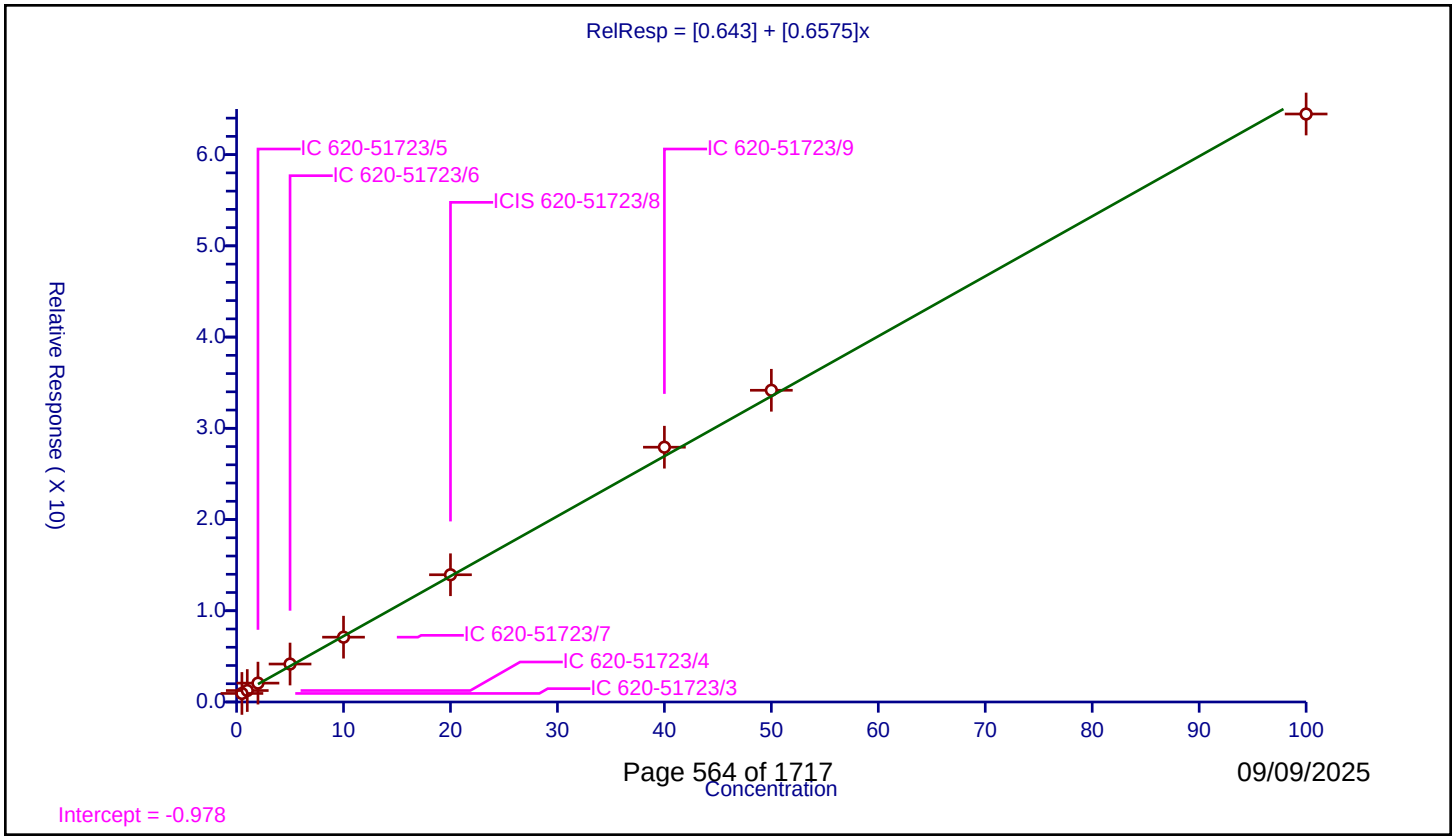
Curve Coefficients

Intercept:	0.643
Slope:	0.6575

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.936346	50.0	367866.0	1.872693	Y
2	IC 620-51723/4	1.0	1.25497	50.0	363913.0	1.25497	Y
3	IC 620-51723/5	2.0	2.068823	50.0	355782.0	1.034412	Y
4	IC 620-51723/6	5.0	4.16161	50.0	360065.0	0.832322	Y
5	IC 620-51723/7	10.0	7.103197	50.0	347414.0	0.71032	Y
6	ICIS 620-51723/8	20.0	13.947685	50.0	346631.0	0.697384	Y
7	IC 620-51723/9	40.0	27.927512	50.0	352663.0	0.698188	Y
8	IC 620-51723/10	50.0	34.169209	50.0	364767.0	0.683384	Y
9	IC 620-51723/11	100.0	64.453923	50.0	383069.0	0.644539	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

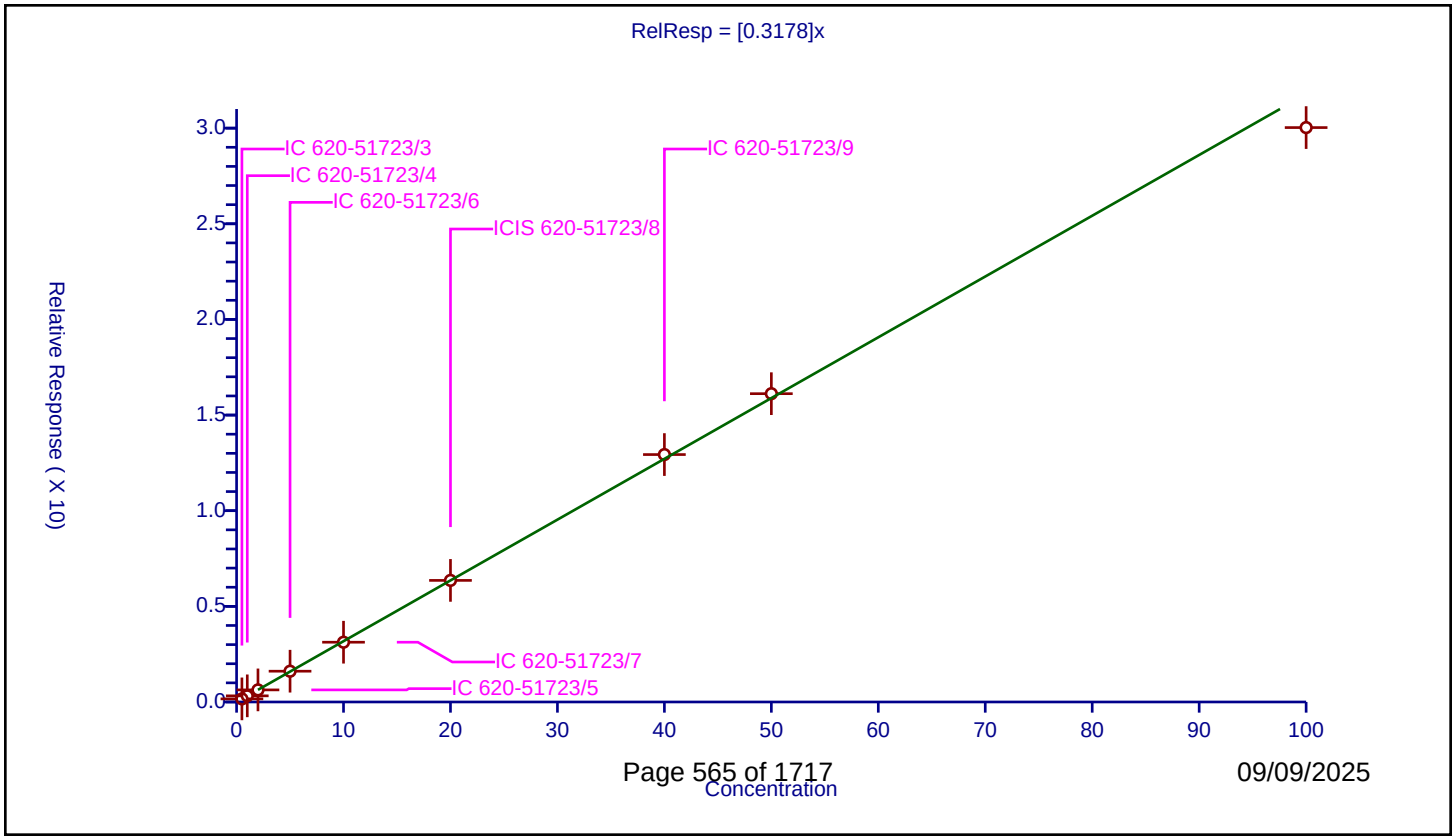
Curve Coefficients

Intercept:	0
Slope:	0.3178

Error Coefficients

Relative Standard Deviation:	2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.162287	50.0	367866.0	0.324575	Y
2	IC 620-51723/4	1.0	0.321093	50.0	363913.0	0.321093	Y
3	IC 620-51723/5	2.0	0.631848	50.0	355782.0	0.315924	Y
4	IC 620-51723/6	5.0	1.609293	50.0	360065.0	0.321859	Y
5	IC 620-51723/7	10.0	3.124946	50.0	347414.0	0.312495	Y
6	ICIS 620-51723/8	20.0	6.356039	50.0	346631.0	0.317802	Y
7	IC 620-51723/9	40.0	12.935437	50.0	352663.0	0.323386	Y
8	IC 620-51723/10	50.0	16.118371	50.0	364767.0	0.322367	Y
9	IC 620-51723/11	100.0	30.029577	50.0	383069.0	0.300296	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

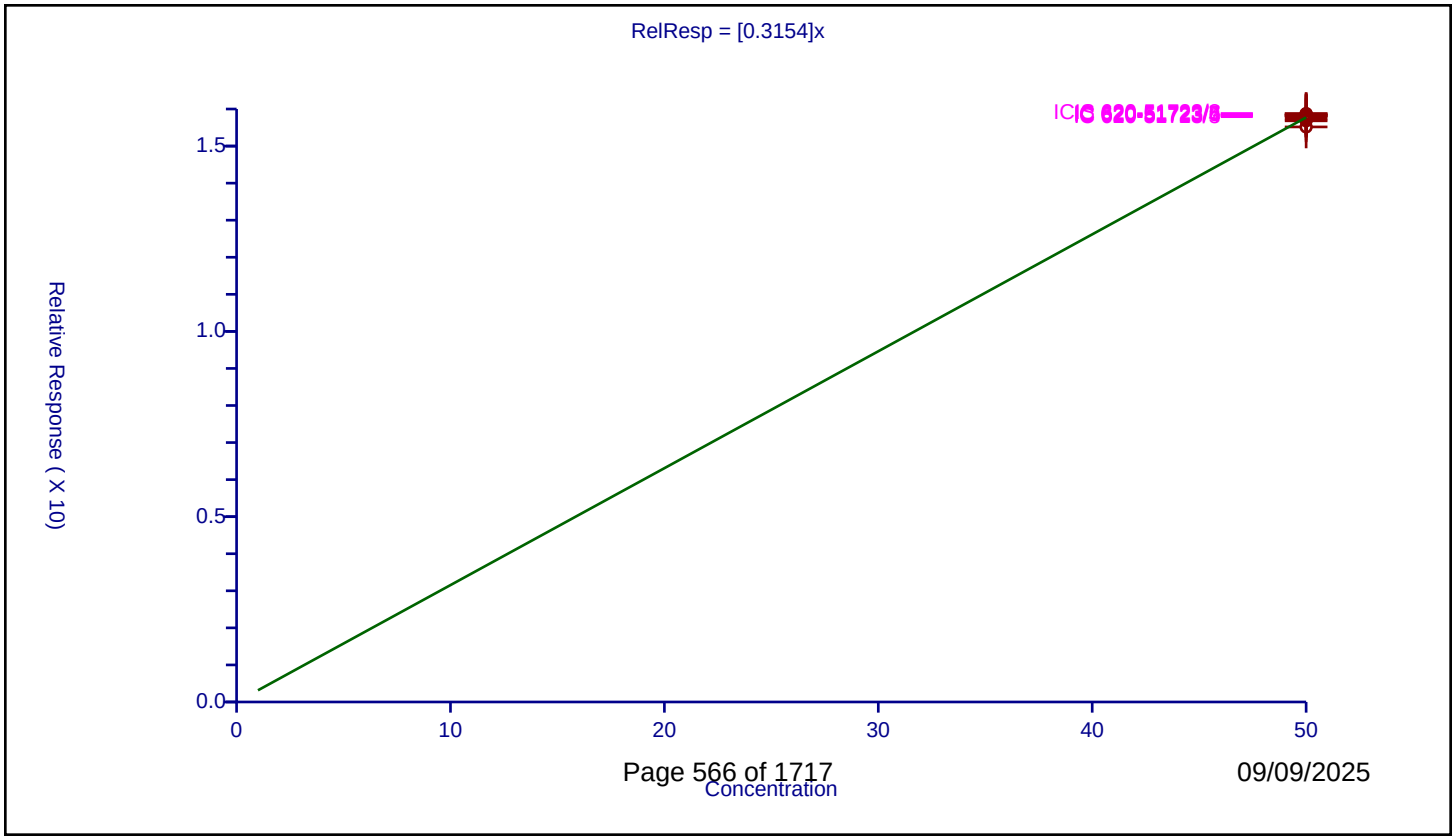
Curve Coefficients

Intercept:	0
Slope:	0.3154

Error Coefficients

Relative Standard Deviation:	0.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	50.0	15.792435	50.0	367866.0	0.315849	Y
2	IC 620-51723/4	50.0	15.820402	50.0	363913.0	0.316408	Y
3	IC 620-51723/5	50.0	15.868144	50.0	355782.0	0.317363	Y
4	IC 620-51723/6	50.0	15.837974	50.0	360065.0	0.316759	Y
5	IC 620-51723/7	50.0	15.825211	50.0	347414.0	0.316504	Y
6	ICIS 620-51723/8	50.0	15.876393	50.0	346631.0	0.317528	Y
7	IC 620-51723/9	50.0	15.729889	50.0	352663.0	0.314598	Y
8	IC 620-51723/10	50.0	15.681517	50.0	364767.0	0.31363	Y
9	IC 620-51723/11	50.0	15.516395	50.0	383069.0	0.310328	Y



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

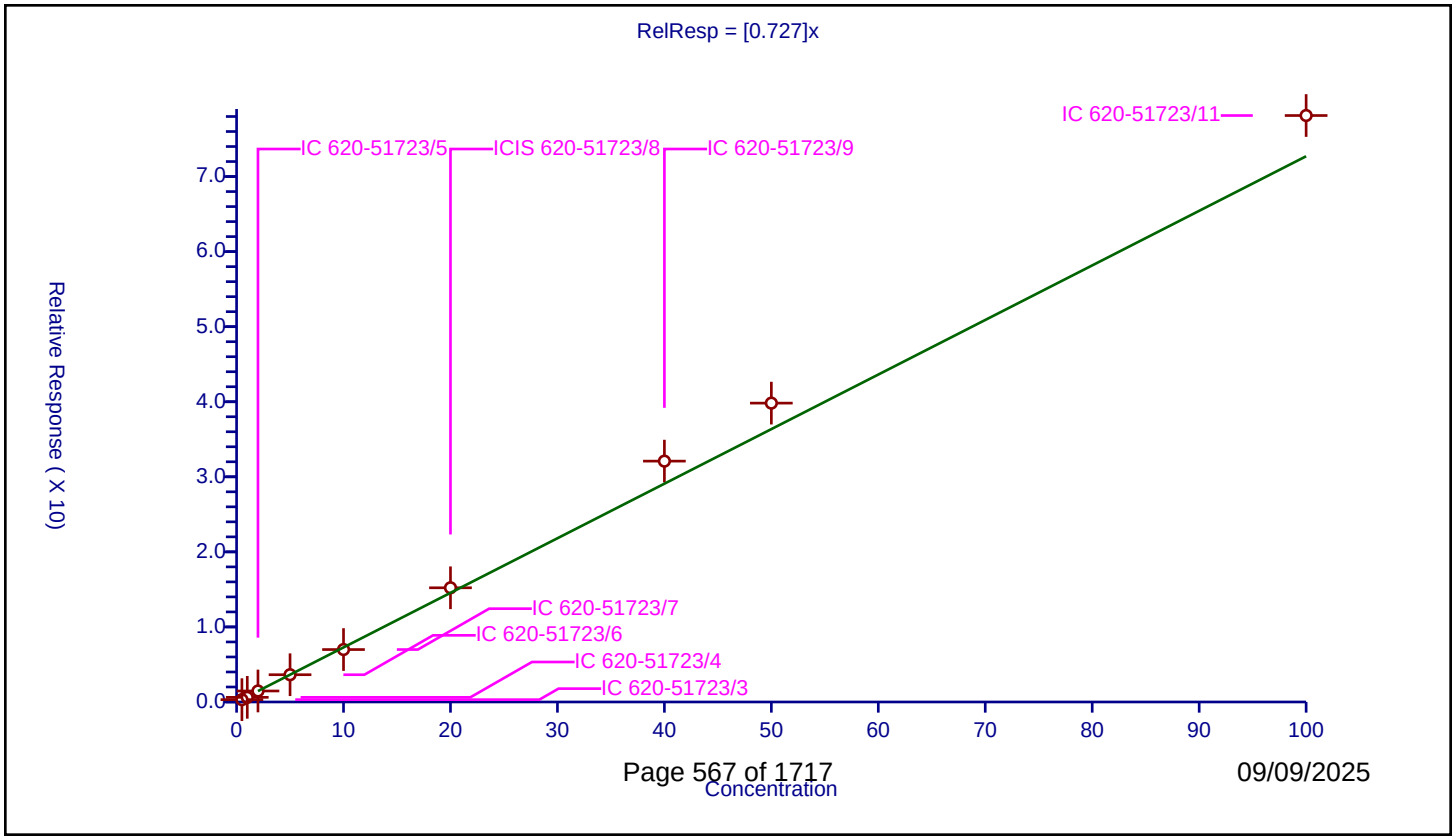
Curve Coefficients

Intercept:	0
Slope:	0.727

Error Coefficients

Relative Standard Deviation:	9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.311662	50.0	367866.0	0.623325	Y
2	IC 620-51723/4	1.0	0.620478	50.0	363913.0	0.620478	Y
3	IC 620-51723/5	2.0	1.46705	50.0	355782.0	0.733525	Y
4	IC 620-51723/6	5.0	3.633649	50.0	360065.0	0.72673	Y
5	IC 620-51723/7	10.0	6.987916	50.0	347414.0	0.698792	Y
6	ICIS 620-51723/8	20.0	15.213152	50.0	346631.0	0.760658	Y
7	IC 620-51723/9	40.0	32.088566	50.0	352663.0	0.802214	Y
8	IC 620-51723/10	50.0	39.817061	50.0	364767.0	0.796341	Y
9	IC 620-51723/11	100.0	78.134749	50.0	383069.0	0.781347	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

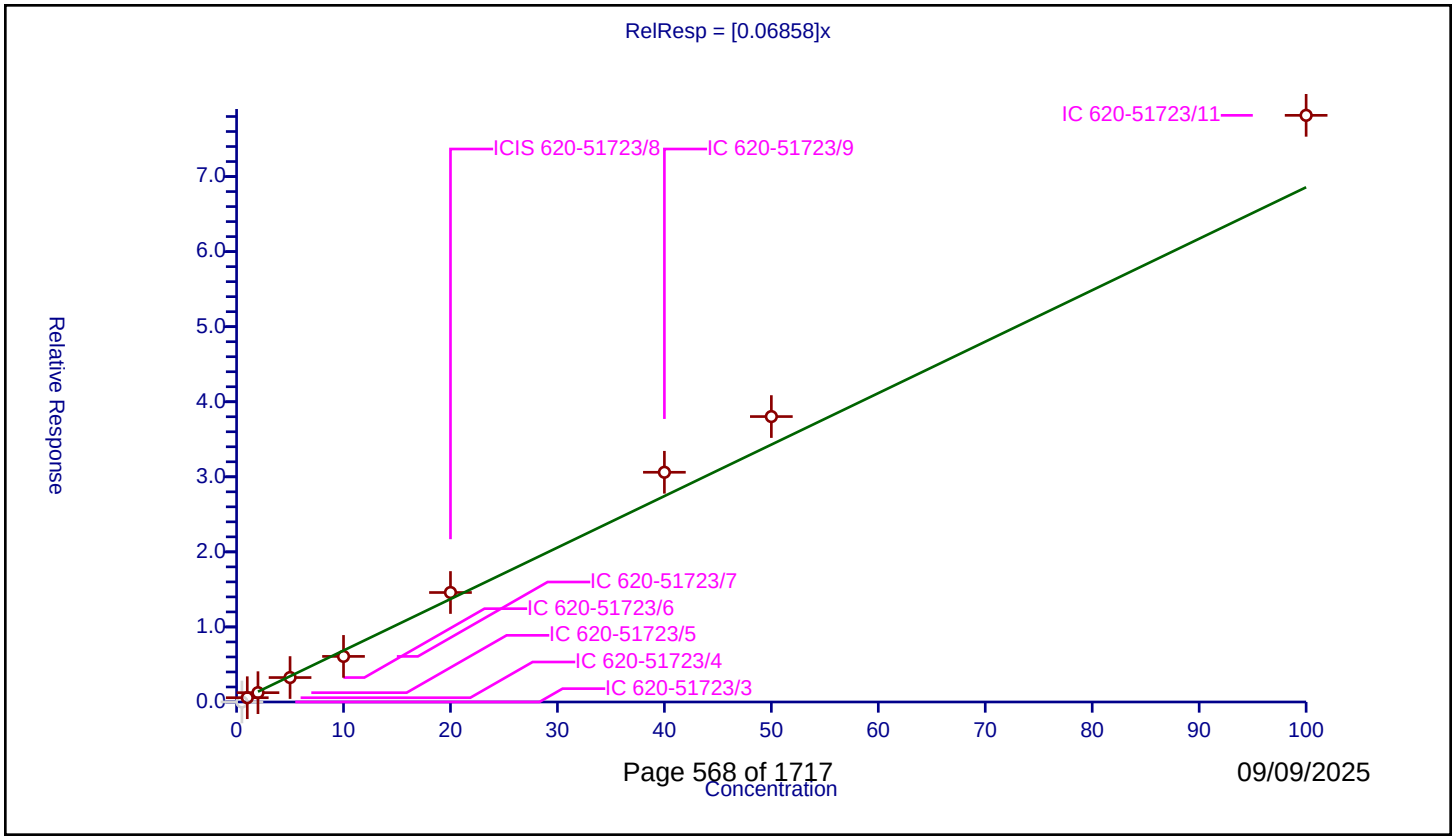
Curve Coefficients

Intercept:	0
Slope:	0.06858

Error Coefficients

Relative Standard Deviation:	12.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.0	50.0	367866.0	0.0	N
2	IC 620-51723/4	1.0	0.057019	50.0	363913.0	0.057019	Y
3	IC 620-51723/5	2.0	0.124233	50.0	355782.0	0.062117	Y
4	IC 620-51723/6	5.0	0.325497	50.0	360065.0	0.065099	Y
5	IC 620-51723/7	10.0	0.607201	50.0	347414.0	0.06072	Y
6	ICIS 620-51723/8	20.0	1.458612	50.0	346631.0	0.072931	Y
7	IC 620-51723/9	40.0	3.060429	50.0	352663.0	0.076511	Y
8	IC 620-51723/10	50.0	3.802564	50.0	364767.0	0.076051	Y
9	IC 620-51723/11	100.0	7.815694	50.0	383069.0	0.078157	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

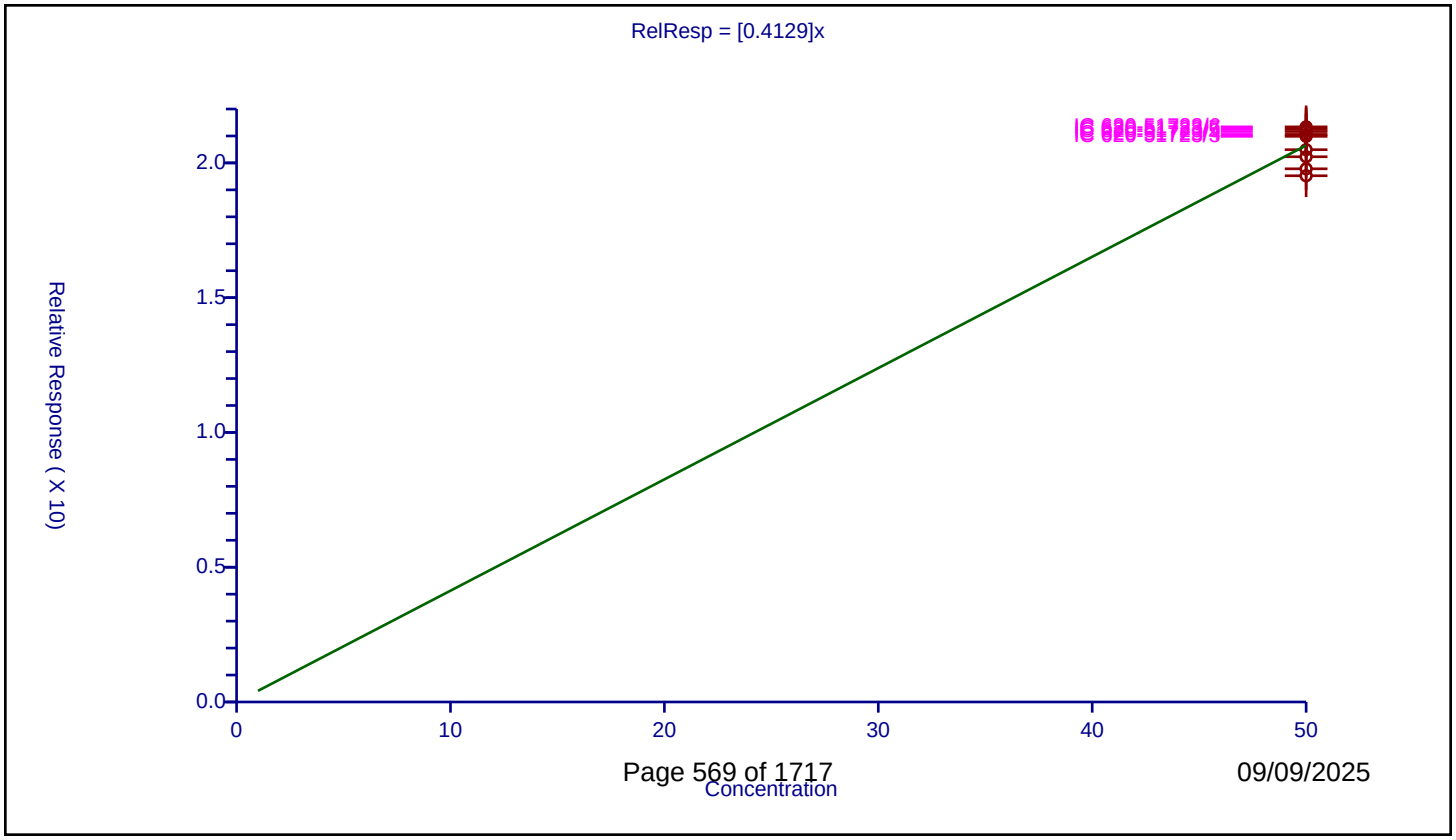
Curve Coefficients

Intercept:	0
Slope:	0.4129

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	50.0	20.985495	50.0	367866.0	0.41971	Y
2	IC 620-51723/4	50.0	21.057368	50.0	363913.0	0.421147	Y
3	IC 620-51723/5	50.0	21.165208	50.0	355782.0	0.423304	Y
4	IC 620-51723/6	50.0	21.338231	50.0	360065.0	0.426765	Y
5	IC 620-51723/7	50.0	21.251302	50.0	347414.0	0.425026	Y
6	ICIS 620-51723/8	50.0	20.49081	50.0	346631.0	0.409816	Y
7	IC 620-51723/9	50.0	20.22866	50.0	352663.0	0.404573	Y
8	IC 620-51723/10	50.0	19.781806	50.0	364767.0	0.395636	Y
9	IC 620-51723/11	50.0	19.524028	50.0	383069.0	0.390481	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

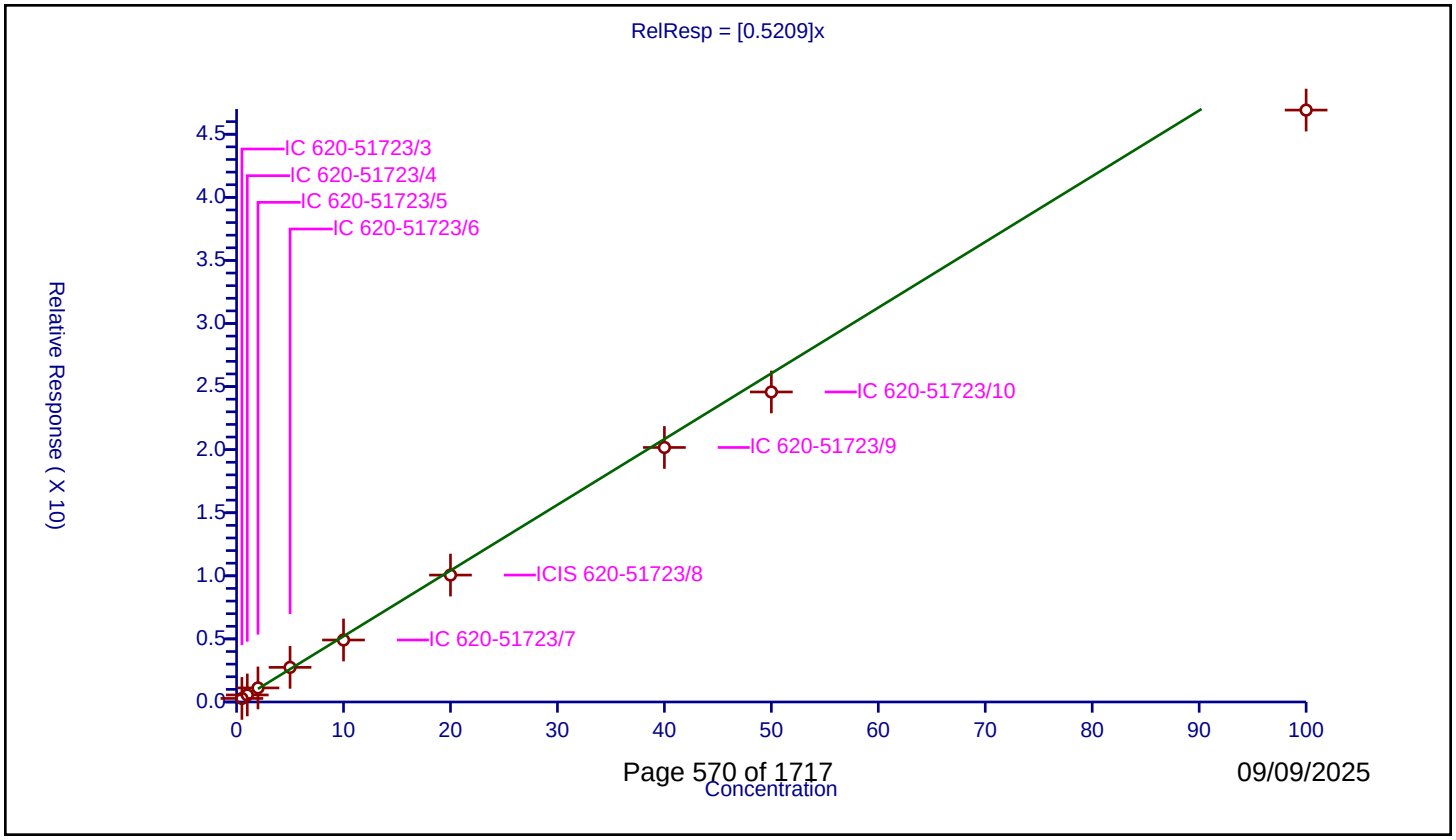
Curve Coefficients

Intercept:	0
Slope:	0.5209

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.282712	50.0	367866.0	0.565423	Y
2	IC 620-51723/4	1.0	0.557139	50.0	363913.0	0.557139	Y
3	IC 620-51723/5	2.0	1.11529	50.0	355782.0	0.557645	Y
4	IC 620-51723/6	5.0	2.744643	50.0	360065.0	0.548929	Y
5	IC 620-51723/7	10.0	4.912871	50.0	347414.0	0.491287	Y
6	ICIS 620-51723/8	20.0	10.060554	50.0	346631.0	0.503028	Y
7	IC 620-51723/9	40.0	20.174217	50.0	352663.0	0.504355	Y
8	IC 620-51723/10	50.0	24.571713	50.0	364767.0	0.491434	Y
9	IC 620-51723/11	100.0	46.914655	50.0	383069.0	0.469147	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

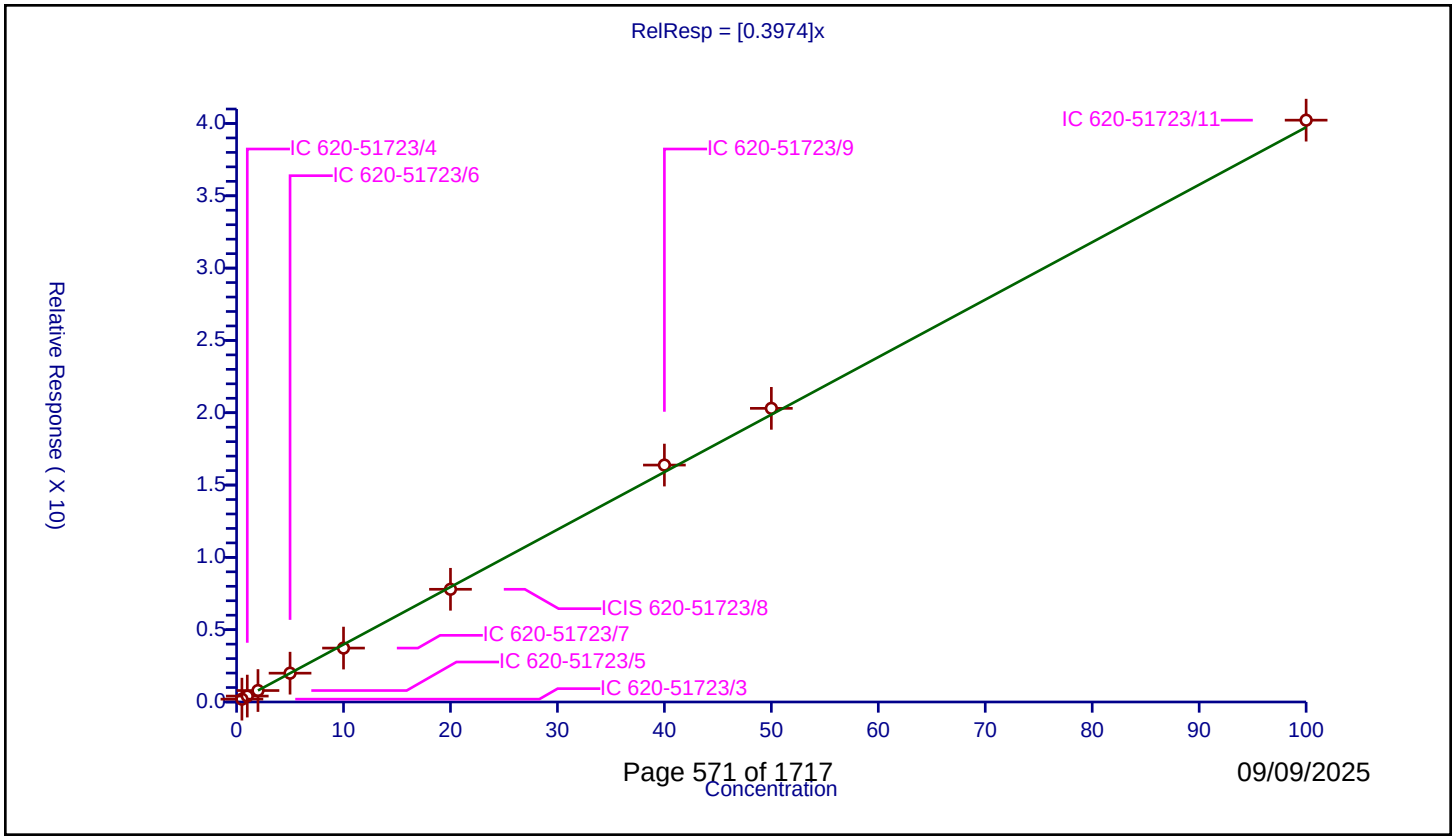
Curve Coefficients

Intercept:	0
Slope:	0.3974

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.196675	50.0	367866.0	0.39335	Y
2	IC 620-51723/4	1.0	0.408477	50.0	363913.0	0.408477	Y
3	IC 620-51723/5	2.0	0.792199	50.0	355782.0	0.396099	Y
4	IC 620-51723/6	5.0	1.992279	50.0	360065.0	0.398456	Y
5	IC 620-51723/7	10.0	3.72639	50.0	347414.0	0.372639	Y
6	ICIS 620-51723/8	20.0	7.792148	50.0	346631.0	0.389607	Y
7	IC 620-51723/9	40.0	16.380511	50.0	352663.0	0.409513	Y
8	IC 620-51723/10	50.0	20.302961	50.0	364767.0	0.406059	Y
9	IC 620-51723/11	100.0	40.229175	50.0	383069.0	0.402292	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

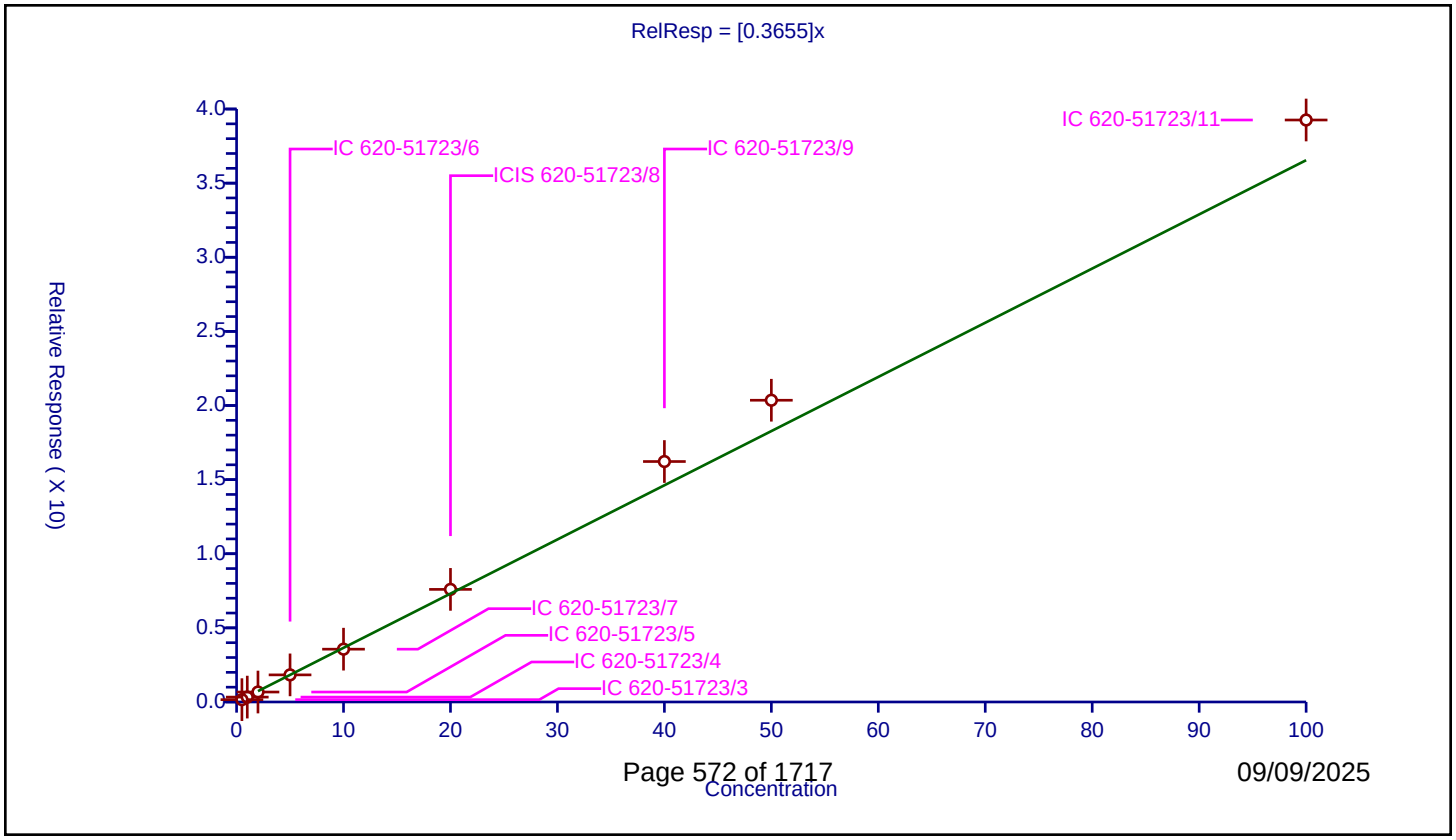
Curve Coefficients

Intercept:	0
Slope:	0.3655

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.15821	50.0	367866.0	0.31642	Y
2	IC 620-51723/4	1.0	0.329474	50.0	363913.0	0.329474	Y
3	IC 620-51723/5	2.0	0.672181	50.0	355782.0	0.336091	Y
4	IC 620-51723/6	5.0	1.828975	50.0	360065.0	0.365795	Y
5	IC 620-51723/7	10.0	3.563472	50.0	347414.0	0.356347	Y
6	ICIS 620-51723/8	20.0	7.595974	50.0	346631.0	0.379799	Y
7	IC 620-51723/9	40.0	16.221577	50.0	352663.0	0.405539	Y
8	IC 620-51723/10	50.0	20.355186	50.0	364767.0	0.407104	Y
9	IC 620-51723/11	100.0	39.258071	50.0	383069.0	0.392581	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

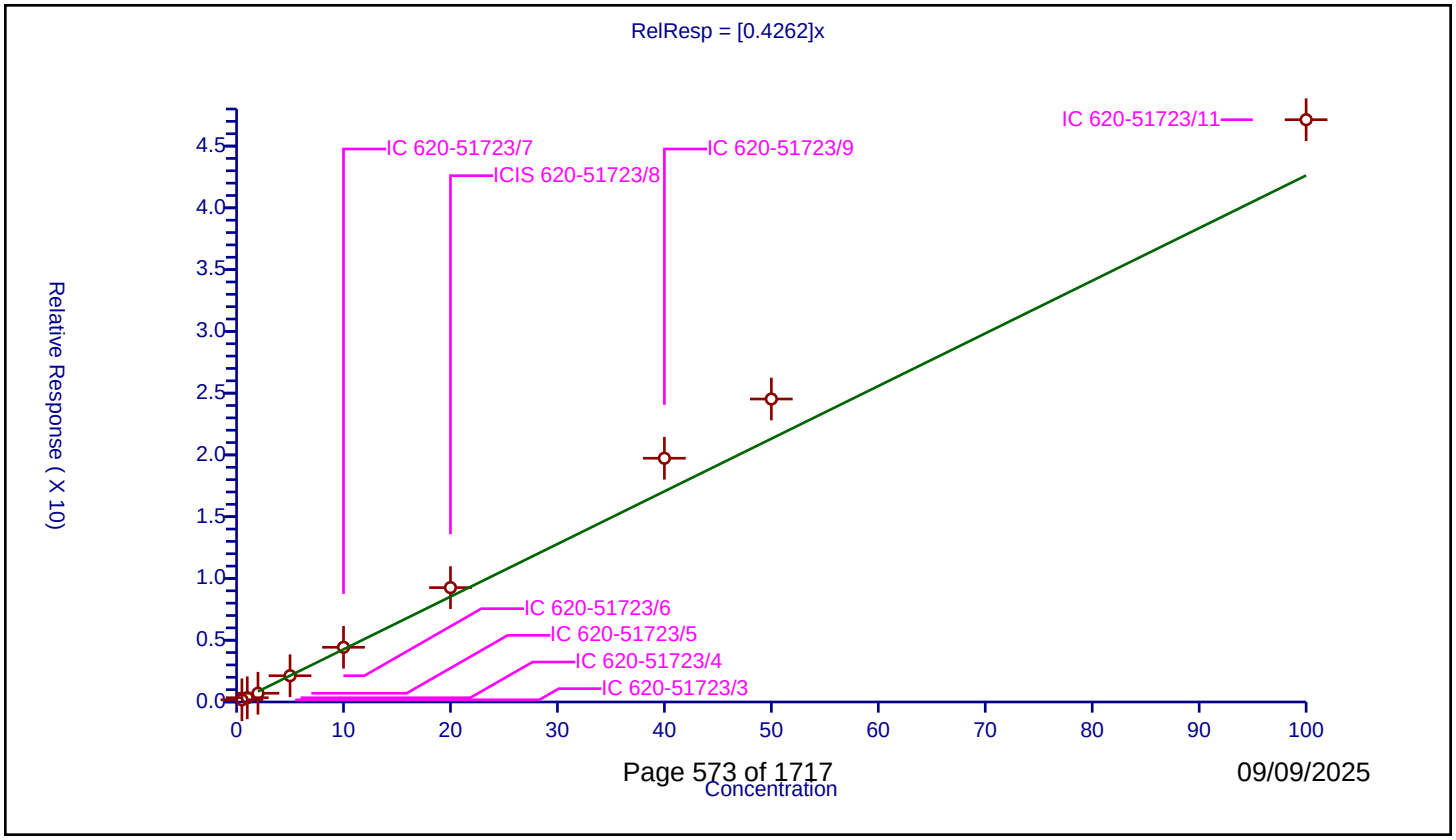
Curve Coefficients

Intercept:	0
Slope:	0.4262

Error Coefficients

Relative Standard Deviation:	14.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.176287	50.0	367866.0	0.352574	Y
2	IC 620-51723/4	1.0	0.344588	50.0	363913.0	0.344588	Y
3	IC 620-51723/5	2.0	0.706191	50.0	355782.0	0.353095	Y
4	IC 620-51723/6	5.0	2.124339	50.0	360065.0	0.424868	Y
5	IC 620-51723/7	10.0	4.429154	50.0	347414.0	0.442915	Y
6	ICIS 620-51723/8	20.0	9.257395	50.0	346631.0	0.46287	Y
7	IC 620-51723/9	40.0	19.730167	50.0	352663.0	0.493254	Y
8	IC 620-51723/10	50.0	24.525656	50.0	364767.0	0.490513	Y
9	IC 620-51723/11	100.0	47.13485	50.0	383069.0	0.471349	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

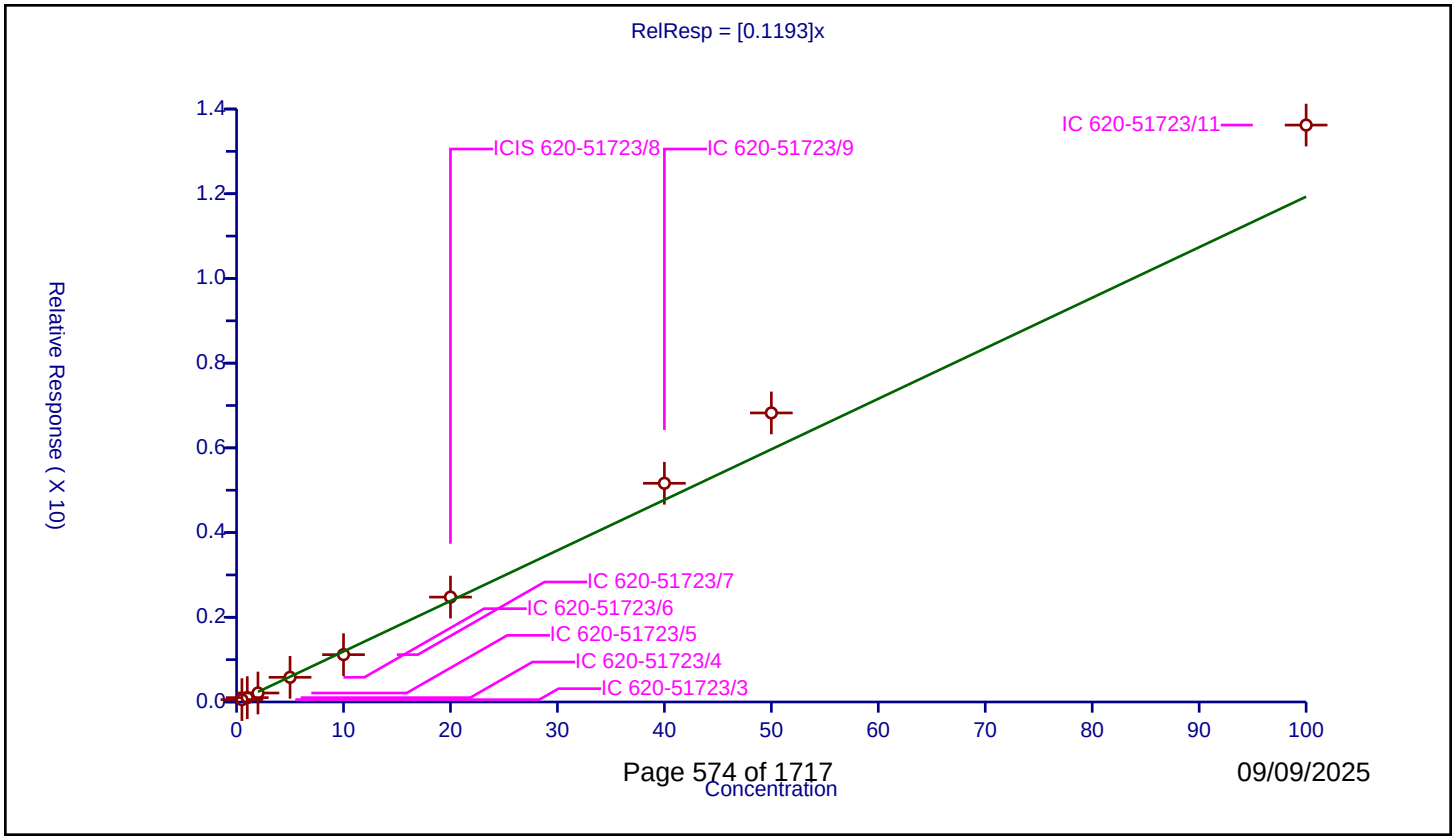
Curve Coefficients

Intercept:	0
Slope:	0.1193

Error Coefficients

Relative Standard Deviation:	10.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.055455	50.0	367866.0	0.11091	Y
2	IC 620-51723/4	1.0	0.103047	50.0	363913.0	0.103047	Y
3	IC 620-51723/5	2.0	0.211646	50.0	355782.0	0.105823	Y
4	IC 620-51723/6	5.0	0.582534	50.0	360065.0	0.116507	Y
5	IC 620-51723/7	10.0	1.117975	50.0	347414.0	0.111797	Y
6	ICIS 620-51723/8	20.0	2.476553	50.0	346631.0	0.123828	Y
7	IC 620-51723/9	40.0	5.16357	50.0	352663.0	0.129089	Y
8	IC 620-51723/10	50.0	6.824631	50.0	364767.0	0.136493	Y
9	IC 620-51723/11	100.0	13.620914	50.0	383069.0	0.136209	Y



09/09/2025

Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

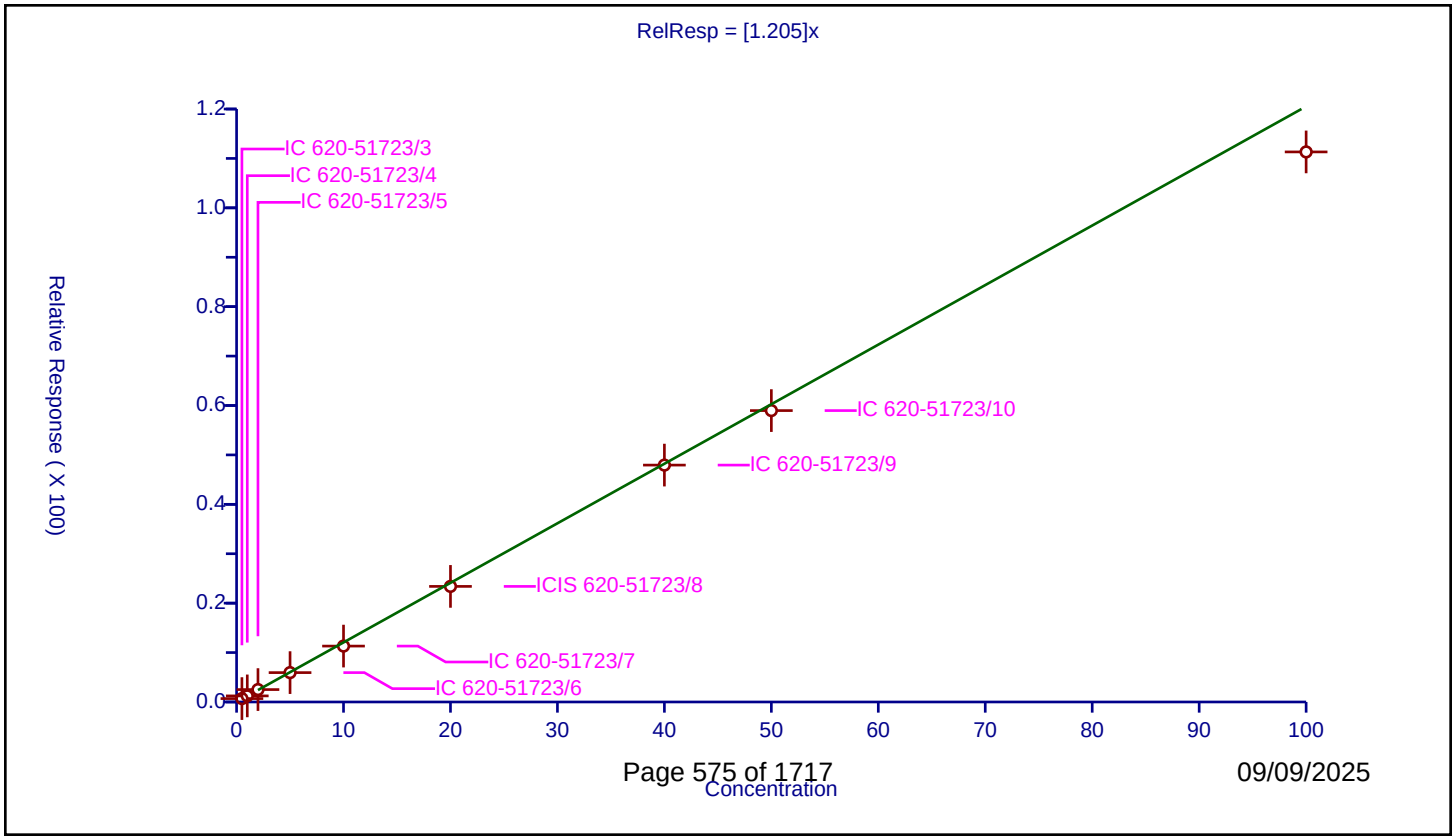
Curve Coefficients

Intercept:	0
Slope:	1.205

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.687886	50.0	367866.0	1.375773	Y
2	IC 620-51723/4	1.0	1.234636	50.0	363913.0	1.234636	Y
3	IC 620-51723/5	2.0	2.510667	50.0	355782.0	1.255333	Y
4	IC 620-51723/6	5.0	5.945871	50.0	360065.0	1.189174	Y
5	IC 620-51723/7	10.0	11.315462	50.0	347414.0	1.131546	Y
6	ICIS 620-51723/8	20.0	23.391734	50.0	346631.0	1.169587	Y
7	IC 620-51723/9	40.0	47.939109	50.0	352663.0	1.198478	Y
8	IC 620-51723/10	50.0	58.971206	50.0	364767.0	1.179424	Y
9	IC 620-51723/11	100.0	111.317674	50.0	383069.0	1.113177	Y



Calibration / Tert-amyl methyl ether

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

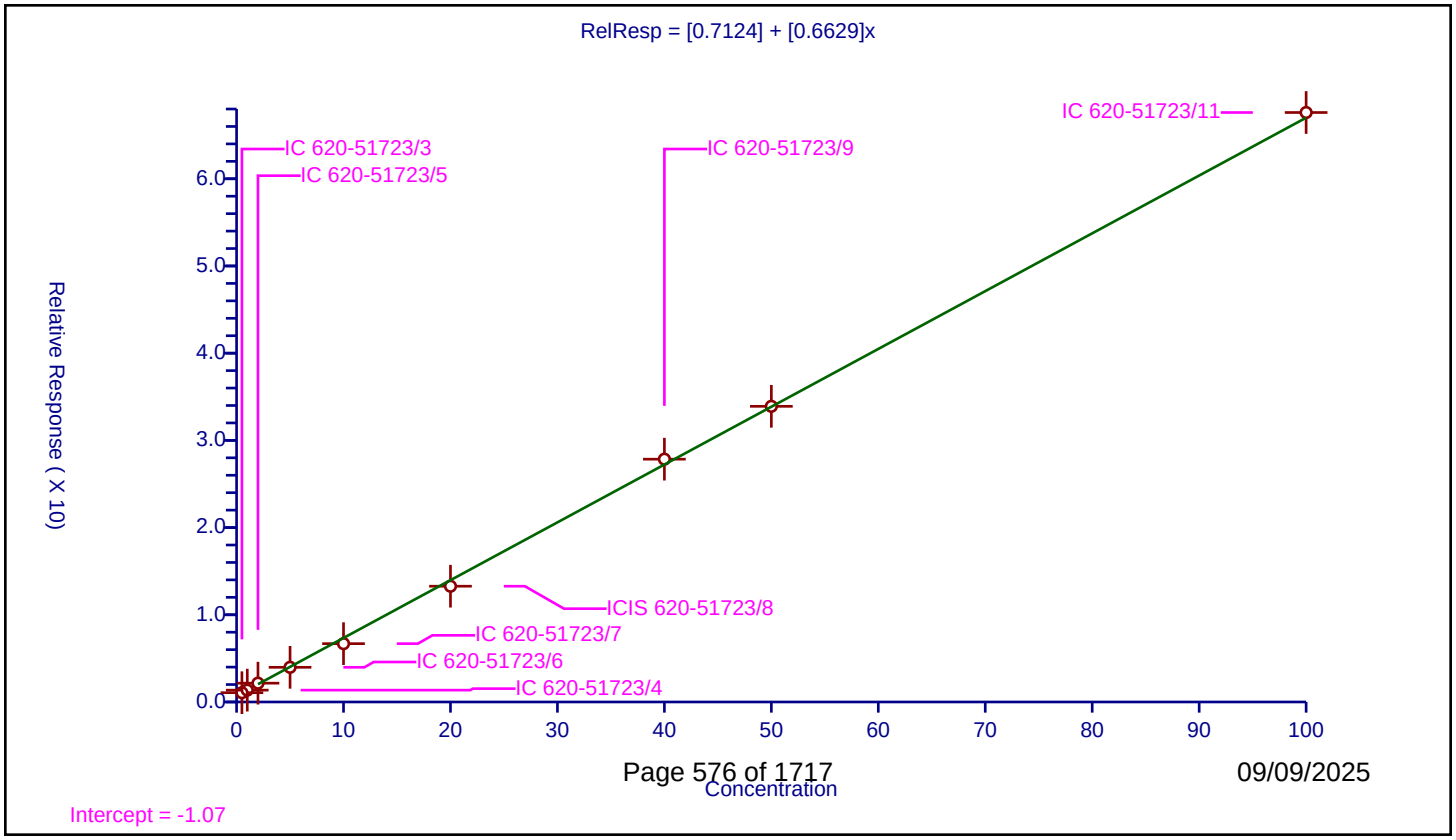
Curve Coefficients

Intercept:	0.7124
Slope:	0.6629

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	1.064926	50.0	367866.0	2.129852	Y
2	IC 620-51723/4	1.0	1.36049	50.0	363913.0	1.36049	Y
3	IC 620-51723/5	2.0	2.158063	50.0	355782.0	1.079032	Y
4	IC 620-51723/6	5.0	3.976365	50.0	360065.0	0.795273	Y
5	IC 620-51723/7	10.0	6.689137	50.0	347414.0	0.668914	Y
6	ICIS 620-51723/8	20.0	13.277808	50.0	346631.0	0.66389	Y
7	IC 620-51723/9	40.0	27.844429	50.0	352663.0	0.696111	Y
8	IC 620-51723/10	50.0	33.906439	50.0	364767.0	0.678129	Y
9	IC 620-51723/11	100.0	67.600093	50.0	383069.0	0.676001	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

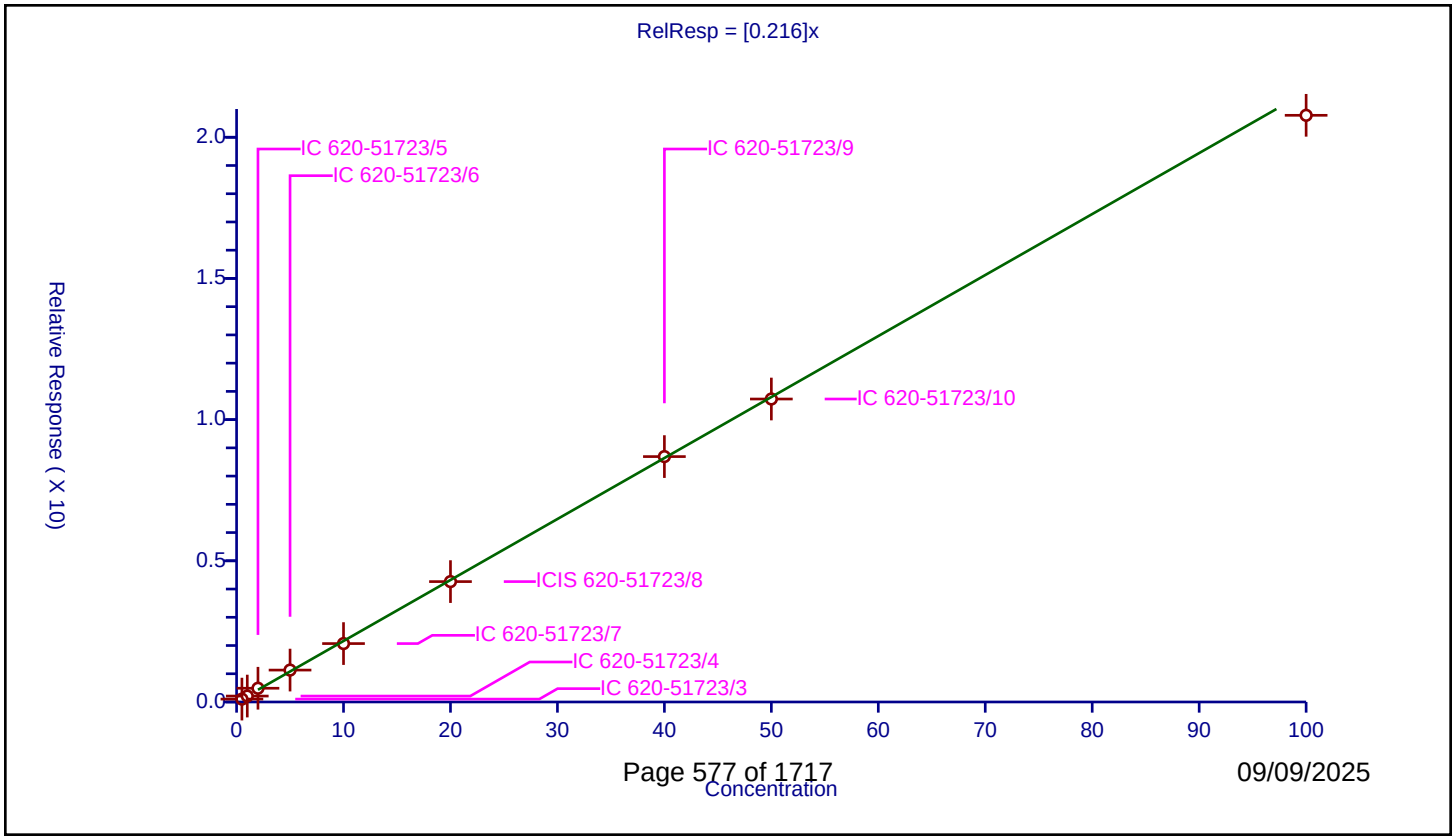
Curve Coefficients

Intercept:	0
Slope:	0.216

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.102483	50.0	367866.0	0.204966	Y
2	IC 620-51723/4	1.0	0.20994	50.0	363913.0	0.20994	Y
3	IC 620-51723/5	2.0	0.486674	50.0	355782.0	0.243337	Y
4	IC 620-51723/6	5.0	1.130213	50.0	360065.0	0.226043	Y
5	IC 620-51723/7	10.0	2.068569	50.0	347414.0	0.206857	Y
6	ICIS 620-51723/8	20.0	4.263756	50.0	346631.0	0.213188	Y
7	IC 620-51723/9	40.0	8.690733	50.0	352663.0	0.217268	Y
8	IC 620-51723/10	50.0	10.730137	50.0	364767.0	0.214603	Y
9	IC 620-51723/11	100.0	20.776936	50.0	383069.0	0.207769	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

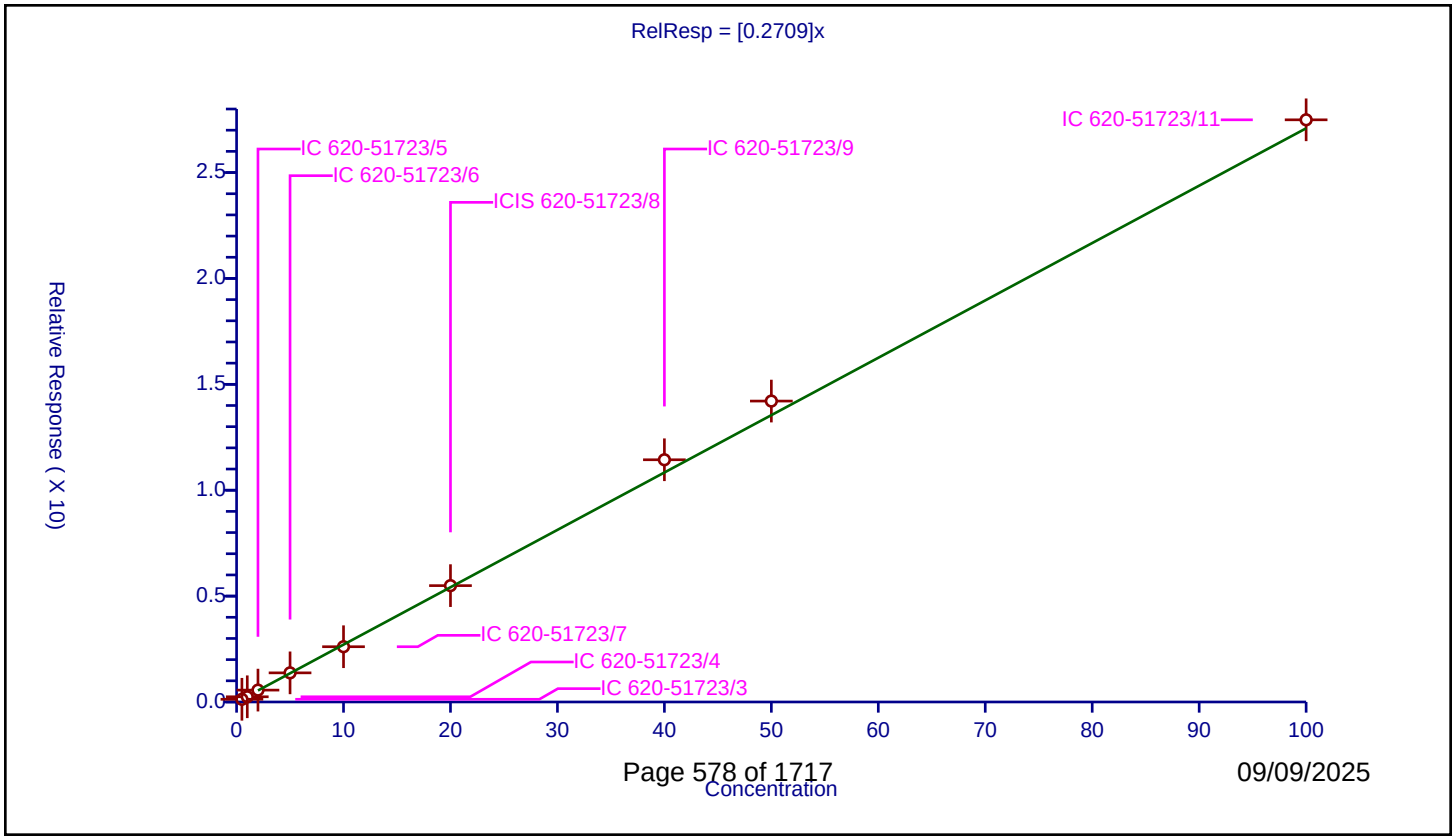
Curve Coefficients

Intercept:	0
Slope:	0.2709

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.127764	50.0	367866.0	0.255528	Y
2	IC 620-51723/4	1.0	0.24635	50.0	363913.0	0.24635	Y
3	IC 620-51723/5	2.0	0.560737	50.0	355782.0	0.280368	Y
4	IC 620-51723/6	5.0	1.375168	50.0	360065.0	0.275034	Y
5	IC 620-51723/7	10.0	2.609279	50.0	347414.0	0.260928	Y
6	ICIS 620-51723/8	20.0	5.495037	50.0	346631.0	0.274752	Y
7	IC 620-51723/9	40.0	11.437548	50.0	352663.0	0.285939	Y
8	IC 620-51723/10	50.0	14.209345	50.0	364767.0	0.284187	Y
9	IC 620-51723/11	100.0	27.490217	50.0	383069.0	0.274902	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

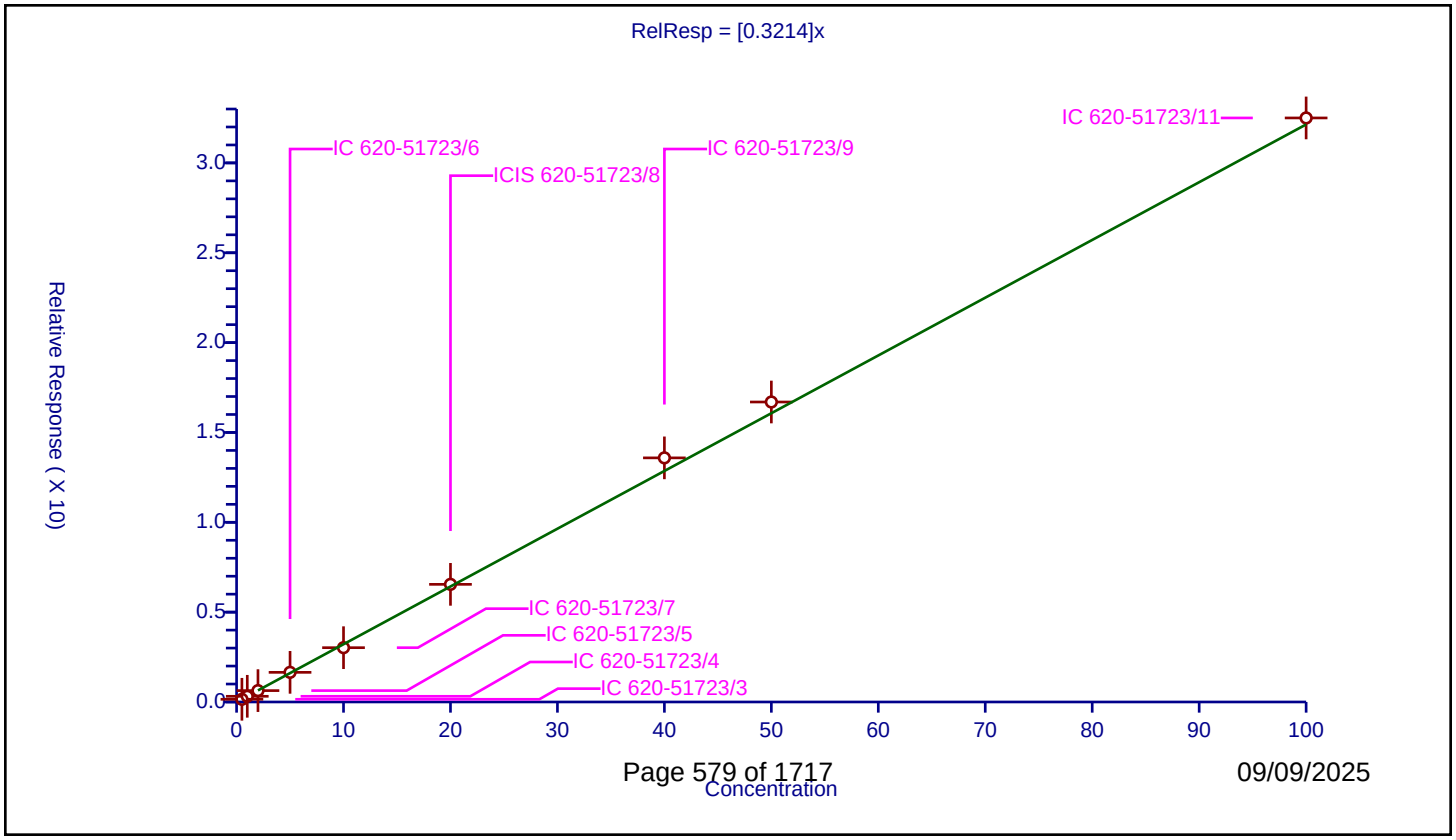
Curve Coefficients

Intercept:	0
Slope:	0.3214

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.150055	50.0	367866.0	0.300109	Y
2	IC 620-51723/4	1.0	0.317521	50.0	363913.0	0.317521	Y
3	IC 620-51723/5	2.0	0.633675	50.0	355782.0	0.316837	Y
4	IC 620-51723/6	5.0	1.64998	50.0	360065.0	0.329996	Y
5	IC 620-51723/7	10.0	3.022906	50.0	347414.0	0.302291	Y
6	ICIS 620-51723/8	20.0	6.54702	50.0	346631.0	0.327351	Y
7	IC 620-51723/9	40.0	13.586058	50.0	352663.0	0.339651	Y
8	IC 620-51723/10	50.0	16.694493	50.0	364767.0	0.33389	Y
9	IC 620-51723/11	100.0	32.502761	50.0	383069.0	0.325028	Y



Calibration / Dichlorobromomethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

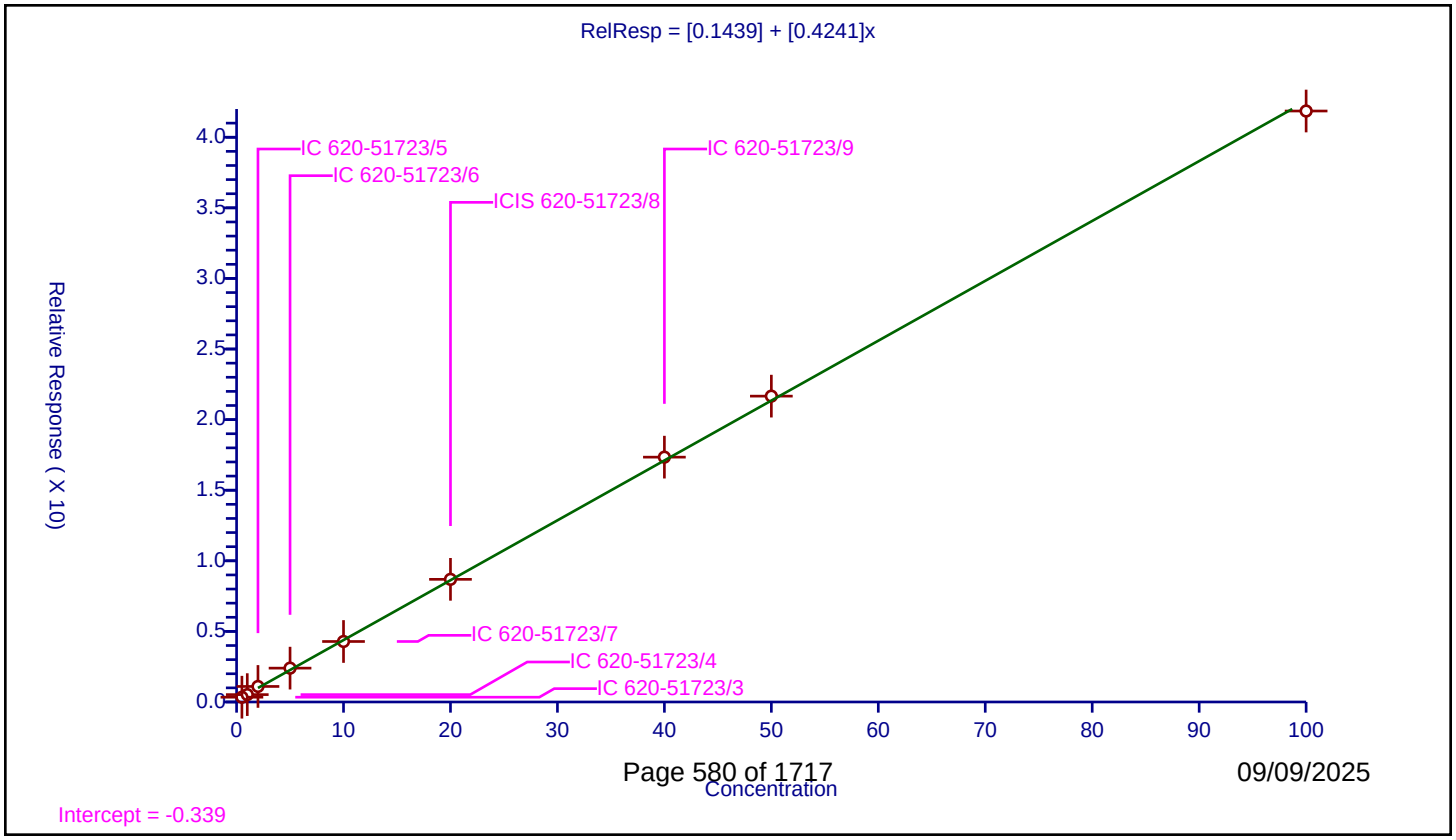
Curve Coefficients

Intercept:	0.1439
Slope:	0.4241

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.33939	50.0	367866.0	0.67878	Y
2	IC 620-51723/4	1.0	0.521965	50.0	363913.0	0.521965	Y
3	IC 620-51723/5	2.0	1.100252	50.0	355782.0	0.550126	Y
4	IC 620-51723/6	5.0	2.398039	50.0	360065.0	0.479608	Y
5	IC 620-51723/7	10.0	4.285089	50.0	347414.0	0.428509	Y
6	ICIS 620-51723/8	20.0	8.688202	50.0	346631.0	0.43441	Y
7	IC 620-51723/9	40.0	17.342619	50.0	352663.0	0.433565	Y
8	IC 620-51723/10	50.0	21.663829	50.0	364767.0	0.433277	Y
9	IC 620-51723/11	100.0	41.857994	50.0	383069.0	0.41858	Y



Calibration / 1,4-Dioxane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

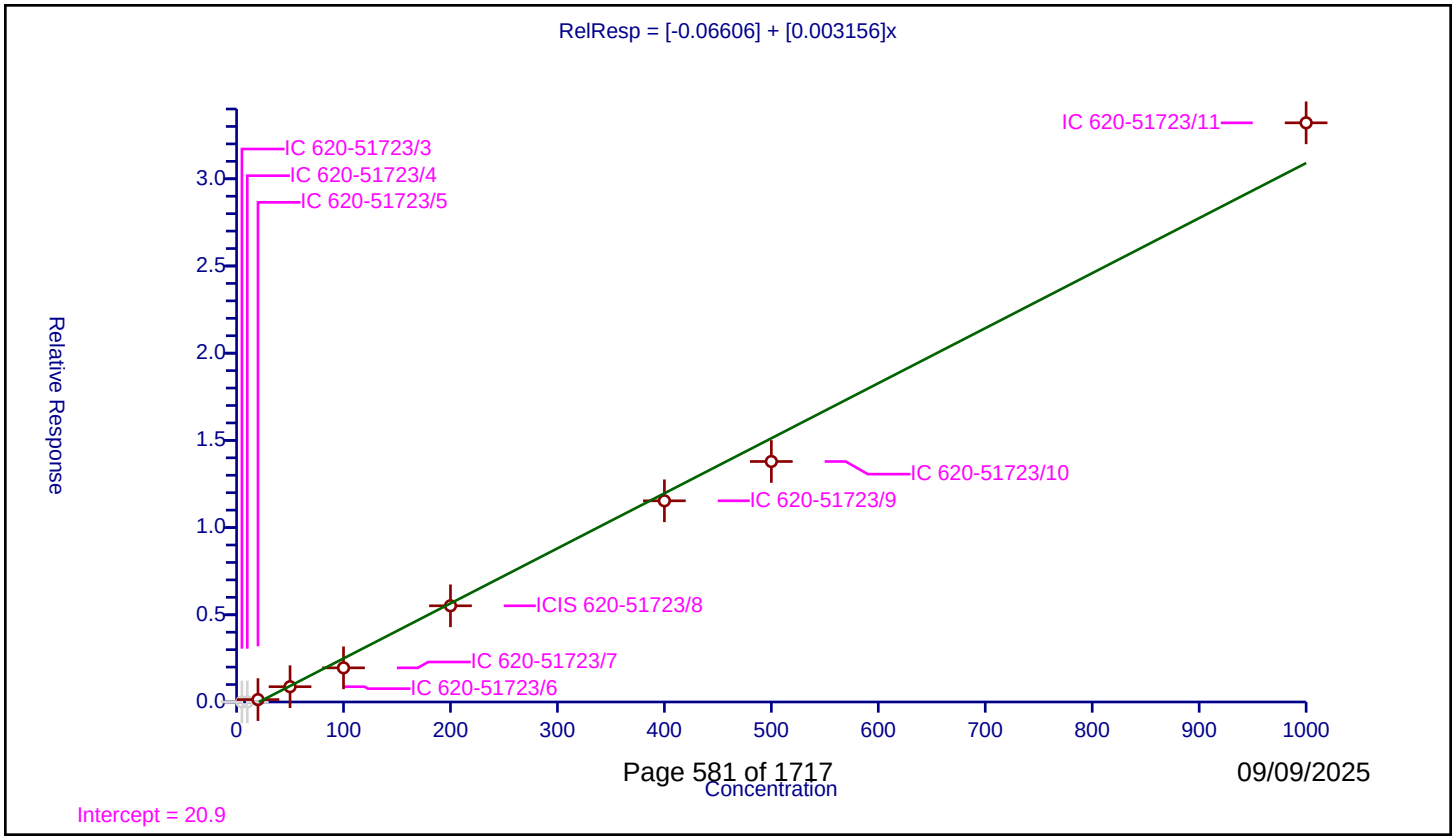
Curve Coefficients

Intercept:	-0.06606
Slope:	0.003156

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	5.0	0.0	50.0	367866.0	0.0	N
2	IC 620-51723/4	10.0	0.0	50.0	363913.0	0.0	N
3	IC 620-51723/5	20.0	0.013632	50.0	355782.0	0.000682	Y
4	IC 620-51723/6	50.0	0.087762	50.0	360065.0	0.001755	Y
5	IC 620-51723/7	100.0	0.195732	50.0	347414.0	0.001957	Y
6	ICIS 620-51723/8	200.0	0.551595	50.0	346631.0	0.002758	Y
7	IC 620-51723/9	400.0	1.153509	50.0	352663.0	0.002884	Y
8	IC 620-51723/10	500.0	1.378962	50.0	364767.0	0.002758	Y
9	IC 620-51723/11	1000.0	3.320812	50.0	383069.0	0.003321	Y



09/09/2025

Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

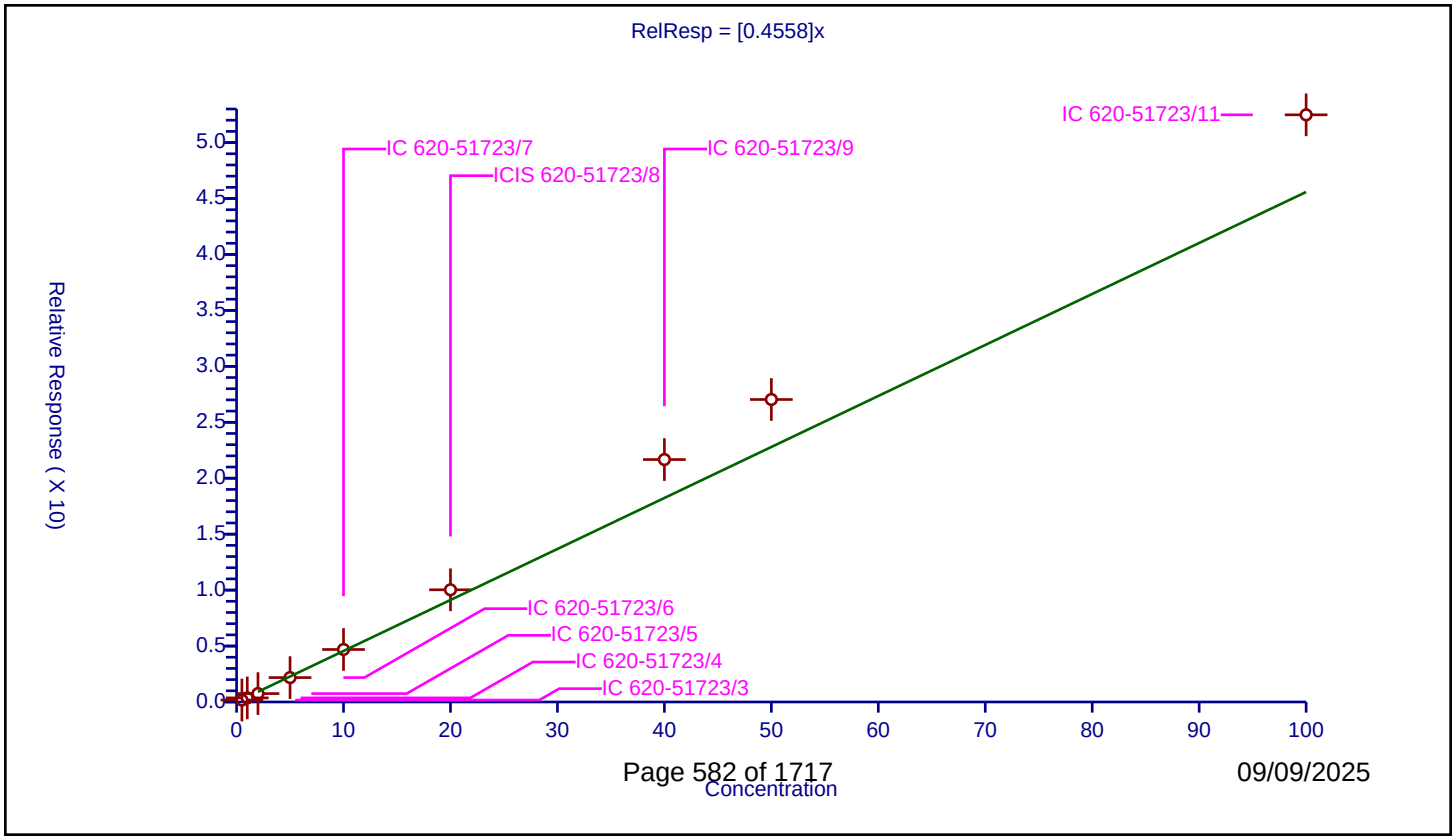
Curve Coefficients

Intercept:	0
Slope:	0.4558

Error Coefficients

Relative Standard Deviation:	17.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.173976	50.0	367866.0	0.347953	Y
2	IC 620-51723/4	1.0	0.365609	50.0	363913.0	0.365609	Y
3	IC 620-51723/5	2.0	0.75046	50.0	355782.0	0.37523	Y
4	IC 620-51723/6	5.0	2.179468	50.0	360065.0	0.435894	Y
5	IC 620-51723/7	10.0	4.692384	50.0	347414.0	0.469238	Y
6	ICIS 620-51723/8	20.0	10.028532	50.0	346631.0	0.501427	Y
7	IC 620-51723/9	40.0	21.66998	50.0	352663.0	0.541749	Y
8	IC 620-51723/10	50.0	27.036437	50.0	364767.0	0.540729	Y
9	IC 620-51723/11	100.0	52.480754	50.0	383069.0	0.524808	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

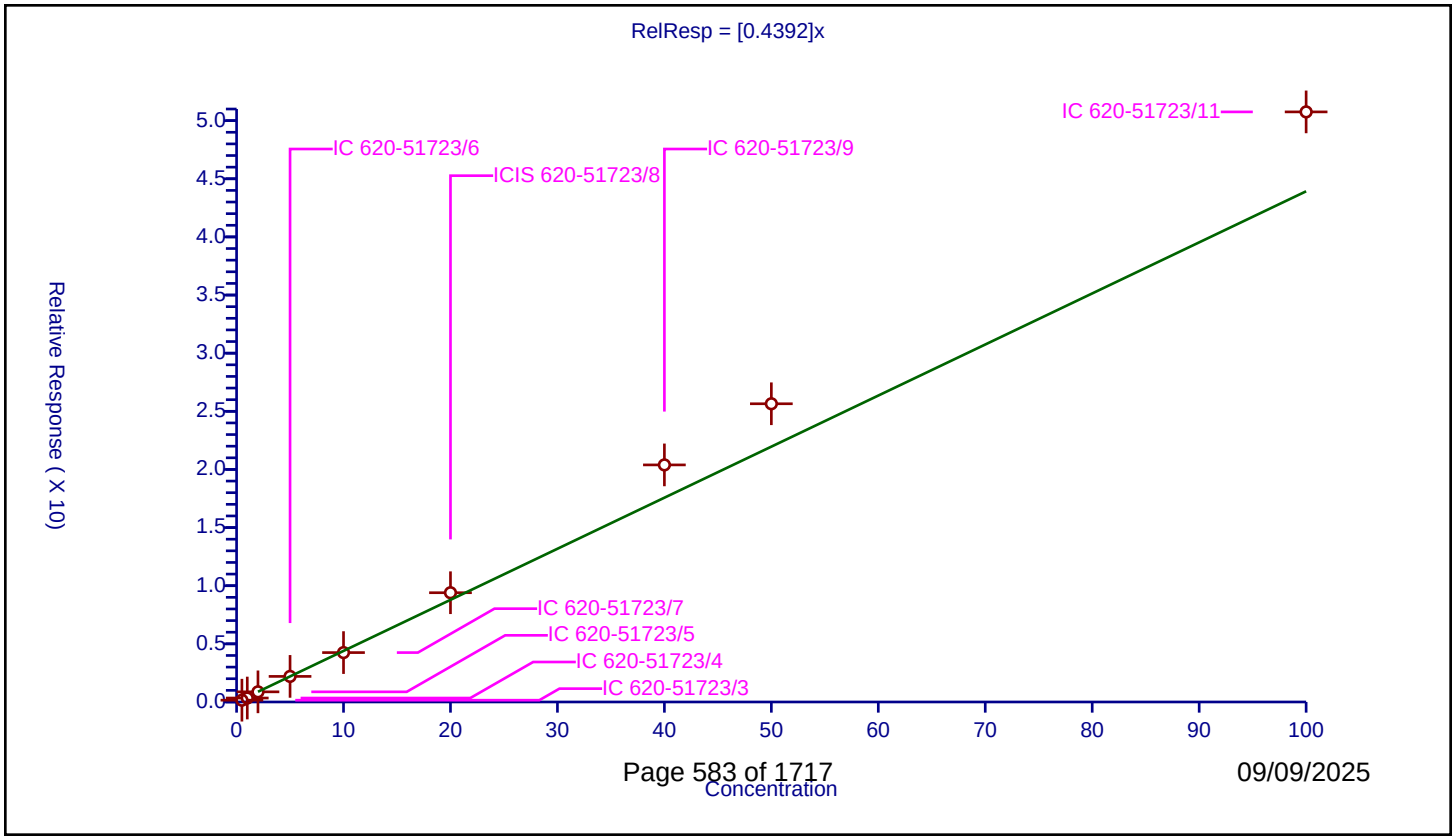
Curve Coefficients

Intercept:	0
Slope:	0.4392

Error Coefficients

Relative Standard Deviation:	16.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.154812	50.0	367866.0	0.309624	Y
2	IC 620-51723/4	1.0	0.341153	50.0	363913.0	0.341153	Y
3	IC 620-51723/5	2.0	0.873709	50.0	355782.0	0.436855	Y
4	IC 620-51723/6	5.0	2.201686	50.0	360065.0	0.440337	Y
5	IC 620-51723/7	10.0	4.248677	50.0	347414.0	0.424868	Y
6	ICIS 620-51723/8	20.0	9.397025	50.0	346631.0	0.469851	Y
7	IC 620-51723/9	40.0	20.389862	50.0	352663.0	0.509747	Y
8	IC 620-51723/10	50.0	25.65021	50.0	364767.0	0.513004	Y
9	IC 620-51723/11	100.0	50.751431	50.0	383069.0	0.507514	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

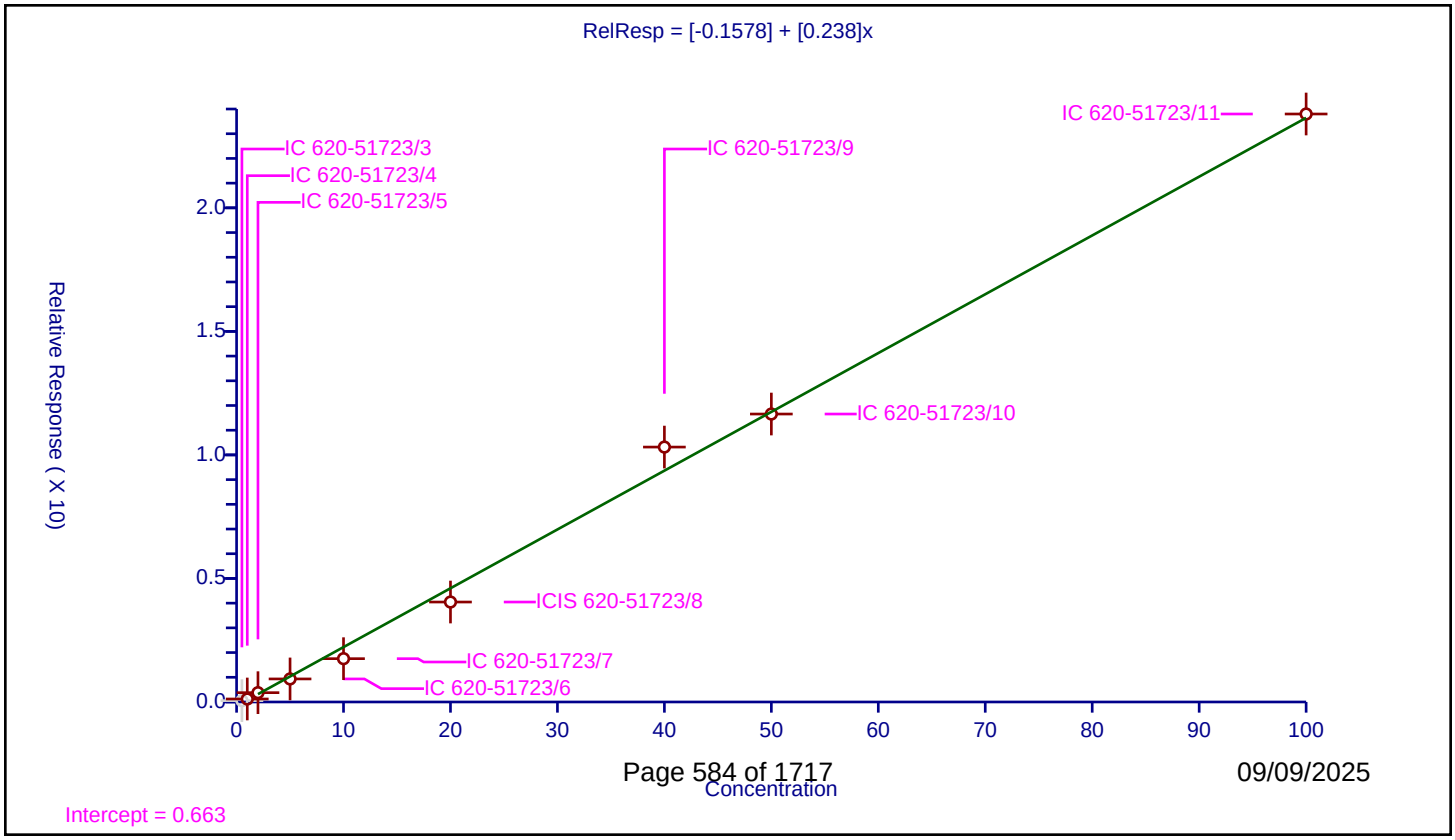
Curve Coefficients

Intercept:	-0.1578
Slope:	0.238

Error Coefficients

Relative Standard Deviation:	13.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.054639	50.0	367866.0	0.109279	N
2	IC 620-51723/4	1.0	0.121732	50.0	363913.0	0.121732	Y
3	IC 620-51723/5	2.0	0.376776	50.0	355782.0	0.188388	Y
4	IC 620-51723/6	5.0	0.933026	50.0	360065.0	0.186605	Y
5	IC 620-51723/7	10.0	1.752952	50.0	347414.0	0.175295	Y
6	ICIS 620-51723/8	20.0	4.046089	50.0	346631.0	0.202304	Y
7	IC 620-51723/9	40.0	10.317215	50.0	352663.0	0.25793	Y
8	IC 620-51723/10	50.0	11.655248	50.0	364767.0	0.233105	Y
9	IC 620-51723/11	100.0	23.798324	50.0	383069.0	0.237983	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

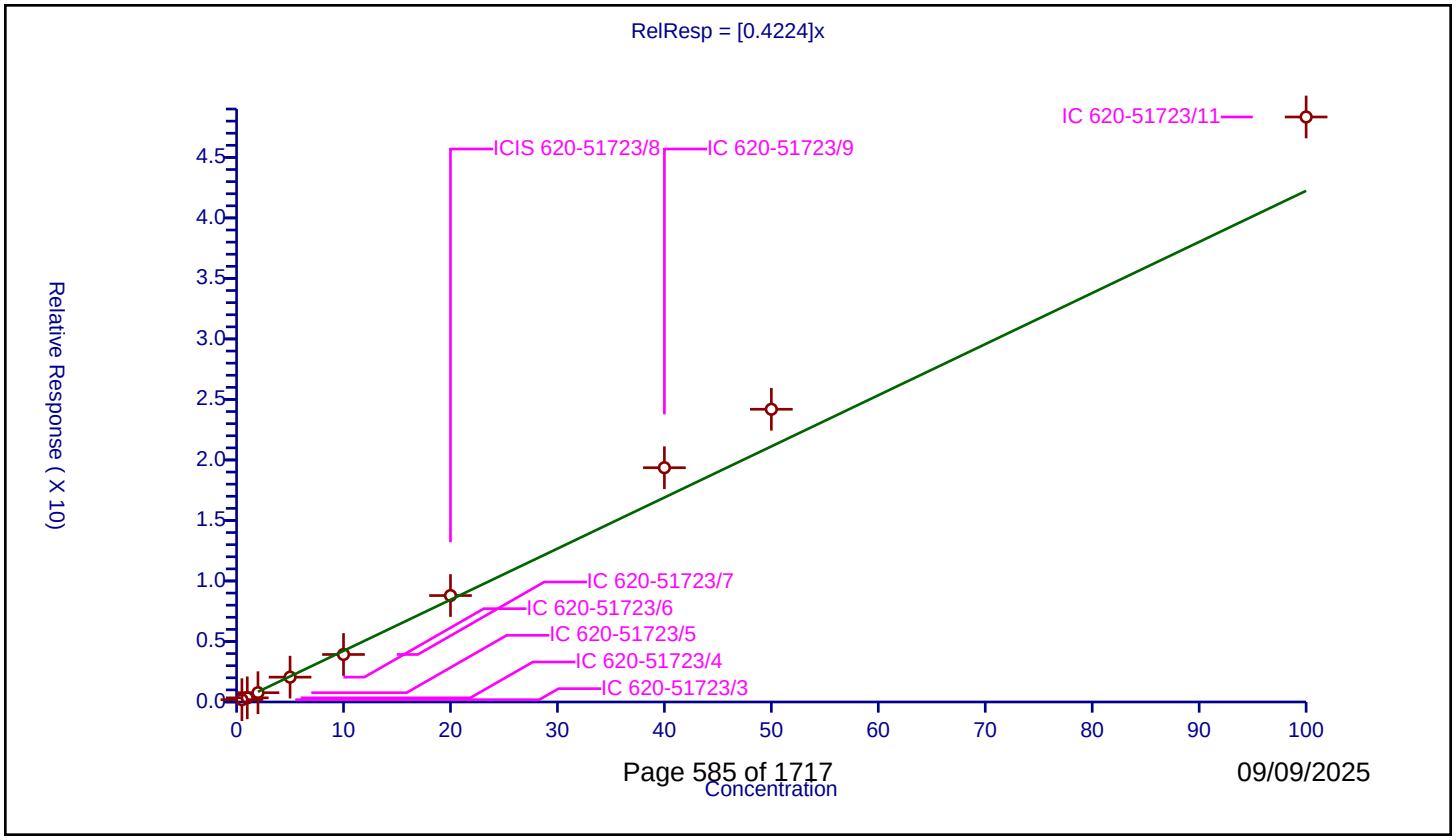
Curve Coefficients

Intercept:	0
Slope:	0.4224

Error Coefficients

Relative Standard Deviation:	12.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.190559	50.0	367866.0	0.381117	Y
2	IC 620-51723/4	1.0	0.34239	50.0	363913.0	0.34239	Y
3	IC 620-51723/5	2.0	0.768589	50.0	355782.0	0.384294	Y
4	IC 620-51723/6	5.0	2.051852	50.0	360065.0	0.41037	Y
5	IC 620-51723/7	10.0	3.926439	50.0	347414.0	0.392644	Y
6	ICIS 620-51723/8	20.0	8.794655	50.0	346631.0	0.439733	Y
7	IC 620-51723/9	40.0	19.360409	50.0	352663.0	0.48401	Y
8	IC 620-51723/10	50.0	24.189825	50.0	364767.0	0.483797	Y
9	IC 620-51723/11	100.0	48.341552	50.0	383069.0	0.483416	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

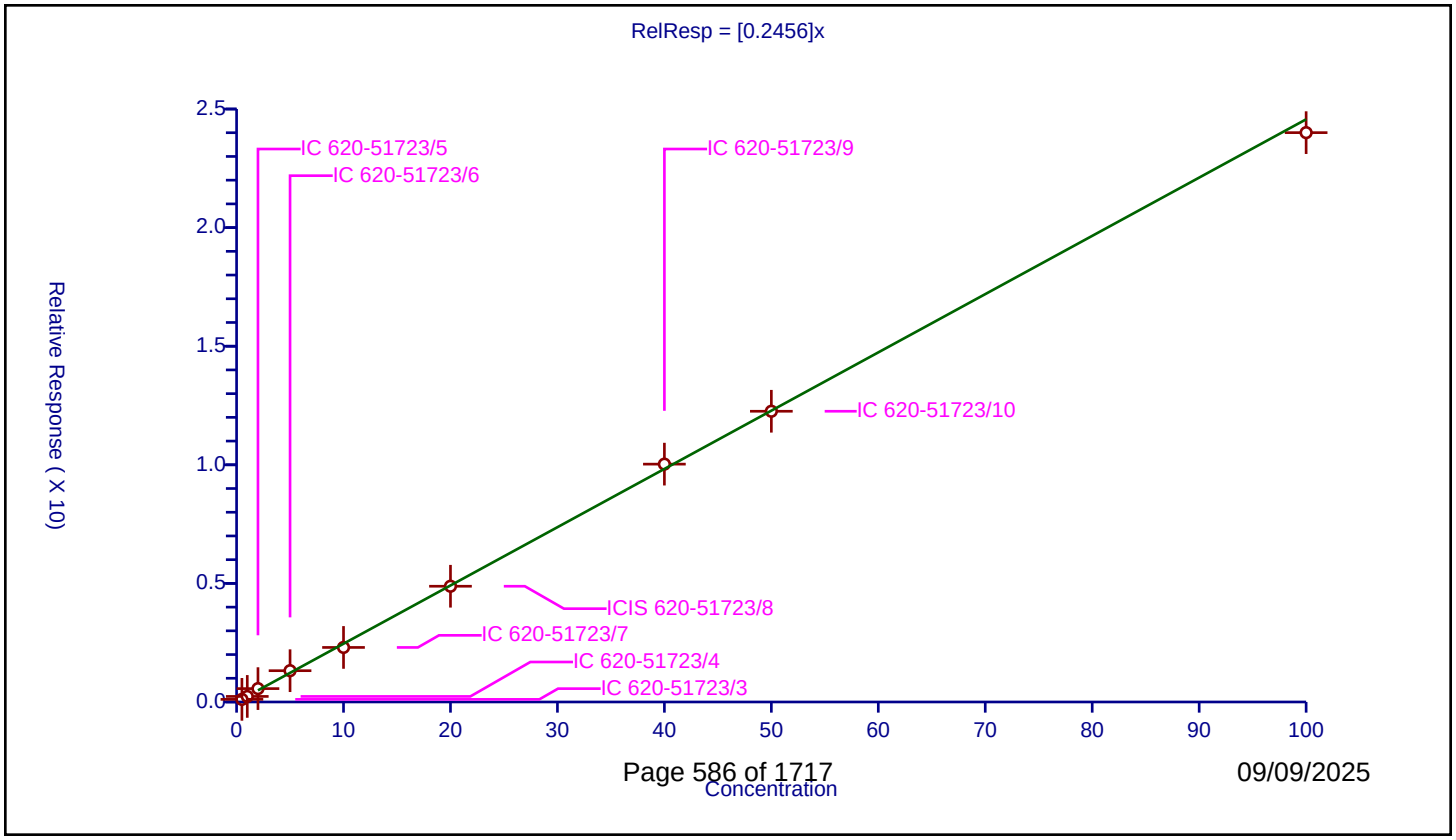
Curve Coefficients

Intercept:	0
Slope:	0.2456

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.11023	50.0	367866.0	0.220461	Y
2	IC 620-51723/4	1.0	0.234809	50.0	363913.0	0.234809	Y
3	IC 620-51723/5	2.0	0.563547	50.0	355782.0	0.281774	Y
4	IC 620-51723/6	5.0	1.319484	50.0	360065.0	0.263897	Y
5	IC 620-51723/7	10.0	2.299994	50.0	347414.0	0.229999	Y
6	ICIS 620-51723/8	20.0	4.880262	50.0	346631.0	0.244013	Y
7	IC 620-51723/9	40.0	10.028129	50.0	352663.0	0.250703	Y
8	IC 620-51723/10	50.0	12.257414	50.0	364767.0	0.245148	Y
9	IC 620-51723/11	100.0	24.004161	50.0	383069.0	0.240042	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

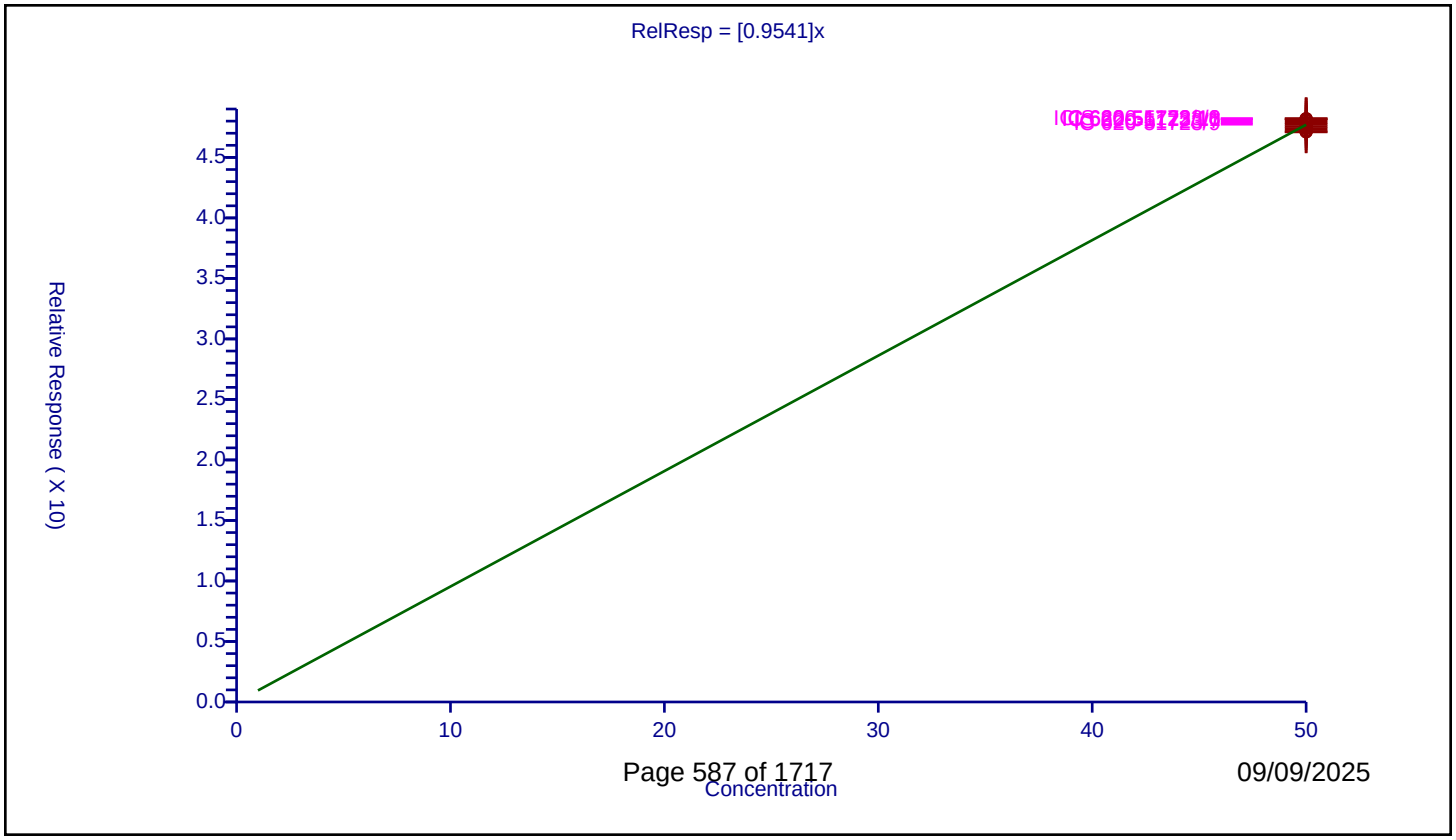
Curve Coefficients

Intercept:	0
Slope:	0.9541

Error Coefficients

Relative Standard Deviation:	0.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	50.0	47.108322	50.0	367866.0	0.942166	Y
2	IC 620-51723/4	50.0	47.150555	50.0	363913.0	0.943011	Y
3	IC 620-51723/5	50.0	47.375359	50.0	355782.0	0.947507	Y
4	IC 620-51723/6	50.0	47.554747	50.0	360065.0	0.951095	Y
5	IC 620-51723/7	50.0	47.899768	50.0	347414.0	0.957995	Y
6	ICIS 620-51723/8	50.0	48.193612	50.0	346631.0	0.963872	Y
7	IC 620-51723/9	50.0	47.744731	50.0	352663.0	0.954895	Y
8	IC 620-51723/10	50.0	48.193504	50.0	364767.0	0.96387	Y
9	IC 620-51723/11	50.0	48.105955	50.0	383069.0	0.962119	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

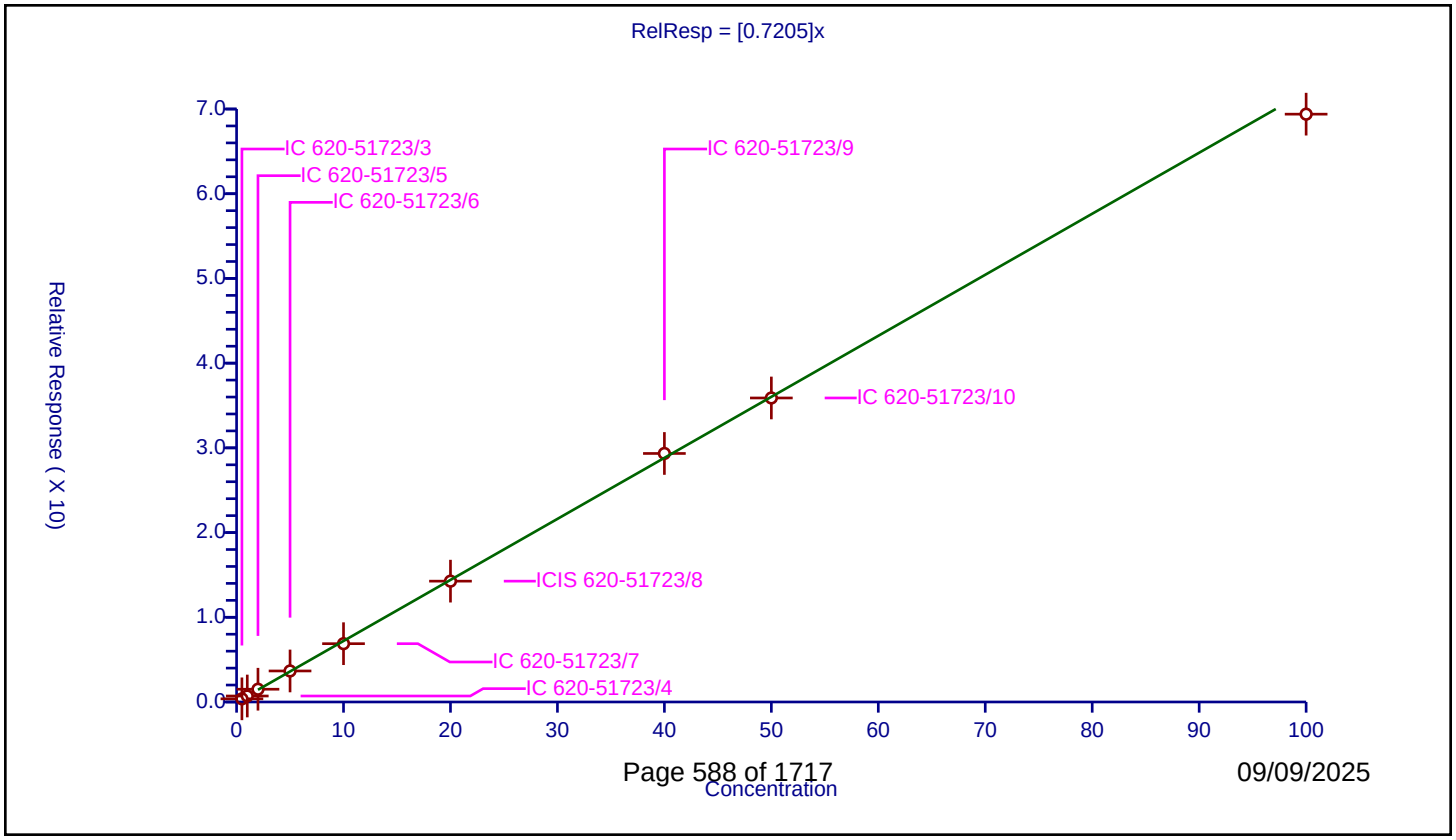
Curve Coefficients

Intercept:	0
Slope:	0.7205

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.371467	50.0	367866.0	0.742934	Y
2	IC 620-51723/4	1.0	0.707861	50.0	363913.0	0.707861	Y
3	IC 620-51723/5	2.0	1.507805	50.0	355782.0	0.753903	Y
4	IC 620-51723/6	5.0	3.663089	50.0	360065.0	0.732618	Y
5	IC 620-51723/7	10.0	6.883862	50.0	347414.0	0.688386	Y
6	ICIS 620-51723/8	20.0	14.264448	50.0	346631.0	0.713222	Y
7	IC 620-51723/9	40.0	29.337781	50.0	352663.0	0.733445	Y
8	IC 620-51723/10	50.0	35.889897	50.0	364767.0	0.717798	Y
9	IC 620-51723/11	100.0	69.392068	50.0	383069.0	0.693921	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

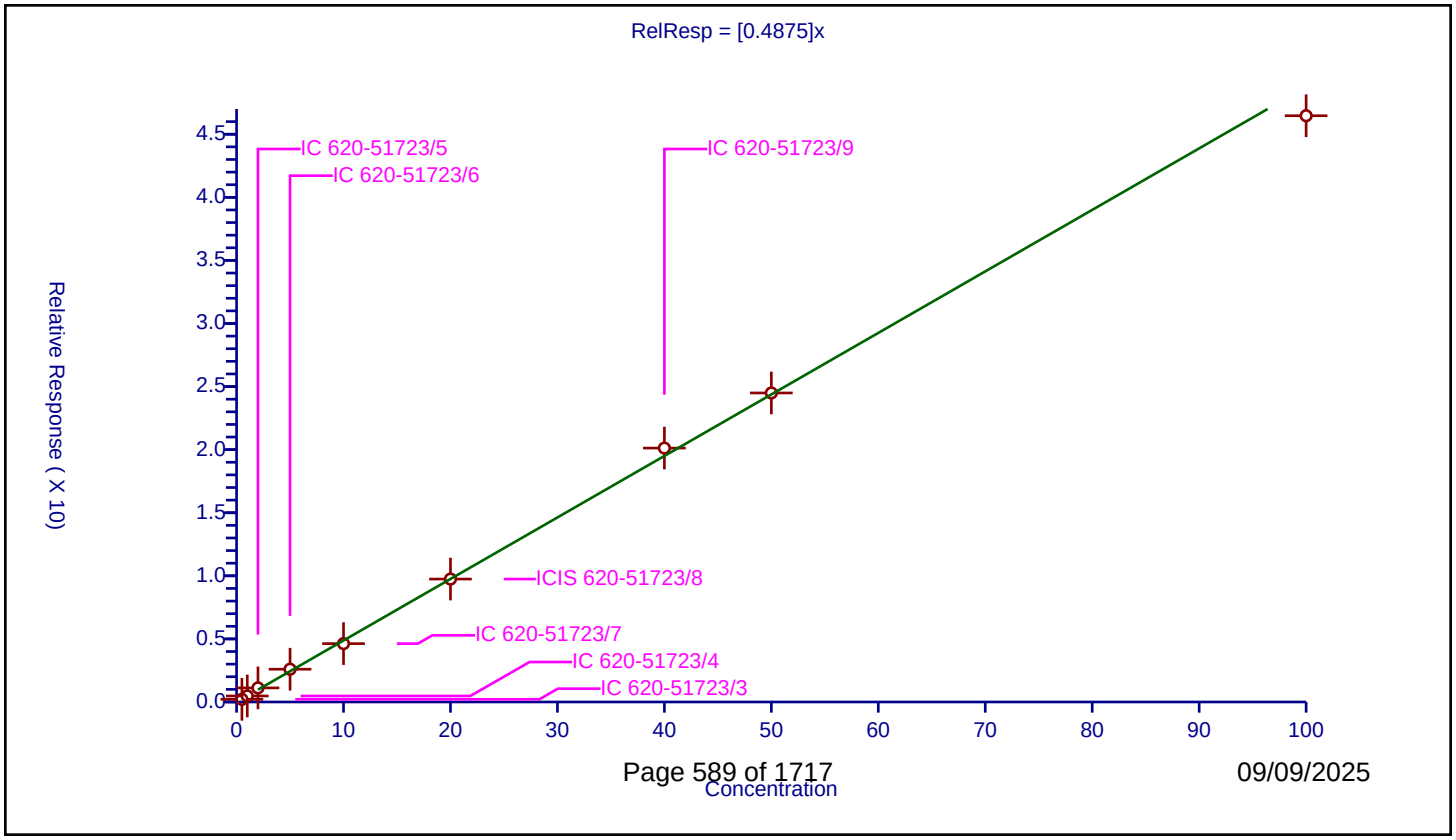
Curve Coefficients

Intercept:	0
Slope:	0.4875

Error Coefficients

Relative Standard Deviation:	7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.213393	50.0	367866.0	0.426786	Y
2	IC 620-51723/4	1.0	0.475801	50.0	363913.0	0.475801	Y
3	IC 620-51723/5	2.0	1.117117	50.0	355782.0	0.558558	Y
4	IC 620-51723/6	5.0	2.596753	50.0	360065.0	0.519351	Y
5	IC 620-51723/7	10.0	4.625893	50.0	347414.0	0.462589	Y
6	ICIS 620-51723/8	20.0	9.742925	50.0	346631.0	0.487146	Y
7	IC 620-51723/9	40.0	20.124878	50.0	352663.0	0.503122	Y
8	IC 620-51723/10	50.0	24.493718	50.0	364767.0	0.489874	Y
9	IC 620-51723/11	100.0	46.466955	50.0	383069.0	0.46467	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

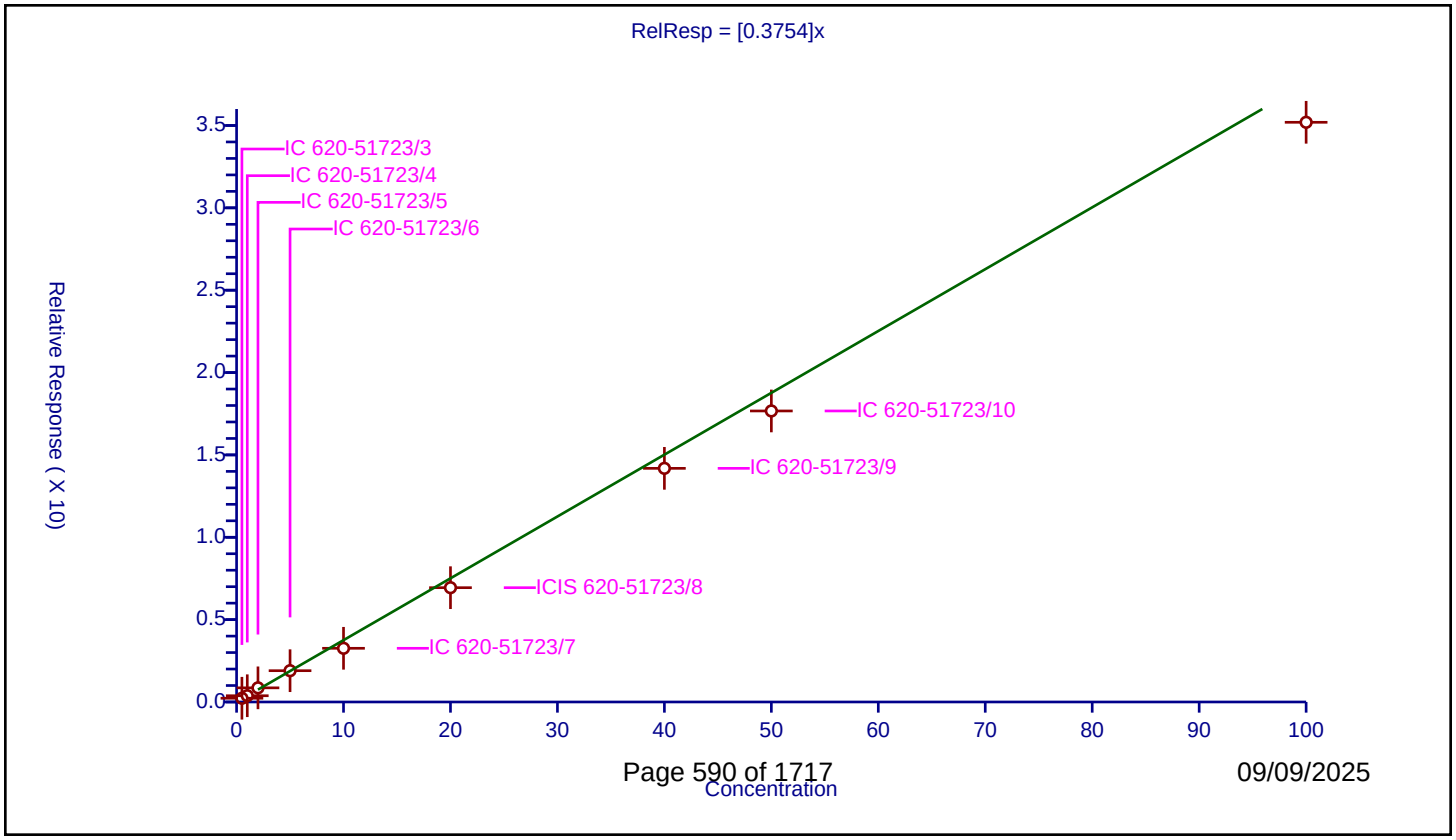
Curve Coefficients

Intercept:	0
Slope:	0.3754

Error Coefficients

Relative Standard Deviation:	11.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.2278	50.0	367866.0	0.455601	Y
2	IC 620-51723/4	1.0	0.380173	50.0	363913.0	0.380173	Y
3	IC 620-51723/5	2.0	0.859375	50.0	355782.0	0.429687	Y
4	IC 620-51723/6	5.0	1.899518	50.0	360065.0	0.379904	Y
5	IC 620-51723/7	10.0	3.259943	50.0	347414.0	0.325994	Y
6	ICIS 620-51723/8	20.0	6.939801	50.0	346631.0	0.34699	Y
7	IC 620-51723/9	40.0	14.18493	50.0	352663.0	0.354623	Y
8	IC 620-51723/10	50.0	17.667854	50.0	364767.0	0.353357	Y
9	IC 620-51723/11	100.0	35.193921	50.0	383069.0	0.351939	Y



Calibration / 2-Hexanone

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

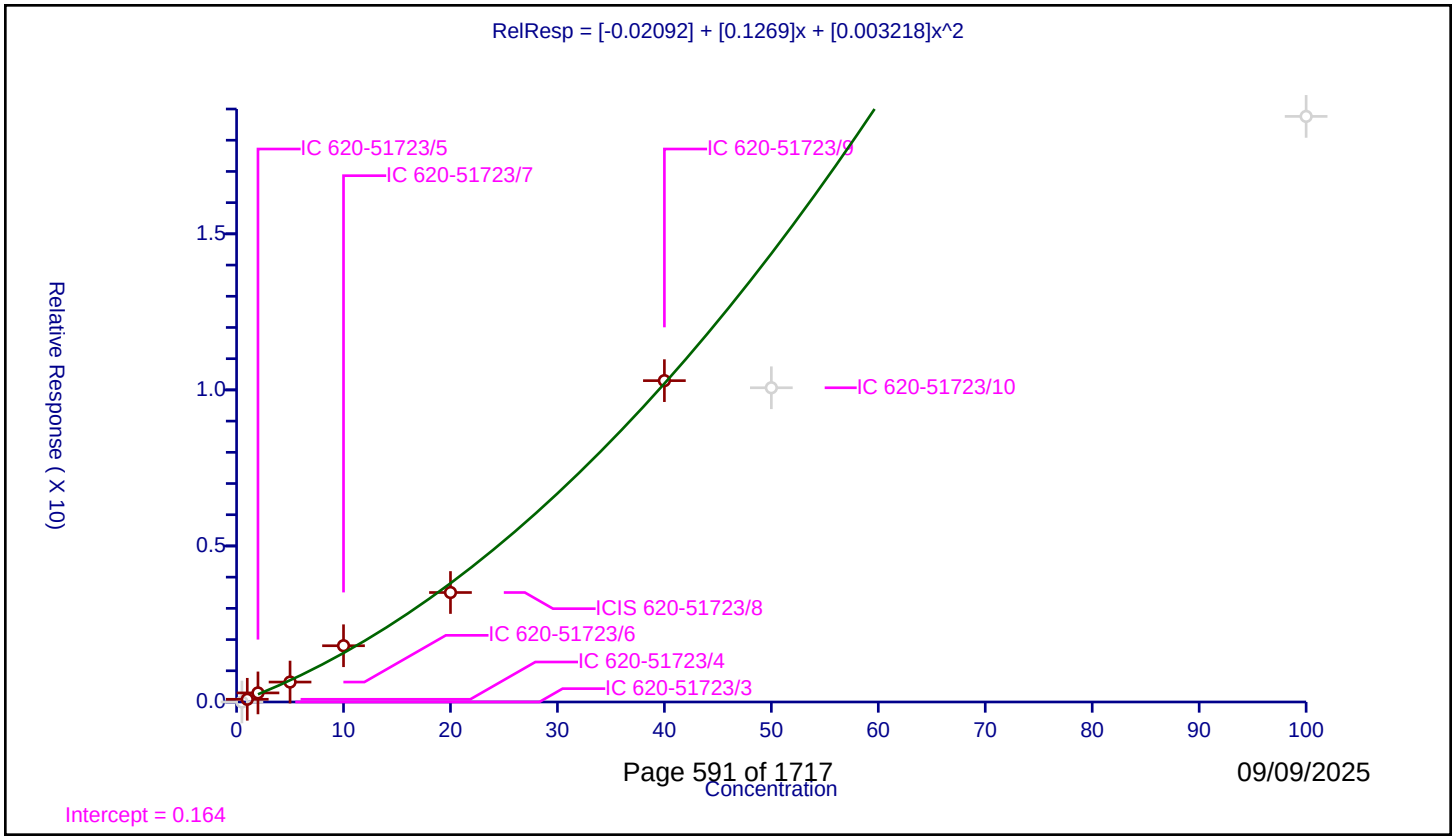
Curve Coefficients

Intercept:	-0.02092
Slope:	0.1269
Second Order:	0.003218

Error Coefficients

Relative Standard Deviation:	16.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.0	50.0	367866.0	0.0	N
2	IC 620-51723/4	1.0	0.086559	50.0	363913.0	0.086559	Y
3	IC 620-51723/5	2.0	0.291049	50.0	355782.0	0.145525	Y
4	IC 620-51723/6	5.0	0.638774	50.0	360065.0	0.127755	Y
5	IC 620-51723/7	10.0	1.80246	50.0	347414.0	0.180246	Y
6	ICIS 620-51723/8	20.0	3.507909	50.0	346631.0	0.175395	Y
7	IC 620-51723/9	40.0	10.296941	50.0	352663.0	0.257424	Y
8	IC 620-51723/10	50.0	10.068208	50.0	364767.0	0.201364	N
9	IC 620-51723/11	100.0	18.762938	50.0	383069.0	0.187629	N



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

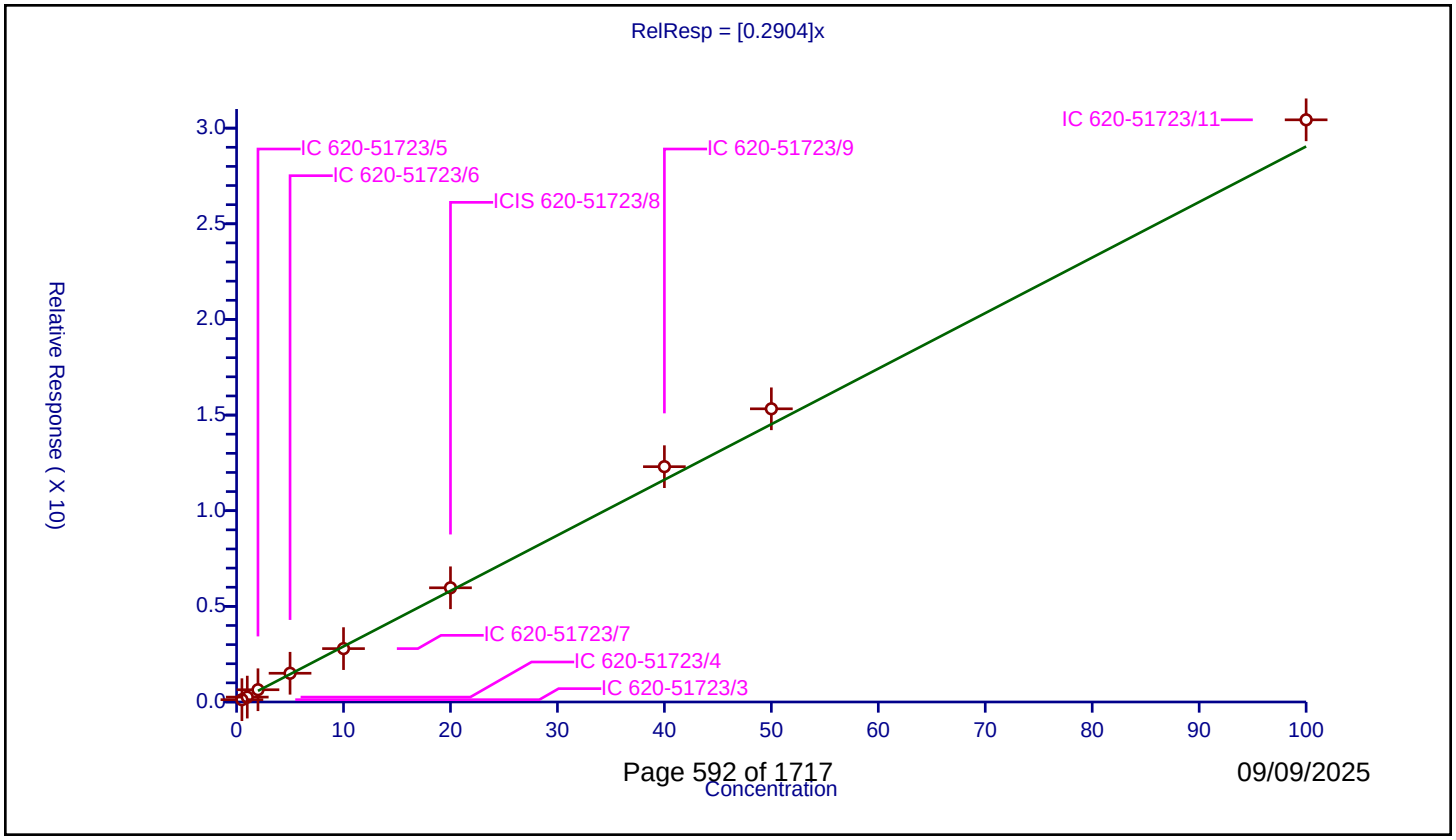
Curve Coefficients

Intercept:	0
Slope:	0.2904

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.120424	50.0	367866.0	0.240849	Y
2	IC 620-51723/4	1.0	0.25638	50.0	363913.0	0.25638	Y
3	IC 620-51723/5	2.0	0.640139	50.0	355782.0	0.32007	Y
4	IC 620-51723/6	5.0	1.502645	50.0	360065.0	0.300529	Y
5	IC 620-51723/7	10.0	2.790907	50.0	347414.0	0.279091	Y
6	ICIS 620-51723/8	20.0	5.970182	50.0	346631.0	0.298509	Y
7	IC 620-51723/9	40.0	12.301687	50.0	352663.0	0.307542	Y
8	IC 620-51723/10	50.0	15.32773	50.0	364767.0	0.306555	Y
9	IC 620-51723/11	100.0	30.434856	50.0	383069.0	0.304349	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

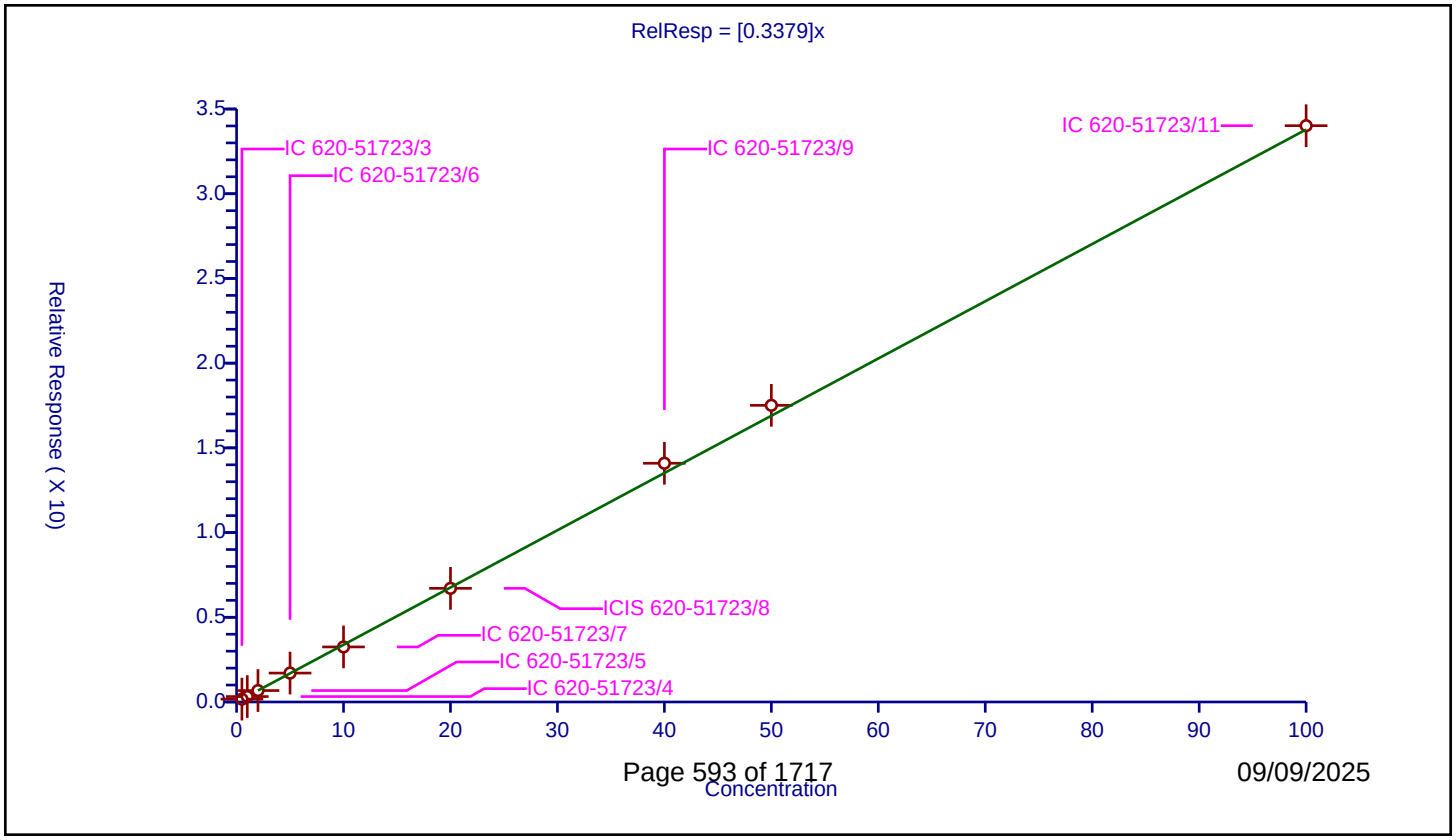
Curve Coefficients

Intercept:	0
Slope:	0.3379

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.169219	50.0	367866.0	0.338438	Y
2	IC 620-51723/4	1.0	0.320956	50.0	363913.0	0.320956	Y
3	IC 620-51723/5	2.0	0.674711	50.0	355782.0	0.337355	Y
4	IC 620-51723/6	5.0	1.706359	50.0	360065.0	0.341272	Y
5	IC 620-51723/7	10.0	3.249437	50.0	347414.0	0.324944	Y
6	ICIS 620-51723/8	20.0	6.707854	50.0	346631.0	0.335393	Y
7	IC 620-51723/9	40.0	14.090931	50.0	352663.0	0.352273	Y
8	IC 620-51723/10	50.0	17.510356	50.0	364767.0	0.350207	Y
9	IC 620-51723/11	100.0	34.015673	50.0	383069.0	0.340157	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

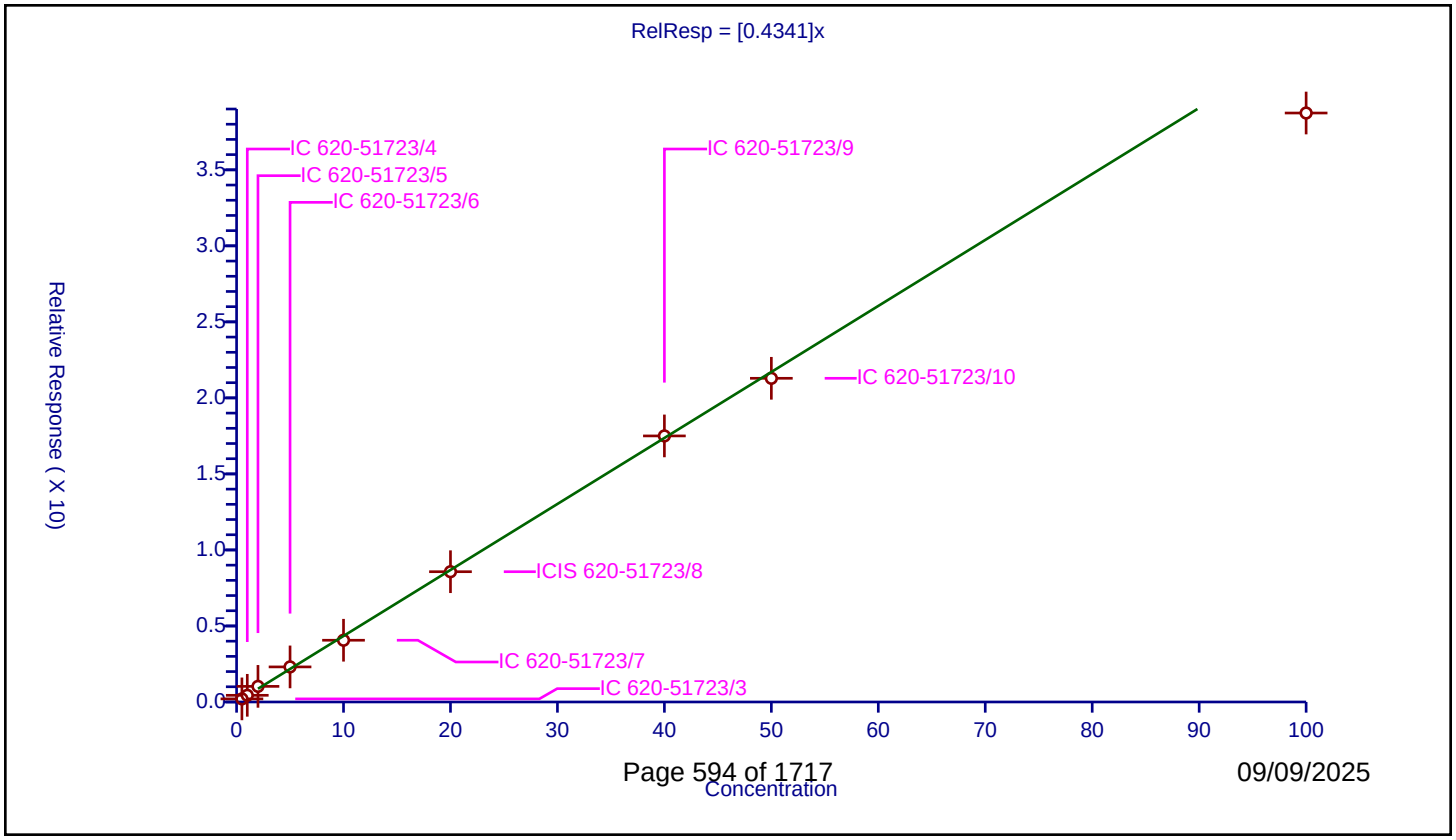
Curve Coefficients

Intercept:	0
Slope:	0.4341

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.203934	50.0	255720.0	0.407868	Y
2	IC 620-51723/4	1.0	0.438771	50.0	251042.0	0.438771	Y
3	IC 620-51723/5	2.0	1.027448	50.0	249891.0	0.513724	Y
4	IC 620-51723/6	5.0	2.307644	50.0	253397.0	0.461529	Y
5	IC 620-51723/7	10.0	4.061416	50.0	248891.0	0.406142	Y
6	ICIS 620-51723/8	20.0	8.56842	50.0	249731.0	0.428421	Y
7	IC 620-51723/9	40.0	17.498525	50.0	262745.0	0.437463	Y
8	IC 620-51723/10	50.0	21.2885	50.0	276593.0	0.42577	Y
9	IC 620-51723/11	100.0	38.737224	50.0	312787.0	0.387372	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

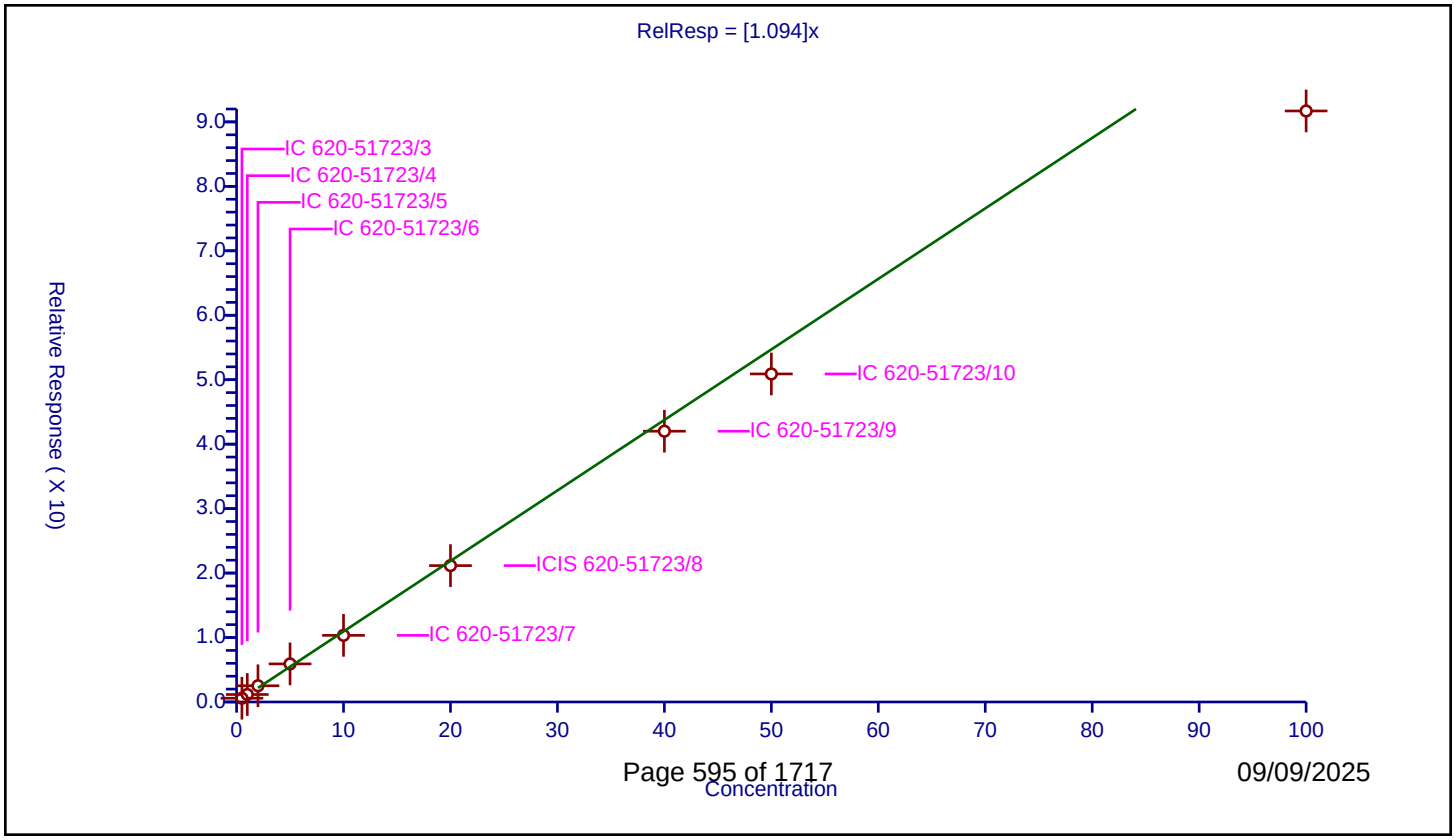
Curve Coefficients

Intercept:	0
Slope:	1.094

Error Coefficients

Relative Standard Deviation:	9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.583451	50.0	255720.0	1.166901	Y
2	IC 620-51723/4	1.0	1.162156	50.0	251042.0	1.162156	Y
3	IC 620-51723/5	2.0	2.515897	50.0	249891.0	1.257948	Y
4	IC 620-51723/6	5.0	5.910094	50.0	253397.0	1.182019	Y
5	IC 620-51723/7	10.0	10.337055	50.0	248891.0	1.033706	Y
6	ICIS 620-51723/8	20.0	21.159367	50.0	249731.0	1.057968	Y
7	IC 620-51723/9	40.0	42.01393	50.0	262745.0	1.050348	Y
8	IC 620-51723/10	50.0	50.894997	50.0	276593.0	1.0179	Y
9	IC 620-51723/11	100.0	91.697225	50.0	312787.0	0.916972	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

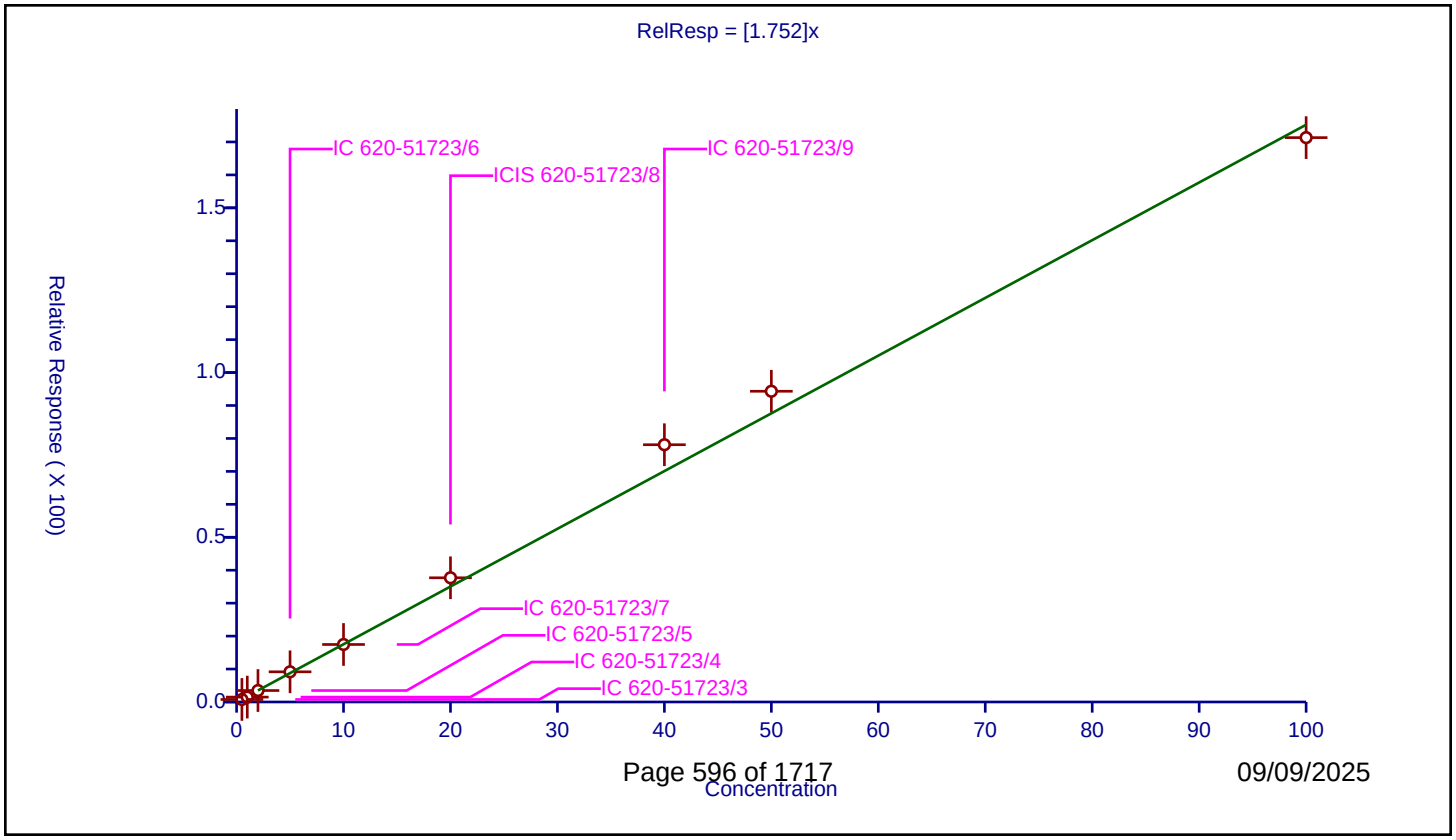
Curve Coefficients

Intercept:	0
Slope:	1.752

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.766268	50.0	255720.0	1.532536	Y
2	IC 620-51723/4	1.0	1.48262	50.0	251042.0	1.48262	Y
3	IC 620-51723/5	2.0	3.480518	50.0	249891.0	1.740259	Y
4	IC 620-51723/6	5.0	9.160527	50.0	253397.0	1.832105	Y
5	IC 620-51723/7	10.0	17.453825	50.0	248891.0	1.745383	Y
6	ICIS 620-51723/8	20.0	37.702568	50.0	249731.0	1.885128	Y
7	IC 620-51723/9	40.0	78.097585	50.0	262745.0	1.95244	Y
8	IC 620-51723/10	50.0	94.320717	50.0	276593.0	1.886414	Y
9	IC 620-51723/11	100.0	171.316423	50.0	312787.0	1.713164	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

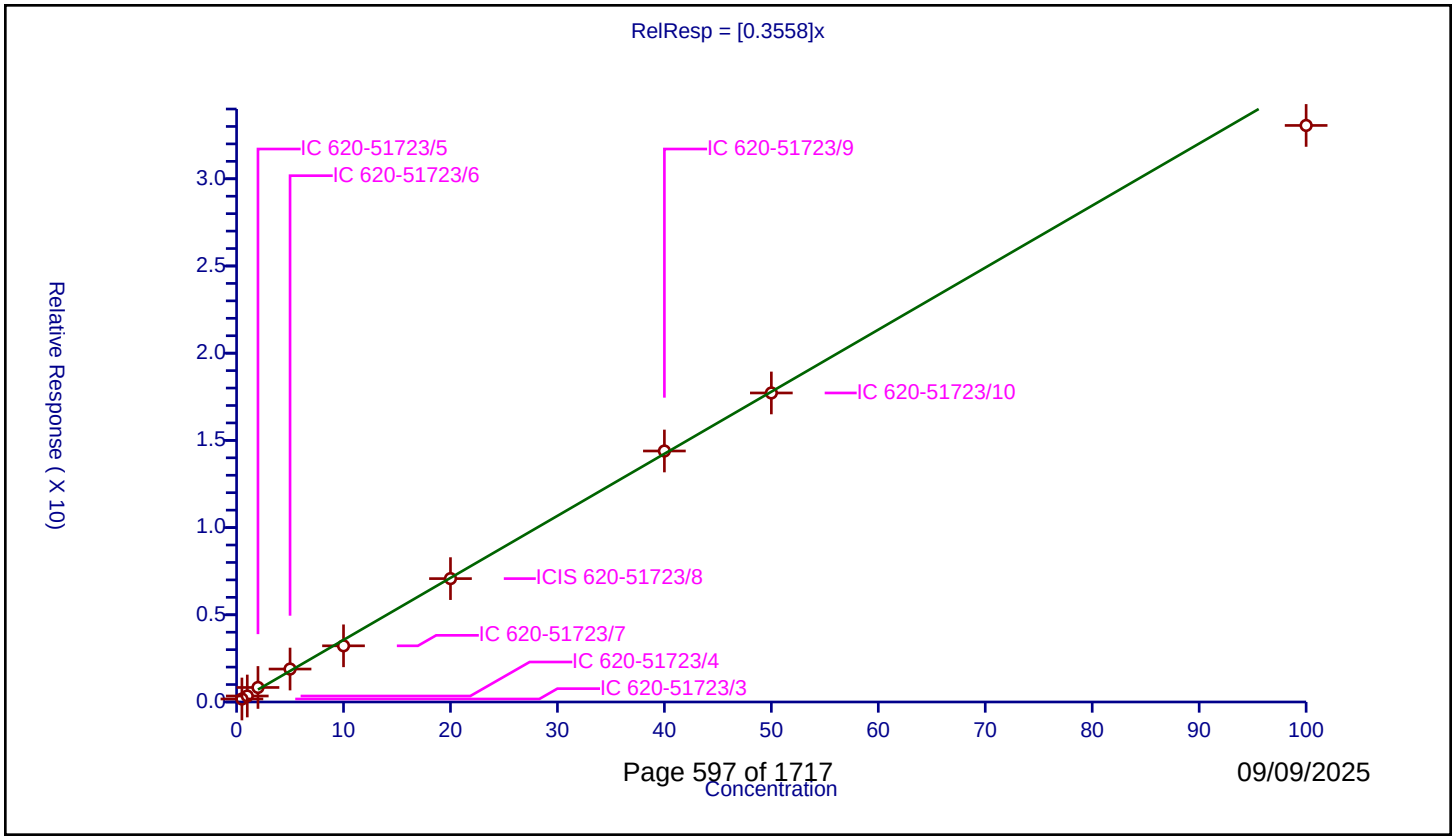
Curve Coefficients

Intercept:	0
Slope:	0.3558

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.172259	50.0	255720.0	0.344517	Y
2	IC 620-51723/4	1.0	0.342771	50.0	251042.0	0.342771	Y
3	IC 620-51723/5	2.0	0.832363	50.0	249891.0	0.416181	Y
4	IC 620-51723/6	5.0	1.889328	50.0	253397.0	0.377866	Y
5	IC 620-51723/7	10.0	3.221491	50.0	248891.0	0.322149	Y
6	ICIS 620-51723/8	20.0	7.074612	50.0	249731.0	0.353731	Y
7	IC 620-51723/9	40.0	14.392472	50.0	262745.0	0.359812	Y
8	IC 620-51723/10	50.0	17.718272	50.0	276593.0	0.354365	Y
9	IC 620-51723/11	100.0	33.058119	50.0	312787.0	0.330581	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

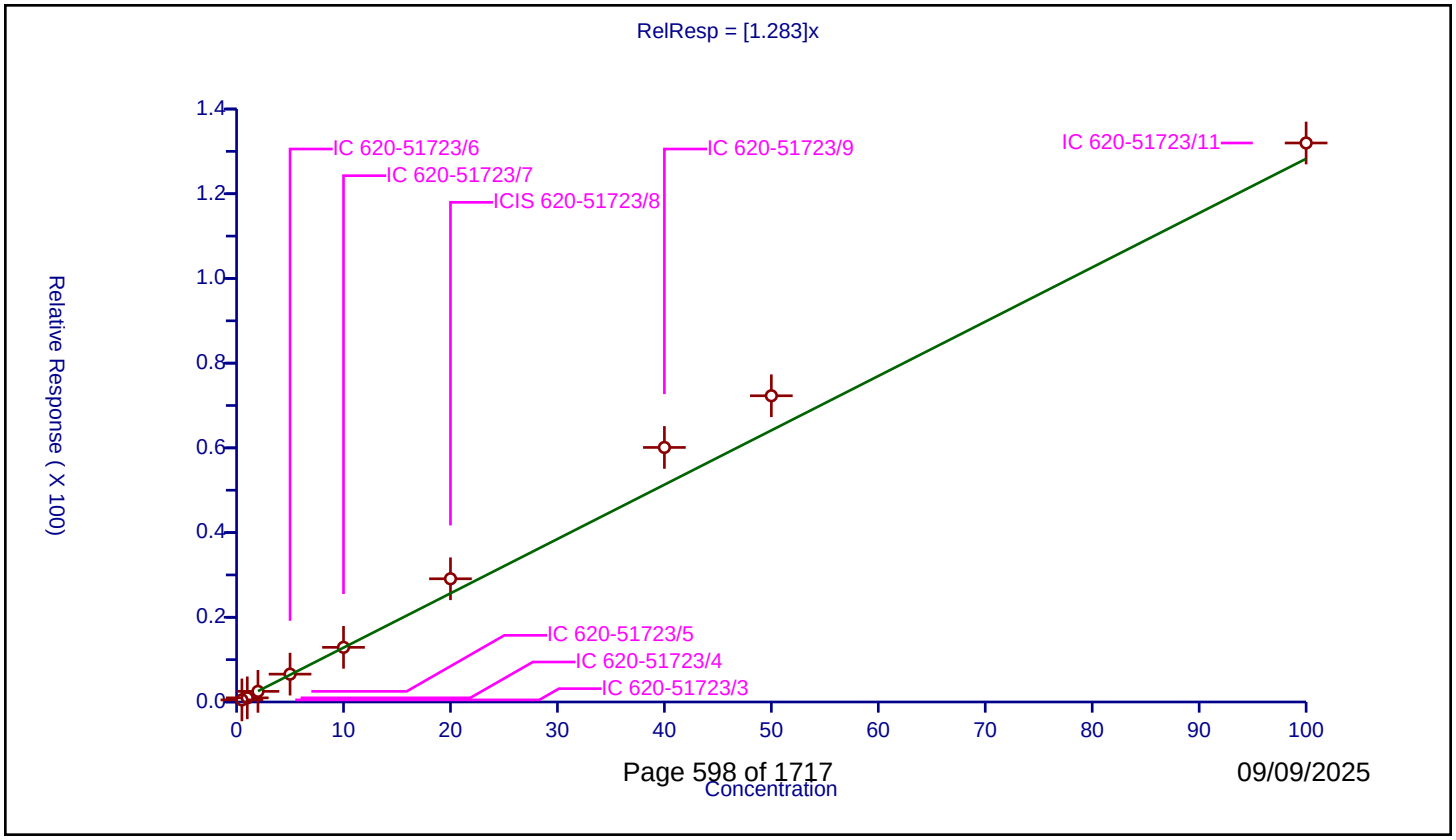
Curve Coefficients

Intercept:	0
Slope:	1.283

Error Coefficients

Relative Standard Deviation:	14.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.491553	50.0	255720.0	0.983107	Y
2	IC 620-51723/4	1.0	0.976928	50.0	251042.0	0.976928	Y
3	IC 620-51723/5	2.0	2.509494	50.0	249891.0	1.254747	Y
4	IC 620-51723/6	5.0	6.578215	50.0	253397.0	1.315643	Y
5	IC 620-51723/7	10.0	12.903038	50.0	248891.0	1.290304	Y
6	ICIS 620-51723/8	20.0	29.090702	50.0	249731.0	1.454535	Y
7	IC 620-51723/9	40.0	60.098765	50.0	262745.0	1.502469	Y
8	IC 620-51723/10	50.0	72.297744	50.0	276593.0	1.445955	Y
9	IC 620-51723/11	100.0	131.98007	50.0	312787.0	1.319801	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

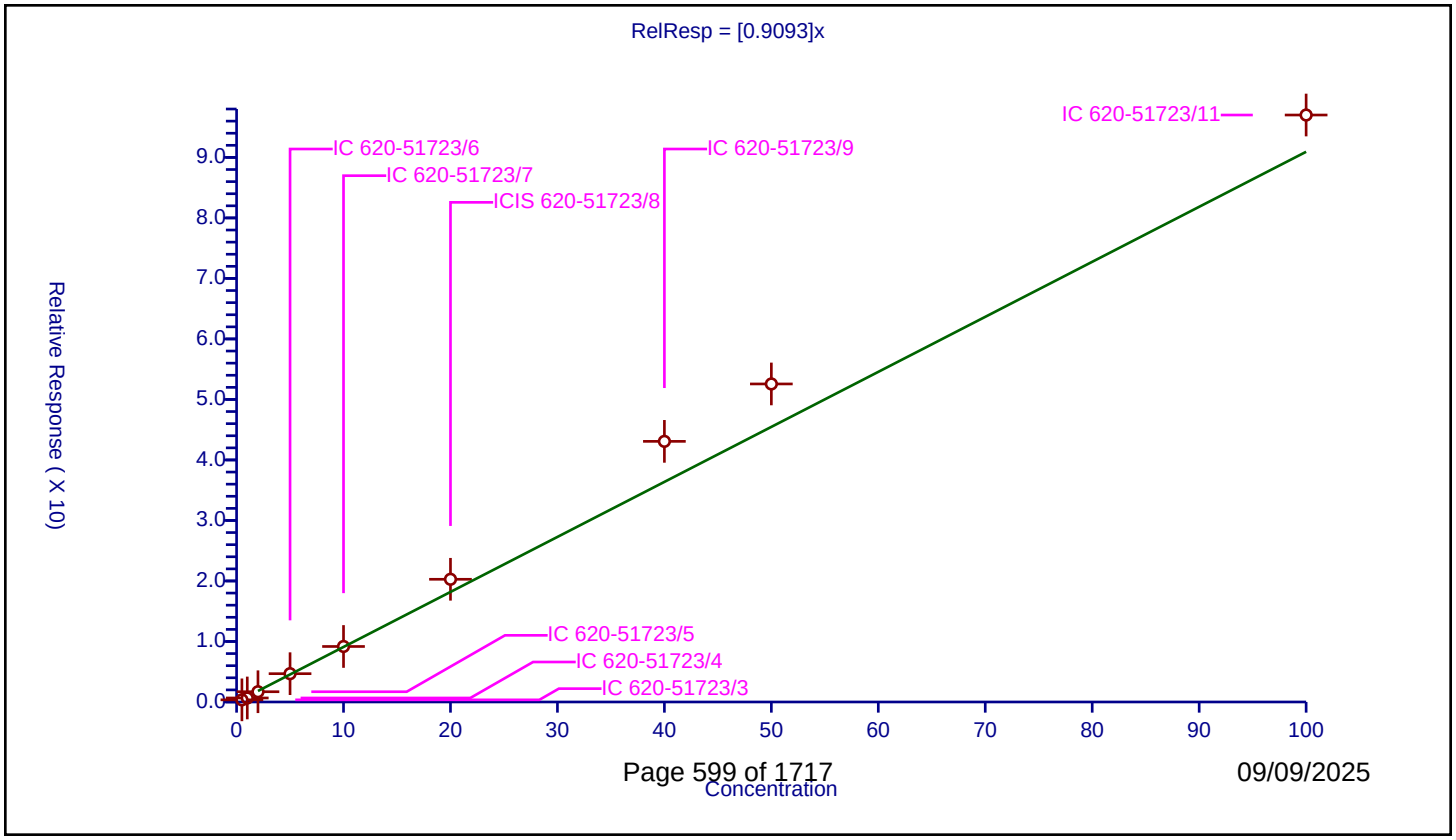
Curve Coefficients

Intercept:	0
Slope:	0.9093

Error Coefficients

Relative Standard Deviation:	16.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.353903	50.0	255720.0	0.707805	Y
2	IC 620-51723/4	1.0	0.662837	50.0	251042.0	0.662837	Y
3	IC 620-51723/5	2.0	1.69614	50.0	249891.0	0.84807	Y
4	IC 620-51723/6	5.0	4.678035	50.0	253397.0	0.935607	Y
5	IC 620-51723/7	10.0	9.174096	50.0	248891.0	0.91741	Y
6	ICIS 620-51723/8	20.0	20.277819	50.0	249731.0	1.013891	Y
7	IC 620-51723/9	40.0	43.074654	50.0	262745.0	1.076866	Y
8	IC 620-51723/10	50.0	52.561887	50.0	276593.0	1.051238	Y
9	IC 620-51723/11	100.0	97.007868	50.0	312787.0	0.970079	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

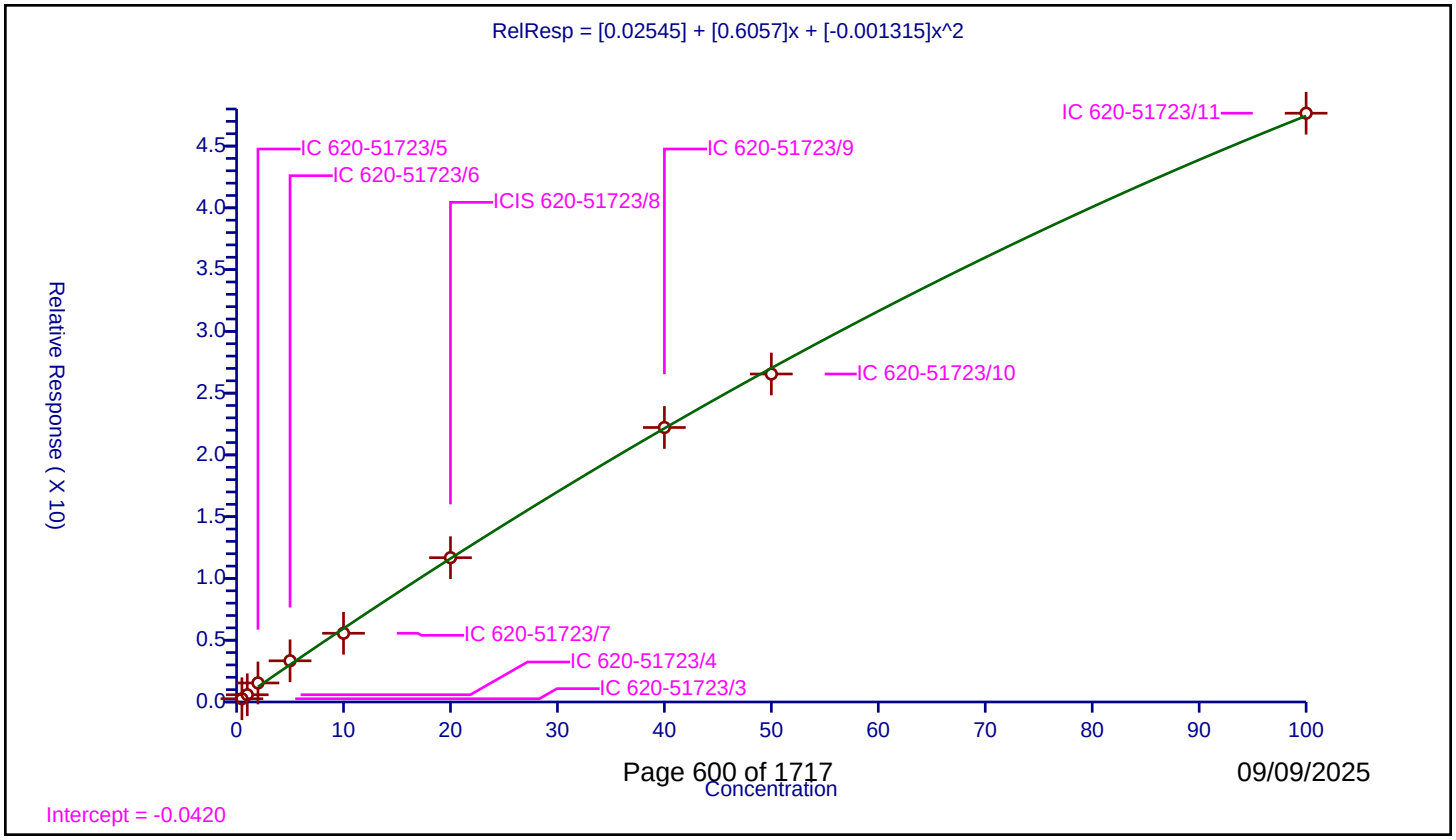
Curve Coefficients

Intercept:	0.02545
Slope:	0.6057
Second Order:	-0.001315

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.262201	50.0	255720.0	0.524402	Y
2	IC 620-51723/4	1.0	0.585161	50.0	251042.0	0.585161	Y
3	IC 620-51723/5	2.0	1.541072	50.0	249891.0	0.770536	Y
4	IC 620-51723/6	5.0	3.334294	50.0	253397.0	0.666859	Y
5	IC 620-51723/7	10.0	5.562877	50.0	248891.0	0.556288	Y
6	ICIS 620-51723/8	20.0	11.681369	50.0	249731.0	0.584068	Y
7	IC 620-51723/9	40.0	22.220214	50.0	262745.0	0.555505	Y
8	IC 620-51723/10	50.0	26.54966	50.0	276593.0	0.530993	Y
9	IC 620-51723/11	100.0	47.661348	50.0	312787.0	0.476613	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

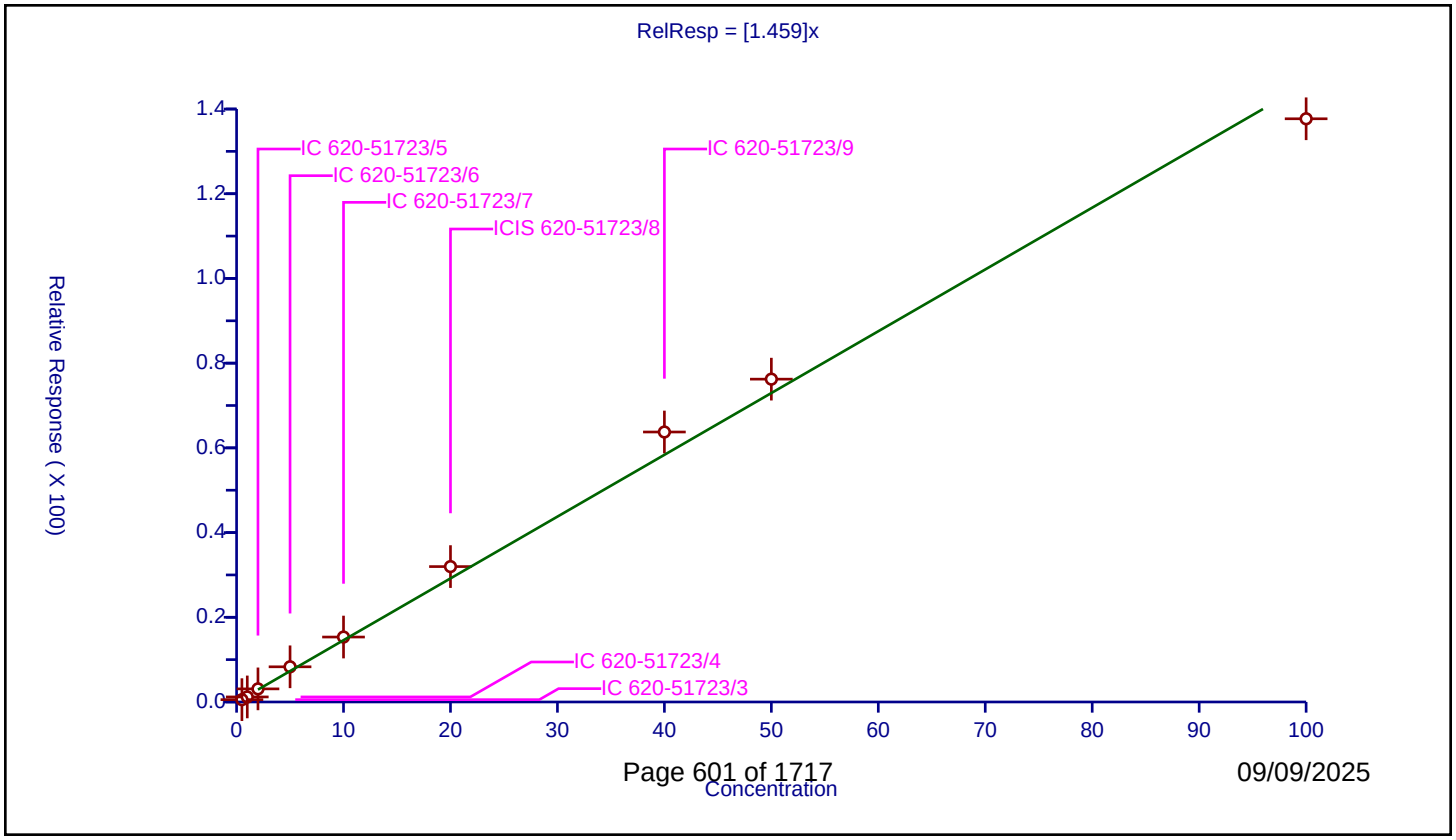
Curve Coefficients

Intercept:	0
Slope:	1.459

Error Coefficients

Relative Standard Deviation:	13.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.548256	50.0	255720.0	1.096512	Y
2	IC 620-51723/4	1.0	1.195816	50.0	251042.0	1.195816	Y
3	IC 620-51723/5	2.0	3.09615	50.0	249891.0	1.548075	Y
4	IC 620-51723/6	5.0	8.309688	50.0	253397.0	1.661938	Y
5	IC 620-51723/7	10.0	15.33583	50.0	248891.0	1.533583	Y
6	ICIS 620-51723/8	20.0	31.9698	50.0	249731.0	1.59849	Y
7	IC 620-51723/9	40.0	63.740699	50.0	262745.0	1.593517	Y
8	IC 620-51723/10	50.0	76.222464	50.0	276593.0	1.524449	Y
9	IC 620-51723/11	100.0	137.697379	50.0	312787.0	1.376974	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

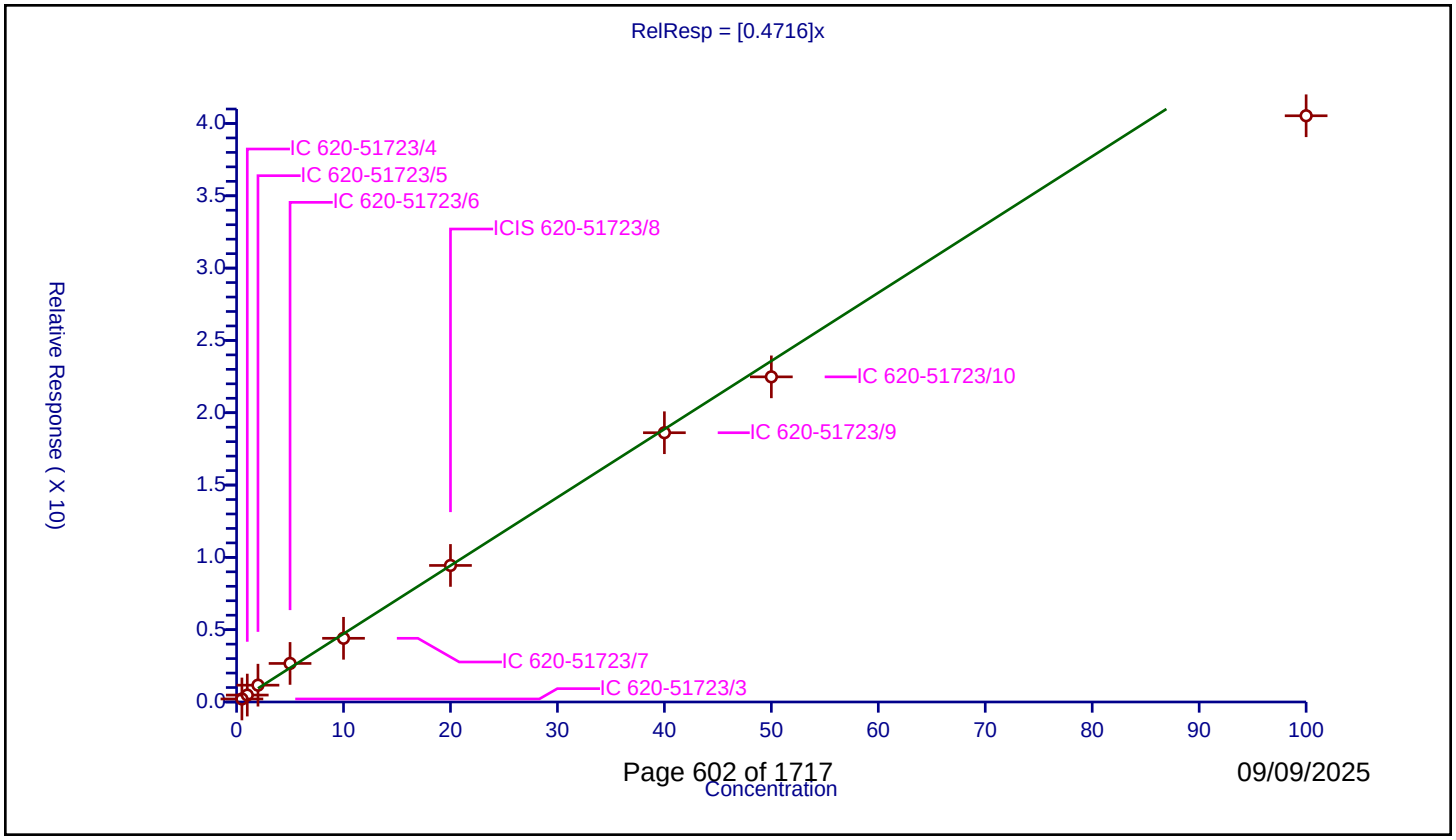
Curve Coefficients

Intercept:	0
Slope:	0.4716

Error Coefficients

Relative Standard Deviation:	11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.209213	50.0	255720.0	0.418426	Y
2	IC 620-51723/4	1.0	0.478406	50.0	251042.0	0.478406	Y
3	IC 620-51723/5	2.0	1.162907	50.0	249891.0	0.581454	Y
4	IC 620-51723/6	5.0	2.665777	50.0	253397.0	0.533155	Y
5	IC 620-51723/7	10.0	4.404338	50.0	248891.0	0.440434	Y
6	ICIS 620-51723/8	20.0	9.440558	50.0	249731.0	0.472028	Y
7	IC 620-51723/9	40.0	18.618052	50.0	262745.0	0.465451	Y
8	IC 620-51723/10	50.0	22.481408	50.0	276593.0	0.449628	Y
9	IC 620-51723/11	100.0	40.534133	50.0	312787.0	0.405341	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

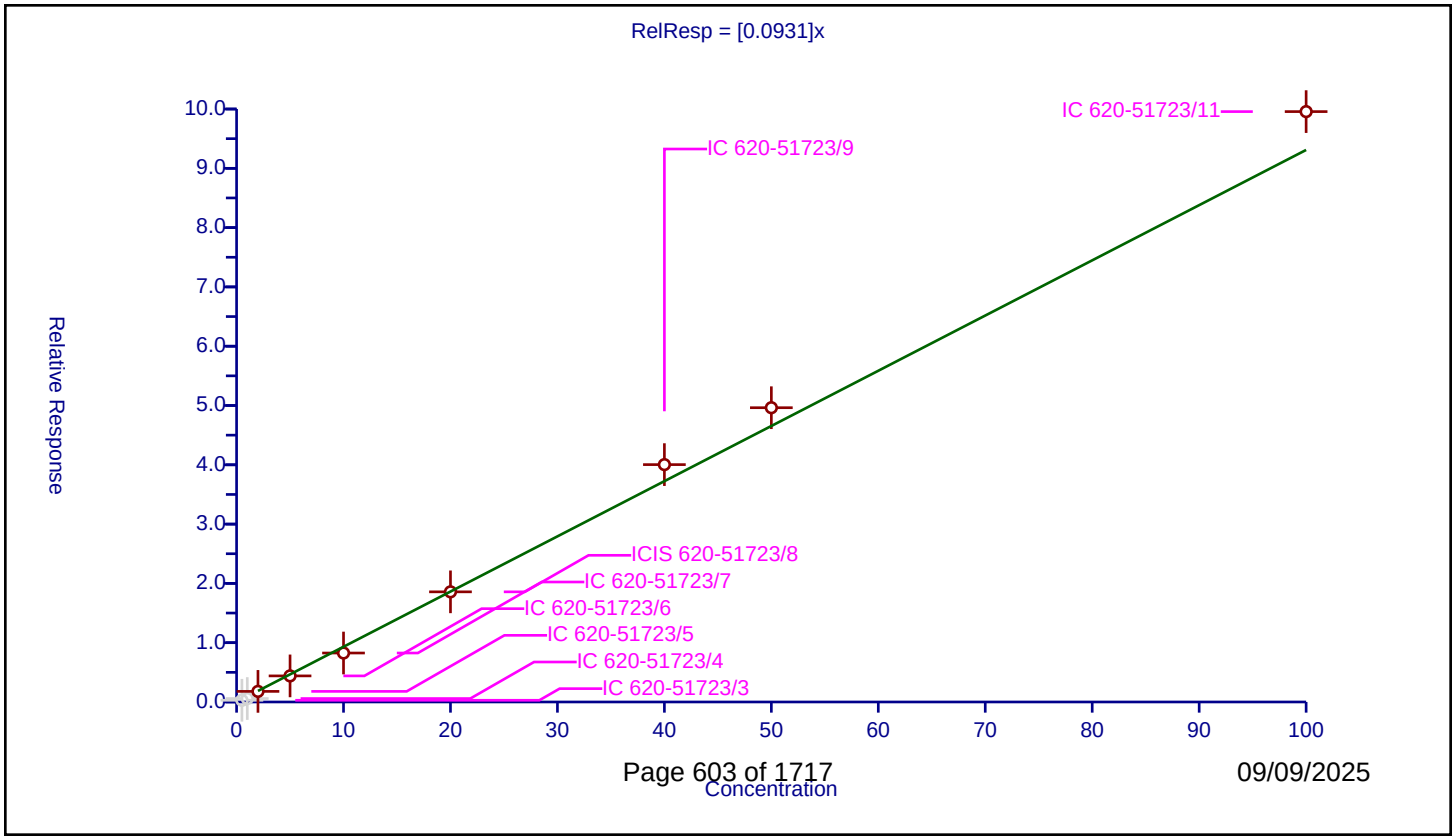
Curve Coefficients

Intercept:	0
Slope:	0.0931

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.028951	50.0	367866.0	0.057902	N
2	IC 620-51723/4	1.0	0.058256	50.0	363913.0	0.058256	N
3	IC 620-51723/5	2.0	0.178621	50.0	355782.0	0.08931	Y
4	IC 620-51723/6	5.0	0.440059	50.0	360065.0	0.088012	Y
5	IC 620-51723/7	10.0	0.82596	50.0	347414.0	0.082596	Y
6	ICIS 620-51723/8	20.0	1.857451	50.0	346631.0	0.092873	Y
7	IC 620-51723/9	40.0	4.003113	50.0	352663.0	0.100078	Y
8	IC 620-51723/10	50.0	4.96262	50.0	364767.0	0.099252	Y
9	IC 620-51723/11	100.0	9.95617	50.0	383069.0	0.099562	Y



09/09/2025

Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

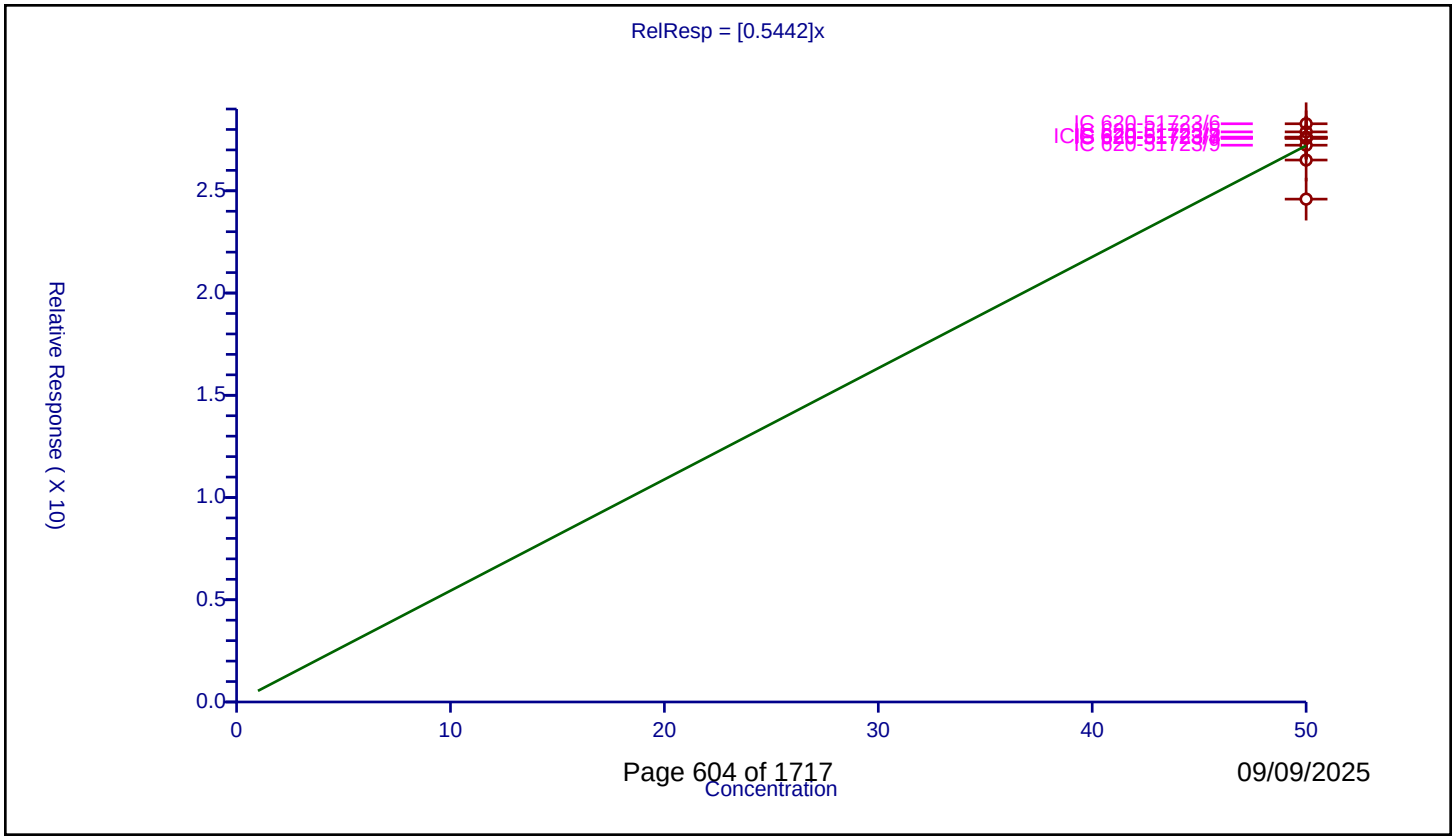
Curve Coefficients

Intercept:	0
Slope:	0.5442

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	50.0	27.619858	50.0	255720.0	0.552397	Y
2	IC 620-51723/4	50.0	27.55993	50.0	251042.0	0.551199	Y
3	IC 620-51723/5	50.0	27.882357	50.0	249891.0	0.557647	Y
4	IC 620-51723/6	50.0	28.278946	50.0	253397.0	0.565579	Y
5	IC 620-51723/7	50.0	27.590994	50.0	248891.0	0.55182	Y
6	ICIS 620-51723/8	50.0	27.622121	50.0	249731.0	0.552442	Y
7	IC 620-51723/9	50.0	27.229633	50.0	262745.0	0.544593	Y
8	IC 620-51723/10	50.0	26.505371	50.0	276593.0	0.530107	Y
9	IC 620-51723/11	50.0	24.593733	50.0	312787.0	0.491875	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

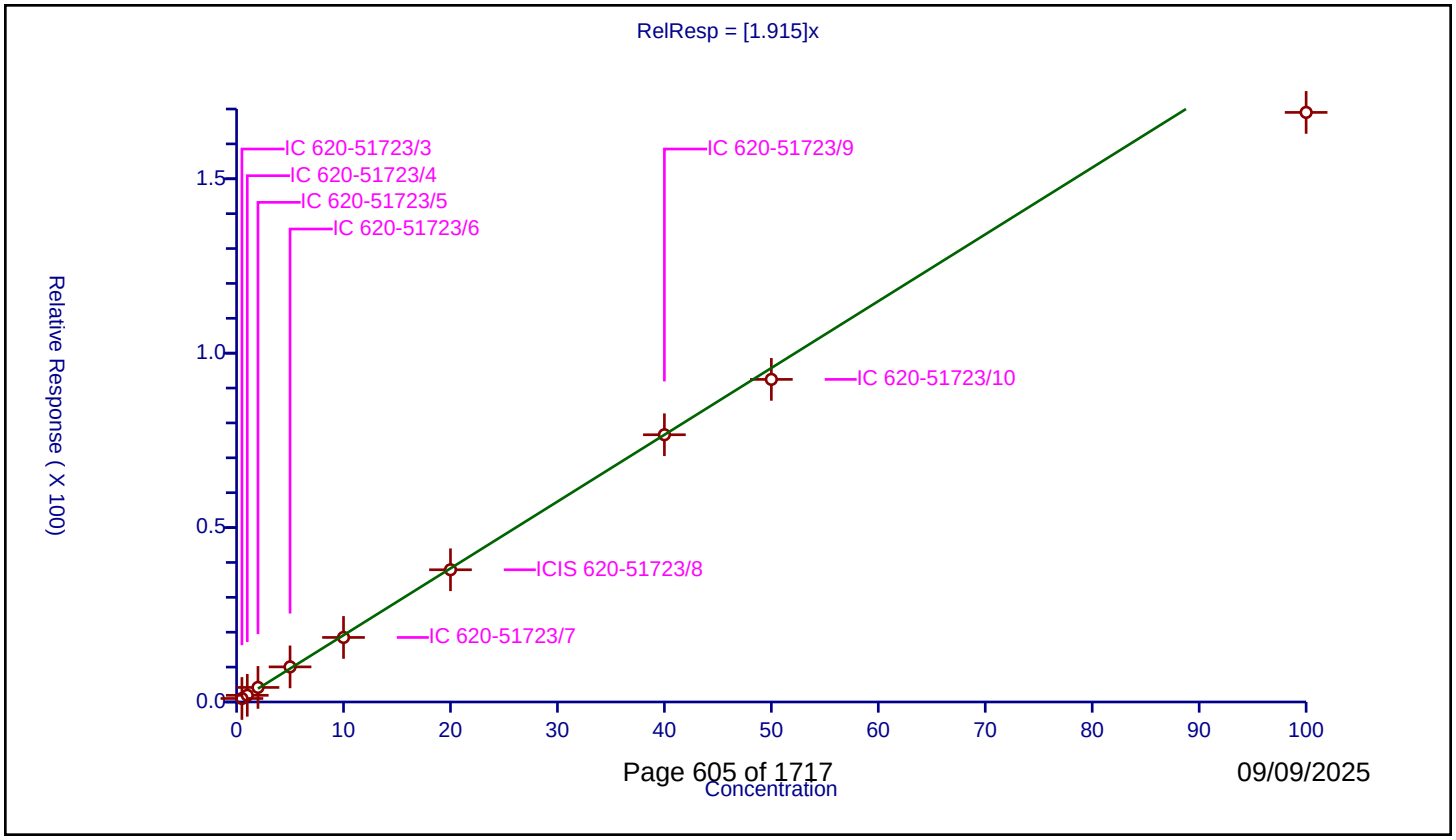
Curve Coefficients

Intercept:	0
Slope:	1.915

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	1.00872	50.0	255720.0	2.017441	Y
2	IC 620-51723/4	1.0	1.917807	50.0	251042.0	1.917807	Y
3	IC 620-51723/5	2.0	4.17362	50.0	249891.0	2.08681	Y
4	IC 620-51723/6	5.0	10.062668	50.0	253397.0	2.012534	Y
5	IC 620-51723/7	10.0	18.501272	50.0	248891.0	1.850127	Y
6	ICIS 620-51723/8	20.0	37.908389	50.0	249731.0	1.895419	Y
7	IC 620-51723/9	40.0	76.617252	50.0	262745.0	1.915431	Y
8	IC 620-51723/10	50.0	92.483179	50.0	276593.0	1.849664	Y
9	IC 620-51723/11	100.0	169.031162	50.0	312787.0	1.690312	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

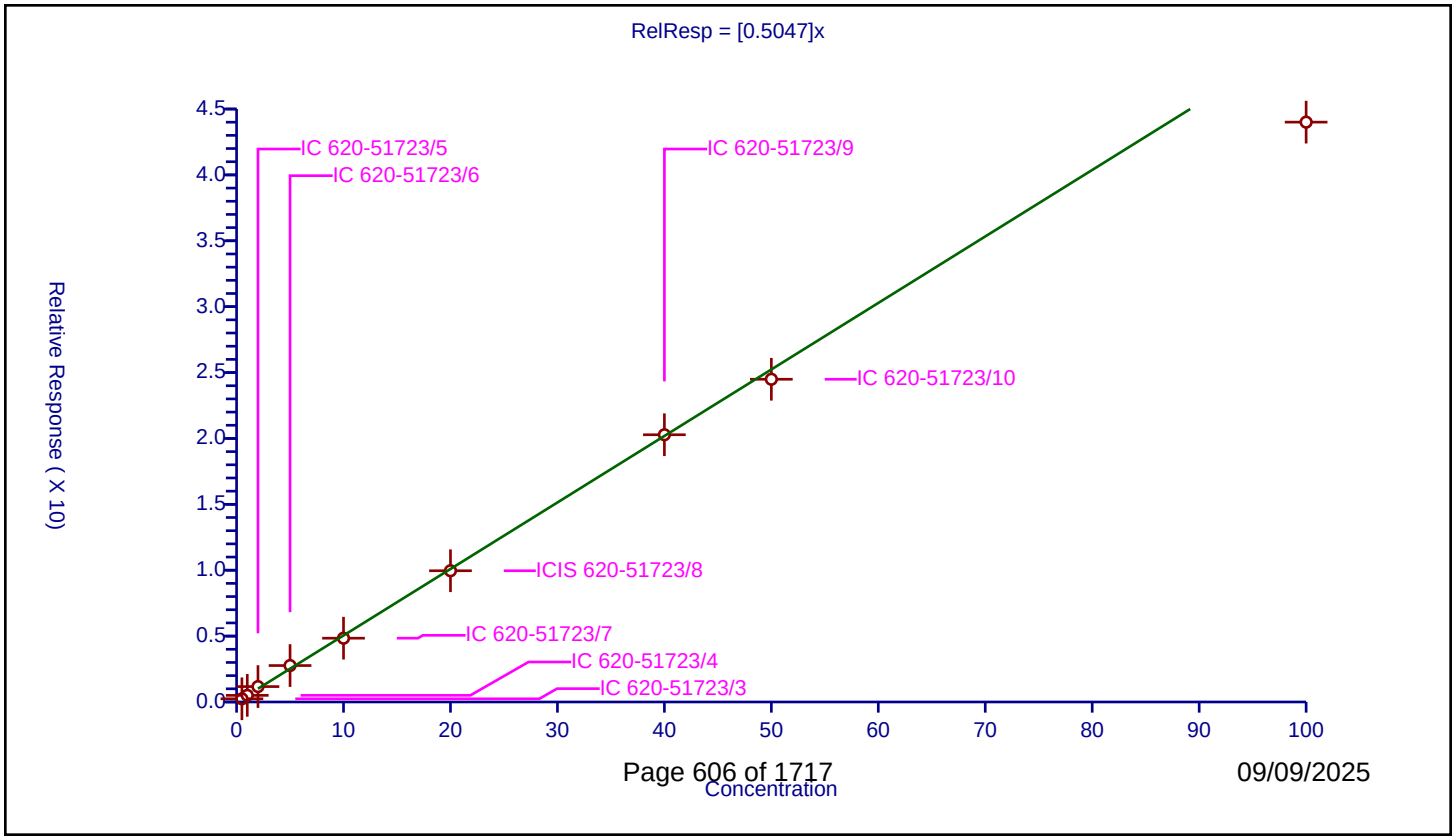
Curve Coefficients

Intercept:	0
Slope:	0.5047

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.241671	50.0	255720.0	0.483341	Y
2	IC 620-51723/4	1.0	0.502506	50.0	251042.0	0.502506	Y
3	IC 620-51723/5	2.0	1.168309	50.0	249891.0	0.584155	Y
4	IC 620-51723/6	5.0	2.765818	50.0	253397.0	0.553164	Y
5	IC 620-51723/7	10.0	4.840874	50.0	248891.0	0.484087	Y
6	ICIS 620-51723/8	20.0	9.960317	50.0	249731.0	0.498016	Y
7	IC 620-51723/9	40.0	20.280881	50.0	262745.0	0.507022	Y
8	IC 620-51723/10	50.0	24.490858	50.0	276593.0	0.489817	Y
9	IC 620-51723/11	100.0	44.004227	50.0	312787.0	0.440042	Y



Calibration / N-Propylbenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

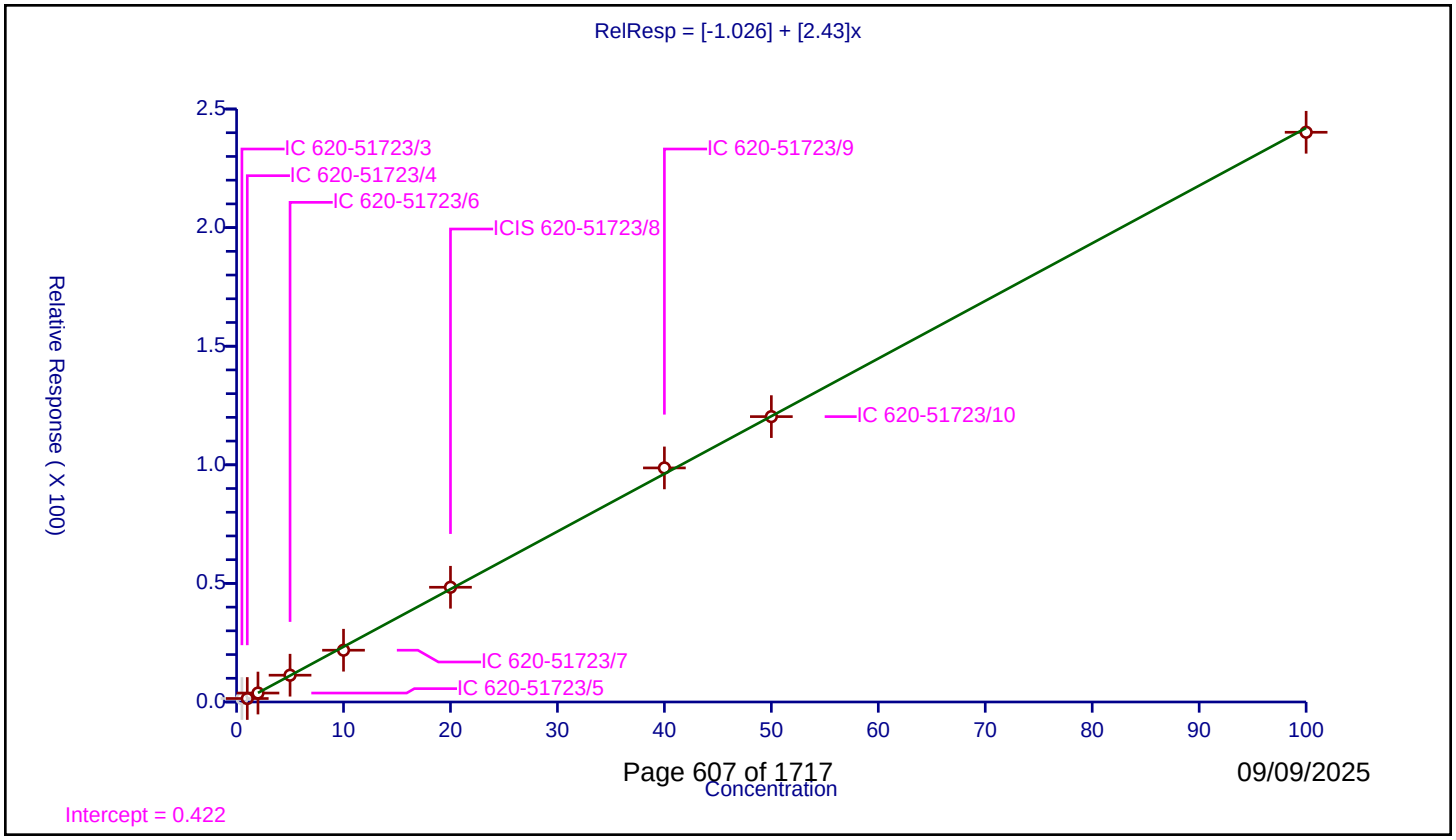
Curve Coefficients

Intercept:	-1.026
Slope:	2.43

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	1.471922	50.0	255720.0	2.943845	N
2	IC 620-51723/4	1.0	1.469674	50.0	251042.0	1.469674	Y
3	IC 620-51723/5	2.0	3.769243	50.0	249891.0	1.884622	Y
4	IC 620-51723/6	5.0	11.291965	50.0	253397.0	2.258393	Y
5	IC 620-51723/7	10.0	21.825418	50.0	248891.0	2.182542	Y
6	ICIS 620-51723/8	20.0	48.366843	50.0	249731.0	2.418342	Y
7	IC 620-51723/9	40.0	98.679518	50.0	262745.0	2.466988	Y
8	IC 620-51723/10	50.0	120.310167	50.0	276593.0	2.406203	Y
9	IC 620-51723/11	100.0	240.192367	50.0	312787.0	2.401924	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

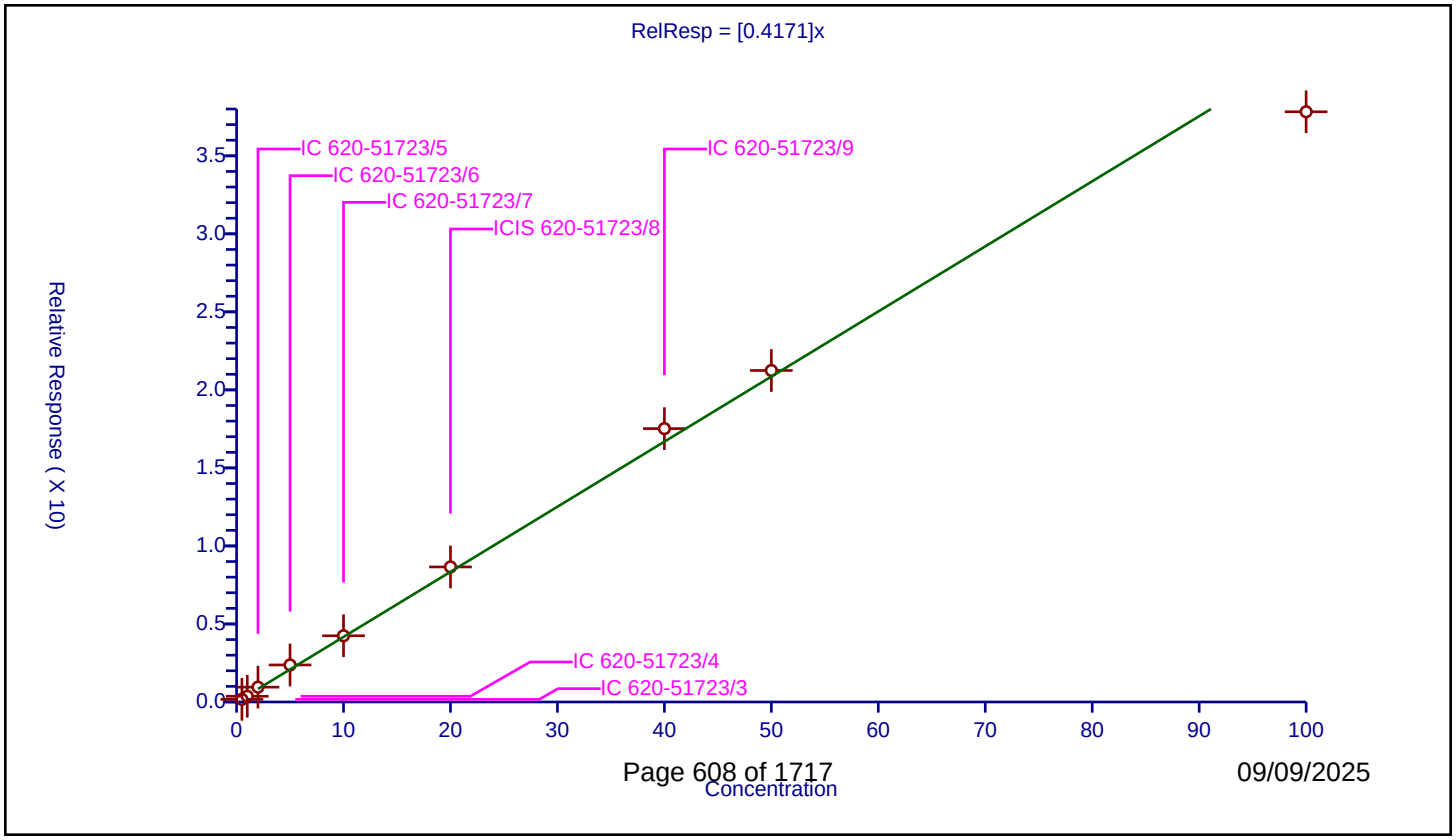
Curve Coefficients

Intercept:	0
Slope:	0.4171

Error Coefficients

Relative Standard Deviation:	11.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.169912	50.0	255720.0	0.339825	Y
2	IC 620-51723/4	1.0	0.365875	50.0	251042.0	0.365875	Y
3	IC 620-51723/5	2.0	0.951015	50.0	249891.0	0.475507	Y
4	IC 620-51723/6	5.0	2.37197	50.0	253397.0	0.474394	Y
5	IC 620-51723/7	10.0	4.243826	50.0	248891.0	0.424383	Y
6	ICIS 620-51723/8	20.0	8.654512	50.0	249731.0	0.432726	Y
7	IC 620-51723/9	40.0	17.519268	50.0	262745.0	0.437982	Y
8	IC 620-51723/10	50.0	21.244211	50.0	276593.0	0.424884	Y
9	IC 620-51723/11	100.0	37.823183	50.0	312787.0	0.378232	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

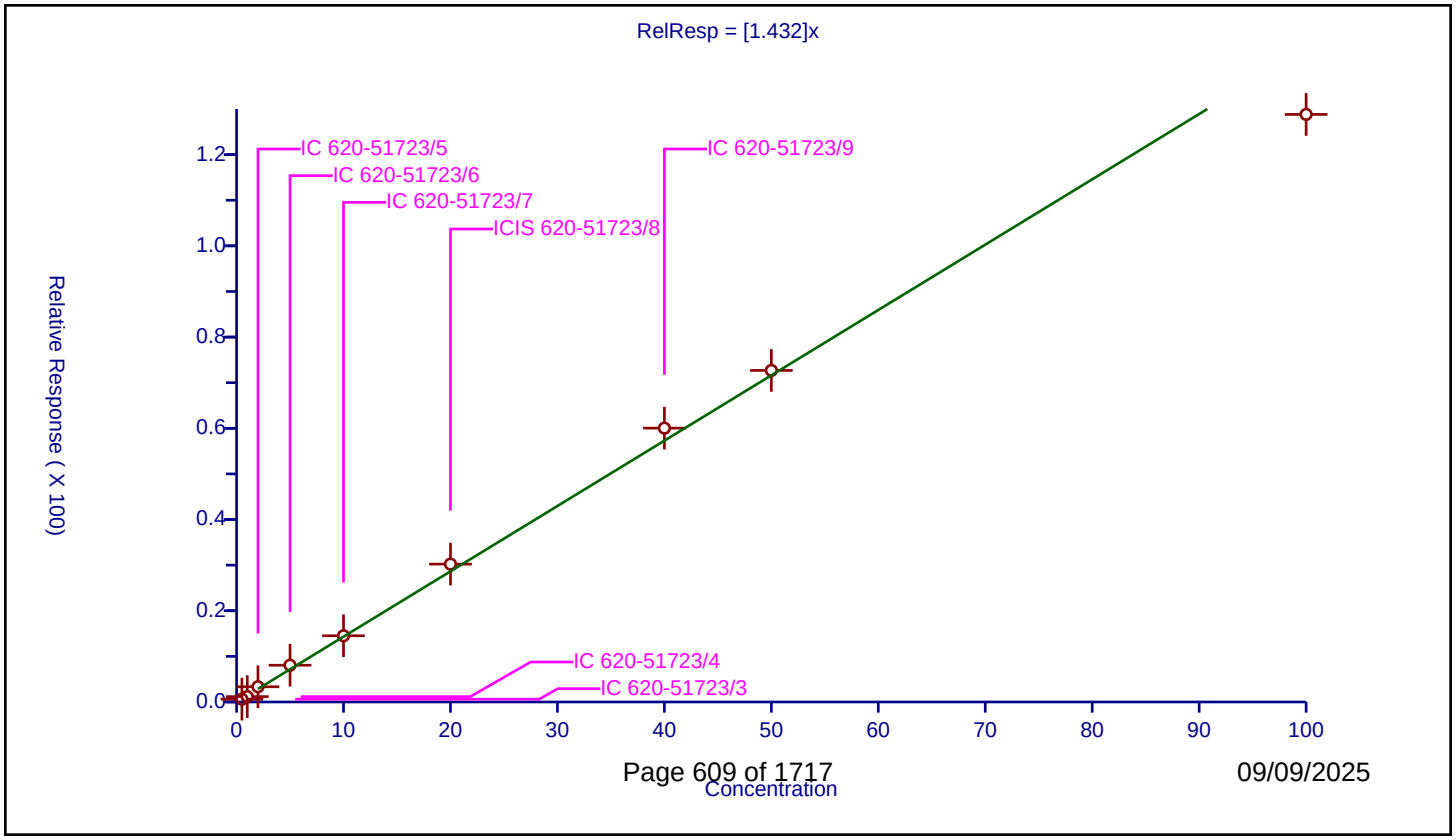
Curve Coefficients

Intercept:	0
Slope:	1.432

Error Coefficients

Relative Standard Deviation:	11.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.61493	50.0	255720.0	1.229861	Y
2	IC 620-51723/4	1.0	1.176895	50.0	251042.0	1.176895	Y
3	IC 620-51723/5	2.0	3.332453	50.0	249891.0	1.666226	Y
4	IC 620-51723/6	5.0	8.058304	50.0	253397.0	1.611661	Y
5	IC 620-51723/7	10.0	14.516194	50.0	248891.0	1.451619	Y
6	ICIS 620-51723/8	20.0	30.227525	50.0	249731.0	1.511376	Y
7	IC 620-51723/9	40.0	60.037489	50.0	262745.0	1.500937	Y
8	IC 620-51723/10	50.0	72.690921	50.0	276593.0	1.453818	Y
9	IC 620-51723/11	100.0	128.814177	50.0	312787.0	1.288142	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

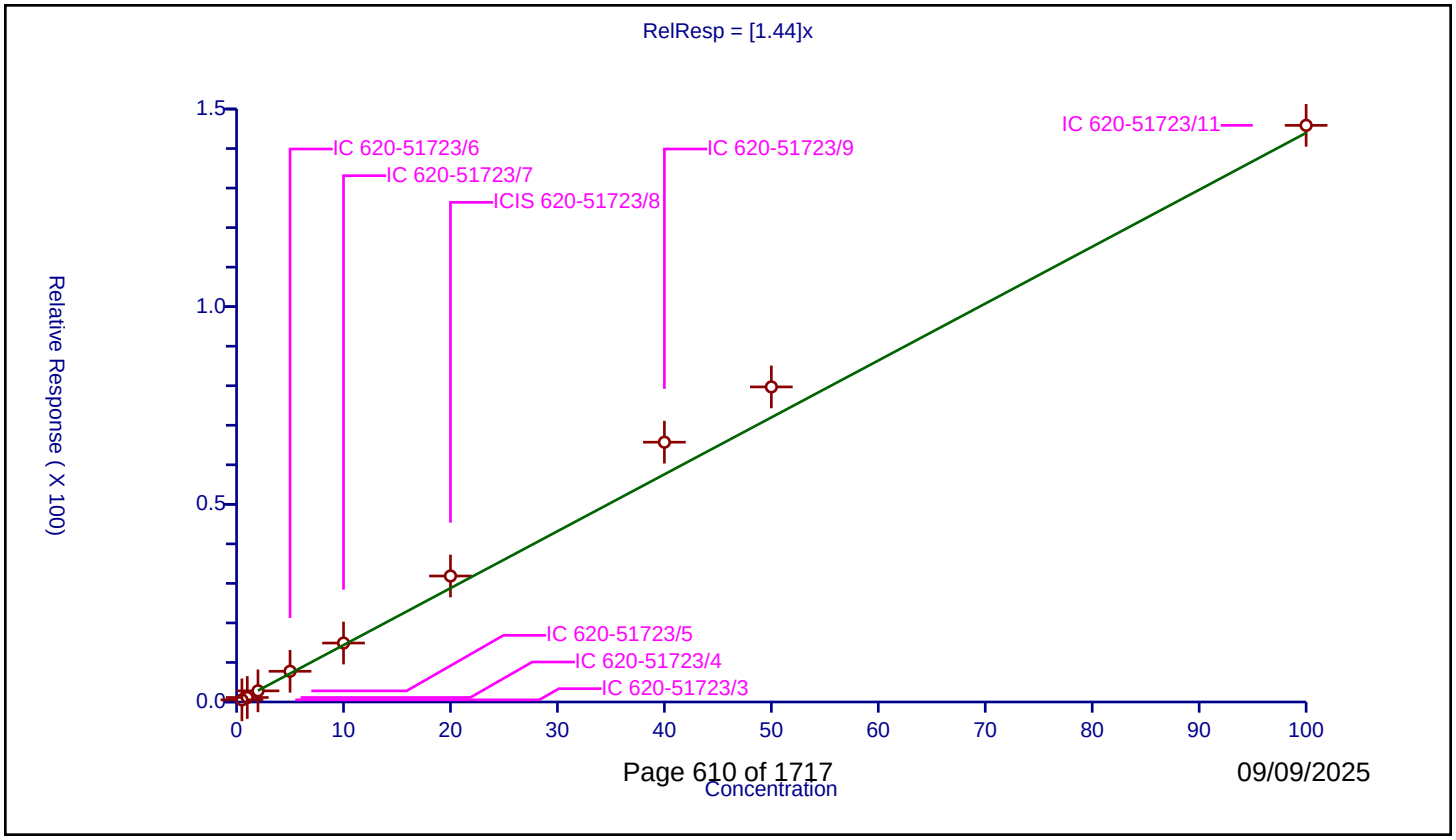
Curve Coefficients

Intercept:	0
Slope:	1.44

Error Coefficients

Relative Standard Deviation:	14.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.540044	50.0	255720.0	1.080088	Y
2	IC 620-51723/4	1.0	1.13487	50.0	251042.0	1.13487	Y
3	IC 620-51723/5	2.0	2.815428	50.0	249891.0	1.407714	Y
4	IC 620-51723/6	5.0	7.767061	50.0	253397.0	1.553412	Y
5	IC 620-51723/7	10.0	14.90994	50.0	248891.0	1.490994	Y
6	ICIS 620-51723/8	20.0	31.872094	50.0	249731.0	1.593605	Y
7	IC 620-51723/9	40.0	65.719804	50.0	262745.0	1.642995	Y
8	IC 620-51723/10	50.0	79.701583	50.0	276593.0	1.594032	Y
9	IC 620-51723/11	100.0	145.866676	50.0	312787.0	1.458667	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

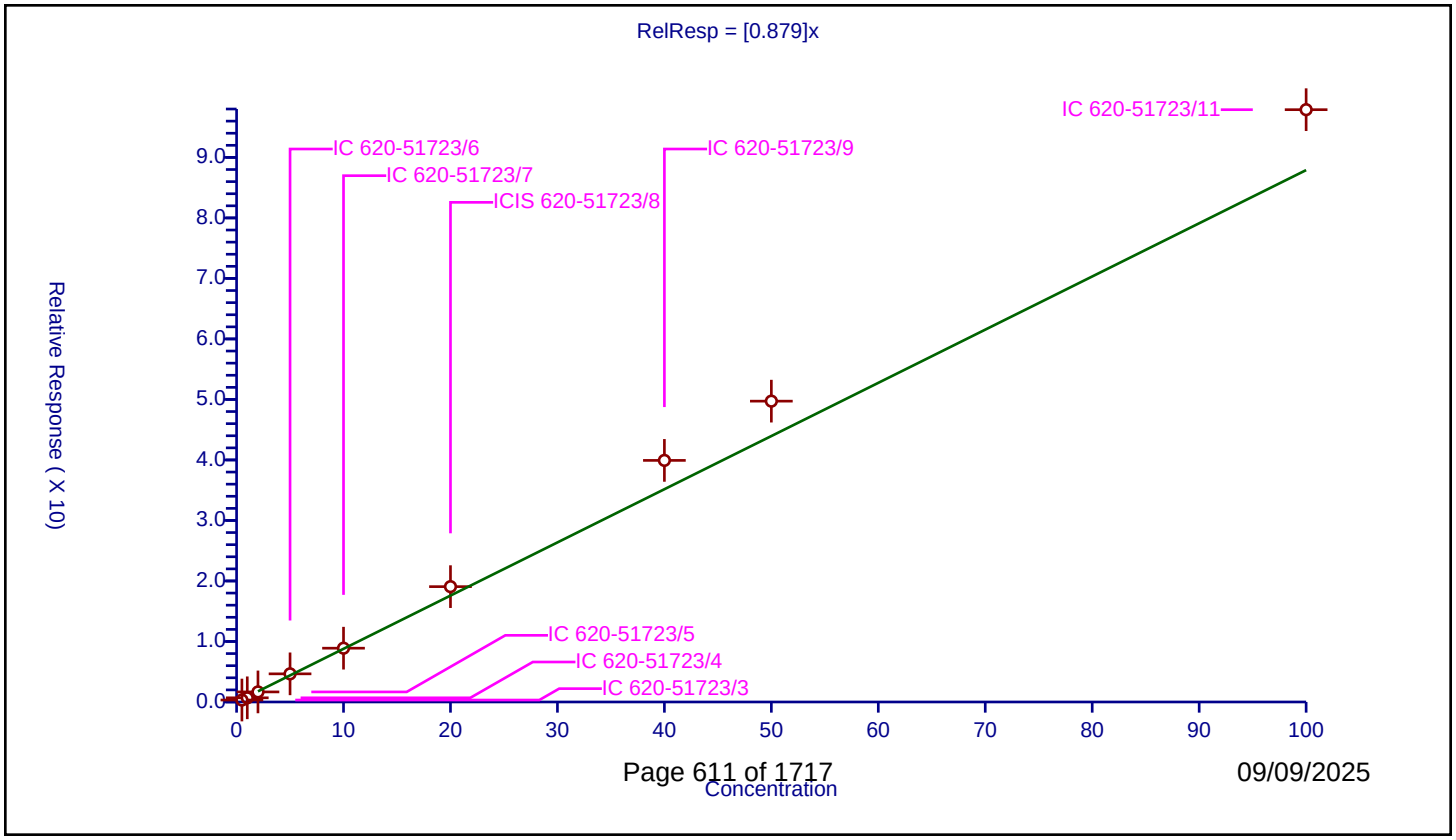
Curve Coefficients

Intercept:	0
Slope:	0.879

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.323351	50.0	367866.0	0.646703	Y
2	IC 620-51723/4	1.0	0.688351	50.0	363913.0	0.688351	Y
3	IC 620-51723/5	2.0	1.664924	50.0	355782.0	0.832462	Y
4	IC 620-51723/6	5.0	4.650271	50.0	360065.0	0.930054	Y
5	IC 620-51723/7	10.0	8.891409	50.0	347414.0	0.889141	Y
6	ICIS 620-51723/8	20.0	19.063356	50.0	346631.0	0.953168	Y
7	IC 620-51723/9	40.0	39.928629	50.0	352663.0	0.998216	Y
8	IC 620-51723/10	50.0	49.720232	50.0	364767.0	0.994405	Y
9	IC 620-51723/11	100.0	97.891503	50.0	383069.0	0.978915	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

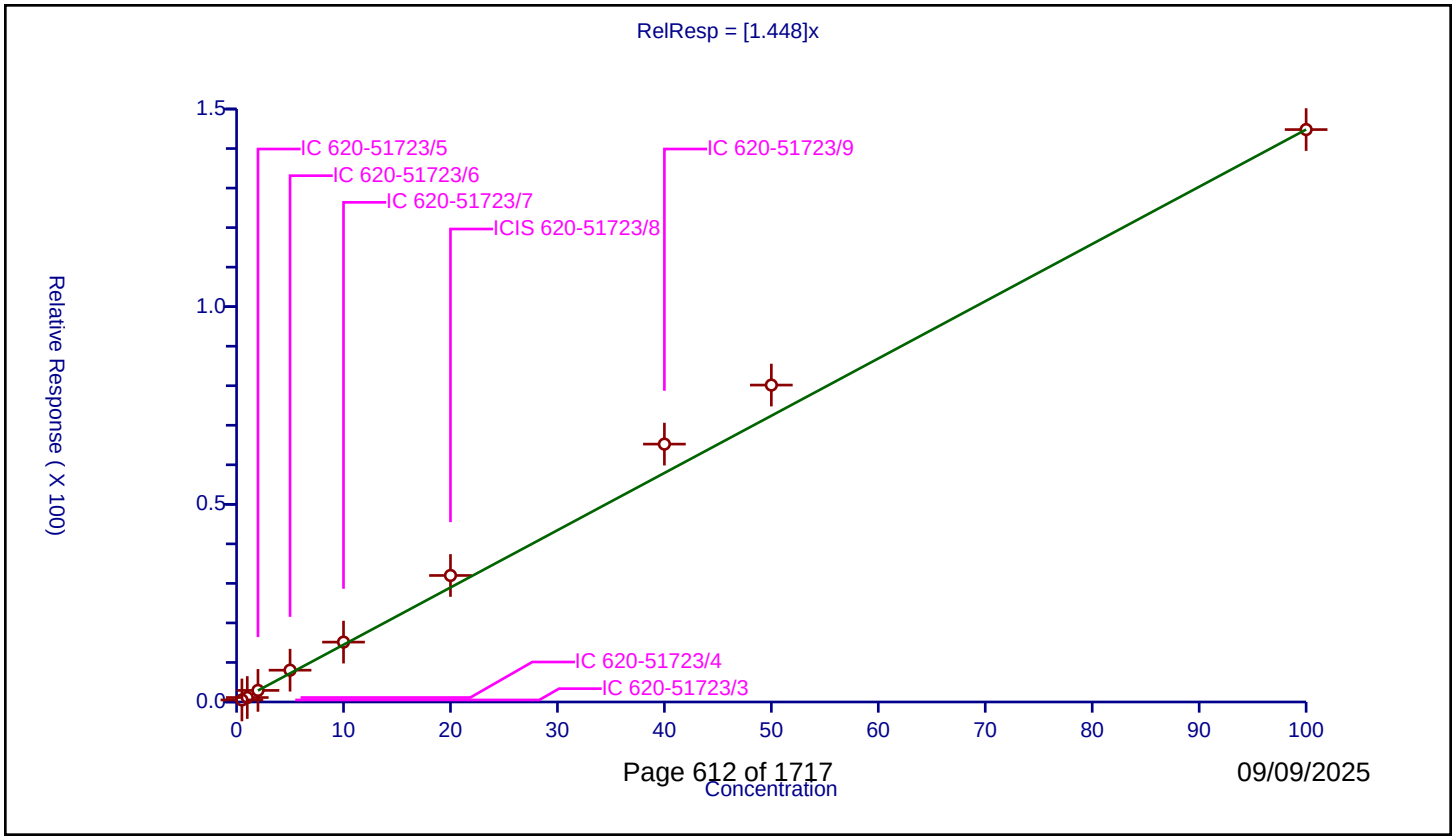
Curve Coefficients

Intercept:	0
Slope:	1.448

Error Coefficients

Relative Standard Deviation:	15.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.517167	50.0	255720.0	1.034334	Y
2	IC 620-51723/4	1.0	1.127301	50.0	251042.0	1.127301	Y
3	IC 620-51723/5	2.0	2.930678	50.0	249891.0	1.465339	Y
4	IC 620-51723/6	5.0	8.042913	50.0	253397.0	1.608583	Y
5	IC 620-51723/7	10.0	15.150407	50.0	248891.0	1.515041	Y
6	ICIS 620-51723/8	20.0	32.00784	50.0	249731.0	1.600392	Y
7	IC 620-51723/9	40.0	65.234543	50.0	262745.0	1.630864	Y
8	IC 620-51723/10	50.0	80.167249	50.0	276593.0	1.603345	Y
9	IC 620-51723/11	100.0	144.802214	50.0	312787.0	1.448022	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

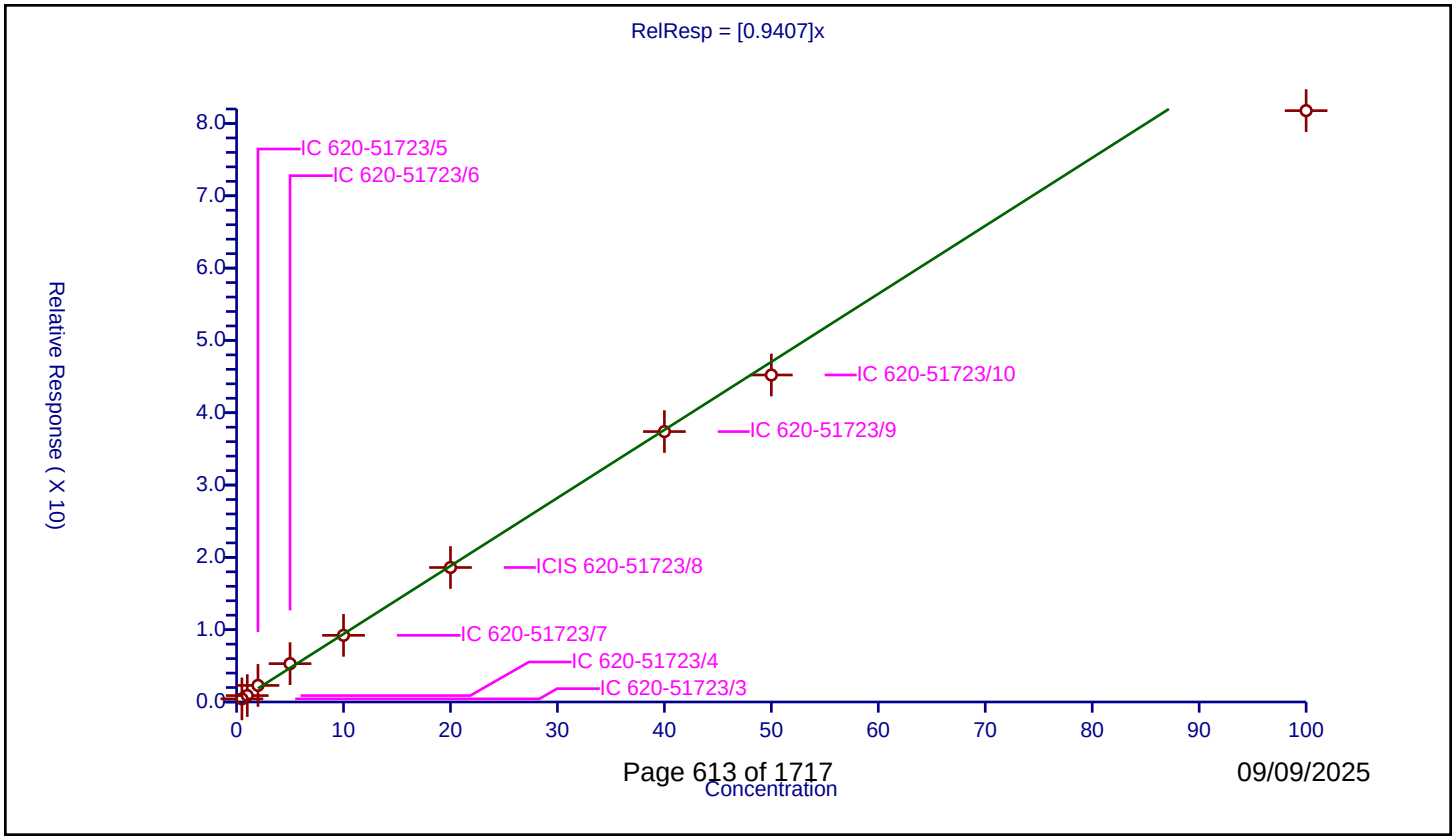
Curve Coefficients

Intercept:	0
Slope:	0.9407

Error Coefficients

Relative Standard Deviation:	10.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.432504	50.0	255720.0	0.865009	Y
2	IC 620-51723/4	1.0	0.886306	50.0	251042.0	0.886306	Y
3	IC 620-51723/5	2.0	2.291799	50.0	249891.0	1.1459	Y
4	IC 620-51723/6	5.0	5.30097	50.0	253397.0	1.060194	Y
5	IC 620-51723/7	10.0	9.218091	50.0	248891.0	0.921809	Y
6	ICIS 620-51723/8	20.0	18.598412	50.0	249731.0	0.929921	Y
7	IC 620-51723/9	40.0	37.393671	50.0	262745.0	0.934842	Y
8	IC 620-51723/10	50.0	45.218426	50.0	276593.0	0.904369	Y
9	IC 620-51723/11	100.0	81.776097	50.0	312787.0	0.817761	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

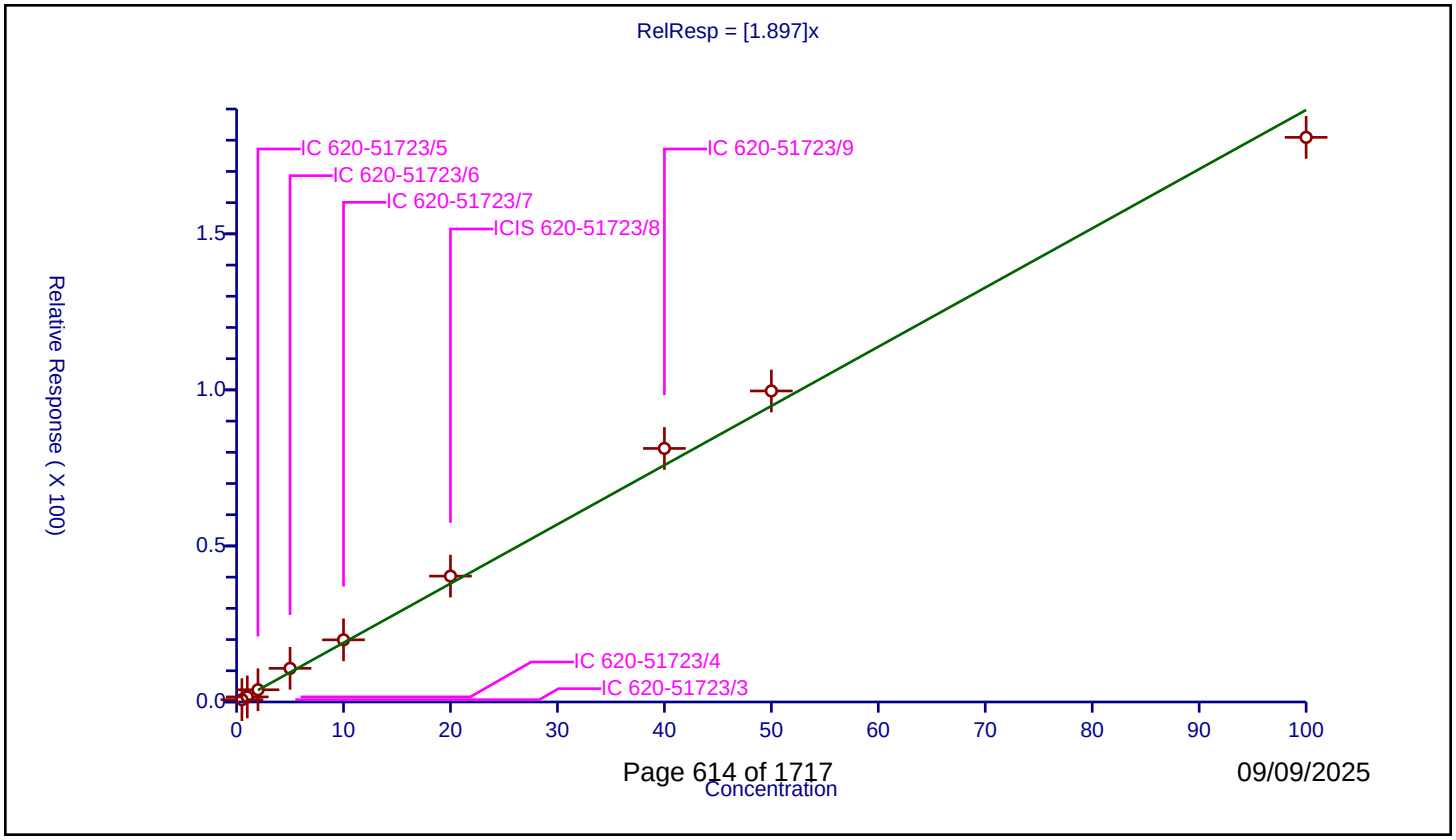
Curve Coefficients

Intercept:	0
Slope:	1.897

Error Coefficients

Relative Standard Deviation:	11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.743196	50.0	255720.0	1.486391	Y
2	IC 620-51723/4	1.0	1.628811	50.0	251042.0	1.628811	Y
3	IC 620-51723/5	2.0	3.918508	50.0	249891.0	1.959254	Y
4	IC 620-51723/6	5.0	10.779725	50.0	253397.0	2.155945	Y
5	IC 620-51723/7	10.0	19.914742	50.0	248891.0	1.991474	Y
6	ICIS 620-51723/8	20.0	40.336202	50.0	249731.0	2.01681	Y
7	IC 620-51723/9	40.0	81.246836	50.0	262745.0	2.031171	Y
8	IC 620-51723/10	50.0	99.659247	50.0	276593.0	1.993185	Y
9	IC 620-51723/11	100.0	180.916087	50.0	312787.0	1.809161	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

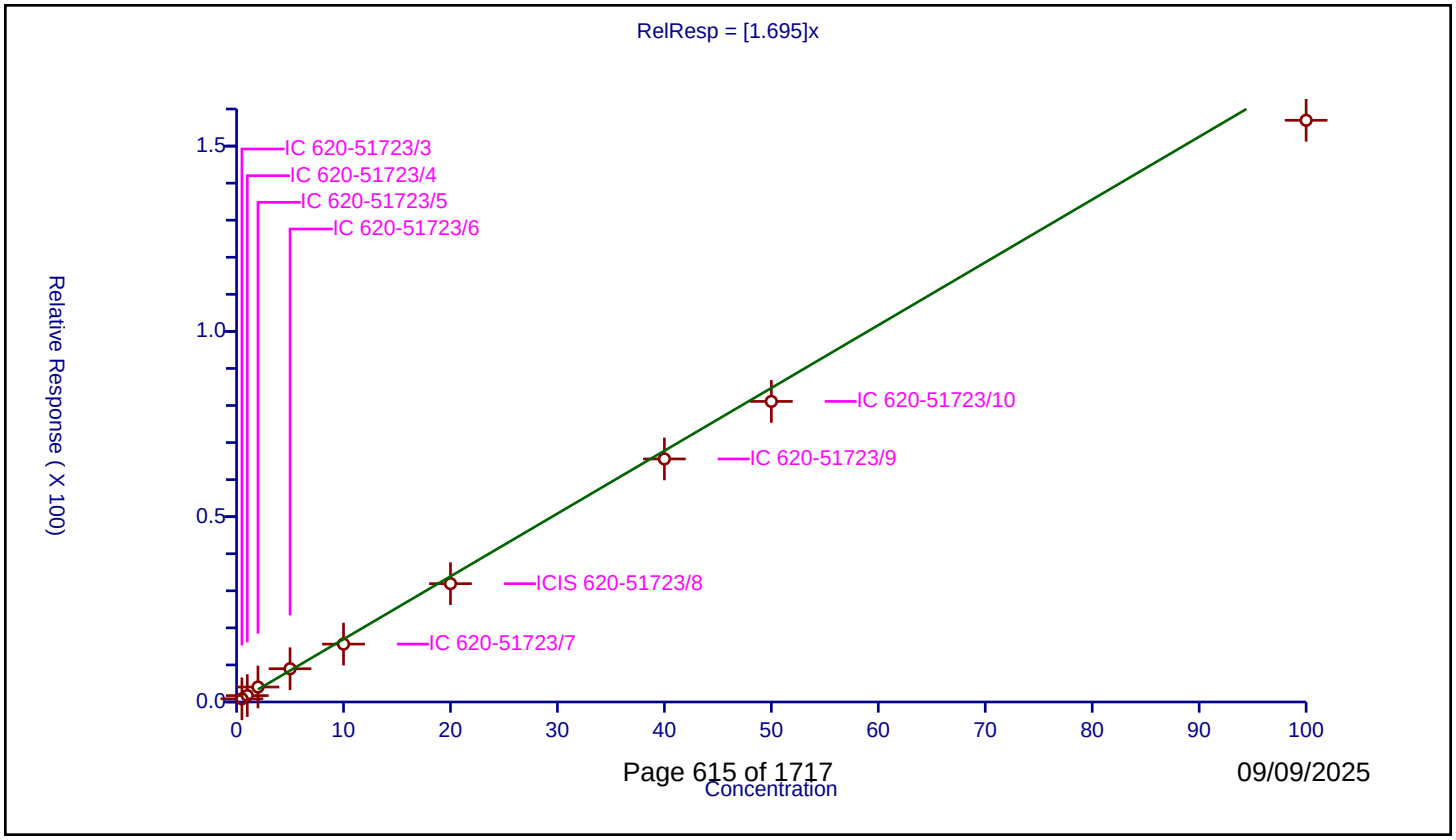
Curve Coefficients

Intercept:	0
Slope:	1.695

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.860138	50.0	153580.0	1.720276	Y
2	IC 620-51723/4	1.0	1.726664	50.0	152230.0	1.726664	Y
3	IC 620-51723/5	2.0	4.037331	50.0	150223.0	2.018666	Y
4	IC 620-51723/6	5.0	8.978249	50.0	154245.0	1.79565	Y
5	IC 620-51723/7	10.0	15.617331	50.0	148729.0	1.561733	Y
6	ICIS 620-51723/8	20.0	31.932793	50.0	147217.0	1.59664	Y
7	IC 620-51723/9	40.0	65.578689	50.0	148655.0	1.639467	Y
8	IC 620-51723/10	50.0	81.105956	50.0	152818.0	1.622119	Y
9	IC 620-51723/11	100.0	156.956981	50.0	160091.0	1.56957	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

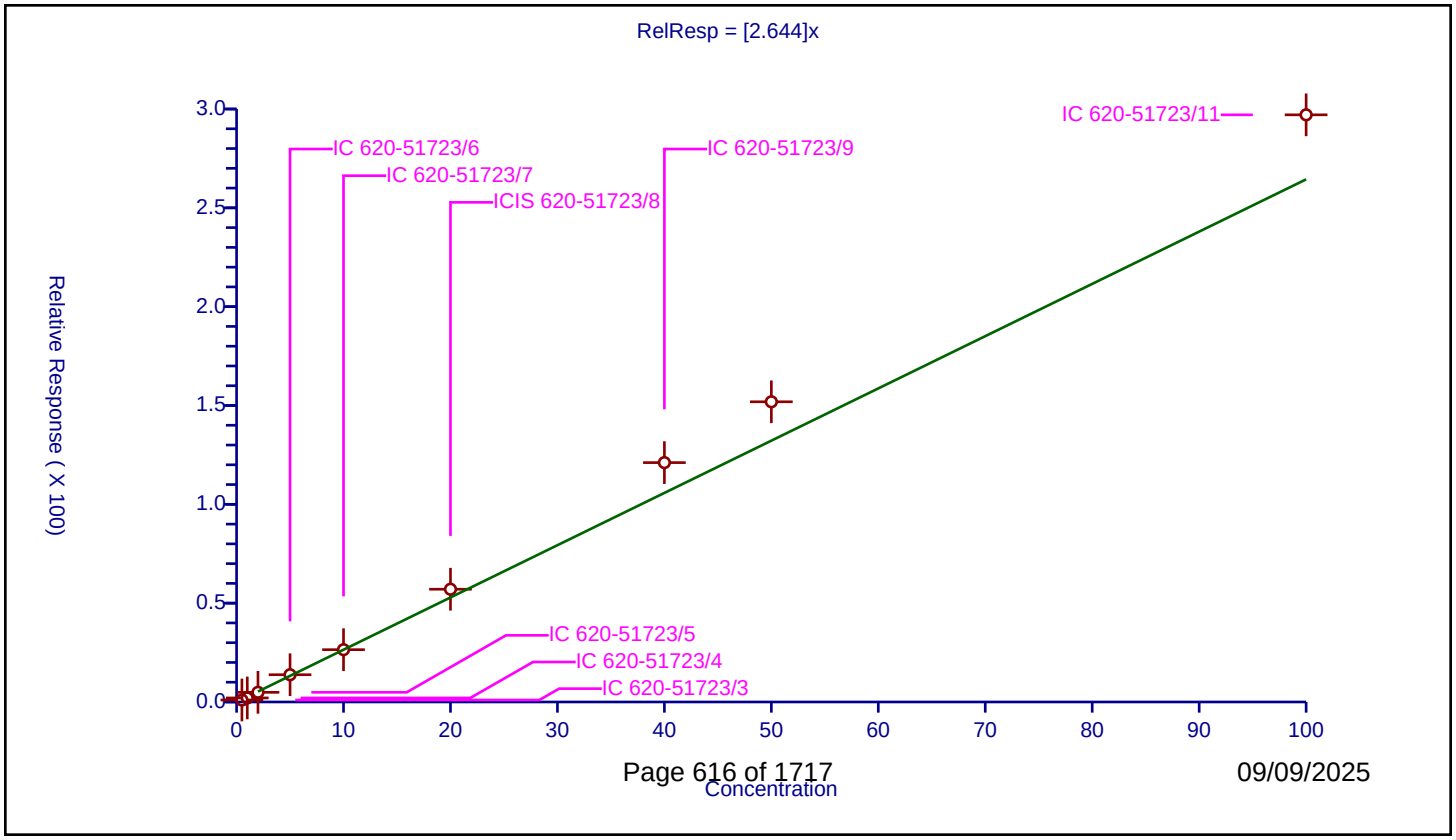
Curve Coefficients

Intercept:	0
Slope:	2.644

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	1.005339	50.0	153580.0	2.010678	Y
2	IC 620-51723/4	1.0	2.044932	50.0	152230.0	2.044932	Y
3	IC 620-51723/5	2.0	4.89439	50.0	150223.0	2.447195	Y
4	IC 620-51723/6	5.0	13.792668	50.0	154245.0	2.758534	Y
5	IC 620-51723/7	10.0	26.468947	50.0	148729.0	2.646895	Y
6	ICIS 620-51723/8	20.0	57.044363	50.0	147217.0	2.852218	Y
7	IC 620-51723/9	40.0	121.108944	50.0	148655.0	3.027724	Y
8	IC 620-51723/10	50.0	151.880014	50.0	152818.0	3.0376	Y
9	IC 620-51723/11	100.0	297.059173	50.0	160091.0	2.970592	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

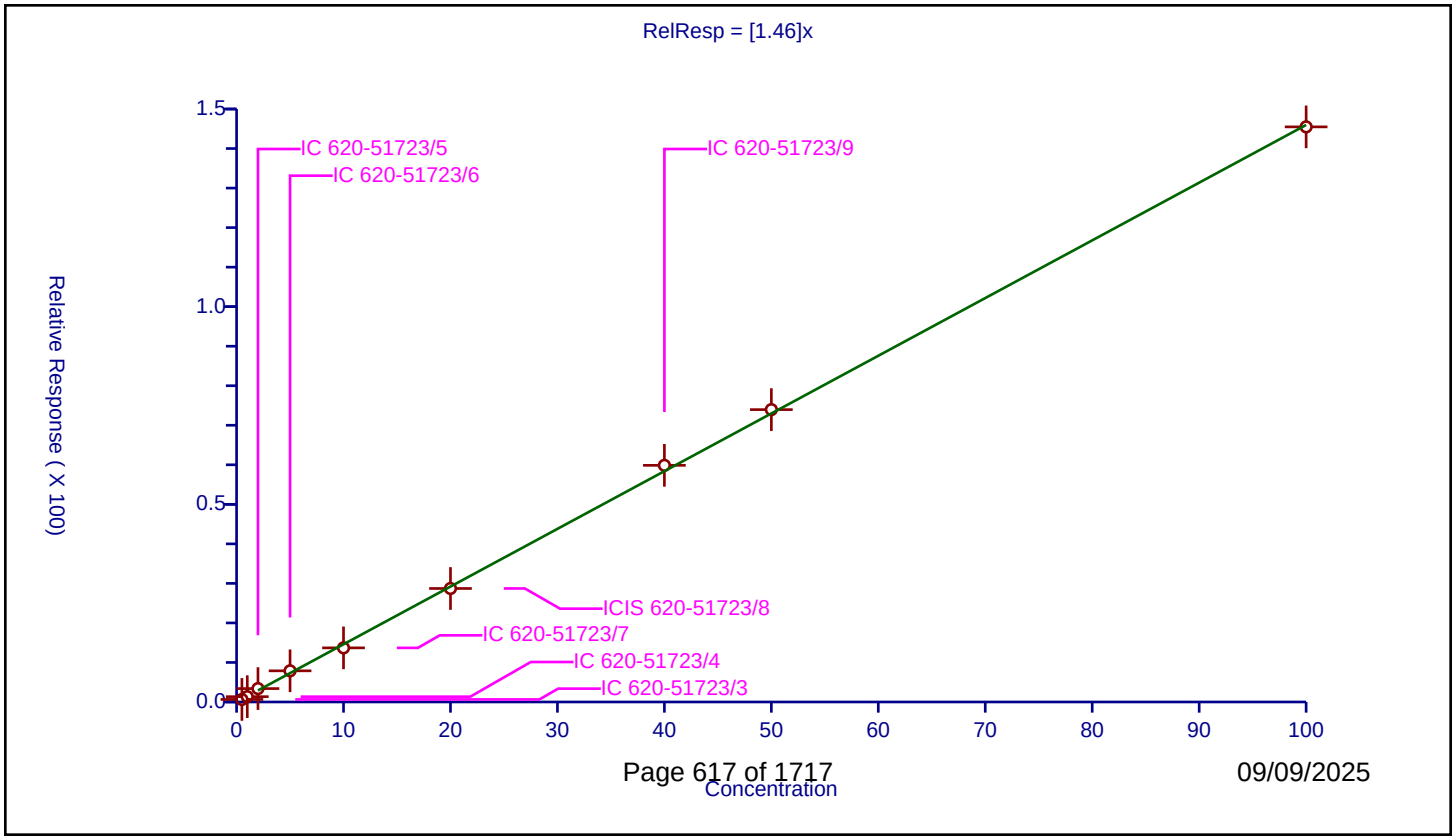
Curve Coefficients

Intercept:	0
Slope:	1.46

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.643638	50.0	153580.0	1.287277	Y
2	IC 620-51723/4	1.0	1.342705	50.0	152230.0	1.342705	Y
3	IC 620-51723/5	2.0	3.390293	50.0	150223.0	1.695147	Y
4	IC 620-51723/6	5.0	7.882589	50.0	154245.0	1.576518	Y
5	IC 620-51723/7	10.0	13.68731	50.0	148729.0	1.368731	Y
6	ICIS 620-51723/8	20.0	28.716113	50.0	147217.0	1.435806	Y
7	IC 620-51723/9	40.0	59.862769	50.0	148655.0	1.496569	Y
8	IC 620-51723/10	50.0	73.958238	50.0	152818.0	1.479165	Y
9	IC 620-51723/11	100.0	145.481945	50.0	160091.0	1.454819	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

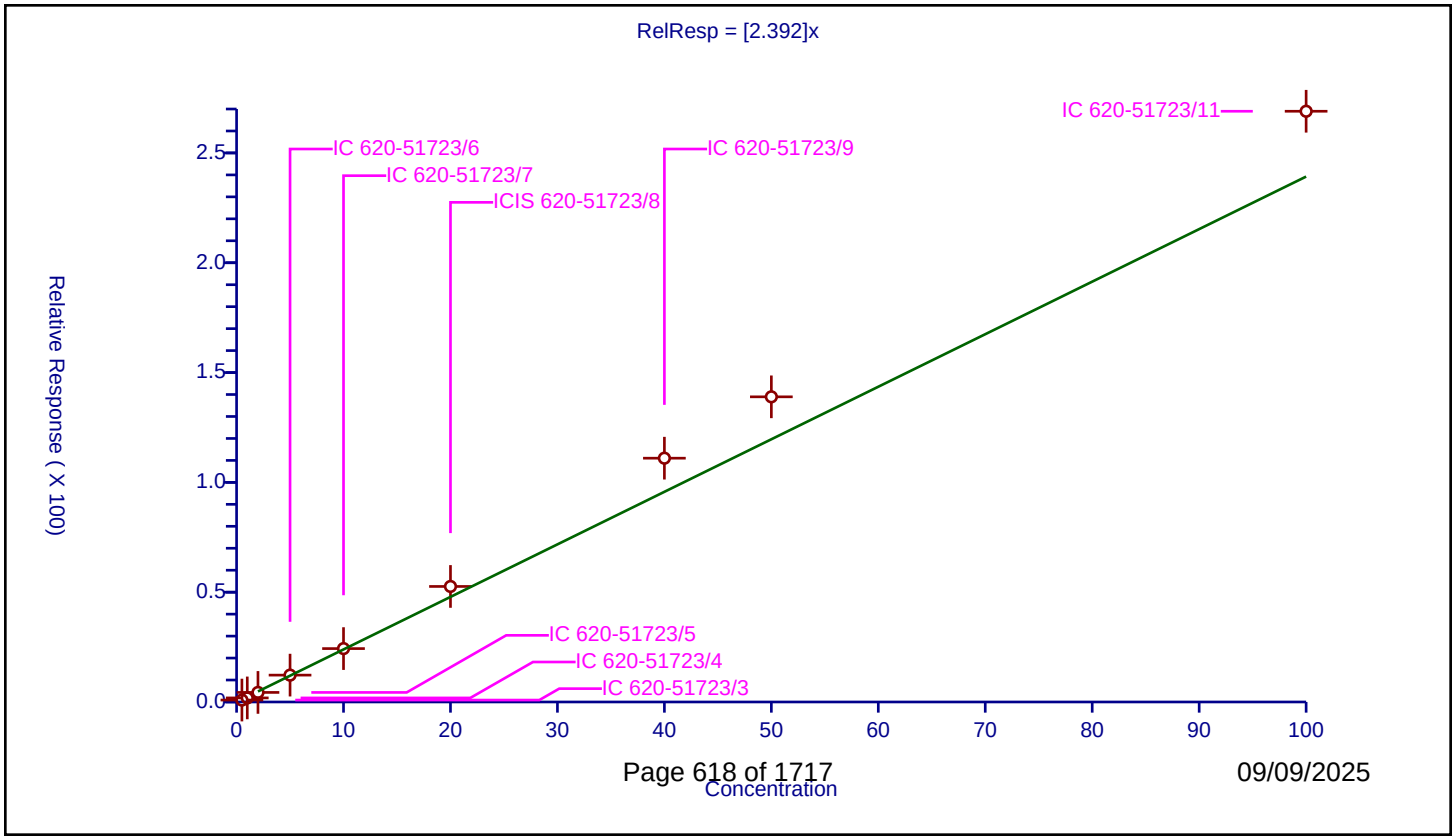
Curve Coefficients

Intercept:	0
Slope:	2.392

Error Coefficients

Relative Standard Deviation:	16.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.87544	50.0	153580.0	1.750879	Y
2	IC 620-51723/4	1.0	1.851475	50.0	152230.0	1.851475	Y
3	IC 620-51723/5	2.0	4.354526	50.0	150223.0	2.177263	Y
4	IC 620-51723/6	5.0	12.231191	50.0	154245.0	2.446238	Y
5	IC 620-51723/7	10.0	24.308978	50.0	148729.0	2.430898	Y
6	ICIS 620-51723/8	20.0	52.600583	50.0	147217.0	2.630029	Y
7	IC 620-51723/9	40.0	111.009048	50.0	148655.0	2.775226	Y
8	IC 620-51723/10	50.0	138.952872	50.0	152818.0	2.779057	Y
9	IC 620-51723/11	100.0	268.985764	50.0	160091.0	2.689858	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

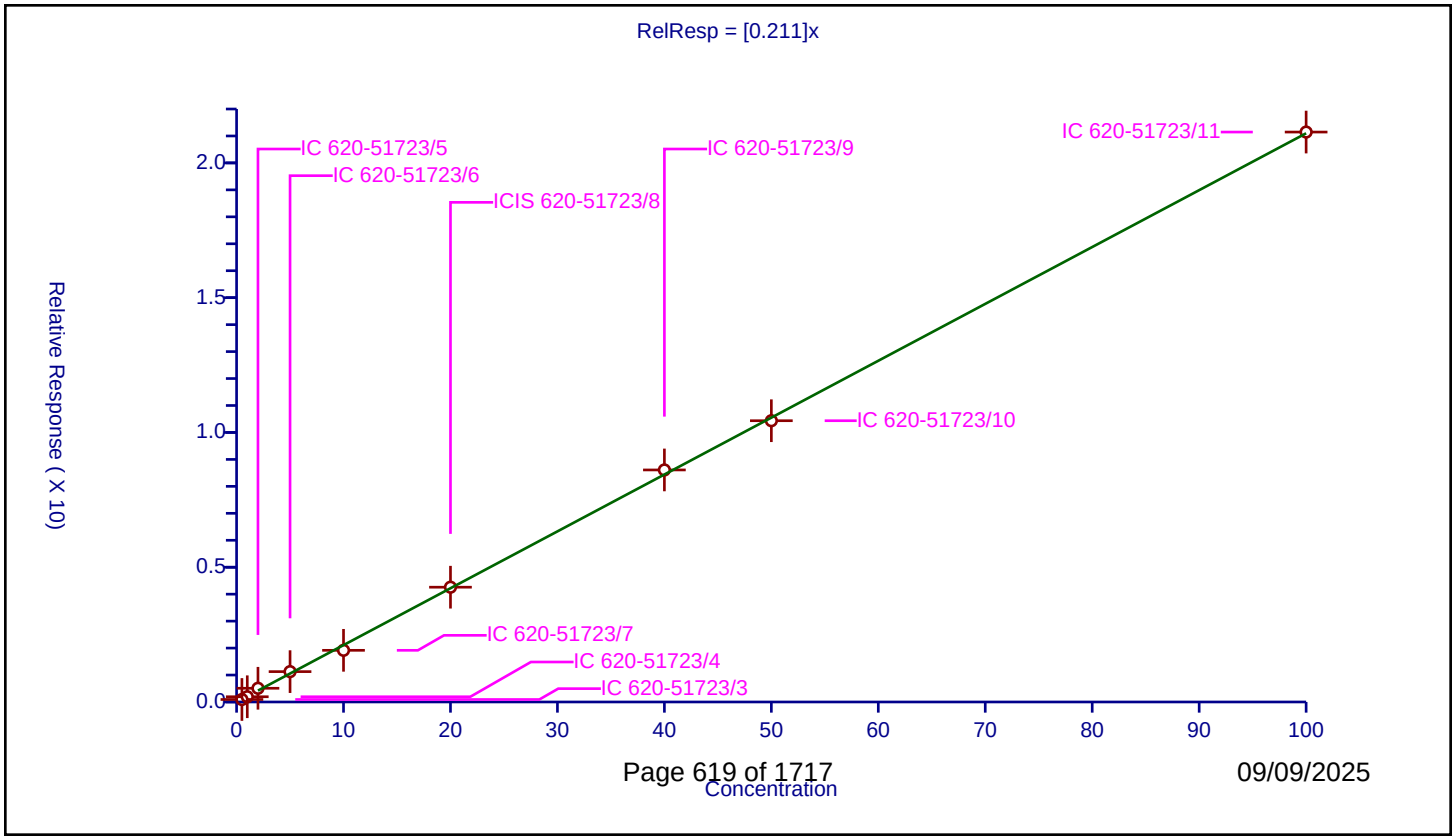
Curve Coefficients

Intercept:	0
Slope:	0.211

Error Coefficients

Relative Standard Deviation:	9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.09246	50.0	153580.0	0.18492	Y
2	IC 620-51723/4	1.0	0.194443	50.0	152230.0	0.194443	Y
3	IC 620-51723/5	2.0	0.508577	50.0	150223.0	0.254289	Y
4	IC 620-51723/6	5.0	1.126131	50.0	154245.0	0.225226	Y
5	IC 620-51723/7	10.0	1.917245	50.0	148729.0	0.191725	Y
6	ICIS 620-51723/8	20.0	4.259019	50.0	147217.0	0.212951	Y
7	IC 620-51723/9	40.0	8.608523	50.0	148655.0	0.215213	Y
8	IC 620-51723/10	50.0	10.434962	50.0	152818.0	0.208699	Y
9	IC 620-51723/11	100.0	21.145474	50.0	160091.0	0.211455	Y



Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

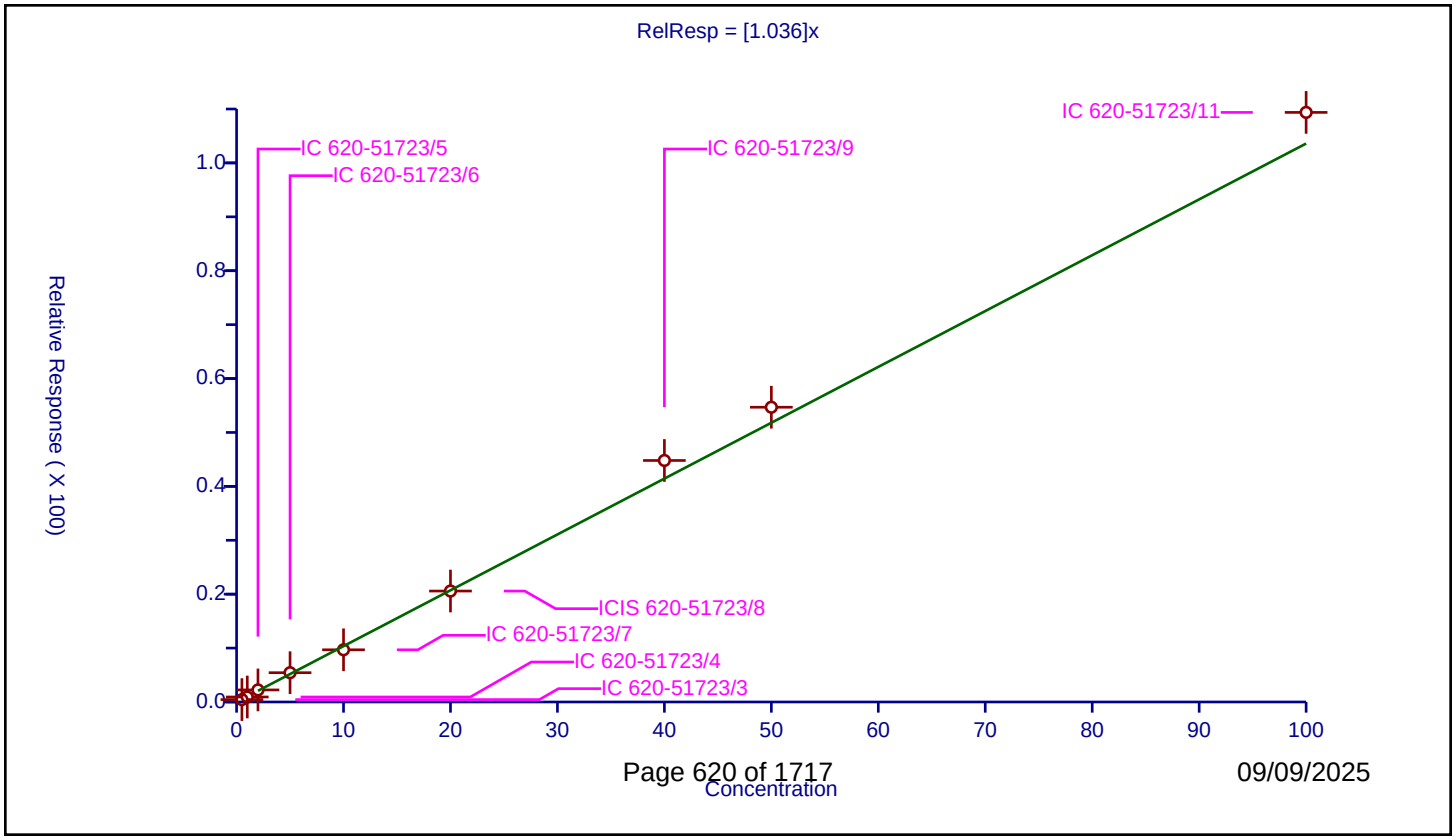
Curve Coefficients

Intercept:	0
Slope:	1.036

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.443092	50.0	153580.0	0.886183	Y
2	IC 620-51723/4	1.0	0.927544	50.0	152230.0	0.927544	Y
3	IC 620-51723/5	2.0	2.236342	50.0	150223.0	1.118171	Y
4	IC 620-51723/6	5.0	5.433239	50.0	154245.0	1.086648	Y
5	IC 620-51723/7	10.0	9.685401	50.0	148729.0	0.96854	Y
6	ICIS 620-51723/8	20.0	20.581862	50.0	147217.0	1.029093	Y
7	IC 620-51723/9	40.0	44.80004	50.0	148655.0	1.120001	Y
8	IC 620-51723/10	50.0	54.681059	50.0	152818.0	1.093621	Y
9	IC 620-51723/11	100.0	109.371857	50.0	160091.0	1.093719	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

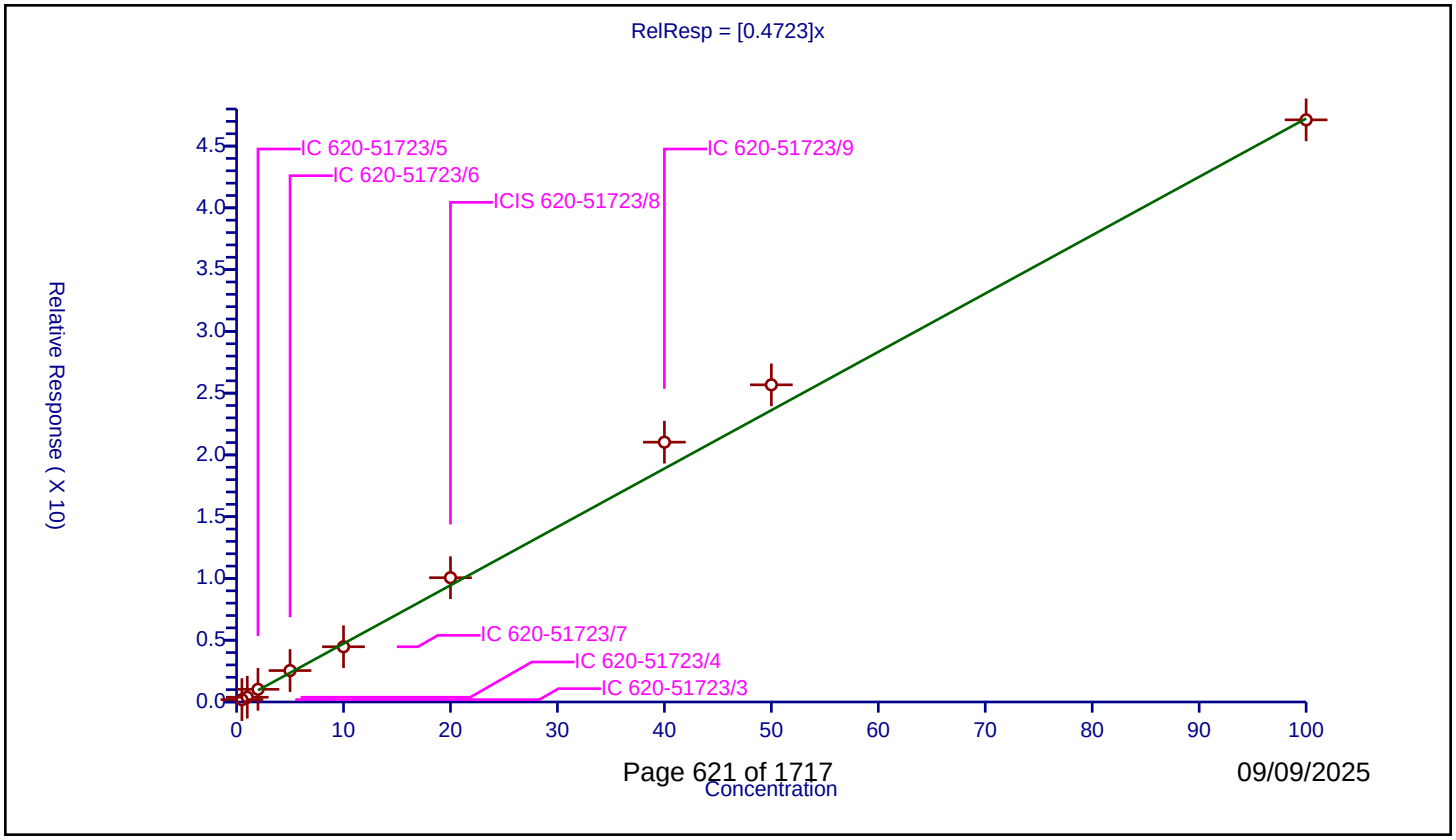
Curve Coefficients

Intercept:	0
Slope:	0.4723

Error Coefficients

Relative Standard Deviation:	11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.191616	50.0	255720.0	0.383232	Y
2	IC 620-51723/4	1.0	0.384796	50.0	251042.0	0.384796	Y
3	IC 620-51723/5	2.0	1.027248	50.0	249891.0	0.513624	Y
4	IC 620-51723/6	5.0	2.543242	50.0	253397.0	0.508648	Y
5	IC 620-51723/7	10.0	4.471034	50.0	248891.0	0.447103	Y
6	ICIS 620-51723/8	20.0	10.060225	50.0	249731.0	0.503011	Y
7	IC 620-51723/9	40.0	21.032941	50.0	262745.0	0.525824	Y
8	IC 620-51723/10	50.0	25.673462	50.0	276593.0	0.513469	Y
9	IC 620-51723/11	100.0	47.123442	50.0	312787.0	0.471234	Y



Calibration / Naphthalene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

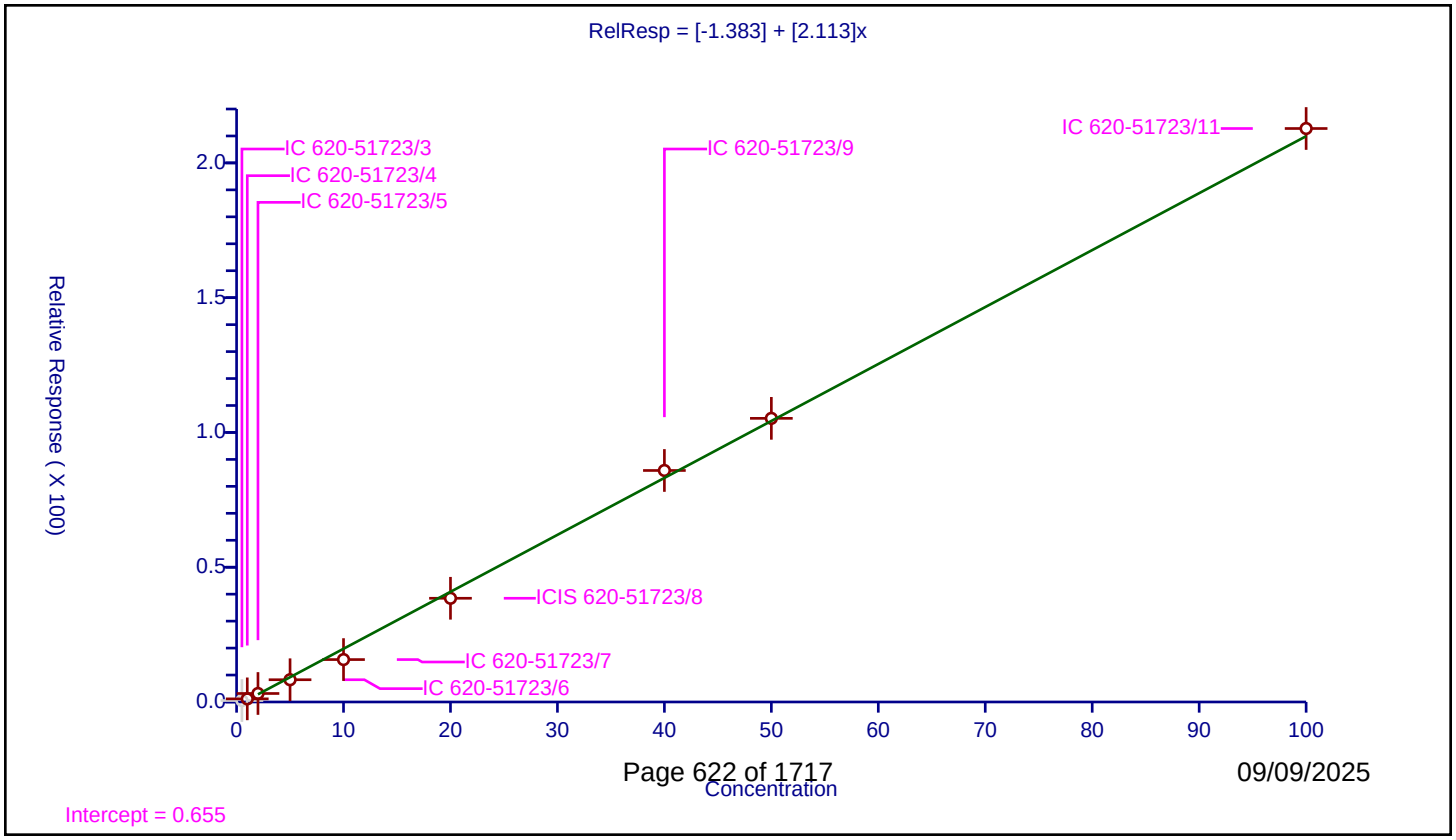
Curve Coefficients

Intercept:	-1.383
Slope:	2.113

Error Coefficients

Relative Standard Deviation:	12.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.539458	50.0	153580.0	1.078917	N
2	IC 620-51723/4	1.0	1.16567	50.0	152230.0	1.16567	Y
3	IC 620-51723/5	2.0	3.146655	50.0	150223.0	1.573328	Y
4	IC 620-51723/6	5.0	8.258615	50.0	154245.0	1.651723	Y
5	IC 620-51723/7	10.0	15.739365	50.0	148729.0	1.573936	Y
6	ICIS 620-51723/8	20.0	38.477214	50.0	147217.0	1.923861	Y
7	IC 620-51723/9	40.0	85.891494	50.0	148655.0	2.147287	Y
8	IC 620-51723/10	50.0	105.228769	50.0	152818.0	2.104575	Y
9	IC 620-51723/11	100.0	212.766801	50.0	160091.0	2.127668	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

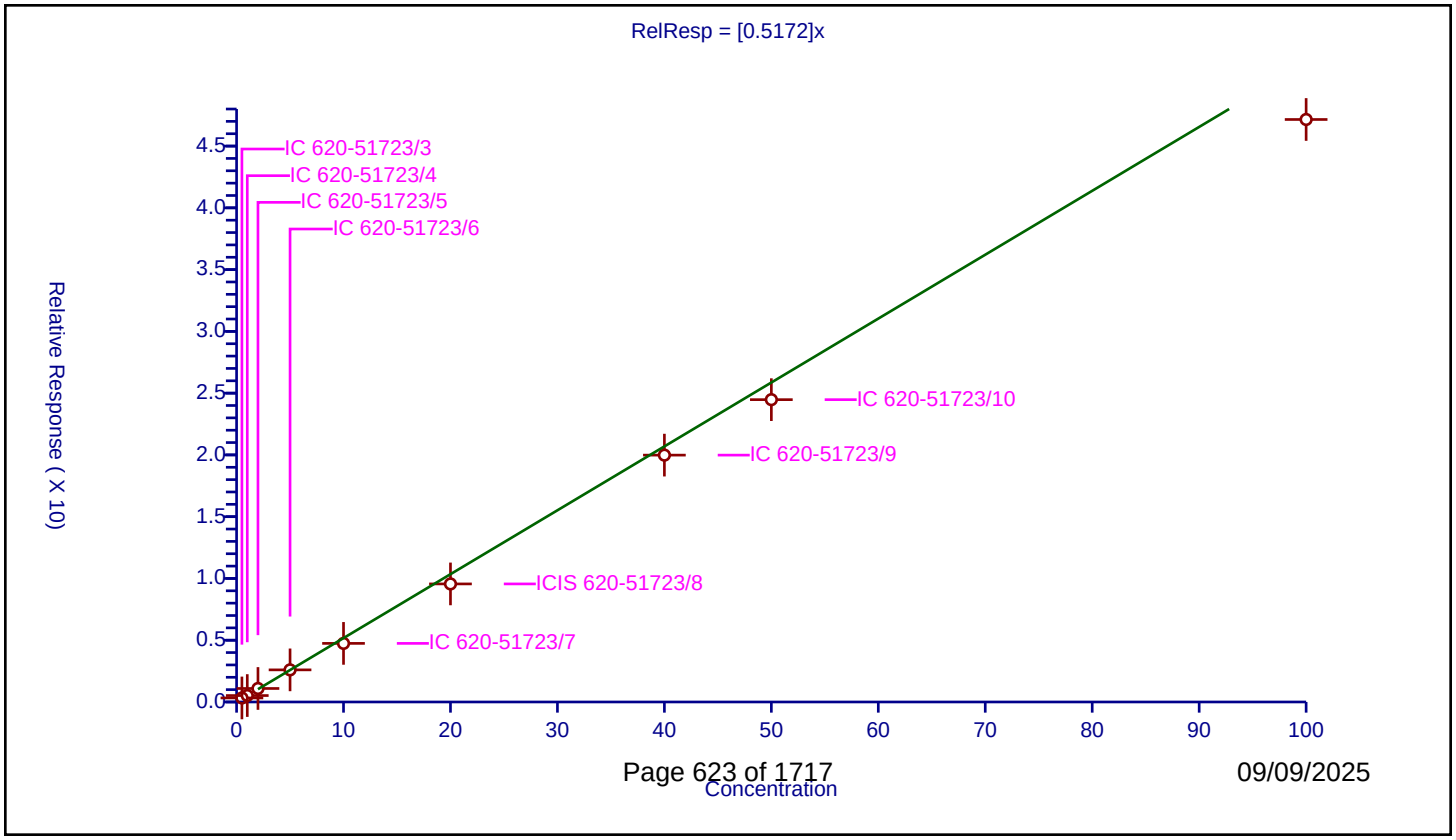
Curve Coefficients

Intercept:	0
Slope:	0.5172

Error Coefficients

Relative Standard Deviation:	11.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.327517	50.0	153580.0	0.655033	Y
2	IC 620-51723/4	1.0	0.520922	50.0	152230.0	0.520922	Y
3	IC 620-51723/5	2.0	1.092709	50.0	150223.0	0.546354	Y
4	IC 620-51723/6	5.0	2.600084	50.0	154245.0	0.520017	Y
5	IC 620-51723/7	10.0	4.742518	50.0	148729.0	0.474252	Y
6	ICIS 620-51723/8	20.0	9.55732	50.0	147217.0	0.477866	Y
7	IC 620-51723/9	40.0	19.982846	50.0	148655.0	0.499571	Y
8	IC 620-51723/10	50.0	24.472575	50.0	152818.0	0.489452	Y
9	IC 620-51723/11	100.0	47.15162	50.0	160091.0	0.471516	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

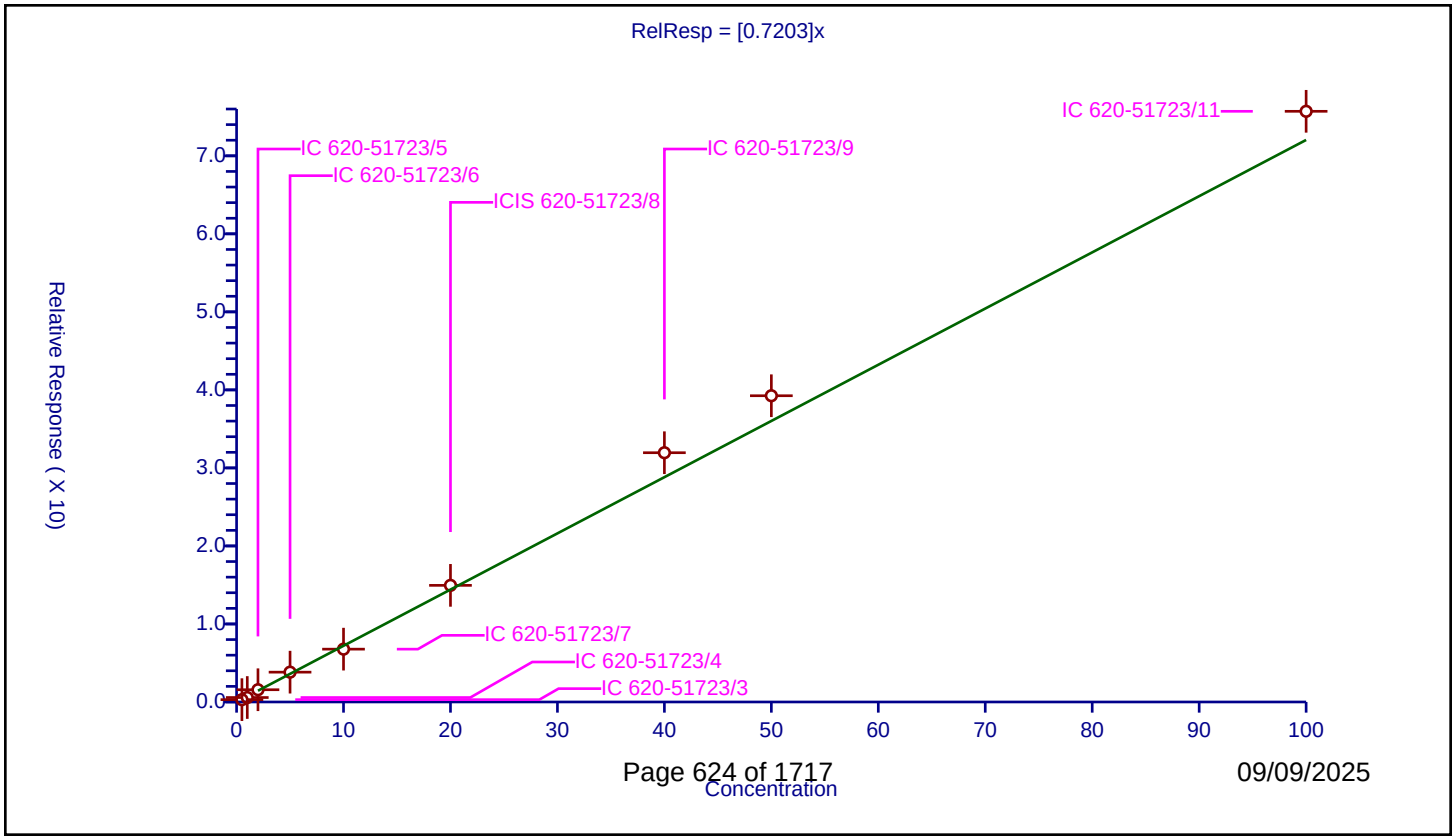
Curve Coefficients

Intercept:	0
Slope:	0.7203

Error Coefficients

Relative Standard Deviation:	11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51723/3	0.5	0.297565	50.0	153580.0	0.59513	Y
2	IC 620-51723/4	1.0	0.571832	50.0	152230.0	0.571832	Y
3	IC 620-51723/5	2.0	1.571996	50.0	150223.0	0.785998	Y
4	IC 620-51723/6	5.0	3.823139	50.0	154245.0	0.764628	Y
5	IC 620-51723/7	10.0	6.773393	50.0	148729.0	0.677339	Y
6	ICIS 620-51723/8	20.0	14.946304	50.0	147217.0	0.747315	Y
7	IC 620-51723/9	40.0	31.94679	50.0	148655.0	0.79867	Y
8	IC 620-51723/10	50.0	39.253229	50.0	152818.0	0.785065	Y
9	IC 620-51723/11	100.0	75.706317	50.0	160091.0	0.757063	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51000

SDG No.:

Instrument ID: HPV5 GC Column: RTX-VMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2025 10:25 Calibration End Date: 07/24/2025 13:52 Calibration ID: 10429

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-51000/3	V5-072425-03.D
Level 2	IC 620-51000/4	V5-072425-04.D
Level 3	IC 620-51000/5	V5-072425-05.D
Level 4	IC 620-51000/6	V5-072425-06.D
Level 5	IC 620-51000/7	V5-072425-07.D
Level 6	ICIS 620-51000/8	V5-072425-08.D
Level 7	IC 620-51000/9	V5-072425-09.D
Level 8	IC 620-51000/10	V5-072425-10.D
Level 9	IC 620-51000/11	V5-072425-11.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 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane (Freon 12)	0.1543 0.1558	0.1544 0.1471	0.1317 0.1485	0.1519 0.1401	0.1384	Ave		0.1469			0.0100	5.7		20.0			
Chloromethane	0.2394 0.2252	0.2086 0.2107	0.2154 0.2055	0.2185 0.1957	0.2070	Ave		0.2140			0.0500	5.9		20.0			
Vinyl chloride	0.1668 0.1802	0.1439 0.1677	0.1519 0.1666	0.1713 0.1623	0.1570	Ave		0.1631			0.0500	6.7		20.0			
Bromomethane	0.0674 0.0664	0.0762 0.0617	0.0660 0.0622	0.0680 0.0578	0.0610	Ave		0.0652			0.0100	8.2		20.0			
Chloroethane	0.0875 0.0745	0.0848 0.0475	0.0814 +++++	0.0787 +++++	0.0654	Qua1	0	0.0843	-0.000887		0.0833				0.9900		0.9900
Trichlorofluoromethane (Freon 11)	0.2800 0.3079	0.2512 0.2897	0.2742 0.2880	0.2914 0.2674	0.2645	Ave		0.2794			0.0500	6.1		20.0			
Ethyl ether	0.1400 0.1582	0.1492 0.1698	0.1534 0.1696	0.1564 0.1689	0.1496	Ave		0.1572			0.0500	6.7		20.0			
Ethanol	+++++ 0.0013	+++++ 0.0017	0.0019 0.0017	0.0016 0.0019	0.0016	Ave		0.0017		*	0.0023	12.8		20.0			
1,1-Dichloroethene	0.1591 0.1828	0.1606 0.1790	0.1567 0.1786	0.1647 0.1781	0.1545	Ave		0.1682			0.0500	6.7		20.0			
Carbon disulfide	0.5392 0.5991	0.5031 0.5740	0.5054 0.5712	0.5539 0.5587	0.5254	Ave		0.5478			0.0500	5.9		20.0			
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.1912 0.1878	0.1644 0.1773	0.1692 0.1781	0.1750 0.1745	0.1604	Ave		0.1753			0.0500	5.7		20.0			
Iodomethane	+++++ 0.2540	+++++ 0.2532	0.0999 0.2702	0.1444 0.2852	0.1691	Qua1	-0.398	0.2485	0.0004263		0.0500				0.9970		0.9900

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 Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51000

SDG No.:

Instrument ID: HPV5 GC Column: RTX-VMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2025 10:25 Calibration End Date: 07/24/2025 13:52 Calibration ID: 10429

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 9	LVL 5		B	M1	M2								
Methylene Chloride	0.3169 0.2129	0.3009 0.2053	0.2583 0.2022	0.2271 0.1989	0.2081	Lin1	0.0825	0.2010			0.0500				0.9990		0.9900
Acetone	+++++ 0.0484	+++++ 0.0752	0.0835 0.0615	0.0693 0.0598	0.0665	Ave		0.0663		*	0.0870	17.1		20.0			
trans-1,2-Dichloroethene	0.1830 0.1994	0.1798 0.1950	0.1820 0.1968	0.1832 0.1953	0.1798	Ave		0.1883			0.0500	4.3		20.0			
Methyl acetate	+++++ 0.1172	+++++ 0.1575	0.0995 0.1548	0.1070 0.1607	0.1282	Ave		0.1321			0.0500	19.3		20.0			
Methyl tert-butyl ether	0.3362 0.3595	0.3413 0.4081	0.3629 0.4184	0.3616 0.4346	0.3485	Ave		0.3746			0.0500	9.6		20.0			
tert-Butanol	0.0052 0.0057	0.0052 0.0089	0.0081 0.0088	0.0076 0.0098	0.0069	Qua1	-0.009	0.0070	0.0000030	*	0.0080				0.9940		0.9900
di-Isopropyl ether	0.5074 0.6389	0.5347 0.6640	0.5550 0.6707	0.5812 0.6684	0.5625	Ave		0.5981			0.0500	10.6		20.0			
1,1-Dichloroethane	0.3556 0.3681	0.3508 0.3465	0.3451 0.3487	0.3531 0.3440	0.3313	Ave		0.3492			0.0500	2.8		20.0			
Acrylonitrile	0.0357 0.0520	0.0376 0.0698	0.0563 0.0703	0.0521 0.0724	0.0615	Qua1	-0.018	0.0611	0.0001260		0.0500				0.9960		0.9900
Ethyl tert-butyl ether	0.3267 0.4102	0.3494 0.4656	0.3686 0.4786	0.3691 0.5018	0.3694	Ave		0.4044			0.0500	15.5		20.0			
Vinyl acetate	+++++ 0.3602	0.2075 0.4722	0.2269 0.4641	0.2881 0.4806	0.3516	Qua1	-0.328	0.4117	0.0008020		0.0500				0.9960		0.9900
cis-1,2-Dichloroethene	0.2065 0.2231	0.2023 0.2175	0.2184 0.2174	0.2085 0.2164	0.2024	Ave		0.2125			0.0500	3.6		20.0			
2,2-Dichloropropane	0.2095 0.2322	0.1888 0.2365	0.1864 0.2399	0.1959 0.2472	0.1953	Ave		0.2146			0.0500	11.3		20.0			
Bromochloromethane	0.1306 0.1241	0.1240 0.1214	0.1317 0.1209	0.1255 0.1177	0.1162	Ave		0.1236			0.0500	4.2		20.0			
Cyclohexane	0.2301 0.2913	0.2201 0.2828	0.2182 0.2850	0.2555 0.2790	0.2422	Ave		0.2560			0.0500	11.5		20.0			
Chloroform	1.2508 0.4089	0.8191 0.3812	0.6068 0.3740	0.4741 0.3613	0.3950	Lin1	0.4605	0.3636			0.0500				0.9990		0.9900
Carbon tetrachloride	0.2614 0.2905	0.2326 0.2847	0.2406 0.2853	0.2666 0.2887	0.2442	Ave		0.2661			0.0500	8.5		20.0			
Tetrahydrofuran	+++++ 0.0354	0.0463 0.0532	0.0425 0.0521	0.0360 0.0575	0.0382	Ave		0.0451			0.0290	18.8		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 Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51000

SDG No.:

Instrument ID: HPV5 GC Column: RTX-VMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2025 10:25 Calibration End Date: 07/24/2025 13:52 Calibration ID: 10429

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 9	LVL 5		B	M1	M2								
1,1,1-Trichloroethane	0.2872 0.3333	0.2867 0.3204	0.2838 0.3226	0.2996 0.3186	0.2840	Ave		0.3040			0.0500	6.5		20.0			
2-Butanone (MEK)	+++++ 0.0680	+++++ 0.1045	0.0468 0.0915	0.0622 0.0963	0.0726	Qua1	-0.118	0.0897	0.0000918	*	0.0950				0.9910		0.9900
1,1-Dichloropropene	0.2014 0.2397	0.1930 0.2442	0.1986 0.2419	0.2206 0.2404	0.2078	Ave		0.2208			0.0500	9.5		20.0			
Benzene	0.7479 0.8116	0.7414 0.7833	0.7621 0.7836	0.7683 0.7631	0.7385	Ave		0.7666			0.0500	3.1		20.0			
Tert-amyl methyl ether	0.2502 0.2802	0.2651 0.3200	0.2937 0.3318	0.2699 0.3584	0.2658	Ave		0.2928			0.0500	12.4		20.0			
1,2-Dichloroethane	0.3480 0.3053	0.3454 0.2937	0.3506 0.2934	0.3153 0.2834	0.2929	Ave		0.3142			0.0500	8.5		20.0			
Methylcyclohexane	0.2011 0.2246	0.1655 0.2277	0.1774 0.2339	0.2028 0.2341	0.1928	Ave		0.2067			0.0500	12.1		20.0			
Trichloroethene	0.2520 0.2285	0.2308 0.2199	0.2226 0.2184	0.2222 0.2142	0.2046	Ave		0.2237			0.0500	5.9		20.0			
Dibromomethane	0.1562 0.1356	0.1385 0.1373	0.1520 0.1365	0.1385 0.1358	0.1325	Ave		0.1403			0.1100	5.8		20.0			
1,2-Dichloropropane	0.1819 0.1983	0.1799 0.1947	0.2001 0.1936	0.1899 0.1899	0.1787	Ave		0.1897			0.0500	4.2		20.0			
Bromodichloromethane	0.3776 0.2777	0.3310 0.2717	0.3200 0.2715	0.2825 0.2690	0.2544	Ave		0.2951			0.0500	13.5		20.0			
1,4-Dioxane	+++++ 0.0011	0.0010 0.0017	0.0016 0.0017	0.0014 0.0018	0.0015	Qua1	-0.002	0.0014	0.0000005		0.0010				0.9940		0.9900
cis-1,3-Dichloropropene	0.1602 0.2801	0.2084 0.3005	0.2320 0.3056	0.2448 0.3106	0.2400	Lin1	-0.115	0.3036			0.0500				0.9970		0.9900
Toluene	0.4921 0.5174	0.5097 0.4988	0.5205 0.5015	0.5105 0.4918	0.4755	Ave		0.5020			0.0500	2.8		20.0			
Tetrachloroethene	0.2248 0.2348	0.2031 0.2327	0.2204 0.2339	0.2248 0.2322	0.2100	Ave		0.2241			0.0500	5.0		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.1167	0.0938 0.1775	0.0936 0.1714	0.1089 0.1832	0.1257	Qua1	-0.092	0.1429	0.0004482		0.0990				0.9930		0.9900
trans-1,3-Dichloropropene	0.1415 0.2401	0.1523 0.2734	0.1955 0.2754	0.2149 0.2826	0.2149	Qua1	-0.085	0.2480	0.0003894		0.0500				0.9980		0.9900
1,1,2-Trichloroethane	0.1456 0.1468	0.1477 0.1538	0.1727 0.1524	0.1632 0.1502	0.1453	Ave		0.1531			0.0500	6.0		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
CURVE EVALUATION

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51000

SDG No.:

Instrument ID: HPV5 GC Column: RTX-VMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2025 10:25 Calibration End Date: 07/24/2025 13:52 Calibration ID: 10429

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 9	LVL 5		B	M1	M2								
Ethyl methacrylate	+++++ 0.1645	0.0859 0.2275	0.0837 0.2227	0.1113 +++++	0.1429	Qua1	-0.076	0.1315	0.0020439		0.0500				0.9960		0.9900
Dibromochloromethane	0.2645 0.2177	0.2373 0.2325	0.2424 0.2309	0.2324 0.2341	0.2023	Ave		0.2327			0.0500	7.3		20.0			
1,3-Dichloropropane	0.2661 0.2877	0.2886 0.3001	0.3258 0.2954	0.3104 0.2924	0.2783	Ave		0.2939			0.0500	5.9		20.0			
1,2-Dibromoethane (EDB)	0.1430 0.1809	0.1645 0.2010	0.1977 0.2003	0.1926 0.2019	0.1788	Ave		0.1845			0.0500	10.9		20.0			
2-Hexanone (MBK)	+++++ 0.0742	0.0424 0.1507	0.0355 +++++	0.0688 +++++	0.0732	Qua1	0.0203	0.0294	0.0029498	*	0.0860				0.9910		0.9900
Chlorobenzene	0.7967 0.7583	0.8191 0.7242	0.8665 0.7208	0.7856 0.7136	0.7012	Ave		0.7651			0.0500	7.3		20.0			
Ethylbenzene	0.9840 1.2409	1.0426 1.2003	1.1546 1.1985	1.1755 1.1821	1.1047	Ave		1.1426			0.0500	7.3		20.0			
1,1,1,2-Tetrachloroethane	0.2324 0.2779	0.2426 0.2745	0.2878 0.2804	0.2758 0.2844	0.2461	Ave		0.2669			0.0500	7.7		20.0			
m,p-Xylene	0.6030 0.9398	0.7684 0.9266	0.7688 0.9269	0.8466 0.9251	0.8236	Ave		0.8365			0.0500	13.3		20.0			
o-Xylene	0.6388 0.9532	0.6857 0.9482	0.8046 0.9452	0.8636 0.9407	0.8288	Ave		0.8454			0.0500	14.0		20.0			
Styrene	0.3597 0.7354	0.4401 0.7308	0.5094 0.7333	0.6500 0.7340	0.6227	Lin1	-0.278	0.7336			0.0500				0.9990		0.9900
Bromoform	0.1444 0.1591	0.1478 0.1873	0.1707 0.1882	0.1719 0.2010	0.1516	Ave		0.1691			0.0500	11.8		20.0			
Isopropylbenzene	0.6926 1.1237	0.7263 1.1025	0.8960 1.1130	0.9888 1.0940	0.9646	Ave		0.9668			0.0500	17.1		20.0			
Bromobenzene	0.3233 0.3400	0.3463 0.3300	0.3816 0.3288	0.3615 0.3310	0.3181	Ave		0.3401			0.0500	6.0		20.0			
N-Propylbenzene	0.8700 1.2739	0.8821 1.2419	1.0661 1.2471	1.1871 1.2286	1.1134	Ave		1.1234			0.0500	13.8		20.0			
1,1,2,2-Tetrachloroethane	0.2635 0.2615	0.2948 0.2986	0.3476 0.2924	0.3278 0.2986	0.2805	Ave		0.2961			0.0500	9.4		20.0			
2-Chlorotoluene	0.5863 0.7757	0.6213 0.7603	0.7420 0.7603	0.7583 0.7574	0.6908	Ave		0.7169			0.0500	9.6		20.0			
1,2,3-Trichloropropane	0.2144 0.2110	0.2610 0.2459	0.2878 0.2373	0.2737 0.2397	0.2348	Ave		0.2451			0.0500	10.4		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 Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51000

SDG No.:

Instrument ID: HPV5 GC Column: RTX-VMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2025 10:25 Calibration End Date: 07/24/2025 13:52 Calibration ID: 10429

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 9	LVL 5		B	M1	M2								
1,3,5-Trimethylbenzene	+++++ 0.9226	0.5774 0.9017	0.7271 0.9034	0.8287 0.8959	0.7907	Ave		0.8184			0.0500	14.5		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.0399	0.0438 0.0552	0.0480 0.0553	0.0478 0.0575	0.0442	Ave		0.0490		*	0.0910	13.0		20.0			
4-Chlorotoluene	0.6265 0.8278	0.7189 0.8025	0.8129 0.8075	0.8246 0.8038	0.7433	Ave		0.7742			0.0500	8.6		20.0			
tert-Butylbenzene	0.3537 0.5754	0.3639 0.5799	0.4413 0.5788	0.5171 0.5715	0.4939	Ave		0.4973			0.0500	18.4		20.0			
1,2,4-Trimethylbenzene	0.4811 0.8892	0.5438 0.8798	0.6978 0.8736	0.8116 0.8773	0.7754	Lin1	-0.277	0.8791			0.0500				0.9990		0.9900
sec-Butylbenzene	0.6073 1.0071	0.6396 0.9958	0.7393 1.0001	0.9319 0.9937	0.8614	Ave		0.8640			0.0500	18.7		20.0			
4-Isopropyltoluene	+++++ 1.7326	0.9672 1.7592	1.2573 1.7811	1.5036 1.7779	1.4615	Lin1	-1.051	1.7802			0.0500				0.9990		0.9900
1,3-Dichlorobenzene	0.5173 0.5912	0.5344 0.5750	0.6077 0.5736	0.6160 0.5772	0.5450	Ave		0.5708			0.0500	5.8		20.0			
1,4-Dichlorobenzene	+++++ 1.2039	1.4994 1.1642	1.5501 1.1650	1.3462 1.1849	1.1384	Ave		1.2815			0.0500	12.8		20.0			
n-Butylbenzene	+++++ 1.2424	0.6364 1.3103	0.7880 1.3270	1.0150 1.3542	1.0247	Lin1	-1.051	1.3376			0.0500				0.9980		0.9900
1,2-Dichlorobenzene	0.9492 1.0854	0.9938 1.0689	1.2281 1.0715	1.1307 1.0948	0.9988	Ave		1.0690			0.0500	7.8		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0641	0.0699 0.0913	0.0812 0.0881	0.0754 0.1018	0.0645	Ave		0.0795			0.0630	17.0		20.0			
1,3,5-Trichlorobenzene	0.5675 0.6382	0.5271 0.6546	0.6250 0.6561	0.6074 0.6817	0.5618	Ave		0.6133			0.0500	8.4		20.0			
Hexachlorobutadiene	0.2077 0.2270	0.2089 0.2309	0.2240 0.2263	0.2383 0.2327	0.2073	Ave		0.2226			0.0500	5.3		20.0			
1,2,4-Trichlorobenzene	+++++ 0.2608	0.1673 0.2925	0.2158 0.2926	0.2532 0.3121	0.2303	Lin1	-0.199	0.3005			0.0500				0.9960		0.9900
Naphthalene	+++++ 0.9096	0.3763 1.3720	0.6282 1.4055	0.7732 1.5776	0.8425	Qua1	-0.957	1.0522	0.0056581		0.0500				0.9940		0.9900
1,2,3-Trichlorobenzene	+++++ 0.4704	0.3504 0.5427	0.4546 0.5413	0.4693 0.5798	0.4385	Ave		0.4809			0.0500	15.1		20.0			
Dibromofluoromethane (Surr)	0.2838 0.2896	0.2815 0.2892	0.2860 0.2891	0.2844 0.2869	0.2895	Ave		0.2867			0.0500	1.0		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
CURVE EVALUATION

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51000

SDG No.:

Instrument ID: HPV5 GC Column: RTX-VMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2025 10:25 Calibration End Date: 07/24/2025 13:52 Calibration ID: 10429

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 9	LVL 5		B	M1	M2								
1,2-Dichloroethane-d4 (Surr)	0.2834 0.2711	0.2834 0.2887	0.2863 0.2825	0.2902 0.2783	0.2918	Ave		0.2840			0.0500	2.2		20.0			
Toluene-d8 (Surr)	0.9199 0.9341	0.9194 0.9245	0.9300 0.9256	0.9277 0.9239	0.9359	Ave		0.9268			0.0500	0.6		20.0			
4-Bromofluorobenzene (Surr)	0.4286 0.4314	0.4270 0.4328	0.4298 0.4306	0.4360 0.4297	0.4353	Ave		0.4312			0.0500	0.7		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1 | Analy Batch No.: 51000

SDG No.:

Instrument ID: HPV5 | GC Column: RTX-VMS | ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2025 10:25 | Calibration End Date: 07/24/2025 13:52 | Calibration ID: 10429

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-51000/3	V5-072425-03.D
Level 2	IC 620-51000/4	V5-072425-04.D
Level 3	IC 620-51000/5	V5-072425-05.D
Level 4	IC 620-51000/6	V5-072425-06.D
Level 5	IC 620-51000/7	V5-072425-07.D
Level 6	ICIS 620-51000/8	V5-072425-08.D
Level 7	IC 620-51000/9	V5-072425-09.D
Level 8	IC 620-51000/10	V5-072425-10.D
Level 9	IC 620-51000/11	V5-072425-11.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 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane (Freon 12)	FB	Ave	1586 59542	3129 122511	5352 160931	15312 308134	27678	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Chloromethane	FB	Ave	2460 86053	4228 175489	8754 222695	22022 430526	41398	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Vinyl chloride	FB	Ave	1714 68849	2916 139739	6171 180548	17265 356990	31382	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Bromomethane	FB	Ave	693 25355	1544 51405	2682 67416	6856 127080	12189	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Chloroethane	FB	Qua1	899 28446	1718 39599	3307 +++++	7937 +++++	13079	0.500 20.0	1.00 40.0	2.00 +++++	5.00 +++++	10.0
Trichlorofluoromethane (Freon 11)	FB	Ave	2878 117657	5091 241303	11144 312127	29374 588075	52889	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Ethyl ether	FB	Ave	1439 60440	3024 141465	6233 183817	15769 371552	29908	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Ethanol	FB	Ave	+++++ 9826	+++++ 28785	1551 36976	3166 82752	6329	+++++ 400	+++++ 800	40.0 1000	100 2000	200
1,1-Dichloroethene	FB	Ave	1635 69845	3254 149100	6366 193506	16607 391740	30896	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Carbon disulfide	FB	Ave	5541 228898	10197 478176	20539 618969	55839 1228769	105054	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1,2-Trichlorotrifluoroethane (Freon 113)	FB	Ave	1965 71745	3332 147713	6875 193000	17644 383829	32069	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Iodomethane	FB	Qua1	+++++ 97051	+++++ 210960	4060 292840	14555 627304	33820	+++++ 20.0	+++++ 40.0	2.00 50.0	5.00 100	10.0
Methylene Chloride	FB	Lin1	3257 81328	6098 171047	10495 219112	22898 437441	41618	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Acetone	FB	Ave	+++++ 18489	+++++ 62638	3393 66692	6983 131582	13299	+++++ 20.0	+++++ 40.0	2.00 50.0	5.00 100	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51000

SDG No.:

Instrument ID: HPV5 GC Column: RTX-VMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2025 10:25 Calibration End Date: 07/24/2025 13:52 Calibration ID: 10429

ANALYTE	IS REF	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
trans-1,2-Dichloroethene	FB	Ave	1881 76202	3645 162424	7398 213328	18470 429589	35954	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Methyl acetate	FB	Ave	+++++ 44771	+++++ 131198	4043 167793	10784 353479	25626	+++++ 20.0	+++++ 40.0	2.00 50.0	5.00 100	10.0
Methyl tert-butyl ether	FB	Ave	3455 137371	6918 340007	14748 453458	36457 955890	69686	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
tert-Butanol	FB	Qua1	531 21749	1054 74270	3281 94877	7692 215776	13839	5.00 200	10.0 400	20.0 500	50.0 1000	100
di-Isopropyl ether	FB	Ave	5214 244092	10837 553155	22553 726800	58589 1470050	112470	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1-Dichloroethane	FB	Ave	3654 140625	7109 288617	14024 377927	35594 756516	66240	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Acrylonitrile	FB	Qua1	367 19881	762 58148	2289 76179	5252 159281	12287	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Ethyl tert-butyl ether	FB	Ave	3357 156729	7082 387855	14978 518689	37213 1103624	73855	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Vinyl acetate	FB	Qua1	+++++ 137612	4206 393382	9219 502976	29042 1056988	70296	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
cis-1,2-Dichloroethene	FB	Ave	2122 85226	4101 181177	8874 235551	21022 475971	40463	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
2,2-Dichloropropane	FB	Ave	2153 88709	3826 197047	7573 259984	19746 543766	39042	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Bromochloromethane	FB	Ave	1342 47413	2514 101117	5351 130977	12648 258798	23243	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Cyclohexane	FB	Ave	2365 111303	4460 235610	8868 308861	25759 613759	48435	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Chloroform	FB	Lin1	12854 156240	16601 317544	24659 405350	47789 794658	78971	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Carbon tetrachloride	FB	Ave	2686 110989	4714 237166	9779 309178	26874 634924	48828	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Tetrahydrofuran	FB	Ave	+++++ 13515	938 44282	1727 56491	3625 126570	7639	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1,1-Trichloroethane	FB	Ave	2951 127329	5810 266910	11533 349559	30206 700802	56784	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
2-Butanone (MEK)	FB	Qua1	+++++ 25992	+++++ 87035	1902 99186	6274 211857	14519	+++++ 20.0	+++++ 40.0	2.00 50.0	5.00 100	10.0
1,1-Dichloropropene	FB	Ave	2070 91587	3912 203415	8069 262182	22240 528709	41551	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Benzene	FB	Ave	7686 310111	15026 652532	30968 849208	77453 1678432	147655	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Tert-amyl methyl ether	FB	Ave	2571	5372	11937	27203	53139	0.500	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 Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51000

SDG No.:

Instrument ID: HPV5 GC Column: RTX-VMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2025 10:25 Calibration End Date: 07/24/2025 13:52 Calibration ID: 10429

ANALYTE	IS REF	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
			107072	266543	359607	788320		20.0	40.0	50.0	100	
1,2-Dichloroethane	FB	Ave	3576 116660	7001 244643	14247 317991	31785 623403	58570	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Methylcyclohexane	FB	Ave	2067 85800	3355 189715	7210 253474	20441 514806	38558	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Trichloroethene	FB	Ave	2590 87308	4677 183229	9044 236720	22395 471148	40902	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Dibromomethane	FB	Ave	1605 51826	2808 114397	6177 147957	13957 298621	26492	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2-Dichloropropane	FB	Ave	1869 75767	3647 162153	8130 209761	19144 417669	35726	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Bromodichloromethane	FB	Ave	3881 106117	6708 226361	13004 294281	28481 591611	50873	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,4-Dioxane	FB	Qua1	+++++ 4311	194 13748	653 18662	1426 39991	2917	+++++ 200	10.0 400	20.0 500	50.0 1000	100
cis-1,3-Dichloropropene	FB	Lin1	1646 107004	4224 250315	9429 331178	24679 683060	47985	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Toluene	FB	Ave	5057 197693	10330 415493	21152 543492	51467 1081640	95077	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Tetrachloroethene	FB	Ave	2310 89696	4116 193831	8955 253485	22663 510663	41992	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
4-Methyl-2-pentanone (MIBK)	FB	Qua1	+++++ 44606	1901 147903	3803 185769	10977 402933	25132	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
trans-1,3-Dichloropropene	FB	Qua1	1454 91742	3087 227779	7946 298444	21660 621469	42959	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1,2-Trichloroethane	FB	Ave	1496 56078	2993 128145	7017 165184	16452 330269	29061	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Ethyl methacrylate	FB	Qua1	+++++ 62847	1741 189492	3401 241388	11224 +++++	28564	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 +++++	10.0
Dibromochloromethane	FB	Ave	2718 83171	4810 193683	9849 250206	23424 514996	40455	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,3-Dichloropropane	FB	Ave	2735 109924	5850 249978	13240 320114	31293 643100	55646	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2-Dibromoethane (EDB)	FB	Ave	1470 69107	3335 167403	8036 217080	19420 444043	35749	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
2-Hexanone (MBK)	FB	Qua1	+++++ 28348	859 125538	1443 +++++	6937 +++++	14631	+++++ 20.0	1.00 40.0	2.00 +++++	5.00 +++++	10.0
Chlorobenzene	CBNZd5	Ave	6183 222331	12444 469784	26718 605418	60723 1197797	108142	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51000

SDG No.:

Instrument ID: HPV5 GC Column: RTX-VMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2025 10:25 Calibration End Date: 07/24/2025 13:52 Calibration ID: 10429

ANALYTE	IS REF	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
Ethylbenzene	CBNZd5	Ave	7637 363857	15839 778700	35604 1006552	90859 1984140	170386	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	1804 81489	3686 178108	8876 235496	21319 477373	37961	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
m,p-Xylene	CBNZd5	Ave	4680 275570	11673 601082	23708 778450	65440 1552834	127029	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
o-Xylene	CBNZd5	Ave	4958 279495	10417 615131	24810 793836	66751 1578972	127821	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Styrene	CBNZd5	Lin1	2792 215627	6686 474105	15707 615898	50239 1232029	96042	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Bromoform	CBNZd5	Ave	1121 46653	2246 121531	5265 158028	13289 337313	23381	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Isopropylbenzene	CBNZd5	Ave	5375 329488	11034 715252	27628 934742	76430 1836308	148764	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Bromobenzene	CBNZd5	Ave	2509 99703	5261 214063	11767 276184	27940 555539	49066	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
N-Propylbenzene	CBNZd5	Ave	6752 373532	13401 805682	32874 1047402	91755 2062254	171722	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,1,2,2-Tetrachloroethane	CBNZd5	Ave	2045 76660	4479 193716	10718 245590	25339 501245	43264	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
2-Chlorotoluene	CBNZd5	Ave	4550 227439	9439 493199	22879 638588	58612 1271311	106546	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2,3-Trichloropropane	CBNZd5	Ave	1664 61861	3965 159535	8874 199276	21156 402333	36211	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,3,5-Trimethylbenzene	CBNZd5	Ave	+++++ 270522	8772 584935	22421 758710	64055 1503728	121957	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
trans-1,4-Dichloro-2-butene	FB	Ave	+++++ 15244	887 46019	1950 59896	4817 126395	8839	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
4-Chlorotoluene	CBNZd5	Ave	4862	10921	25067	63737	114642	0.500	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 Rhode Island | Job No.: 620-28577-1 | Analy Batch No.: 51000

SDG No.:

Instrument ID: HPV5 | GC Column: RTX-VMS | ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2025 10:25 | Calibration End Date: 07/24/2025 13:52 | Calibration ID: 10429

ANALYTE	IS REF	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
			242731	520603	678226	1349195		20.0	40.0	50.0	100	
tert-Butylbenzene	FB	Ave	3635 219862	7376 483066	17932 627294	52128 1256994	98757	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2,4-Trimethylbenzene	CBNZd5	Lin1	3734 260719	8261 570757	21518 733704	62730 1472524	119591	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
sec-Butylbenzene	CBNZd5	Ave	4713 295296	9716 646026	22798 839950	72029 1667959	132849	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
4-Isopropyltoluene	DCBd4	Lin1	+++++ 255683	6987 577444	18576 748425	57867 1485223	112667	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,3-Dichlorobenzene	CBNZd5	Ave	4015 173356	8118 373009	18738 481745	47615 968885	84052	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,4-Dichlorobenzene	DCBd4	Ave	+++++ 177659	10831 382146	22902 489518	51808 989821	87762	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
n-Butylbenzene	DCBd4	Lin1	+++++ 183344	4597 430085	11642 557582	39063 1131224	78997	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2-Dichlorobenzene	DCBd4	Ave	3551 160178	7179 350873	18145 450235	43516 914586	77002	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	+++++ 9465	505 29969	1199 37030	2901 85077	4970	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,3,5-Trichlorobenzene	DCBd4	Ave	2123 94179	3808 214857	9235 275676	23376 569450	43313	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Hexachlorobutadiene	DCBd4	Ave	777 33499	1509 75801	3309 95085	9171 194392	15980	0.500 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2,4-Trichlorobenzene	CBNZd5	Lin1	+++++ 76473	2542 189774	6654 245720	19570 523879	35523	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Naphthalene	DCBd4	Qua1	+++++ 134235	2718 450344	9282 590602	29757 1317823	64949	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
1,2,3-Trichlorobenzene	DCBd4	Ave	+++++ 69419	2531 178123	6716 227444	18060 484321	33804	+++++ 20.0	1.00 40.0	2.00 50.0	5.00 100	10.0
Dibromofluoromethane (Surr)	FB	Ave	291621 276603	285294 301120	290566 313288	286706 315545	289445	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	291286 258984	287213 300632	290824 306183	292527 306070	291684	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
Toluene-d8 (Surr)	FB	Ave	945337 892246	931757 962651	944799 1003110	935237 1016024	935630	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
4-Bromofluorobenzene (Surr)	CBNZd5	Ave	332613 316194	324306 350984	331326 361689	337004 360627	335706	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1 | Analy Batch No.: 51000

SDG No.:

Instrument ID: HPV5 | GC Column: RTX-VMS | ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2025 10:25 | Calibration End Date: 07/24/2025 13:52 | Calibration ID: 10429

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua1 = Quadratic 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51000

SDG No.:

Instrument ID: HPV5 GC Column: RTX-VMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2025 10:25 Calibration End Date: 07/24/2025 13:52 Calibration ID: 10429

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-51000/3	V5-072425-03.D
Level 2	IC 620-51000/4	V5-072425-04.D
Level 3	IC 620-51000/5	V5-072425-05.D
Level 4	IC 620-51000/6	V5-072425-06.D
Level 5	IC 620-51000/7	V5-072425-07.D
Level 6	ICIS 620-51000/8	V5-072425-08.D
Level 7	IC 620-51000/9	V5-072425-09.D
Level 8	IC 620-51000/10	V5-072425-10.D
Level 9	IC 620-51000/11	V5-072425-11.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane (Freon 12)	5.0						30					
Chloromethane	11.9						30					
Vinyl chloride	2.3						30					
Bromomethane	3.5						30					
Chloroethane	4.9	+++++	+++++				30					
Trichlorofluoromethane (Freon 11)	0.2						30					
Ethyl ether	-10.9						30					
Ethanol	+++++	+++++	14.5						30			
1,1-Dichloroethene	-5.4						30					
Carbon disulfide	-1.6						30					
1,1,2-Trichlorotrifluoroethane (Freon 113)	9.1						30					
Iodomethane	+++++	+++++	19.8						30			
Methylene Chloride	-24.4						30					
Acetone	+++++	+++++	25.9						30			

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51000

SDG No.:

Instrument ID: HPV5 GC Column: RTX-VMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2025 10:25 Calibration End Date: 07/24/2025 13:52 Calibration ID: 10429

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
trans-1,2-Dichloroethene	-2.8						30					
Methyl acetate	+++++	+++++	-24.7						30			
Methyl tert-butyl ether	-10.3						30					
tert-Butanol	-1.3						30					
di-Isopropyl ether	-15.2						30					
1,1-Dichloroethane	1.8						30					
Acrylonitrile	17.5						30					
Ethyl tert-butyl ether	-19.2						30					
Vinyl acetate	+++++	29.8						30				
cis-1,2-Dichloroethene	-2.8						30					
2,2-Dichloropropane	-2.4						30					
Bromochloromethane	5.7						30					
Cyclohexane	-10.1						30					
Chloroform	-9.3						30					
Carbon tetrachloride	-1.8						30					
Tetrahydrofuran	+++++	2.5						30				
1,1,1-Trichloroethane	-5.5						30					
2-Butanone (MEK)	+++++	+++++	17.6						30			
1,1-Dichloropropene	-8.8						30					
Benzene	-2.4						30					
Tert-amyl methyl ether	-14.6						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51000

SDG No.:

Instrument ID: HPV5 GC Column: RTX-VMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2025 10:25 Calibration End Date: 07/24/2025 13:52 Calibration ID: 10429

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
1,2-Dichloroethane	10.7						30					
Methylcyclohexane	-2.7						30					
Trichloroethene	12.7						30					
Dibromomethane	11.3						30					
1,2-Dichloropropane	-4.1						30					
Bromodichloromethane	28.0						30					
1,4-Dioxane	+++++	-15.2						30				
cis-1,3-Dichloropropene	28.7						30					
Toluene	-2.0						30					
Tetrachloroethene	0.3						30					
4-Methyl-2-pentanone (MIBK)	+++++	29.3						30				
trans-1,3-Dichloropropene	25.2						30					
1,1,2-Trichloroethane	-4.9						30					
Ethyl methacrylate	+++++	20.7	+++++					30				
Dibromochloromethane	13.7						30					
1,3-Dichloropropane	-9.4						30					
1,2-Dibromoethane (EDB)	-22.5						30					
2-Hexanone (MBK)	+++++	-29.9 +++++	+++++					30				
Chlorobenzene	4.1						30					
Ethylbenzene	-13.9						30					
1,1,1,2-Tetrachloroethane	-12.9						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51000

SDG No.:

Instrument ID: HPV5 GC Column: RTX-VMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2025 10:25 Calibration End Date: 07/24/2025 13:52 Calibration ID: 10429

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
m,p-Xylene	-27.9						30					
o-Xylene	-24.4						30					
Styrene	24.9						30					
Bromoform	-14.6						30					
Isopropylbenzene	-28.4						30					
Bromobenzene	-4.9						30					
N-Propylbenzene	-22.6						30					
1,1,2,2-Tetrachloroethane	-11.0						30					
2-Chlorotoluene	-18.2						30					
1,2,3-Trichloropropane	-12.5						30					
1,3,5-Trimethylbenzene	+++++	-29.4						30				
trans-1,4-Dichloro-2-butene	+++++	-10.6						30				
4-Chlorotoluene	-19.1						30					
tert-Butylbenzene	-28.9						30					
1,2,4-Trimethylbenzene	17.8						30					
sec-Butylbenzene	-29.7						30					
4-Isopropyltoluene	+++++	13.3						30				
1,3-Dichlorobenzene	-9.4						30					
1,4-Dichlorobenzene	+++++	17.0						30				
n-Butylbenzene	+++++	26.2						30				
1,2-Dichlorobenzene	-11.2						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 51000

SDG No.:

Instrument ID: HPV5 GC Column: RTX-VMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2025 10:25 Calibration End Date: 07/24/2025 13:52 Calibration ID: 10429

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
1,2-Dibromo-3-Chloropropane	+++++	-12.1						30				
1,3,5-Trichlorobenzene	-7.5						30					
Hexachlorobutadiene	-6.7						30					
1,2,4-Trichlorobenzene	+++++	22.0						30				
Naphthalene	+++++	25.8						30				
1,2,3-Trichlorobenzene	+++++	-27.1						30				
Dibromofluoromethane (Surr)	-1.0						30					
1,2-Dichloroethane-d4 (Surr)	-0.2						30					
Toluene-d8 (Surr)	-0.7						30					
4-Bromofluorobenzene (Surr)	-0.6						30					

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

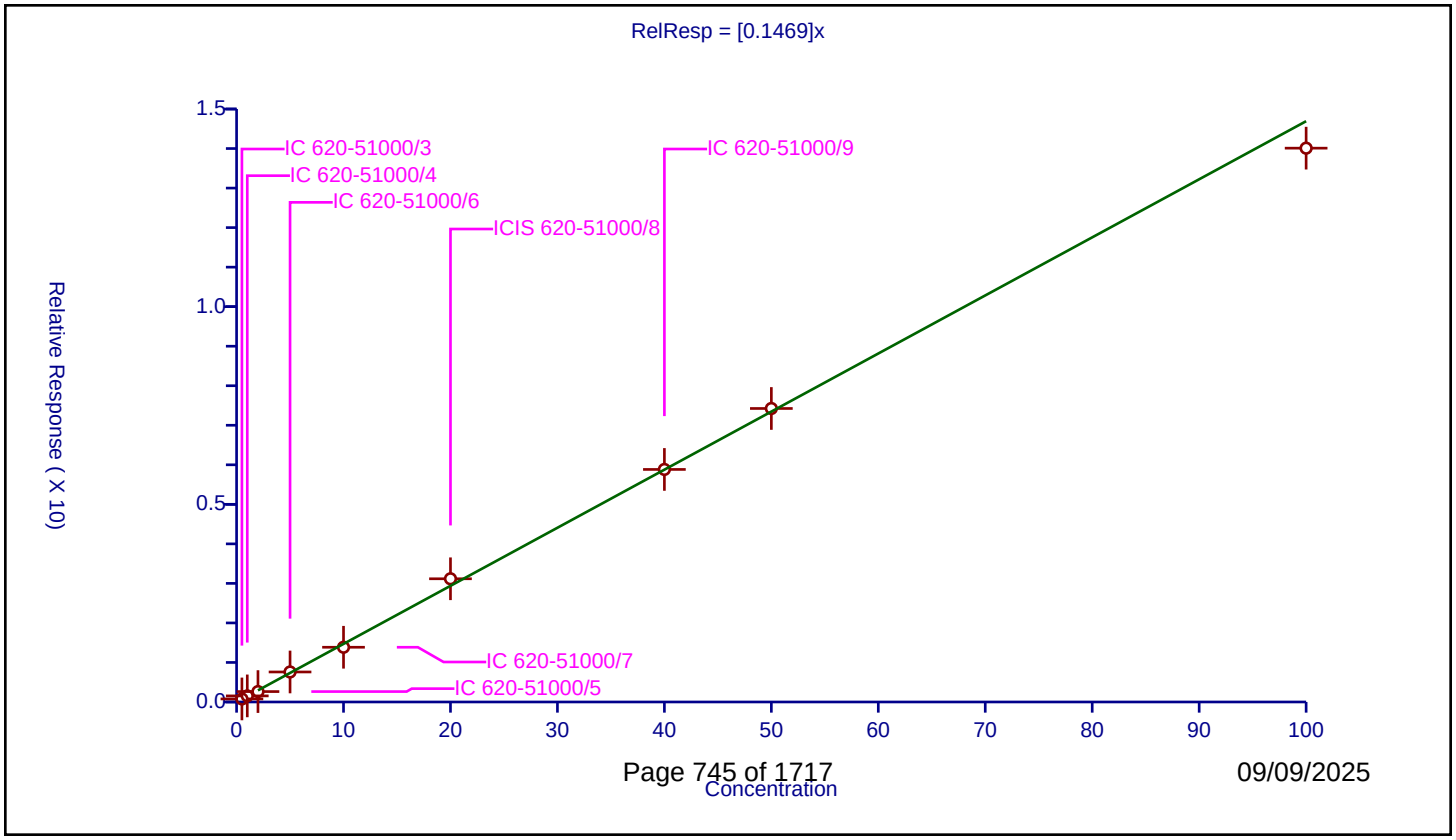
Curve Coefficients

Intercept:	0
Slope:	0.1469

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.077164	50.0	1027681.0	0.154328	Y
2	IC 620-51000/4	1.0	0.154383	50.0	1013386.0	0.154383	Y
3	IC 620-51000/5	2.0	0.263401	50.0	1015943.0	0.1317	Y
4	IC 620-51000/6	5.0	0.759466	50.0	1008077.0	0.151893	Y
5	IC 620-51000/7	10.0	1.384271	50.0	999732.0	0.138427	Y
6	ICIS 620-51000/8	20.0	3.116746	50.0	955195.0	0.155837	Y
7	IC 620-51000/9	40.0	5.882537	50.0	1041311.0	0.147063	Y
8	IC 620-51000/10	50.0	7.424914	50.0	1083723.0	0.148498	Y
9	IC 620-51000/11	100.0	14.009415	50.0	1099739.0	0.140094	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

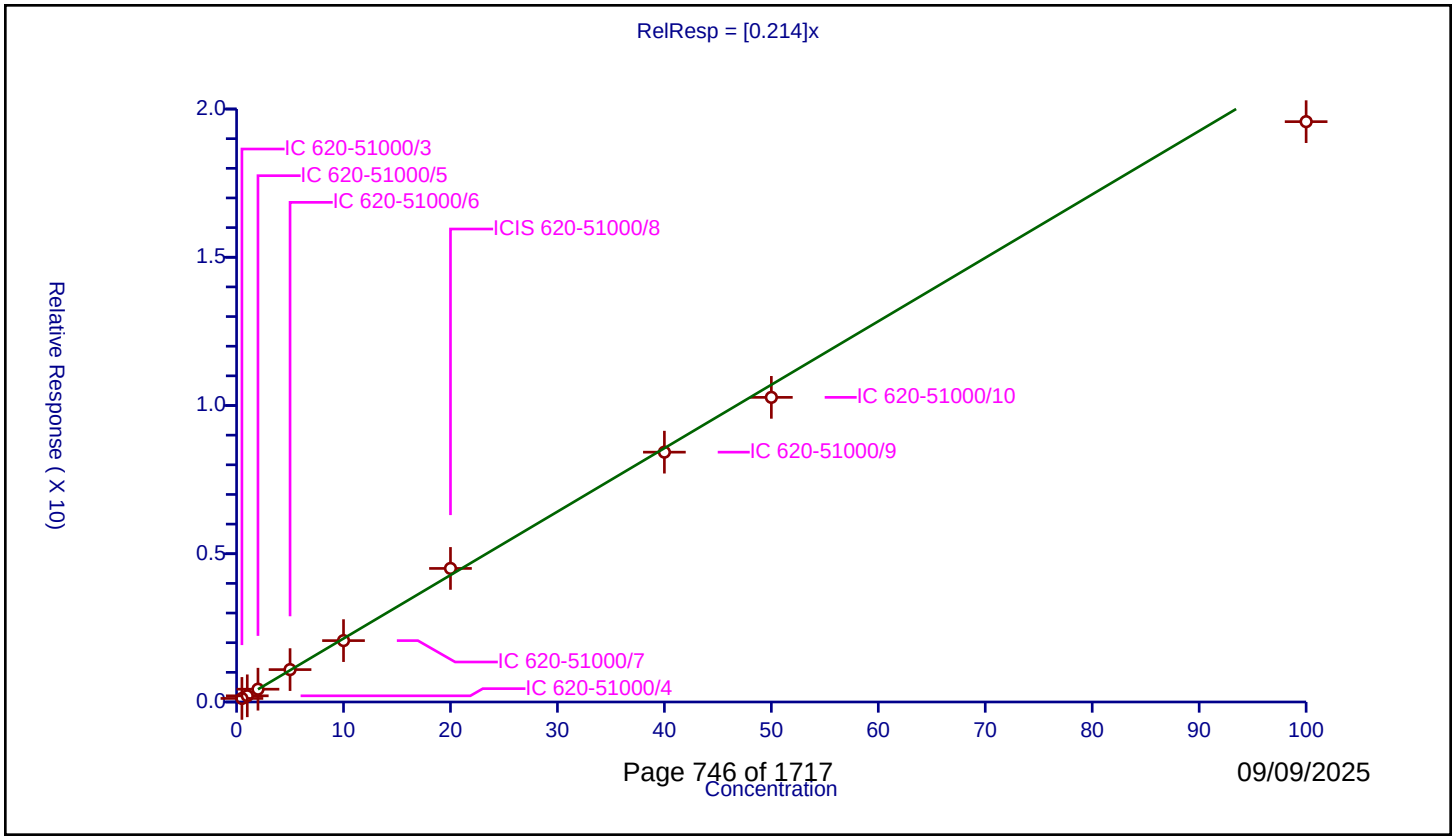
Curve Coefficients

Intercept:	0
Slope:	0.214

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.119687	50.0	1027681.0	0.239374	Y
2	IC 620-51000/4	1.0	0.208608	50.0	1013386.0	0.208608	Y
3	IC 620-51000/5	2.0	0.430831	50.0	1015943.0	0.215416	Y
4	IC 620-51000/6	5.0	1.092278	50.0	1008077.0	0.218456	Y
5	IC 620-51000/7	10.0	2.070455	50.0	999732.0	0.207045	Y
6	ICIS 620-51000/8	20.0	4.504473	50.0	955195.0	0.225224	Y
7	IC 620-51000/9	40.0	8.426349	50.0	1041311.0	0.210659	Y
8	IC 620-51000/10	50.0	10.274535	50.0	1083723.0	0.205491	Y
9	IC 620-51000/11	100.0	19.574008	50.0	1099739.0	0.19574	Y



09/09/2025

Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

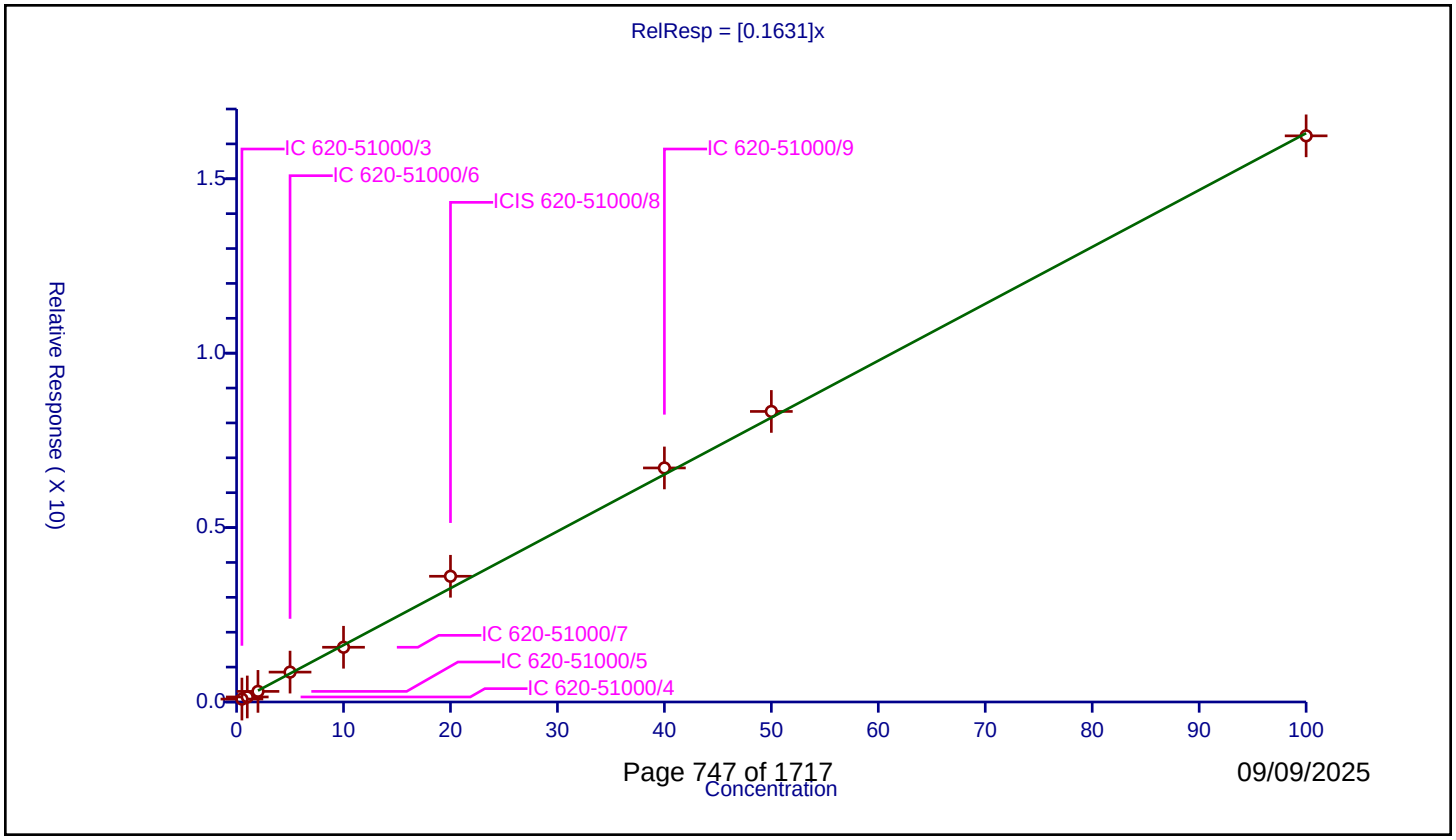
Curve Coefficients

Intercept:	0
Slope:	0.1631

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.083392	50.0	1027681.0	0.166783	Y
2	IC 620-51000/4	1.0	0.143874	50.0	1013386.0	0.143874	Y
3	IC 620-51000/5	2.0	0.303708	50.0	1015943.0	0.151854	Y
4	IC 620-51000/6	5.0	0.856333	50.0	1008077.0	0.171267	Y
5	IC 620-51000/7	10.0	1.569521	50.0	999732.0	0.156952	Y
6	ICIS 620-51000/8	20.0	3.603924	50.0	955195.0	0.180196	Y
7	IC 620-51000/9	40.0	6.709763	50.0	1041311.0	0.167744	Y
8	IC 620-51000/10	50.0	8.329988	50.0	1083723.0	0.1666	Y
9	IC 620-51000/11	100.0	16.230669	50.0	1099739.0	0.162307	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

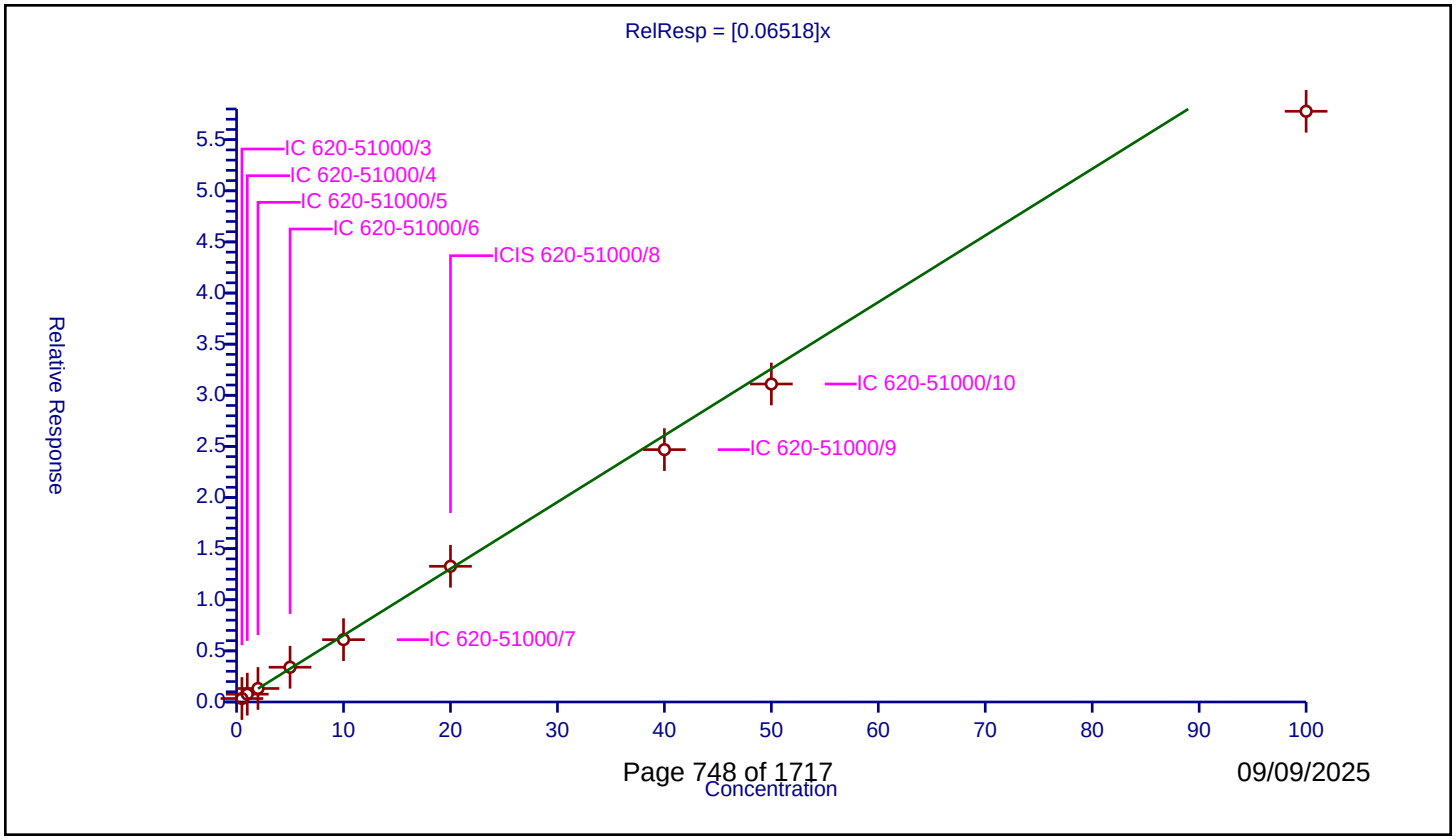
Curve Coefficients

Intercept:	0
Slope:	0.06518

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.033717	50.0	1027681.0	0.067433	Y
2	IC 620-51000/4	1.0	0.07618	50.0	1013386.0	0.07618	Y
3	IC 620-51000/5	2.0	0.131996	50.0	1015943.0	0.065998	Y
4	IC 620-51000/6	5.0	0.340053	50.0	1008077.0	0.068011	Y
5	IC 620-51000/7	10.0	0.609613	50.0	999732.0	0.060961	Y
6	ICIS 620-51000/8	20.0	1.327216	50.0	955195.0	0.066361	Y
7	IC 620-51000/9	40.0	2.468283	50.0	1041311.0	0.061707	Y
8	IC 620-51000/10	50.0	3.110389	50.0	1083723.0	0.062208	Y
9	IC 620-51000/11	100.0	5.777735	50.0	1099739.0	0.057777	Y



09/09/2025

Calibration / Chloroethane

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

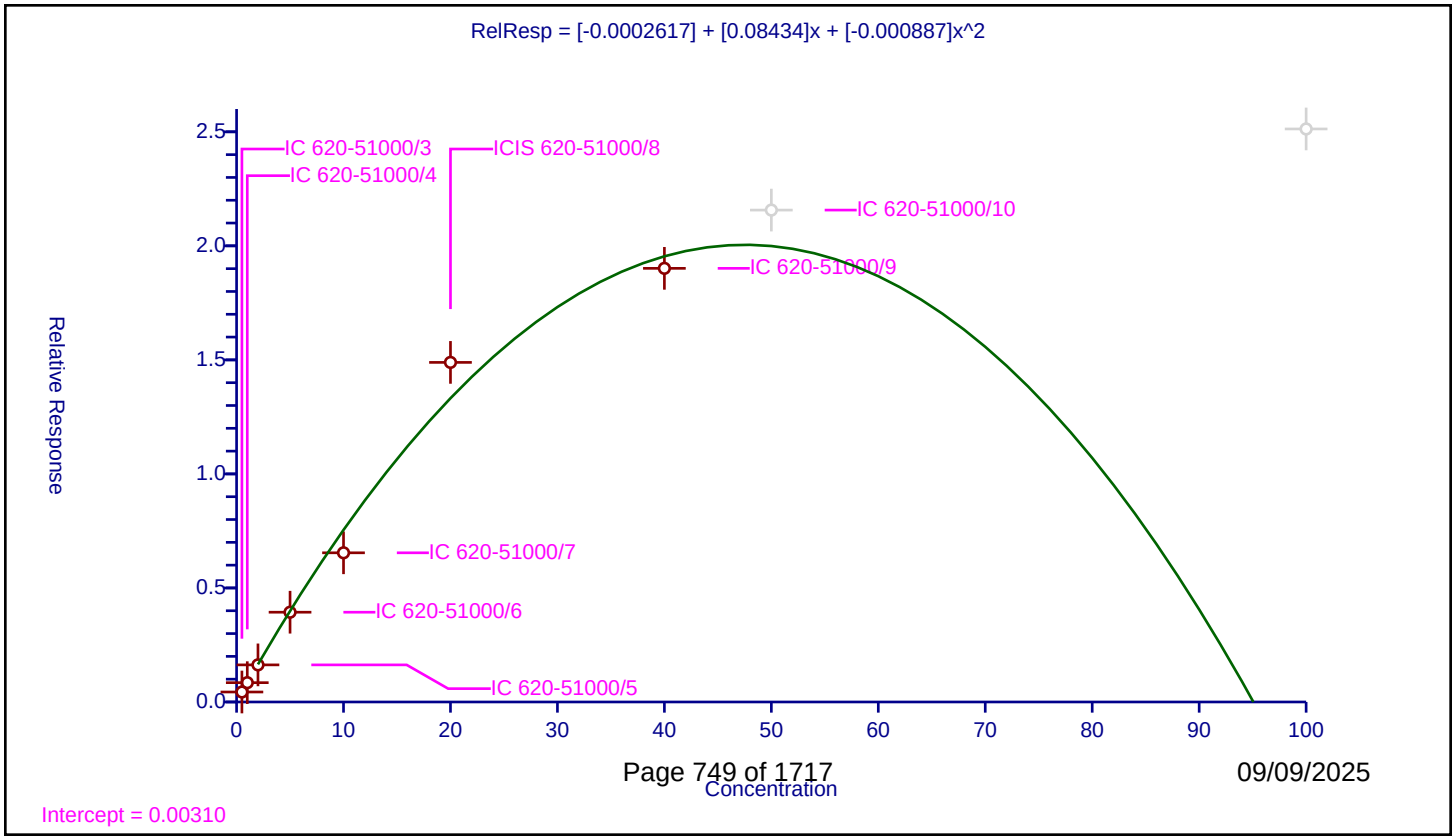
Curve Coefficients

Intercept:	-0.0002617
Slope:	0.08434
Second Order:	-0.000887

Error Coefficients

Relative Standard Deviation:	12.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.043739	50.0	1027681.0	0.087479	Y
2	IC 620-51000/4	1.0	0.084765	50.0	1013386.0	0.084765	Y
3	IC 620-51000/5	2.0	0.162755	50.0	1015943.0	0.081378	Y
4	IC 620-51000/6	5.0	0.39367	50.0	1008077.0	0.078734	Y
5	IC 620-51000/7	10.0	0.654125	50.0	999732.0	0.065413	Y
6	ICIS 620-51000/8	20.0	1.489015	50.0	955195.0	0.074451	Y
7	IC 620-51000/9	40.0	1.901401	50.0	1041311.0	0.047535	Y
8	IC 620-51000/10	50.0	2.15687	50.0	1083723.0	0.043137	N
9	IC 620-51000/11	100.0	2.512505	50.0	1099739.0	0.025125	N



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

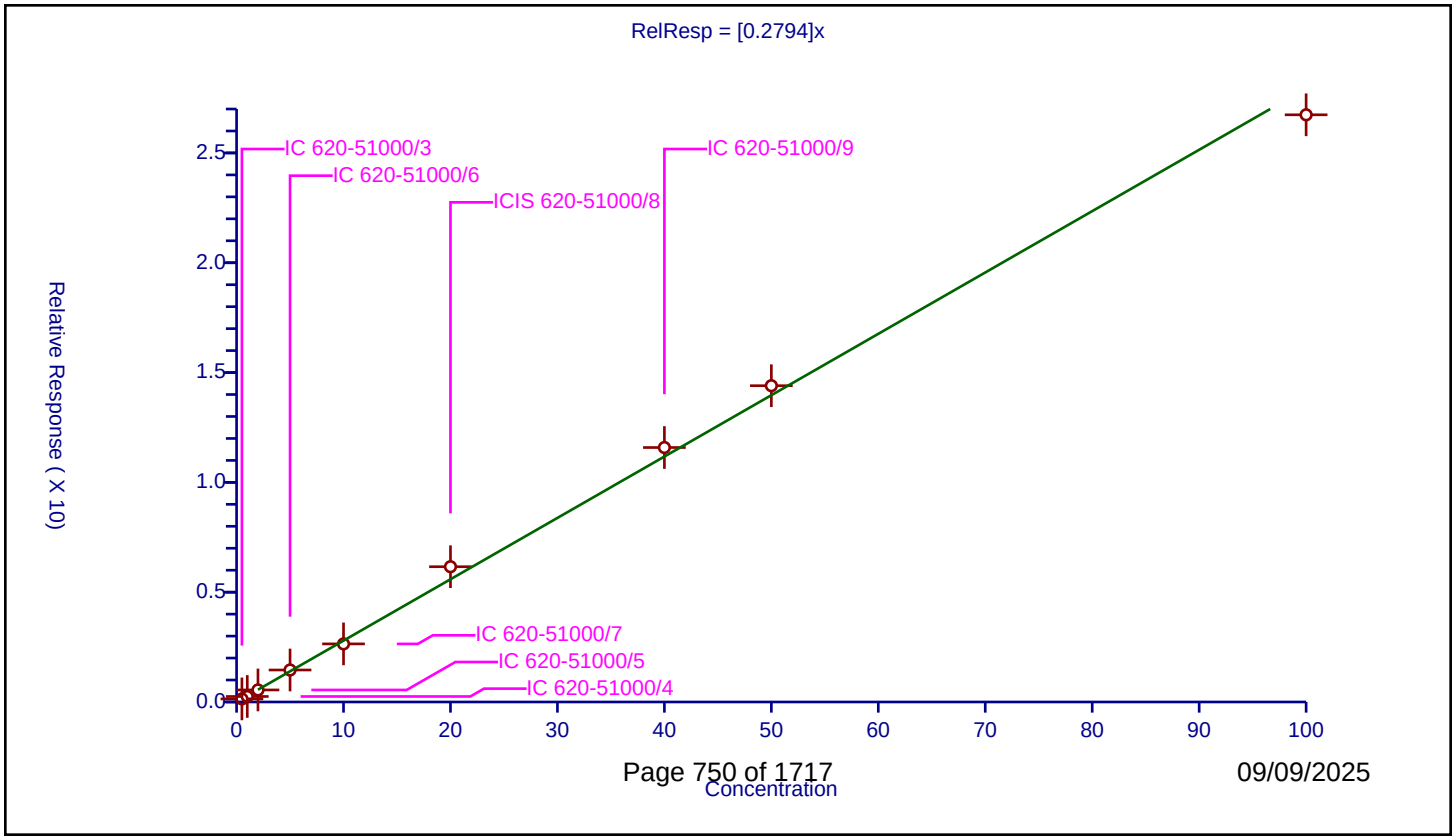
Curve Coefficients

Intercept:	0
Slope:	0.2794

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.140024	50.0	1027681.0	0.280048	Y
2	IC 620-51000/4	1.0	0.251188	50.0	1013386.0	0.251188	Y
3	IC 620-51000/5	2.0	0.548456	50.0	1015943.0	0.274228	Y
4	IC 620-51000/6	5.0	1.456932	50.0	1008077.0	0.291386	Y
5	IC 620-51000/7	10.0	2.645159	50.0	999732.0	0.264516	Y
6	ICIS 620-51000/8	20.0	6.158795	50.0	955195.0	0.30794	Y
7	IC 620-51000/9	40.0	11.5865	50.0	1041311.0	0.289663	Y
8	IC 620-51000/10	50.0	14.400682	50.0	1083723.0	0.288014	Y
9	IC 620-51000/11	100.0	26.737026	50.0	1099739.0	0.26737	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

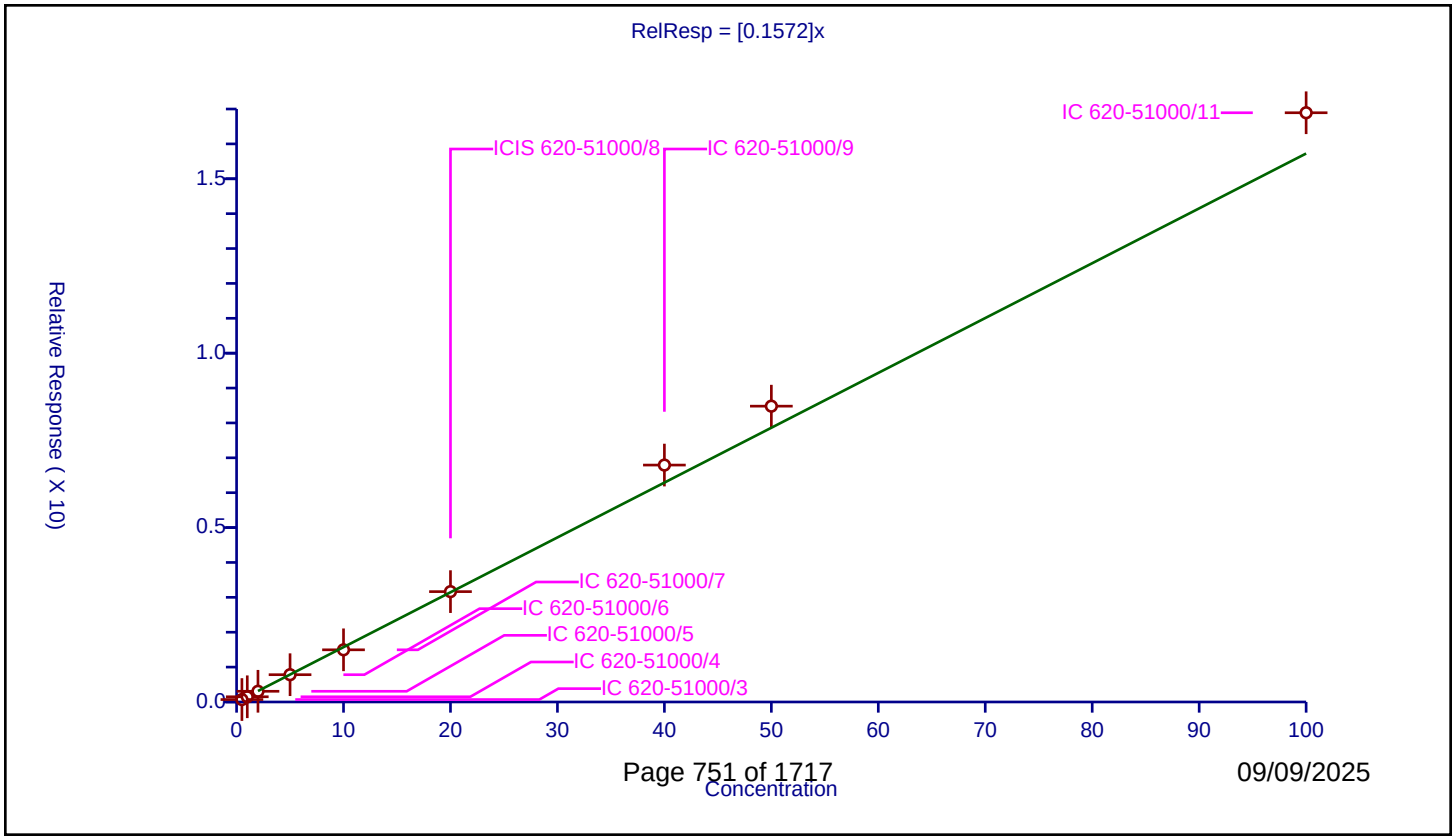
Curve Coefficients

Intercept:	0
Slope:	0.1572

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.070012	50.0	1027681.0	0.140024	Y
2	IC 620-51000/4	1.0	0.149203	50.0	1013386.0	0.149203	Y
3	IC 620-51000/5	2.0	0.306759	50.0	1015943.0	0.15338	Y
4	IC 620-51000/6	5.0	0.782133	50.0	1008077.0	0.156427	Y
5	IC 620-51000/7	10.0	1.495801	50.0	999732.0	0.14958	Y
6	ICIS 620-51000/8	20.0	3.163752	50.0	955195.0	0.158188	Y
7	IC 620-51000/9	40.0	6.792639	50.0	1041311.0	0.169816	Y
8	IC 620-51000/10	50.0	8.480811	50.0	1083723.0	0.169616	Y
9	IC 620-51000/11	100.0	16.892735	50.0	1099739.0	0.168927	Y



Calibration / Ethanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

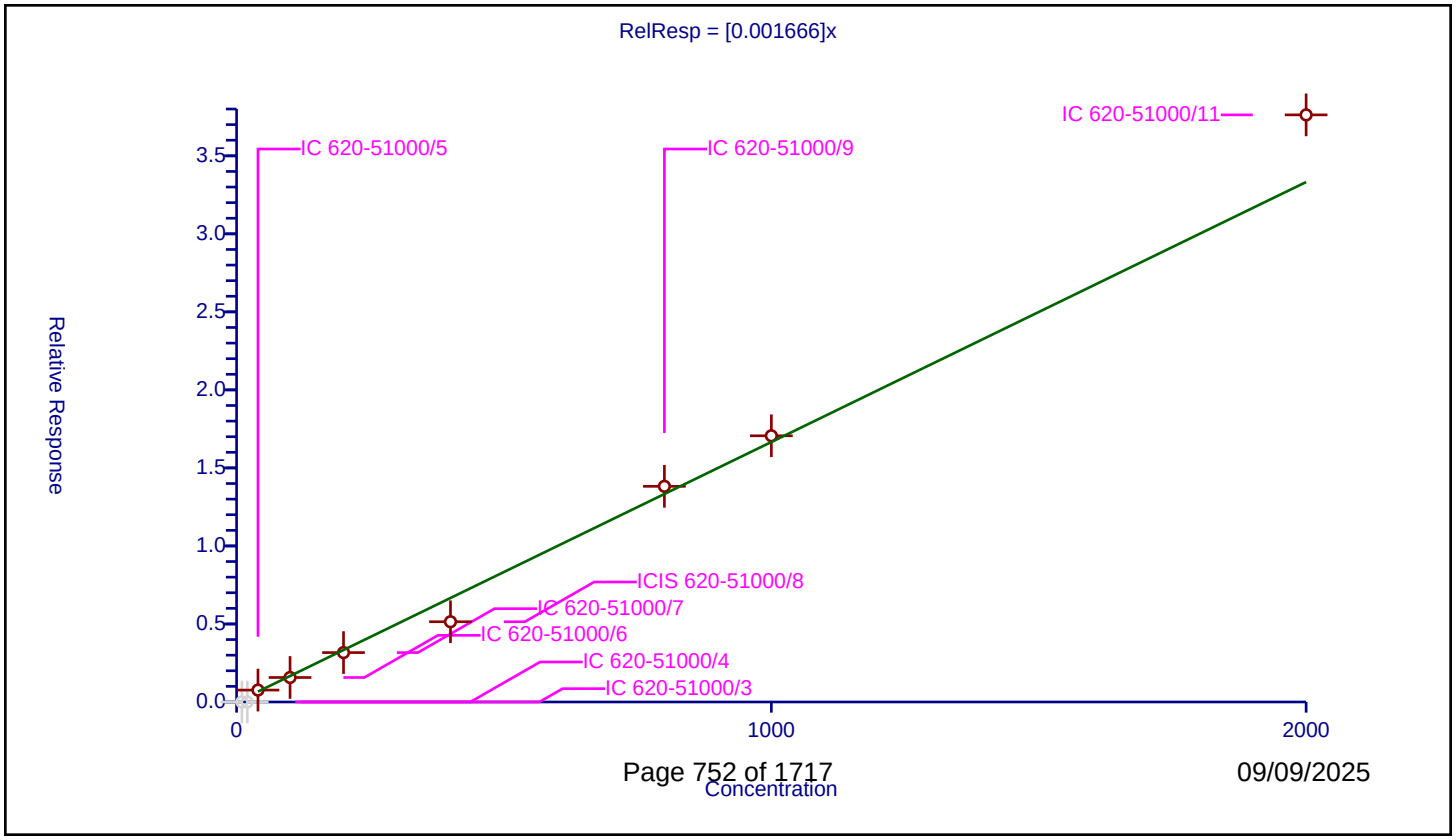
Curve Coefficients

Intercept:	0
Slope:	0.001666

Error Coefficients

Relative Standard Deviation:	12.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	10.0	0.0	50.0	1027681.0	0.0	N
2	IC 620-51000/4	20.0	0.0	50.0	1013386.0	0.0	N
3	IC 620-51000/5	40.0	0.076333	50.0	1015943.0	0.001908	Y
4	IC 620-51000/6	100.0	0.157032	50.0	1008077.0	0.00157	Y
5	IC 620-51000/7	200.0	0.316535	50.0	999732.0	0.001583	Y
6	ICIS 620-51000/8	400.0	0.514345	50.0	955195.0	0.001286	Y
7	IC 620-51000/9	800.0	1.382152	50.0	1041311.0	0.001728	Y
8	IC 620-51000/10	1000.0	1.705971	50.0	1083723.0	0.001706	Y
9	IC 620-51000/11	2000.0	3.762347	50.0	1099739.0	0.001881	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

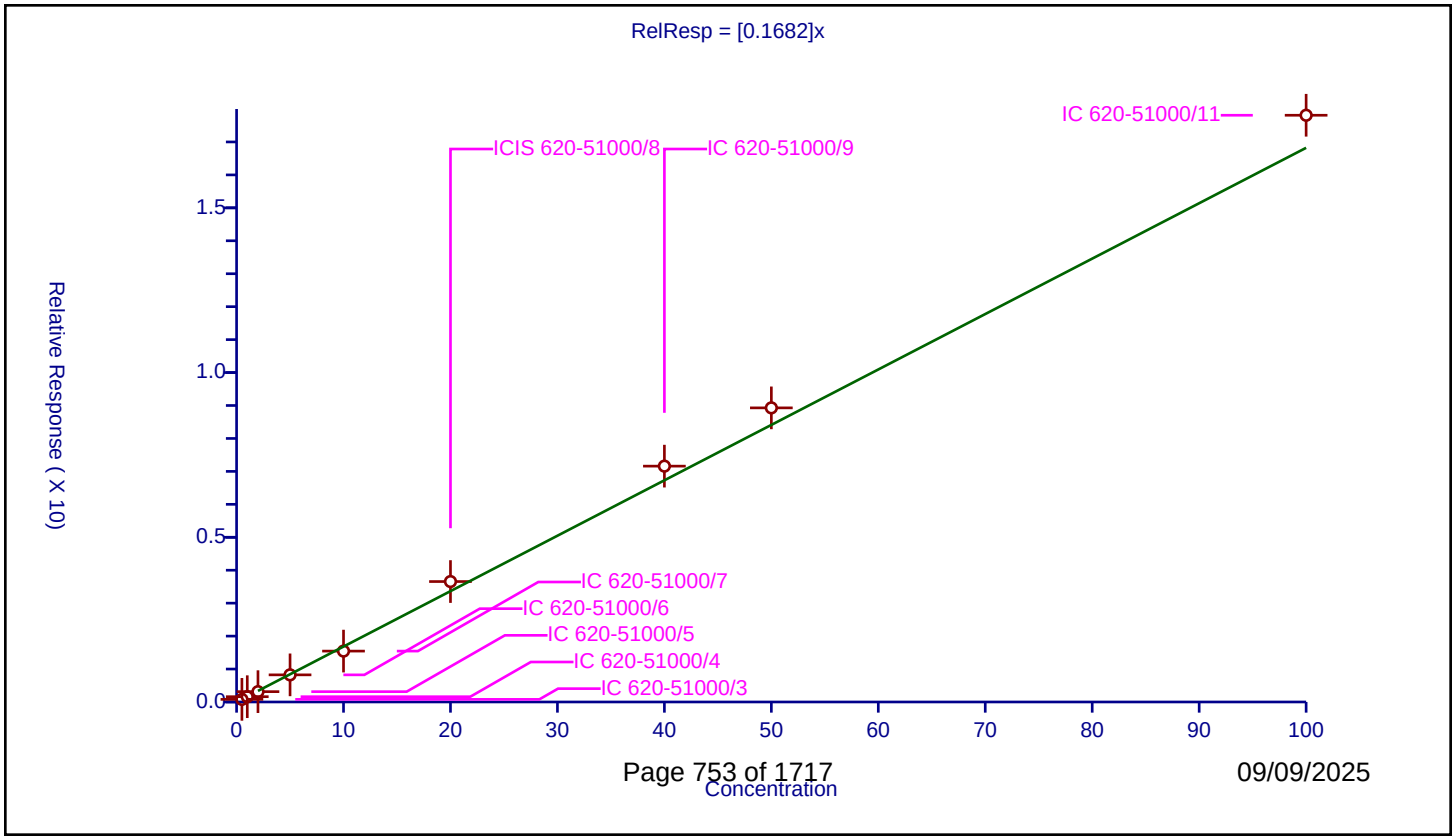
Curve Coefficients

Intercept:	0
Slope:	0.1682

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.079548	50.0	1027681.0	0.159096	Y
2	IC 620-51000/4	1.0	0.160551	50.0	1013386.0	0.160551	Y
3	IC 620-51000/5	2.0	0.313305	50.0	1015943.0	0.156652	Y
4	IC 620-51000/6	5.0	0.823697	50.0	1008077.0	0.164739	Y
5	IC 620-51000/7	10.0	1.545214	50.0	999732.0	0.154521	Y
6	ICIS 620-51000/8	20.0	3.65606	50.0	955195.0	0.182803	Y
7	IC 620-51000/9	40.0	7.159244	50.0	1041311.0	0.178981	Y
8	IC 620-51000/10	50.0	8.927835	50.0	1083723.0	0.178557	Y
9	IC 620-51000/11	100.0	17.81059	50.0	1099739.0	0.178106	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

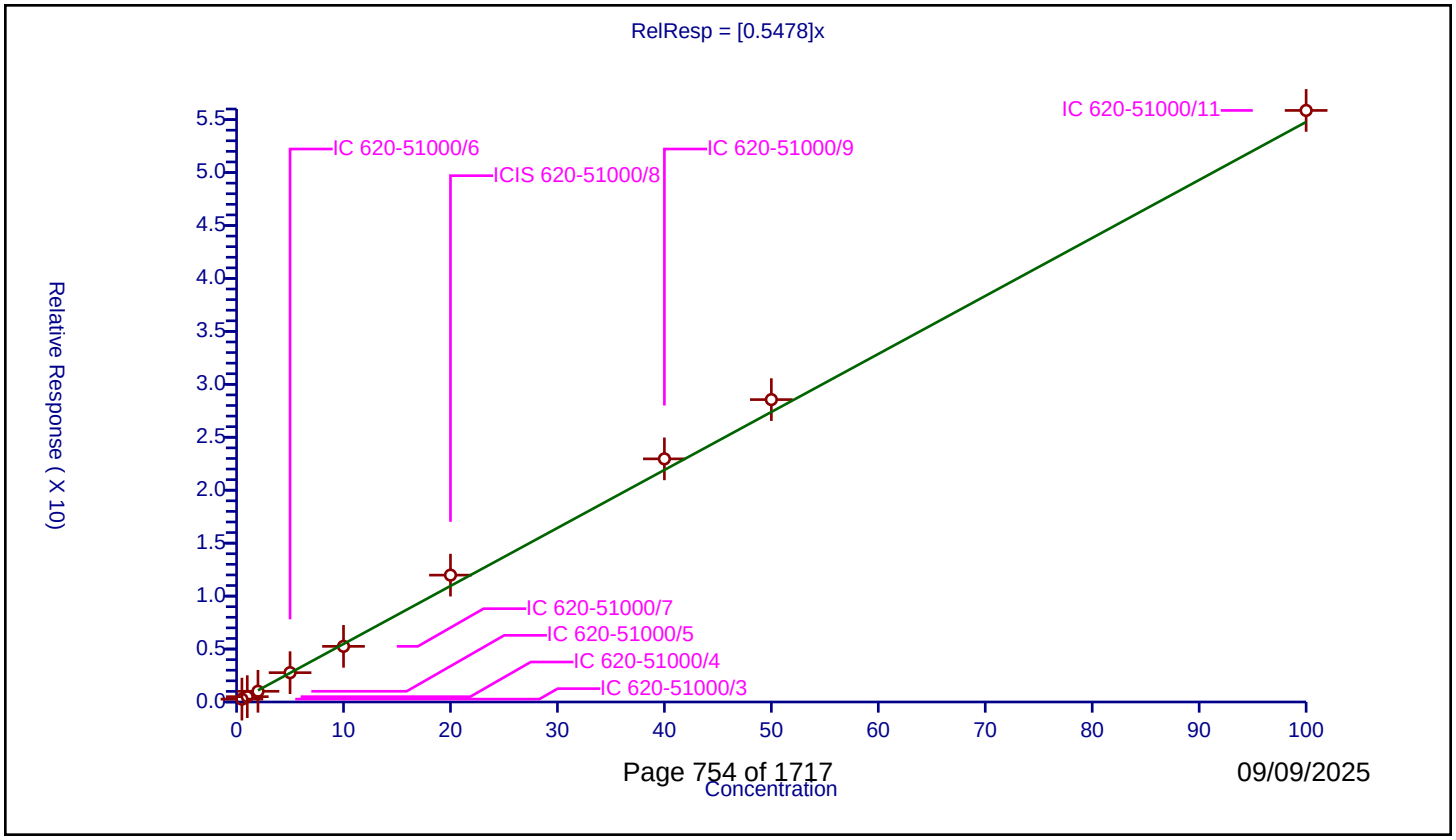
Curve Coefficients

Intercept:	0
Slope:	0.5478

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.269588	50.0	1027681.0	0.539175	Y
2	IC 620-51000/4	1.0	0.503115	50.0	1013386.0	0.503115	Y
3	IC 620-51000/5	2.0	1.010834	50.0	1015943.0	0.505417	Y
4	IC 620-51000/6	5.0	2.76958	50.0	1008077.0	0.553916	Y
5	IC 620-51000/7	10.0	5.254108	50.0	999732.0	0.525411	Y
6	ICIS 620-51000/8	20.0	11.981742	50.0	955195.0	0.599087	Y
7	IC 620-51000/9	40.0	22.960288	50.0	1041311.0	0.574007	Y
8	IC 620-51000/10	50.0	28.557528	50.0	1083723.0	0.571151	Y
9	IC 620-51000/11	100.0	55.866392	50.0	1099739.0	0.558664	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

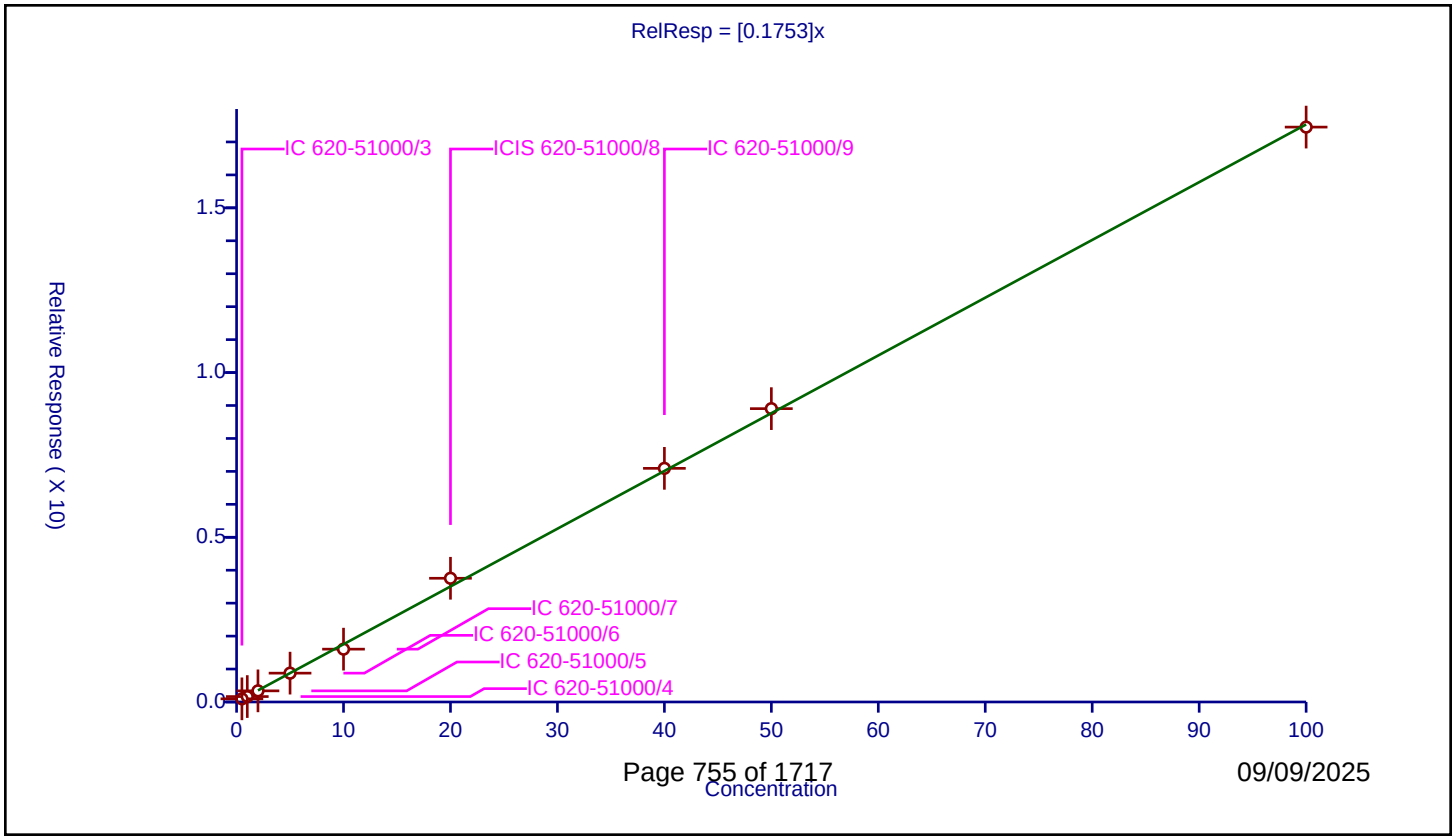
Curve Coefficients

Intercept:	0
Slope:	0.1753

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.095604	50.0	1027681.0	0.191207	Y
2	IC 620-51000/4	1.0	0.164399	50.0	1013386.0	0.164399	Y
3	IC 620-51000/5	2.0	0.338356	50.0	1015943.0	0.169178	Y
4	IC 620-51000/6	5.0	0.875132	50.0	1008077.0	0.175026	Y
5	IC 620-51000/7	10.0	1.60388	50.0	999732.0	0.160388	Y
6	ICIS 620-51000/8	20.0	3.755516	50.0	955195.0	0.187776	Y
7	IC 620-51000/9	40.0	7.092646	50.0	1041311.0	0.177316	Y
8	IC 620-51000/10	50.0	8.904489	50.0	1083723.0	0.17809	Y
9	IC 620-51000/11	100.0	17.450913	50.0	1099739.0	0.174509	Y



Calibration / Iodomethane

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

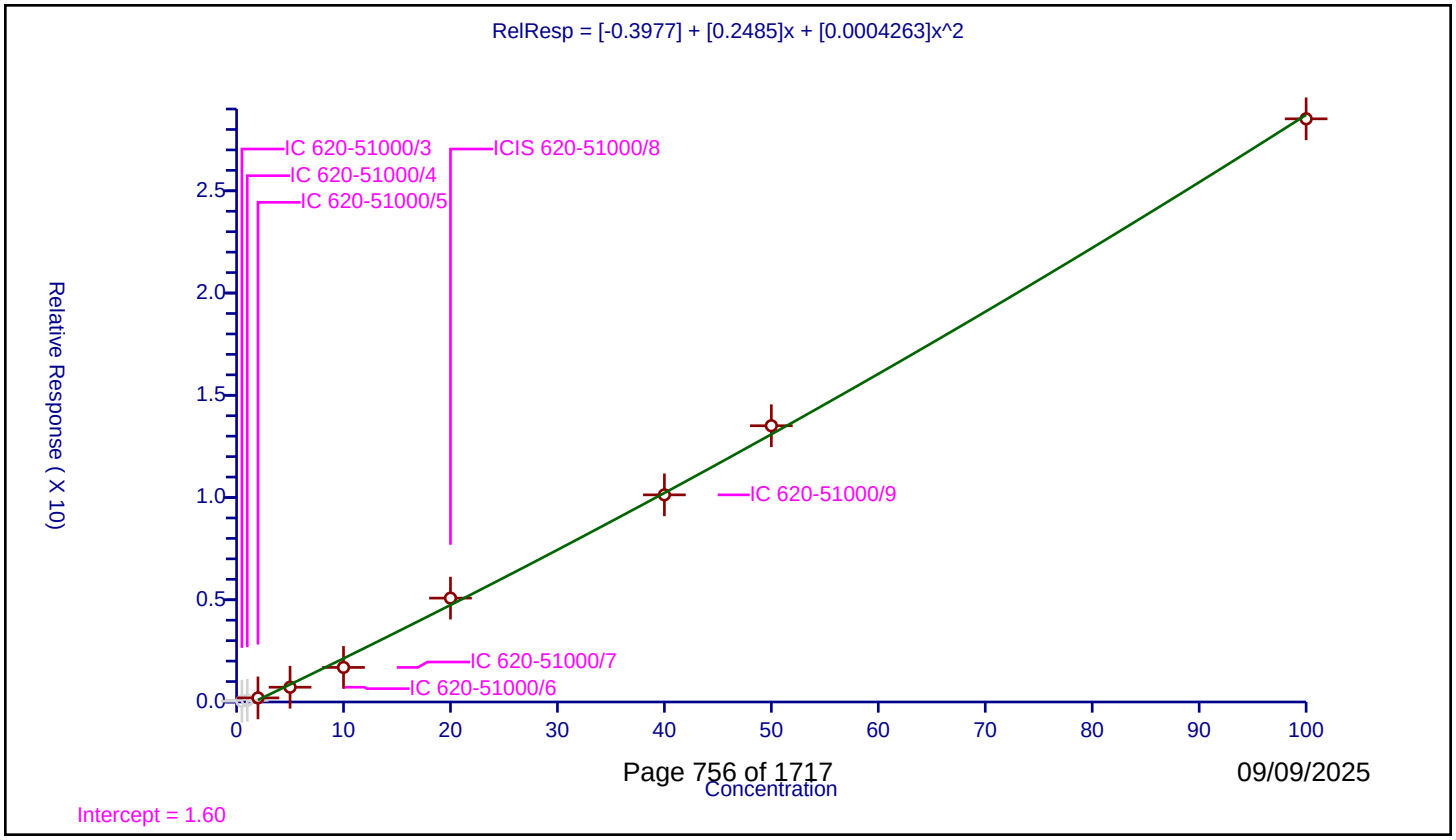
Curve Coefficients

Intercept:	-0.3977
Slope:	0.2485
Second Order:	0.0004263

Error Coefficients

Relative Standard Deviation:	14.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.038144	50.0	1027681.0	0.076288	N
2	IC 620-51000/4	1.0	0.079782	50.0	1013386.0	0.079782	N
3	IC 620-51000/5	2.0	0.199814	50.0	1015943.0	0.099907	Y
4	IC 620-51000/6	5.0	0.721919	50.0	1008077.0	0.144384	Y
5	IC 620-51000/7	10.0	1.691453	50.0	999732.0	0.169145	Y
6	ICIS 620-51000/8	20.0	5.080167	50.0	955195.0	0.254008	Y
7	IC 620-51000/9	40.0	10.129539	50.0	1041311.0	0.253238	Y
8	IC 620-51000/10	50.0	13.510833	50.0	1083723.0	0.270217	Y
9	IC 620-51000/11	100.0	28.520585	50.0	1099739.0	0.285206	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

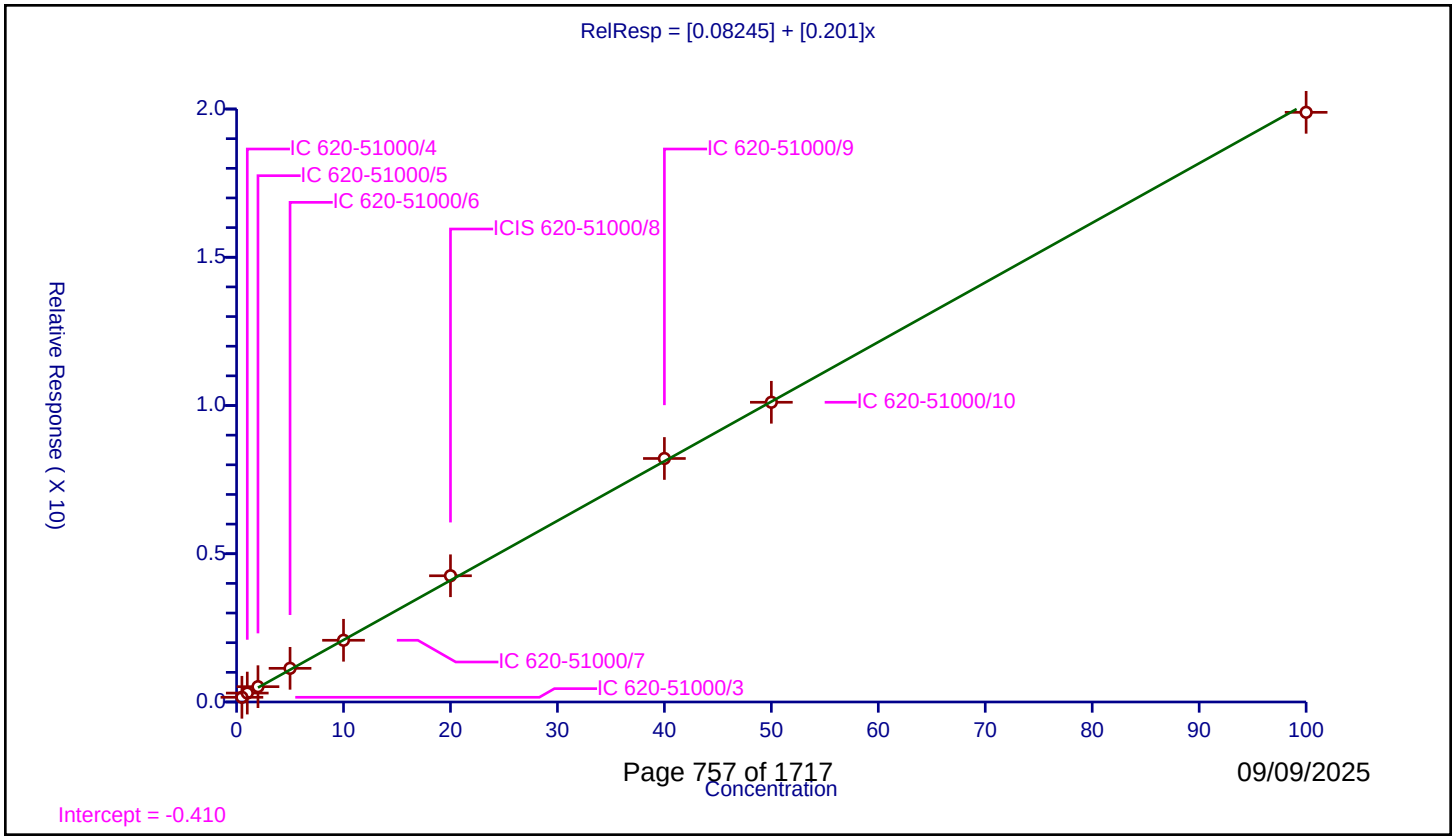
Curve Coefficients

Intercept:	0.08245
Slope:	0.201

Error Coefficients

Relative Standard Deviation:	10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.158464	50.0	1027681.0	0.316927	Y
2	IC 620-51000/4	1.0	0.300873	50.0	1013386.0	0.300873	Y
3	IC 620-51000/5	2.0	0.516515	50.0	1015943.0	0.258258	Y
4	IC 620-51000/6	5.0	1.135727	50.0	1008077.0	0.227145	Y
5	IC 620-51000/7	10.0	2.081458	50.0	999732.0	0.208146	Y
6	ICIS 620-51000/8	20.0	4.257141	50.0	955195.0	0.212857	Y
7	IC 620-51000/9	40.0	8.21306	50.0	1041311.0	0.205327	Y
8	IC 620-51000/10	50.0	10.109225	50.0	1083723.0	0.202185	Y
9	IC 620-51000/11	100.0	19.888401	50.0	1099739.0	0.198884	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

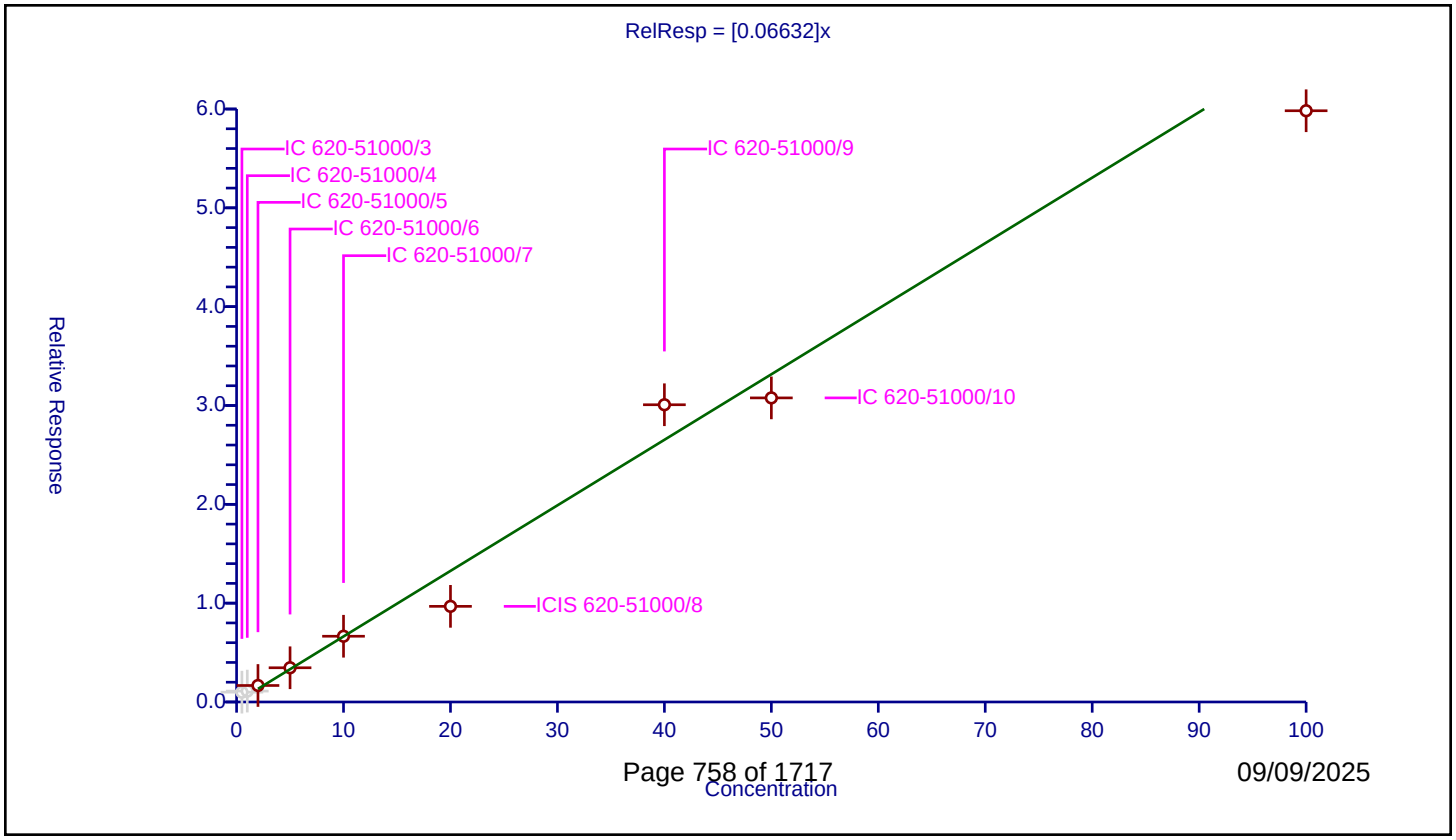
Curve Coefficients

Intercept:	0
Slope:	0.06632

Error Coefficients

Relative Standard Deviation:	17.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.099399	50.0	1027681.0	0.198797	N
2	IC 620-51000/4	1.0	0.110274	50.0	1013386.0	0.110274	N
3	IC 620-51000/5	2.0	0.166988	50.0	1015943.0	0.083494	Y
4	IC 620-51000/6	5.0	0.346353	50.0	1008077.0	0.069271	Y
5	IC 620-51000/7	10.0	0.665128	50.0	999732.0	0.066513	Y
6	ICIS 620-51000/8	20.0	0.967813	50.0	955195.0	0.048391	Y
7	IC 620-51000/9	40.0	3.007651	50.0	1041311.0	0.075191	Y
8	IC 620-51000/10	50.0	3.076986	50.0	1083723.0	0.06154	Y
9	IC 620-51000/11	100.0	5.982419	50.0	1099739.0	0.059824	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

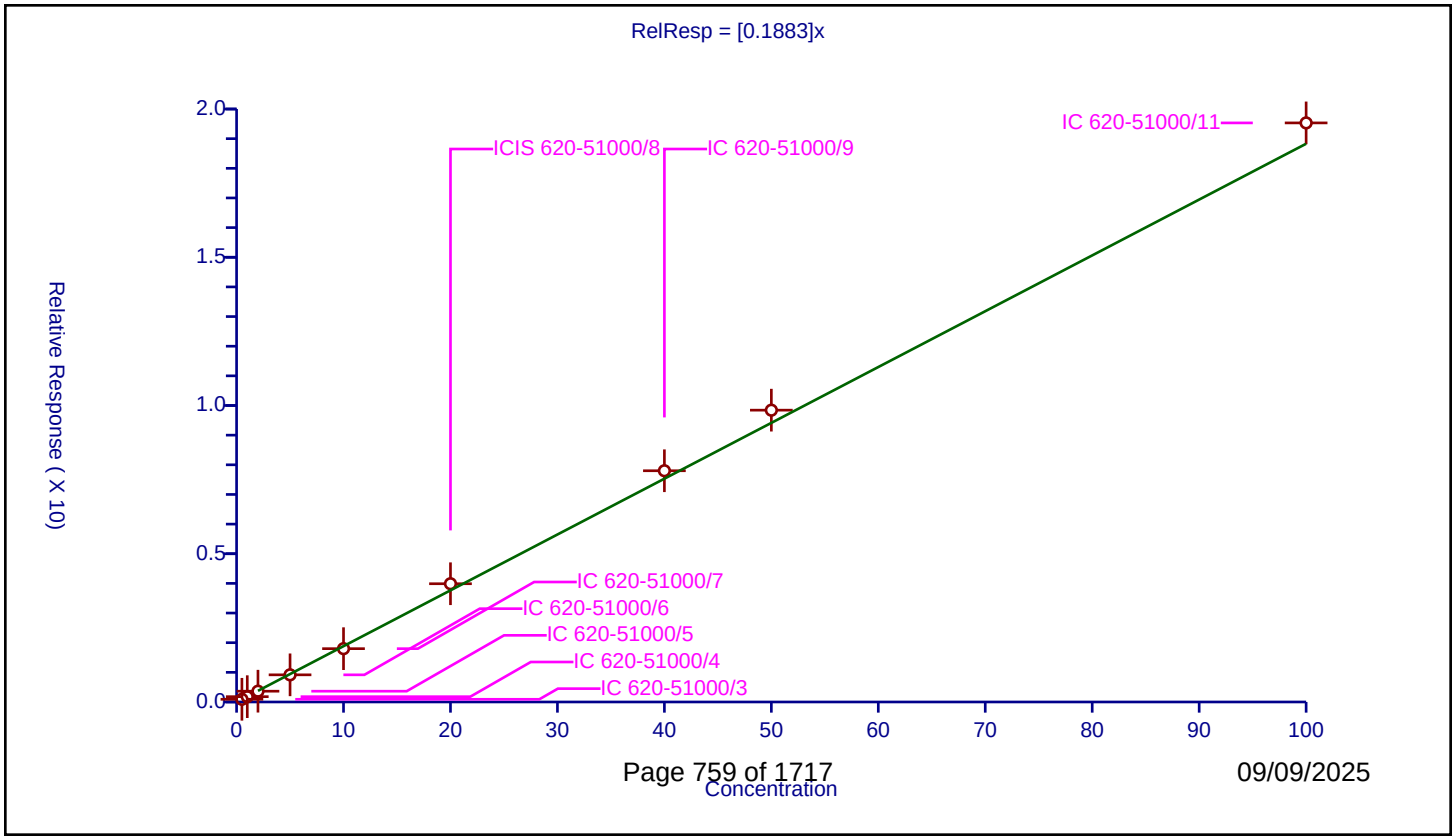
Curve Coefficients

Intercept:	0
Slope:	0.1883

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.091517	50.0	1027681.0	0.183033	Y
2	IC 620-51000/4	1.0	0.179843	50.0	1013386.0	0.179843	Y
3	IC 620-51000/5	2.0	0.364095	50.0	1015943.0	0.182048	Y
4	IC 620-51000/6	5.0	0.916101	50.0	1008077.0	0.18322	Y
5	IC 620-51000/7	10.0	1.798182	50.0	999732.0	0.179818	Y
6	ICIS 620-51000/8	20.0	3.988819	50.0	955195.0	0.199441	Y
7	IC 620-51000/9	40.0	7.799015	50.0	1041311.0	0.194975	Y
8	IC 620-51000/10	50.0	9.842367	50.0	1083723.0	0.196847	Y
9	IC 620-51000/11	100.0	19.531407	50.0	1099739.0	0.195314	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

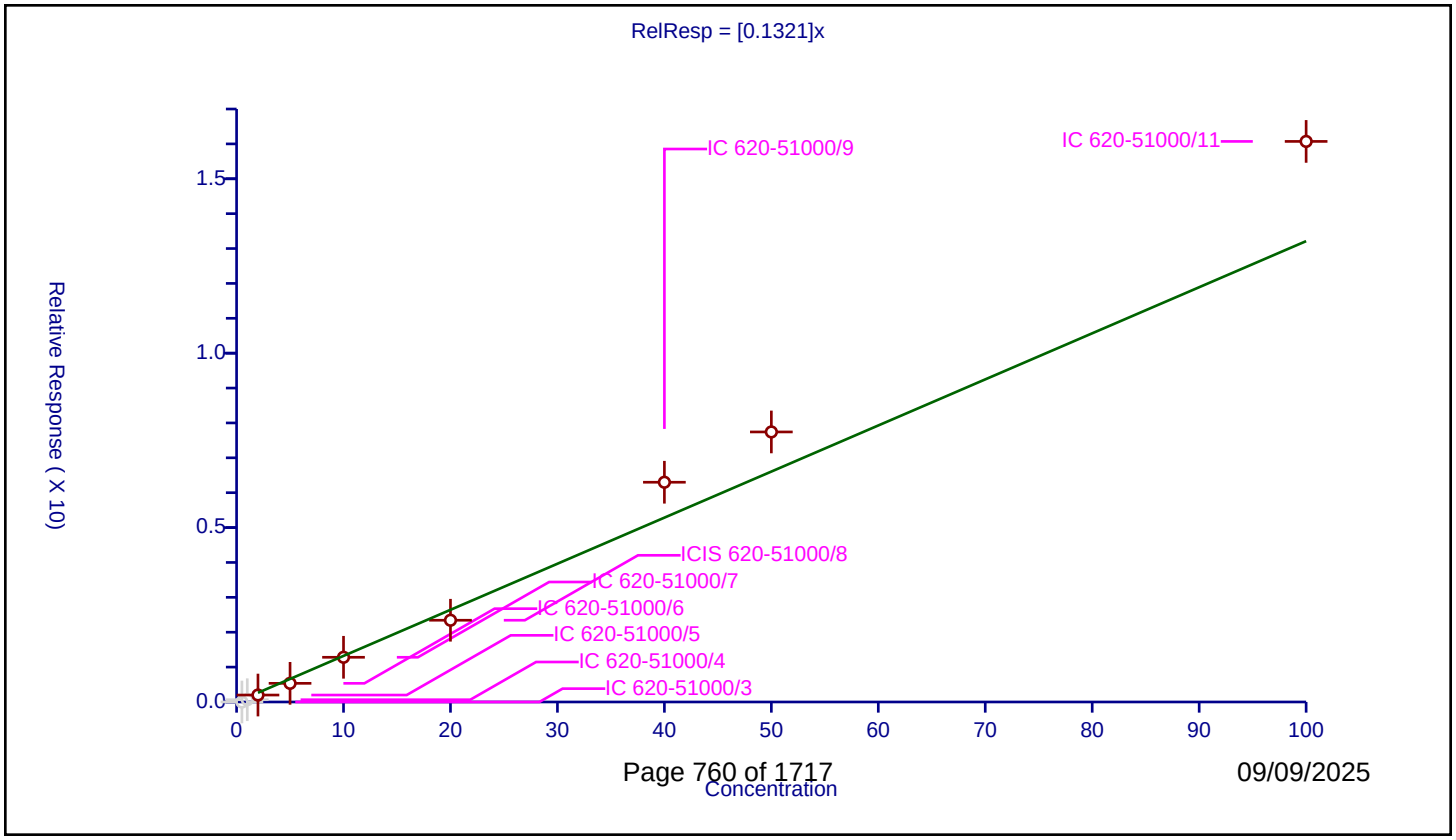
Curve Coefficients

Intercept:	0
Slope:	0.1321

Error Coefficients

Relative Standard Deviation:	19.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.0	50.0	1027681.0	0.0	N
2	IC 620-51000/4	1.0	0.06572	50.0	1013386.0	0.06572	N
3	IC 620-51000/5	2.0	0.198978	50.0	1015943.0	0.099489	Y
4	IC 620-51000/6	5.0	0.53488	50.0	1008077.0	0.106976	Y
5	IC 620-51000/7	10.0	1.281643	50.0	999732.0	0.128164	Y
6	ICIS 620-51000/8	20.0	2.343553	50.0	955195.0	0.117178	Y
7	IC 620-51000/9	40.0	6.299655	50.0	1041311.0	0.157491	Y
8	IC 620-51000/10	50.0	7.741508	50.0	1083723.0	0.15483	Y
9	IC 620-51000/11	100.0	16.07104	50.0	1099739.0	0.16071	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

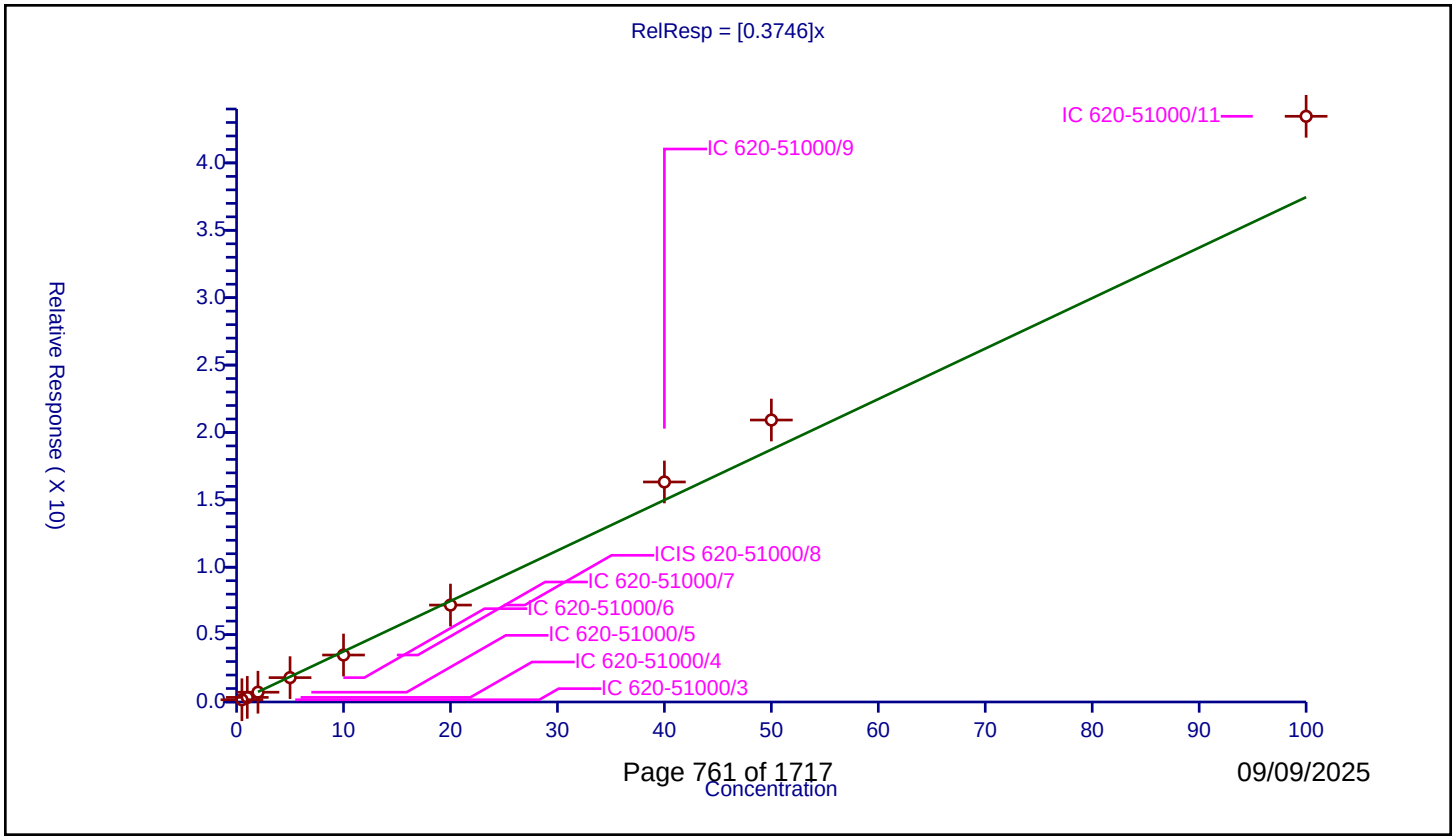
Curve Coefficients

Intercept:	0
Slope:	0.3746

Error Coefficients

Relative Standard Deviation:	9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.168097	50.0	1027681.0	0.336194	Y
2	IC 620-51000/4	1.0	0.341331	50.0	1013386.0	0.341331	Y
3	IC 620-51000/5	2.0	0.725828	50.0	1015943.0	0.362914	Y
4	IC 620-51000/6	5.0	1.808245	50.0	1008077.0	0.361649	Y
5	IC 620-51000/7	10.0	3.485234	50.0	999732.0	0.348523	Y
6	ICIS 620-51000/8	20.0	7.190731	50.0	955195.0	0.359537	Y
7	IC 620-51000/9	40.0	16.32591	50.0	1041311.0	0.408148	Y
8	IC 620-51000/10	50.0	20.921306	50.0	1083723.0	0.418426	Y
9	IC 620-51000/11	100.0	43.459857	50.0	1099739.0	0.434599	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

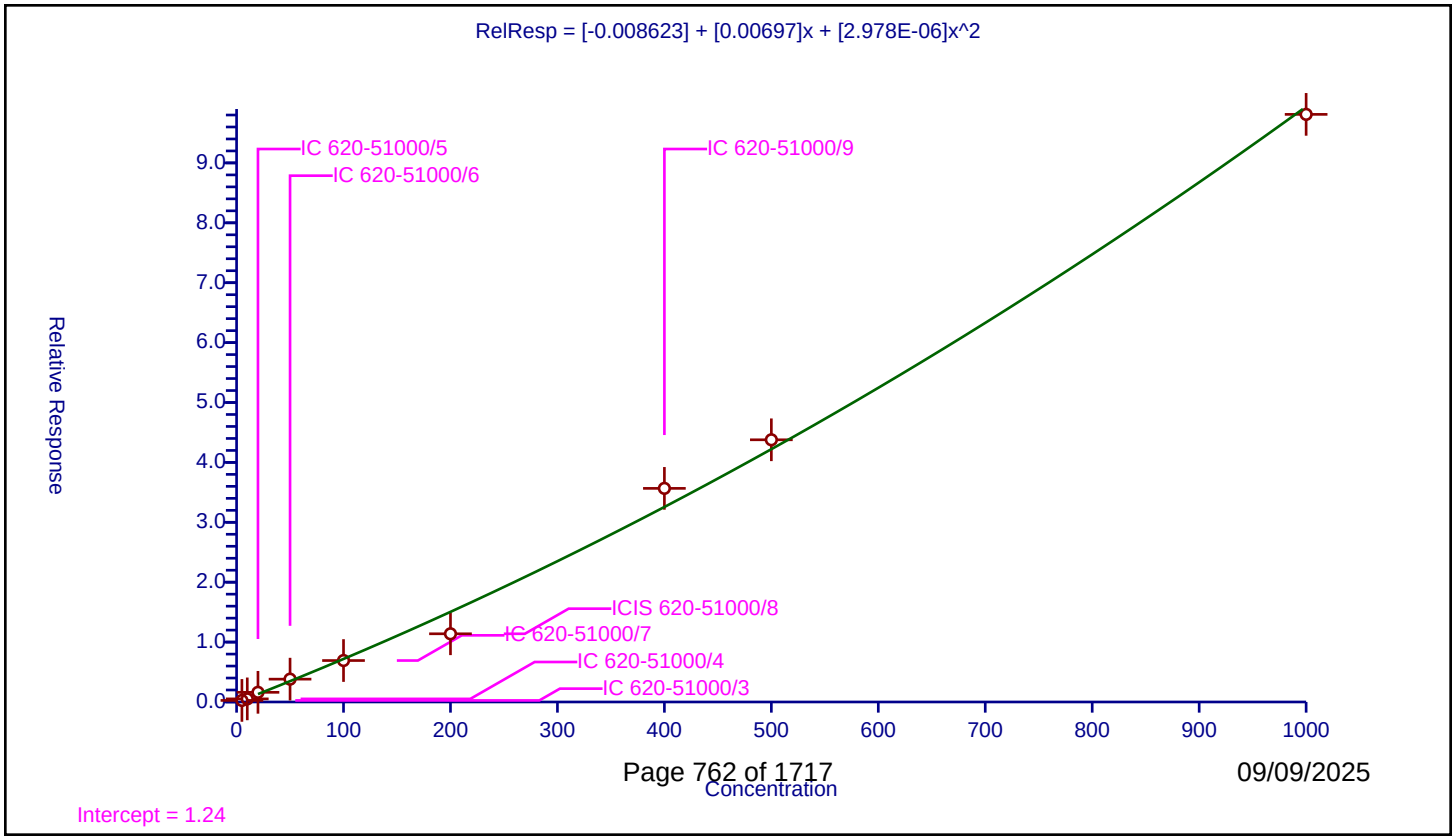
Curve Coefficients

Intercept:	-0.008623
Slope:	0.00697
Second Order:	2.978E-06

Error Coefficients

Relative Standard Deviation:	14.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	5.0	0.025835	50.0	1027681.0	0.005167	Y
2	IC 620-51000/4	10.0	0.052004	50.0	1013386.0	0.0052	Y
3	IC 620-51000/5	20.0	0.161476	50.0	1015943.0	0.008074	Y
4	IC 620-51000/6	50.0	0.381518	50.0	1008077.0	0.00763	Y
5	IC 620-51000/7	100.0	0.692135	50.0	999732.0	0.006921	Y
6	ICIS 620-51000/8	200.0	1.138459	50.0	955195.0	0.005692	Y
7	IC 620-51000/9	400.0	3.566178	50.0	1041311.0	0.008915	Y
8	IC 620-51000/10	500.0	4.377364	50.0	1083723.0	0.008755	Y
9	IC 620-51000/11	1000.0	9.810328	50.0	1099739.0	0.00981	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

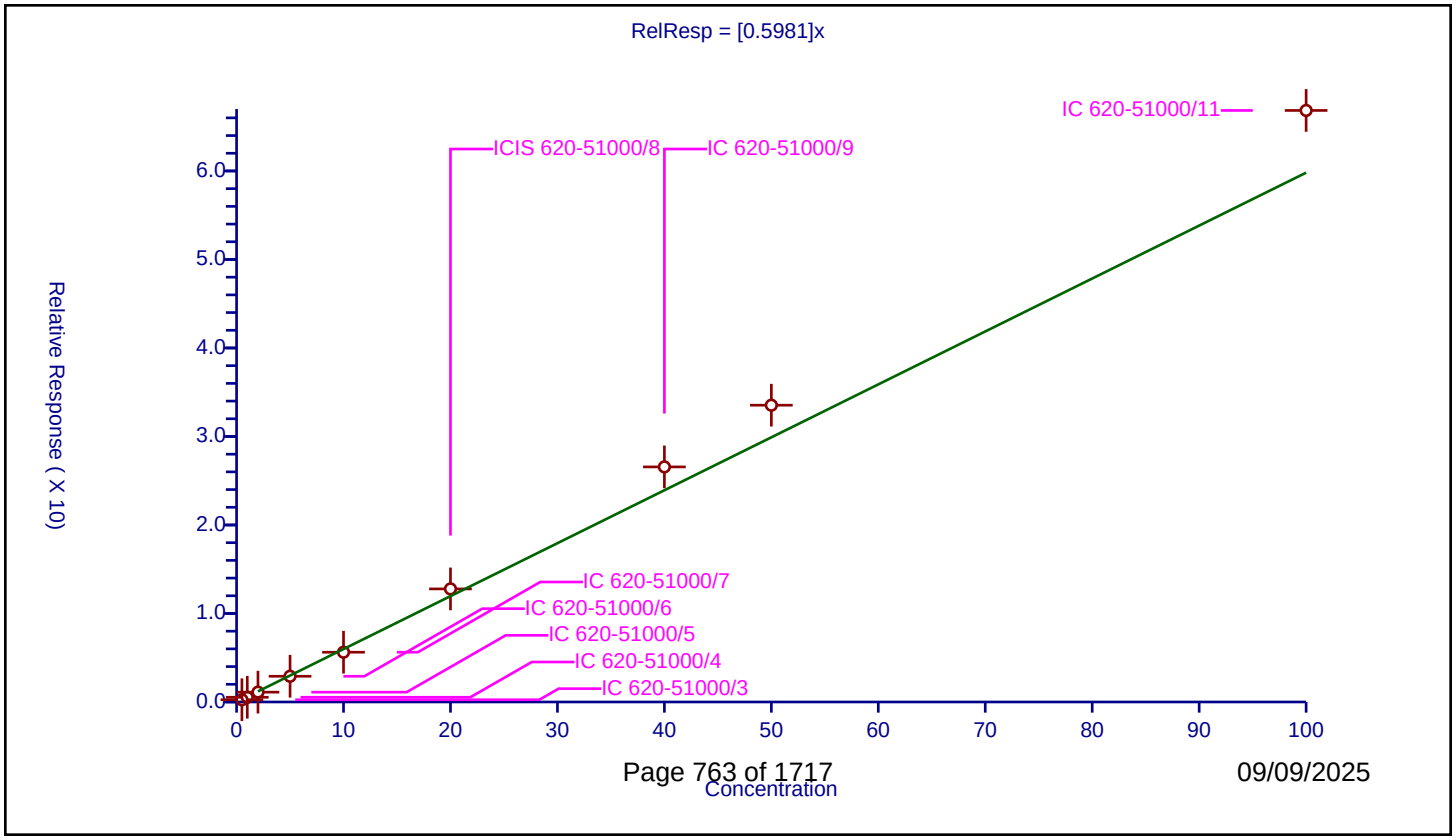
Curve Coefficients

Intercept:	0
Slope:	0.5981

Error Coefficients

Relative Standard Deviation:	10.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.253678	50.0	1027681.0	0.507356	Y
2	IC 620-51000/4	1.0	0.534693	50.0	1013386.0	0.534693	Y
3	IC 620-51000/5	2.0	1.109954	50.0	1015943.0	0.554977	Y
4	IC 620-51000/6	5.0	2.905978	50.0	1008077.0	0.581196	Y
5	IC 620-51000/7	10.0	5.625008	50.0	999732.0	0.562501	Y
6	ICIS 620-51000/8	20.0	12.777077	50.0	955195.0	0.638854	Y
7	IC 620-51000/9	40.0	26.560509	50.0	1041311.0	0.664013	Y
8	IC 620-51000/10	50.0	33.532554	50.0	1083723.0	0.670651	Y
9	IC 620-51000/11	100.0	66.836313	50.0	1099739.0	0.668363	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

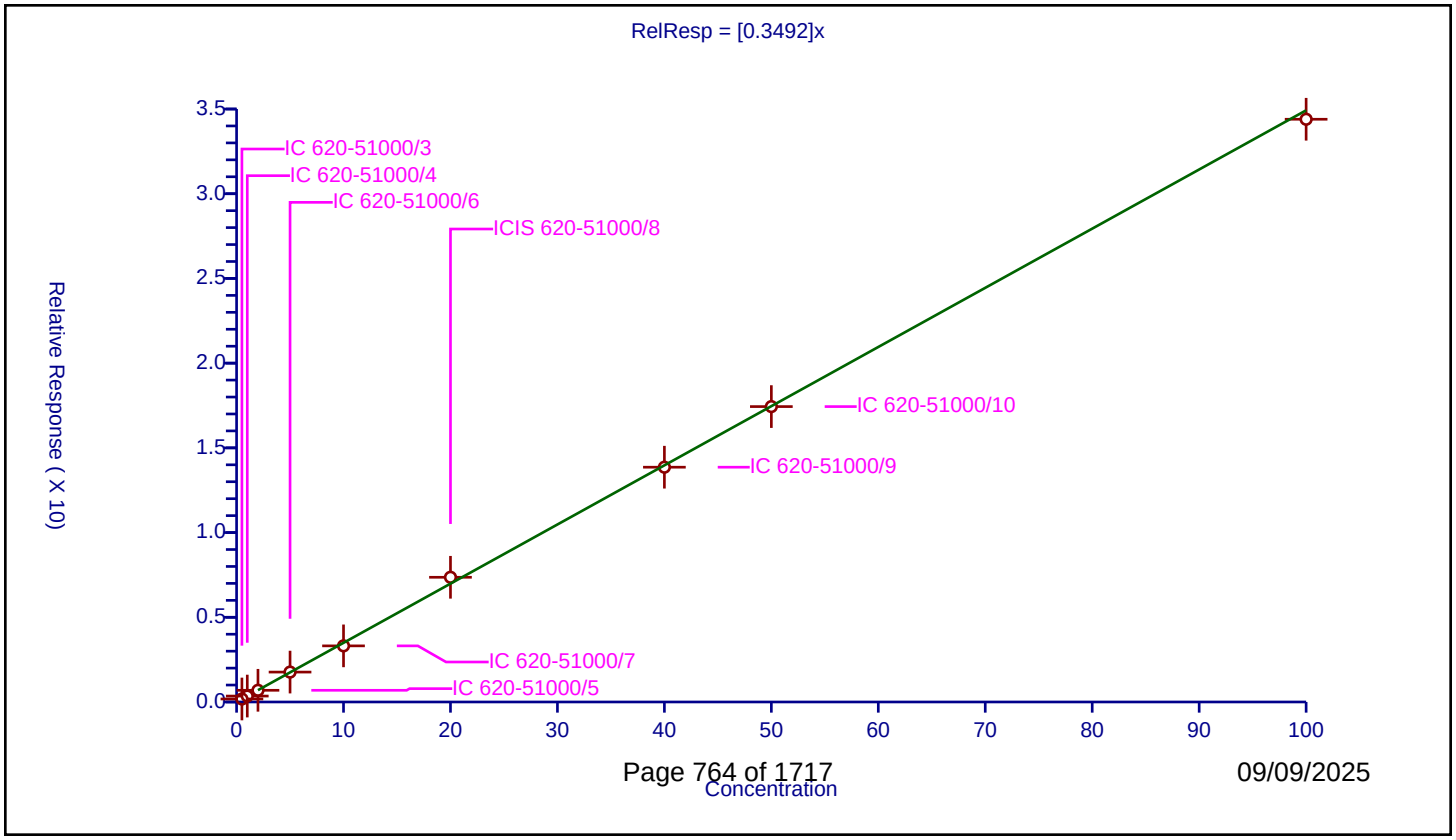
Curve Coefficients

Intercept:	0
Slope:	0.3492

Error Coefficients

Relative Standard Deviation:	2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.177779	50.0	1027681.0	0.355558	Y
2	IC 620-51000/4	1.0	0.350755	50.0	1013386.0	0.350755	Y
3	IC 620-51000/5	2.0	0.690196	50.0	1015943.0	0.345098	Y
4	IC 620-51000/6	5.0	1.765441	50.0	1008077.0	0.353088	Y
5	IC 620-51000/7	10.0	3.312888	50.0	999732.0	0.331289	Y
6	ICIS 620-51000/8	20.0	7.361062	50.0	955195.0	0.368053	Y
7	IC 620-51000/9	40.0	13.858348	50.0	1041311.0	0.346459	Y
8	IC 620-51000/10	50.0	17.436513	50.0	1083723.0	0.34873	Y
9	IC 620-51000/11	100.0	34.395252	50.0	1099739.0	0.343953	Y



Calibration / Acrylonitrile

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

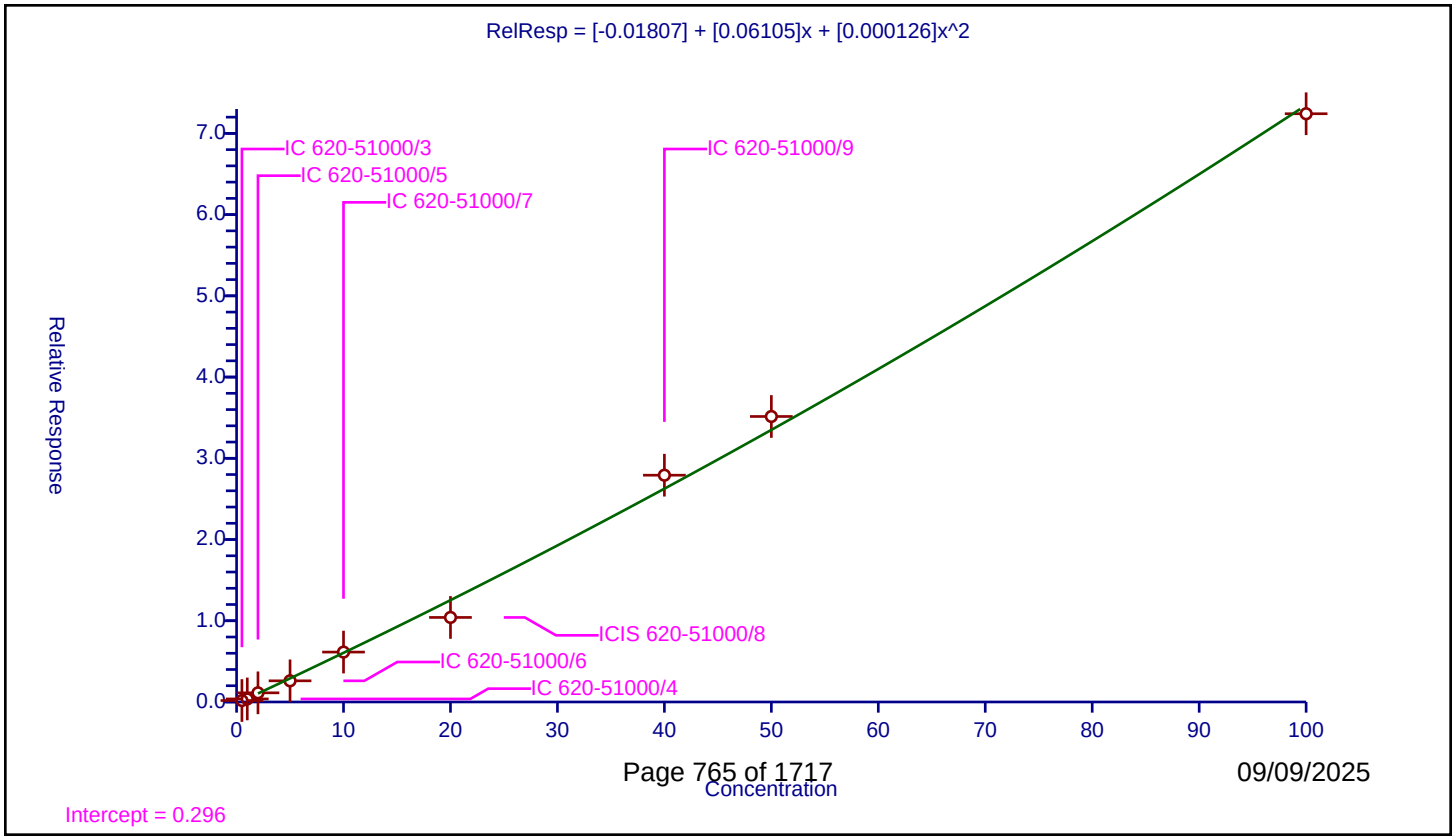
Curve Coefficients

Intercept:	-0.01807
Slope:	0.06105
Second Order:	0.000126

Error Coefficients

Relative Standard Deviation:	11.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.017856	50.0	1027681.0	0.035711	Y
2	IC 620-51000/4	1.0	0.037597	50.0	1013386.0	0.037597	Y
3	IC 620-51000/5	2.0	0.112654	50.0	1015943.0	0.056327	Y
4	IC 620-51000/6	5.0	0.260496	50.0	1008077.0	0.052099	Y
5	IC 620-51000/7	10.0	0.614515	50.0	999732.0	0.061451	Y
6	ICIS 620-51000/8	20.0	1.040678	50.0	955195.0	0.052034	Y
7	IC 620-51000/9	40.0	2.792057	50.0	1041311.0	0.069801	Y
8	IC 620-51000/10	50.0	3.51469	50.0	1083723.0	0.070294	Y
9	IC 620-51000/11	100.0	7.241764	50.0	1099739.0	0.072418	Y



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

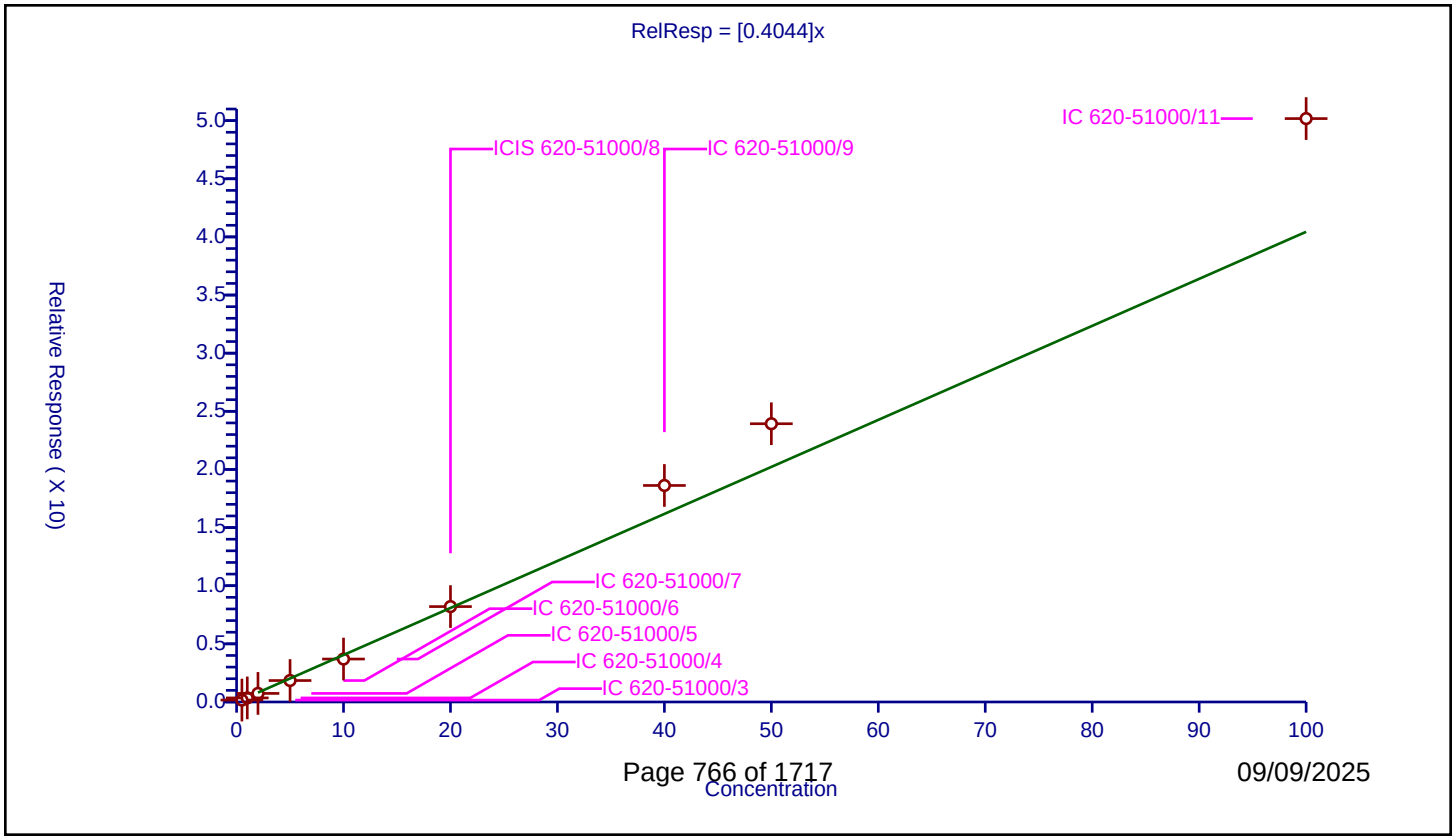
Curve Coefficients

Intercept:	0
Slope:	0.4044

Error Coefficients

Relative Standard Deviation:	15.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.163329	50.0	1027681.0	0.326658	Y
2	IC 620-51000/4	1.0	0.349423	50.0	1013386.0	0.349423	Y
3	IC 620-51000/5	2.0	0.737148	50.0	1015943.0	0.368574	Y
4	IC 620-51000/6	5.0	1.845742	50.0	1008077.0	0.369148	Y
5	IC 620-51000/7	10.0	3.69374	50.0	999732.0	0.369374	Y
6	ICIS 620-51000/8	20.0	8.204032	50.0	955195.0	0.410202	Y
7	IC 620-51000/9	40.0	18.623399	50.0	1041311.0	0.465585	Y
8	IC 620-51000/10	50.0	23.930885	50.0	1083723.0	0.478618	Y
9	IC 620-51000/11	100.0	50.176633	50.0	1099739.0	0.501766	Y



Calibration / Vinyl acetate

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

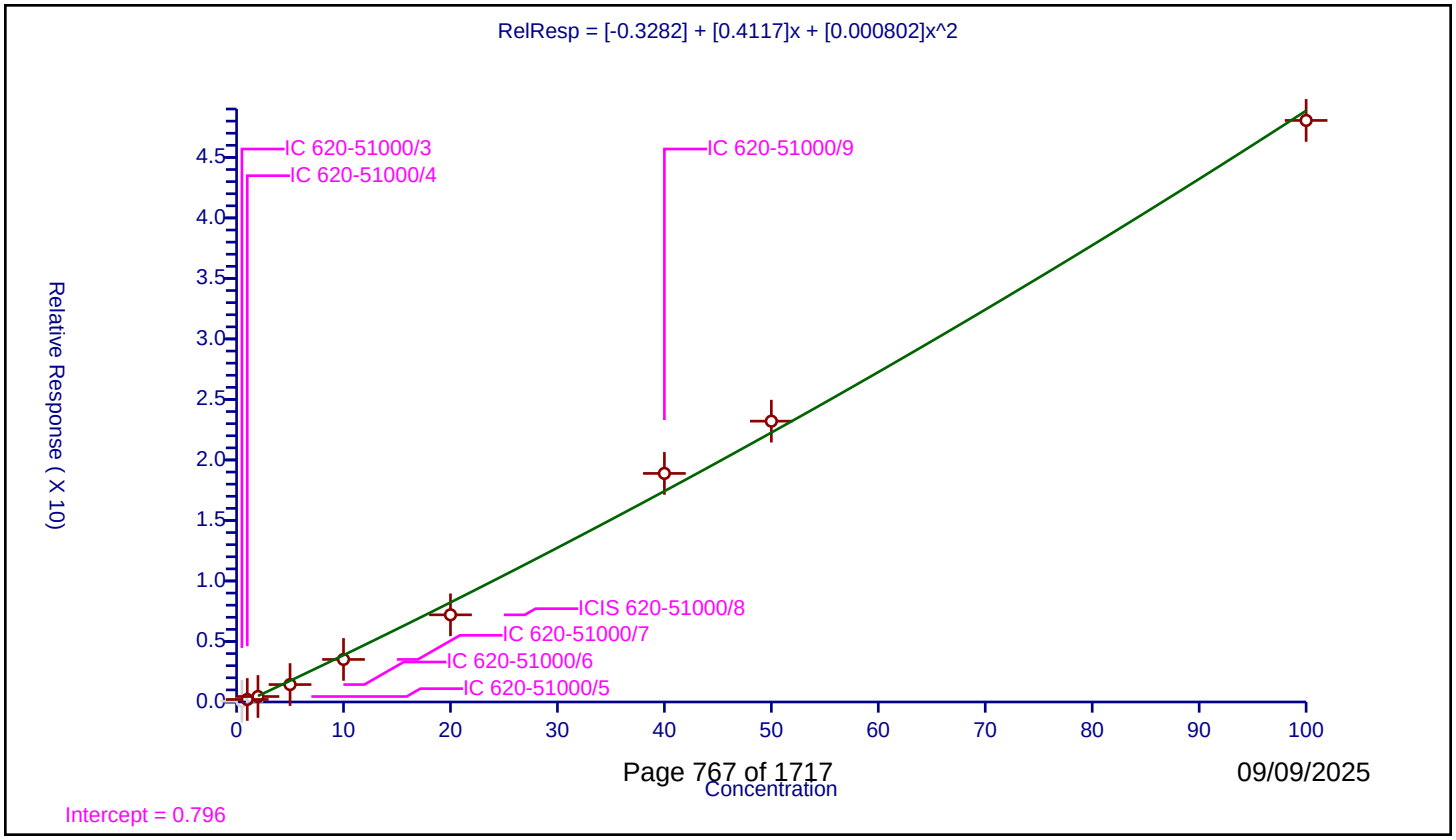
Curve Coefficients

Intercept:	-0.3282
Slope:	0.4117
Second Order:	0.000802

Error Coefficients

Relative Standard Deviation:	16.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.06033	50.0	1027681.0	0.12066	N
2	IC 620-51000/4	1.0	0.207522	50.0	1013386.0	0.207522	Y
3	IC 620-51000/5	2.0	0.453716	50.0	1015943.0	0.226858	Y
4	IC 620-51000/6	5.0	1.440465	50.0	1008077.0	0.288093	Y
5	IC 620-51000/7	10.0	3.515742	50.0	999732.0	0.351574	Y
6	ICIS 620-51000/8	20.0	7.203346	50.0	955195.0	0.360167	Y
7	IC 620-51000/9	40.0	18.888785	50.0	1041311.0	0.47222	Y
8	IC 620-51000/10	50.0	23.20593	50.0	1083723.0	0.464119	Y
9	IC 620-51000/11	100.0	48.056312	50.0	1099739.0	0.480563	Y



09/09/2025

Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

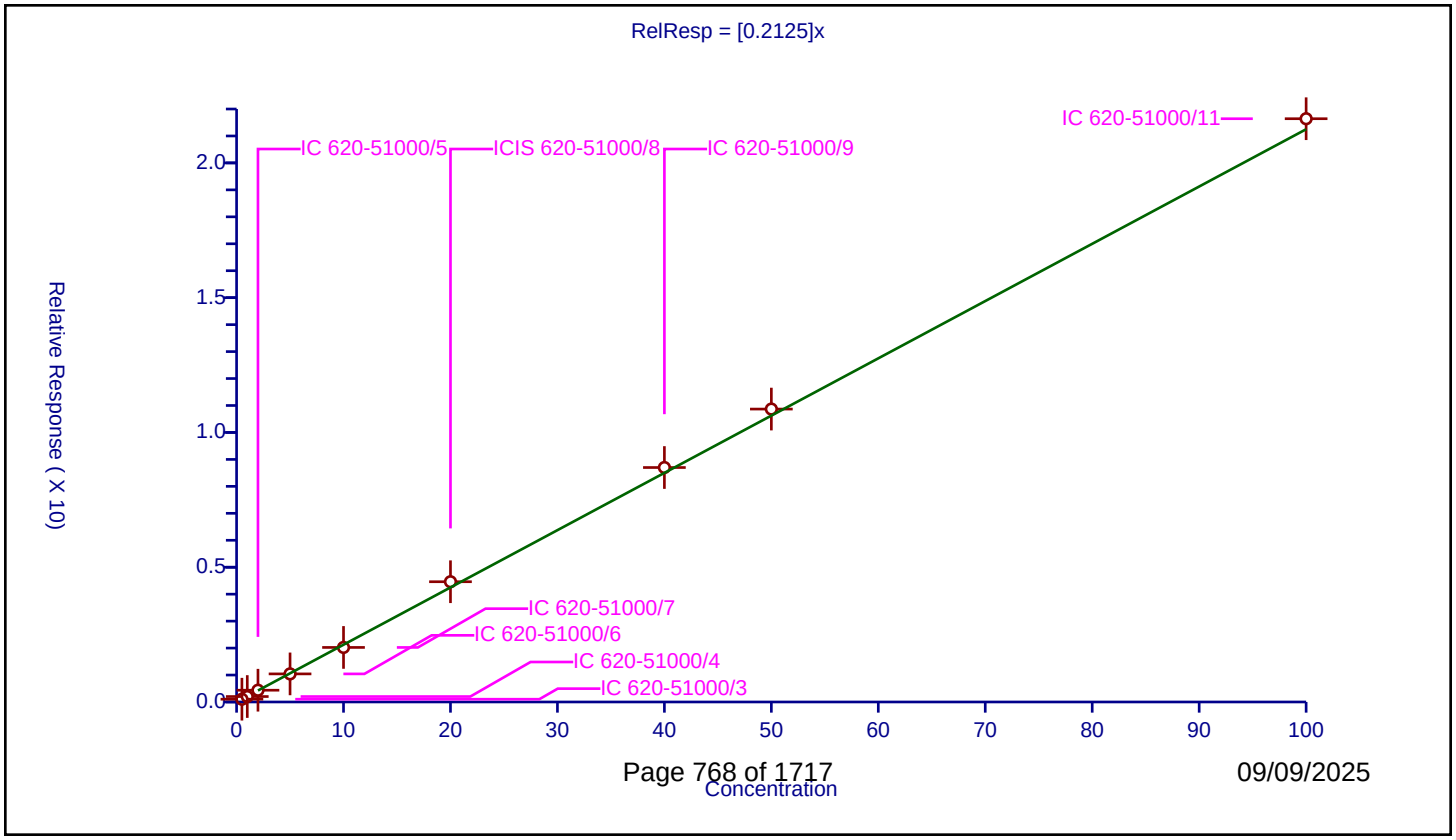
Curve Coefficients

Intercept:	0
Slope:	0.2125

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.103242	50.0	1027681.0	0.206484	Y
2	IC 620-51000/4	1.0	0.202341	50.0	1013386.0	0.202341	Y
3	IC 620-51000/5	2.0	0.436737	50.0	1015943.0	0.218369	Y
4	IC 620-51000/6	5.0	1.042678	50.0	1008077.0	0.208536	Y
5	IC 620-51000/7	10.0	2.023692	50.0	999732.0	0.202369	Y
6	ICIS 620-51000/8	20.0	4.461183	50.0	955195.0	0.223059	Y
7	IC 620-51000/9	40.0	8.699466	50.0	1041311.0	0.217487	Y
8	IC 620-51000/10	50.0	10.867676	50.0	1083723.0	0.217354	Y
9	IC 620-51000/11	100.0	21.64018	50.0	1099739.0	0.216402	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

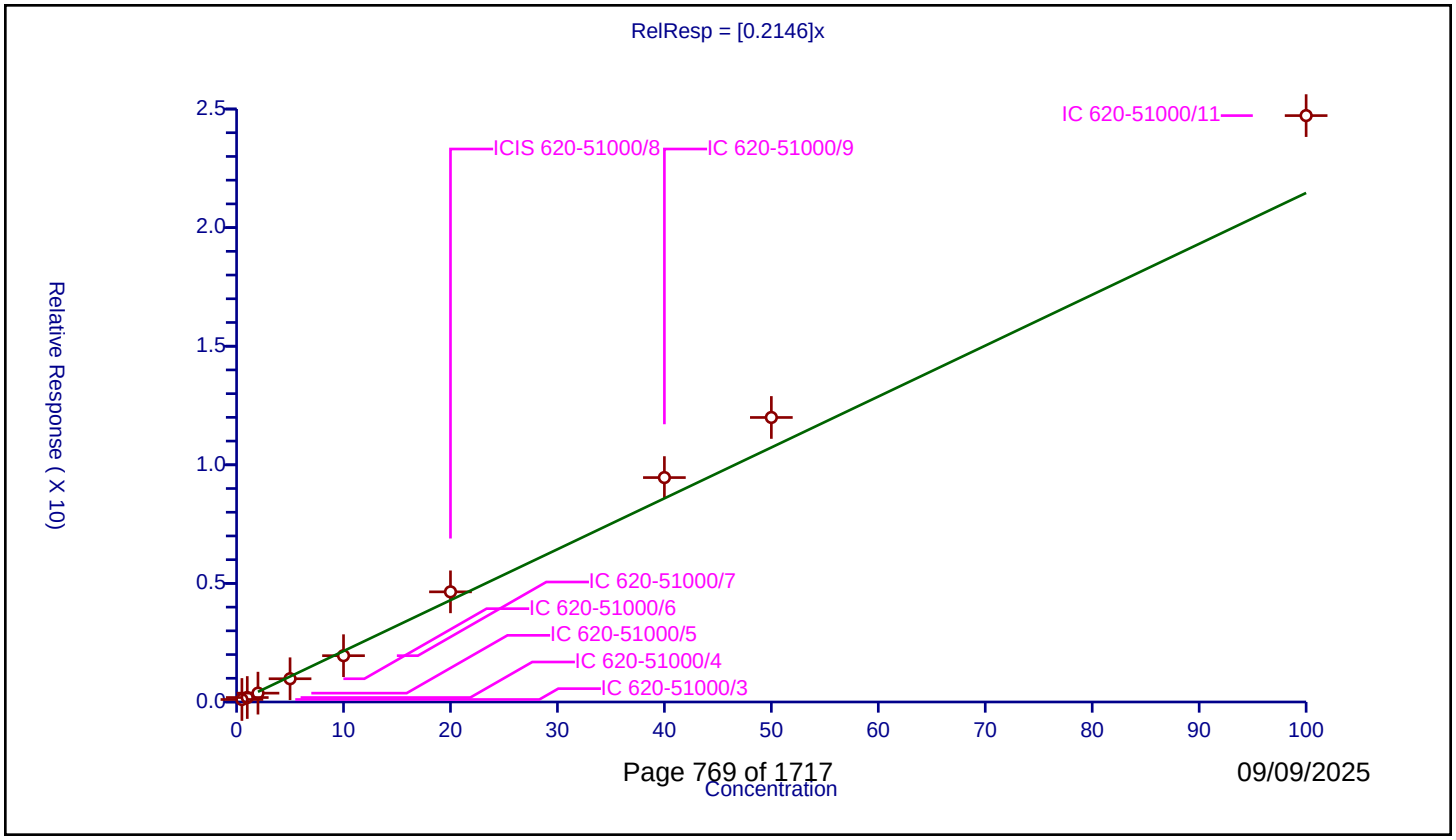
Curve Coefficients

Intercept:	0
Slope:	0.2146

Error Coefficients

Relative Standard Deviation:	11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.10475	50.0	1027681.0	0.209501	Y
2	IC 620-51000/4	1.0	0.188773	50.0	1013386.0	0.188773	Y
3	IC 620-51000/5	2.0	0.372708	50.0	1015943.0	0.186354	Y
4	IC 620-51000/6	5.0	0.979389	50.0	1008077.0	0.195878	Y
5	IC 620-51000/7	10.0	1.952623	50.0	999732.0	0.195262	Y
6	ICIS 620-51000/8	20.0	4.643502	50.0	955195.0	0.232175	Y
7	IC 620-51000/9	40.0	9.461487	50.0	1041311.0	0.236537	Y
8	IC 620-51000/10	50.0	11.994947	50.0	1083723.0	0.239899	Y
9	IC 620-51000/11	100.0	24.722502	50.0	1099739.0	0.247225	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

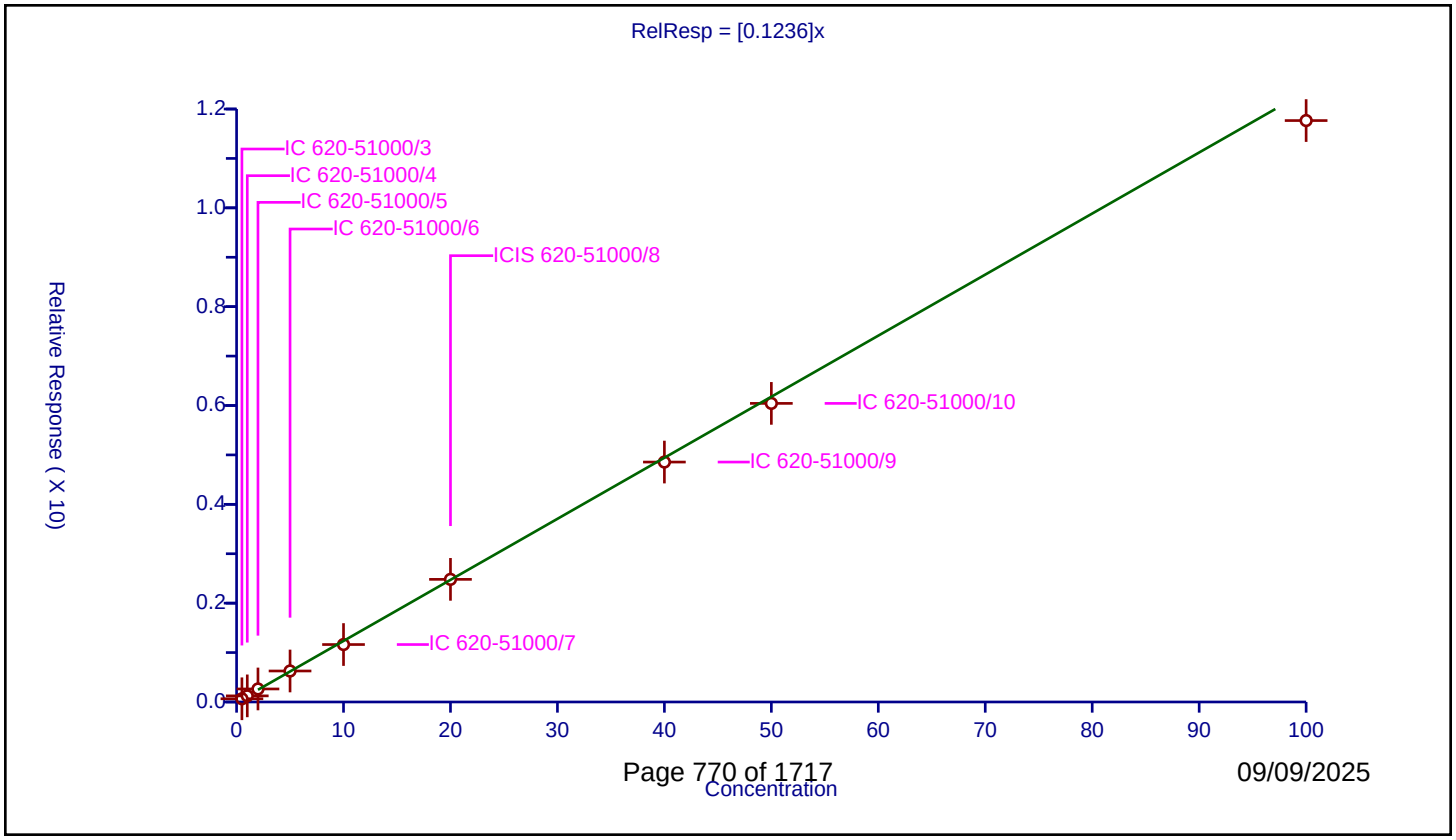
Curve Coefficients

Intercept:	0
Slope:	0.1236

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.065293	50.0	1027681.0	0.130585	Y
2	IC 620-51000/4	1.0	0.12404	50.0	1013386.0	0.12404	Y
3	IC 620-51000/5	2.0	0.263351	50.0	1015943.0	0.131676	Y
4	IC 620-51000/6	5.0	0.627333	50.0	1008077.0	0.125467	Y
5	IC 620-51000/7	10.0	1.162462	50.0	999732.0	0.116246	Y
6	ICIS 620-51000/8	20.0	2.481849	50.0	955195.0	0.124092	Y
7	IC 620-51000/9	40.0	4.855274	50.0	1041311.0	0.121382	Y
8	IC 620-51000/10	50.0	6.042919	50.0	1083723.0	0.120858	Y
9	IC 620-51000/11	100.0	11.766337	50.0	1099739.0	0.117663	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

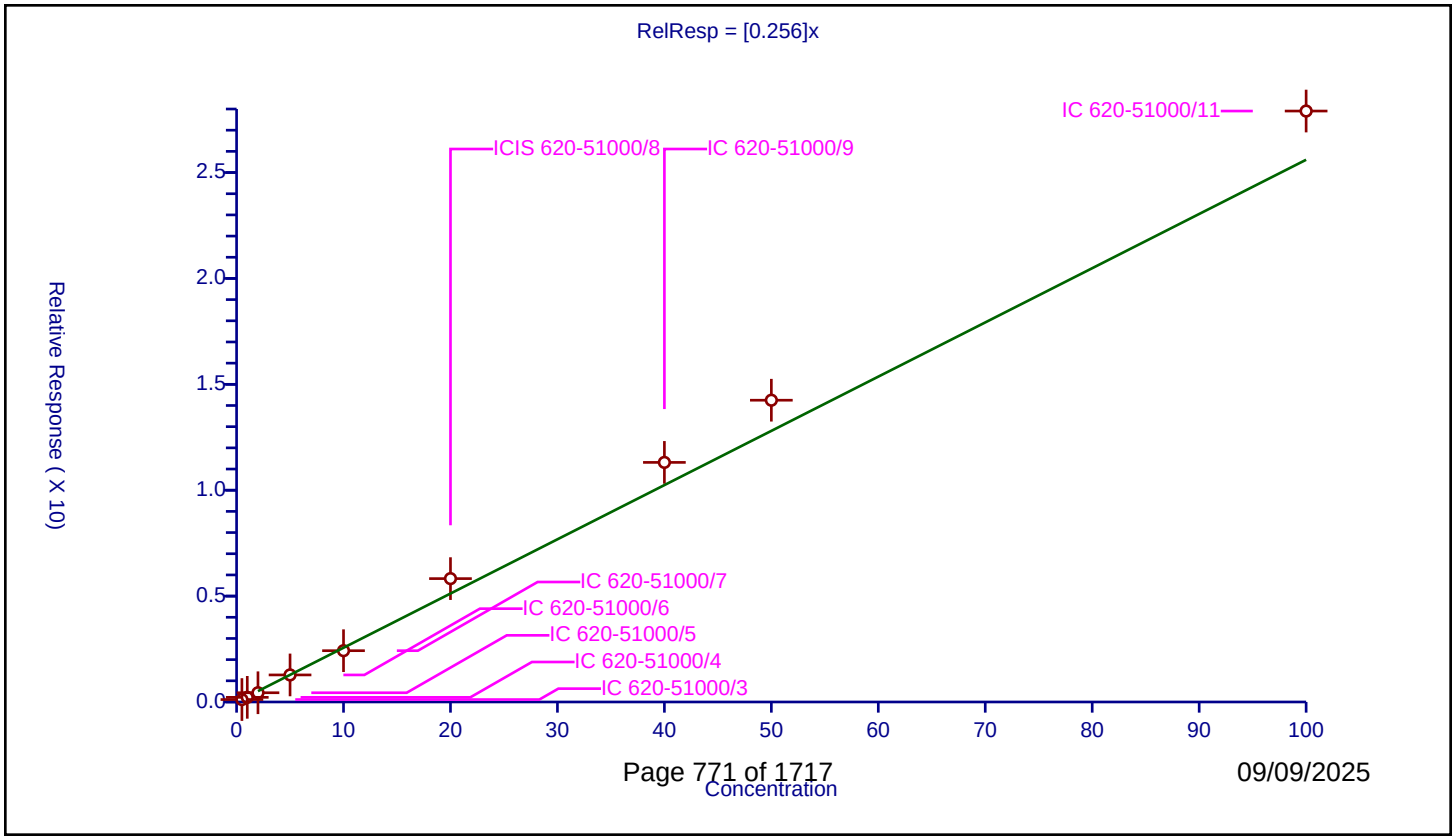
Curve Coefficients

Intercept:	0
Slope:	0.256

Error Coefficients

Relative Standard Deviation:	11.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.115065	50.0	1027681.0	0.23013	Y
2	IC 620-51000/4	1.0	0.220054	50.0	1013386.0	0.220054	Y
3	IC 620-51000/5	2.0	0.436442	50.0	1015943.0	0.218221	Y
4	IC 620-51000/6	5.0	1.277631	50.0	1008077.0	0.255526	Y
5	IC 620-51000/7	10.0	2.422399	50.0	999732.0	0.24224	Y
6	ICIS 620-51000/8	20.0	5.826193	50.0	955195.0	0.29131	Y
7	IC 620-51000/9	40.0	11.313143	50.0	1041311.0	0.282829	Y
8	IC 620-51000/10	50.0	14.249997	50.0	1083723.0	0.285	Y
9	IC 620-51000/11	100.0	27.904757	50.0	1099739.0	0.279048	Y



09/09/2025

Calibration / Chloroform

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

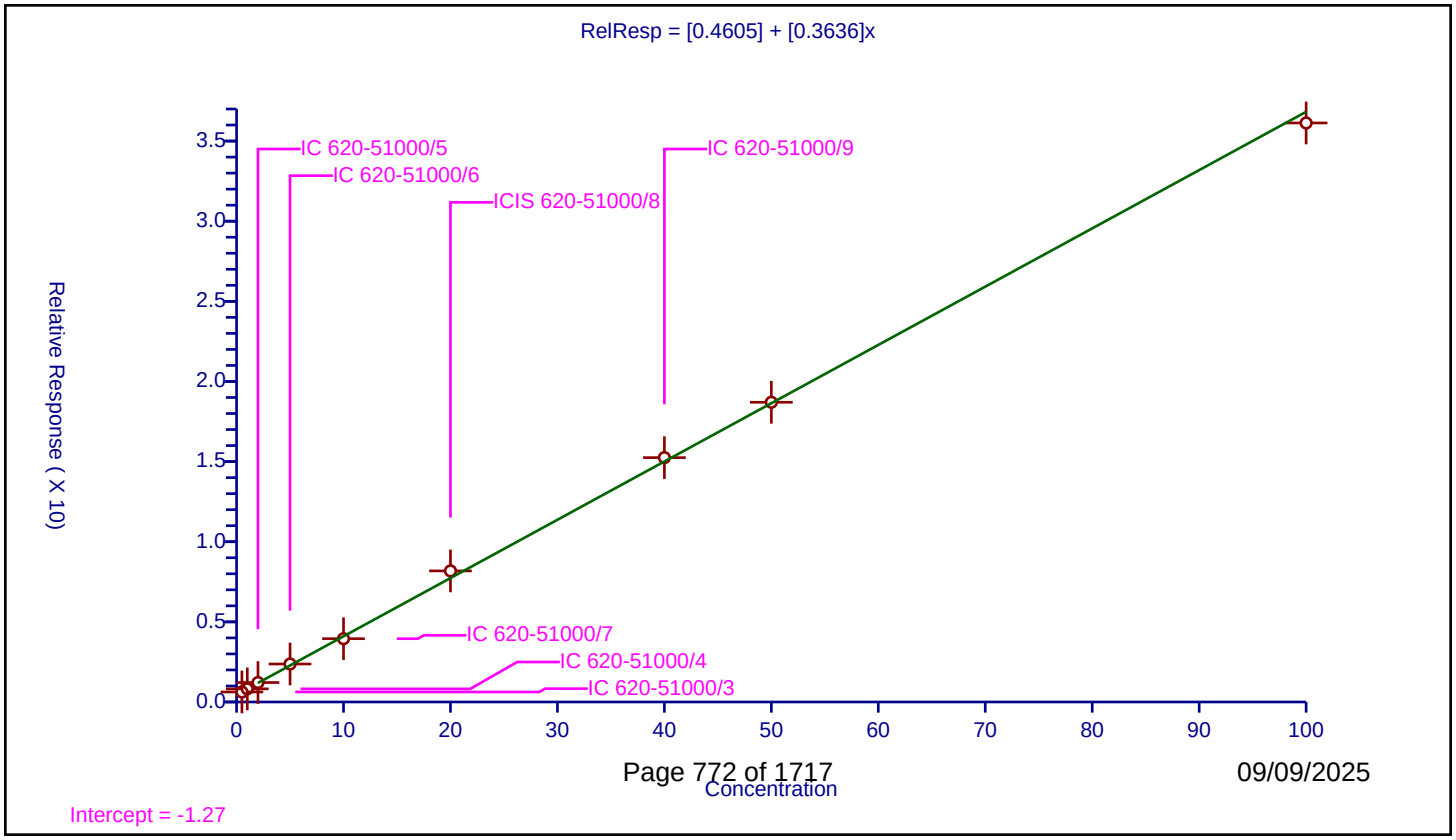
Curve Coefficients

Intercept:	0.4605
Slope:	0.3636

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.625389	50.0	1027681.0	1.250777	Y
2	IC 620-51000/4	1.0	0.819086	50.0	1013386.0	0.819086	Y
3	IC 620-51000/5	2.0	1.213602	50.0	1015943.0	0.606801	Y
4	IC 620-51000/6	5.0	2.370305	50.0	1008077.0	0.474061	Y
5	IC 620-51000/7	10.0	3.949608	50.0	999732.0	0.394961	Y
6	ICIS 620-51000/8	20.0	8.178435	50.0	955195.0	0.408922	Y
7	IC 620-51000/9	40.0	15.247318	50.0	1041311.0	0.381183	Y
8	IC 620-51000/10	50.0	18.701735	50.0	1083723.0	0.374035	Y
9	IC 620-51000/11	100.0	36.129391	50.0	1099739.0	0.361294	Y



09/09/2025

Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

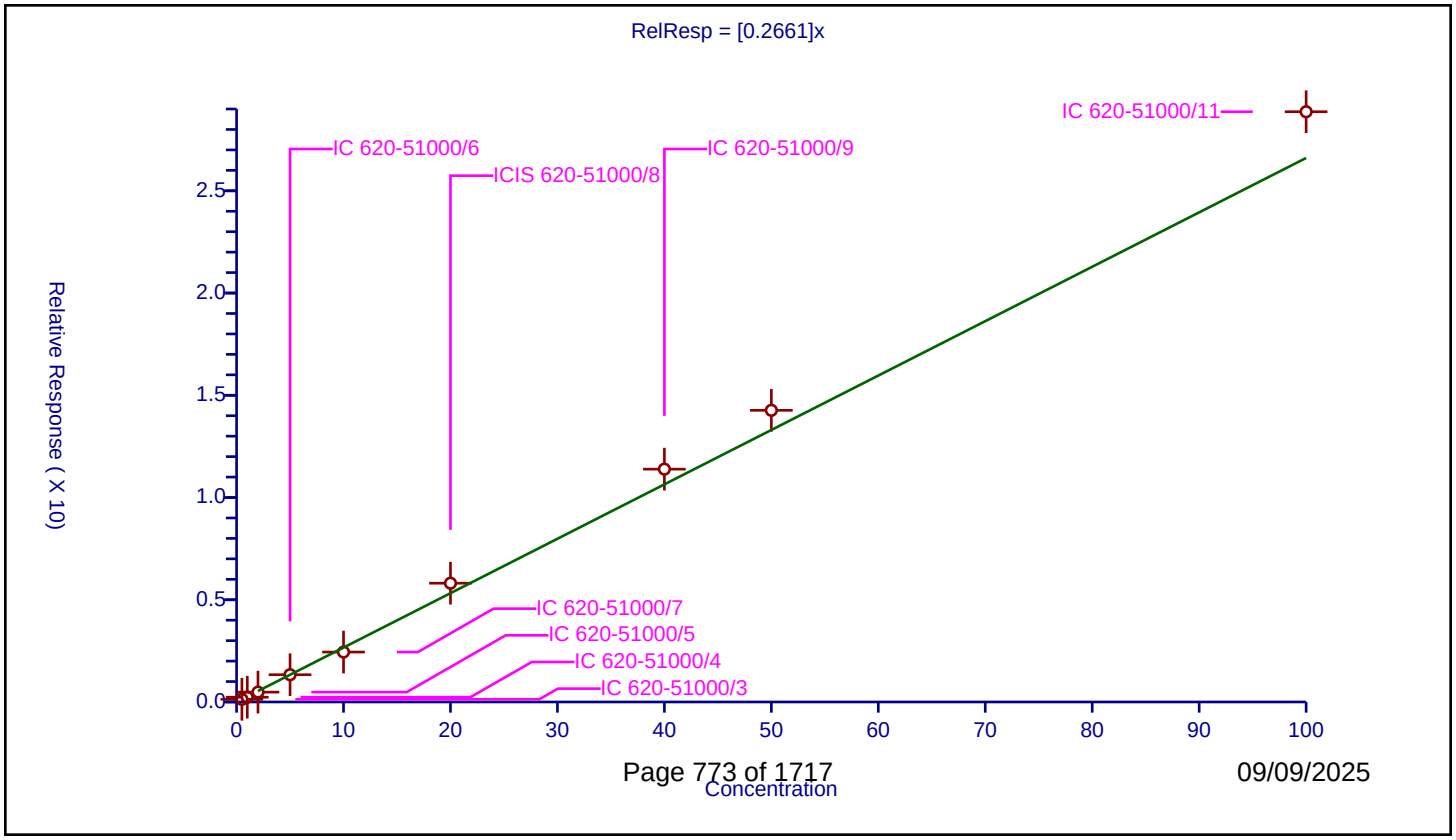
Curve Coefficients

Intercept:	0
Slope:	0.2661

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.130683	50.0	1027681.0	0.261365	Y
2	IC 620-51000/4	1.0	0.232587	50.0	1013386.0	0.232587	Y
3	IC 620-51000/5	2.0	0.481277	50.0	1015943.0	0.240639	Y
4	IC 620-51000/6	5.0	1.332934	50.0	1008077.0	0.266587	Y
5	IC 620-51000/7	10.0	2.442054	50.0	999732.0	0.244205	Y
6	ICIS 620-51000/8	20.0	5.809756	50.0	955195.0	0.290488	Y
7	IC 620-51000/9	40.0	11.387856	50.0	1041311.0	0.284696	Y
8	IC 620-51000/10	50.0	14.264623	50.0	1083723.0	0.285292	Y
9	IC 620-51000/11	100.0	28.867031	50.0	1099739.0	0.28867	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

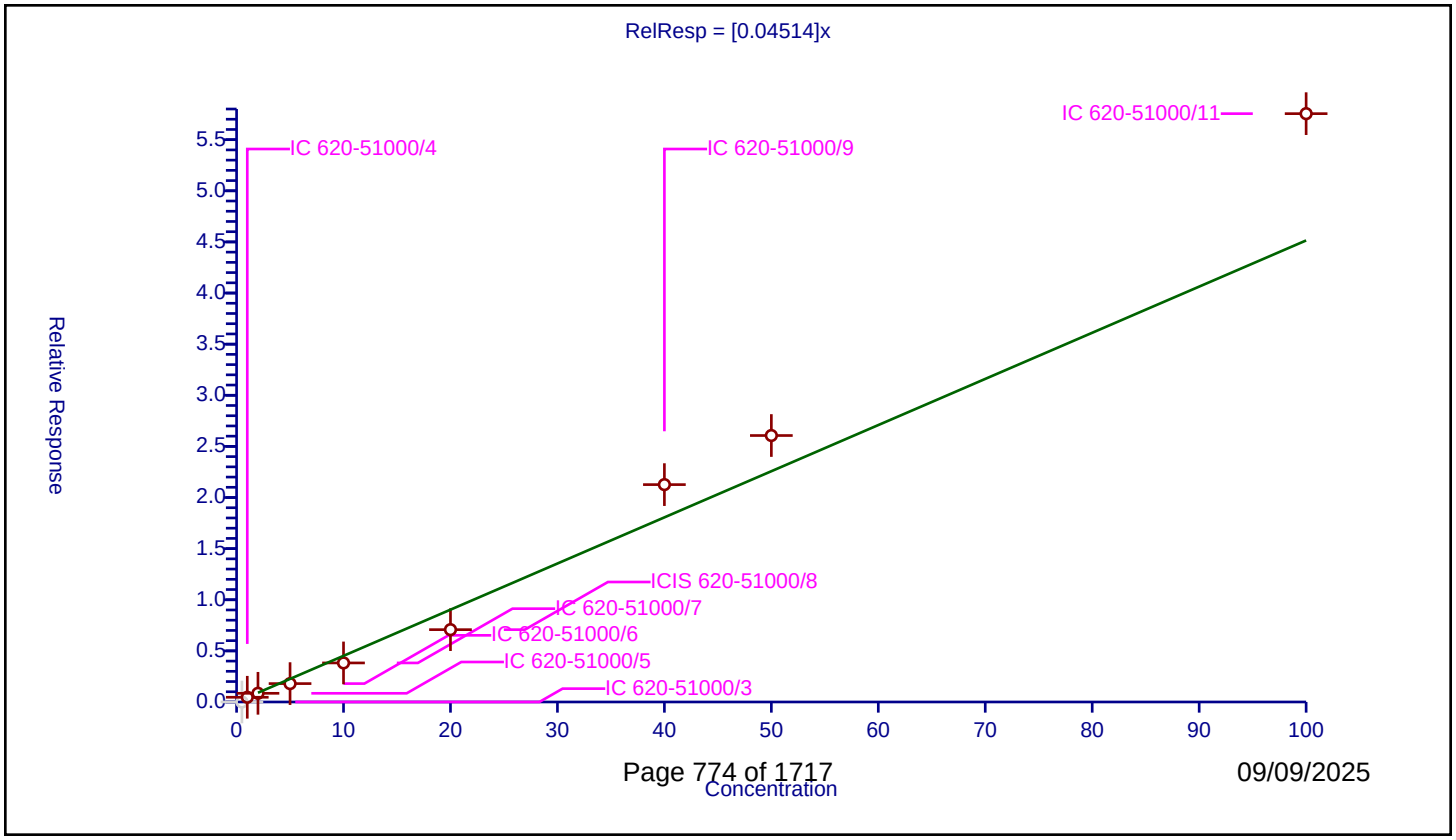
Curve Coefficients

Intercept:	0
Slope:	0.04514

Error Coefficients

Relative Standard Deviation:	18.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.0	50.0	1027681.0	0.0	N
2	IC 620-51000/4	1.0	0.04628	50.0	1013386.0	0.04628	Y
3	IC 620-51000/5	2.0	0.084995	50.0	1015943.0	0.042497	Y
4	IC 620-51000/6	5.0	0.179798	50.0	1008077.0	0.03596	Y
5	IC 620-51000/7	10.0	0.382052	50.0	999732.0	0.038205	Y
6	ICIS 620-51000/8	20.0	0.707447	50.0	955195.0	0.035372	Y
7	IC 620-51000/9	40.0	2.126262	50.0	1041311.0	0.053157	Y
8	IC 620-51000/10	50.0	2.606339	50.0	1083723.0	0.052127	Y
9	IC 620-51000/11	100.0	5.754547	50.0	1099739.0	0.057545	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

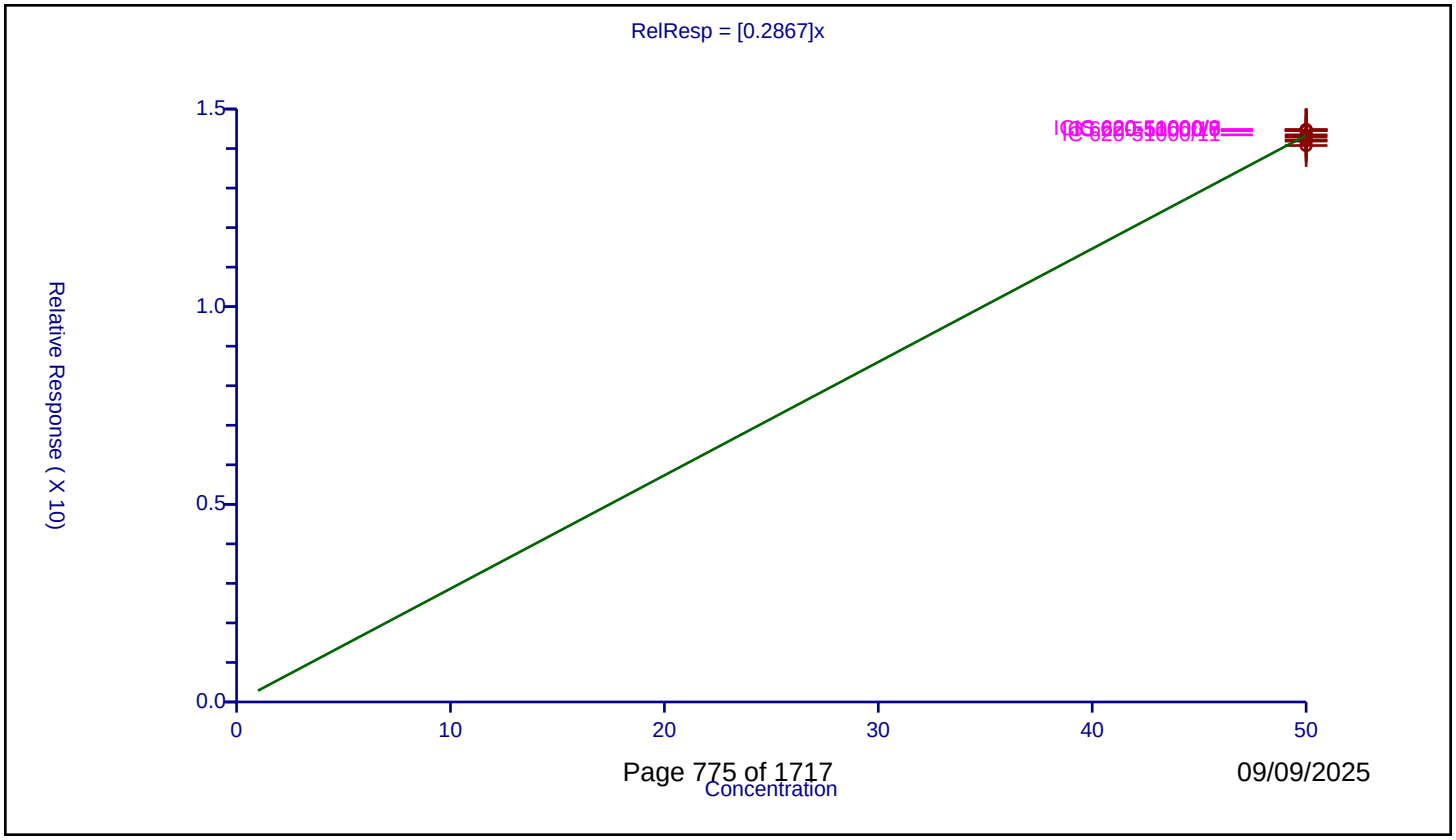
Curve Coefficients

Intercept:	0
Slope:	0.2867

Error Coefficients

Relative Standard Deviation:	1.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	50.0	14.188304	50.0	1027681.0	0.283766	Y
2	IC 620-51000/4	50.0	14.076275	50.0	1013386.0	0.281525	Y
3	IC 620-51000/5	50.0	14.30031	50.0	1015943.0	0.286006	Y
4	IC 620-51000/6	50.0	14.220441	50.0	1008077.0	0.284409	Y
5	IC 620-51000/7	50.0	14.47613	50.0	999732.0	0.289523	Y
6	ICIS 620-51000/8	50.0	14.478876	50.0	955195.0	0.289578	Y
7	IC 620-51000/9	50.0	14.458697	50.0	1041311.0	0.289174	Y
8	IC 620-51000/10	50.0	14.454247	50.0	1083723.0	0.289085	Y
9	IC 620-51000/11	50.0	14.346359	50.0	1099739.0	0.286927	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

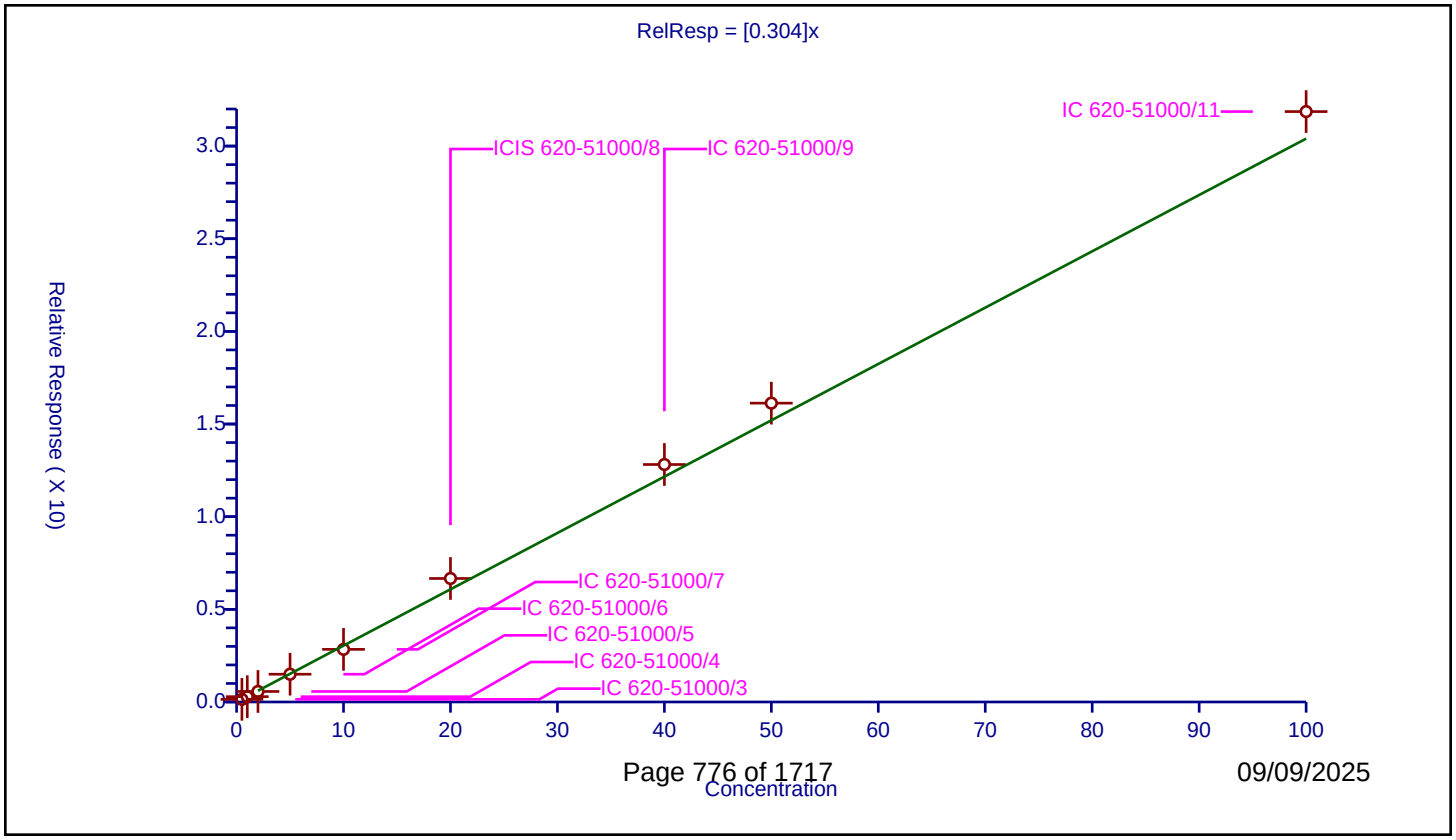
Curve Coefficients

Intercept:	0
Slope:	0.304

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.143576	50.0	1027681.0	0.287151	Y
2	IC 620-51000/4	1.0	0.286663	50.0	1013386.0	0.286663	Y
3	IC 620-51000/5	2.0	0.567601	50.0	1015943.0	0.2838	Y
4	IC 620-51000/6	5.0	1.498199	50.0	1008077.0	0.29964	Y
5	IC 620-51000/7	10.0	2.839961	50.0	999732.0	0.283996	Y
6	ICIS 620-51000/8	20.0	6.665079	50.0	955195.0	0.333254	Y
7	IC 620-51000/9	40.0	12.816056	50.0	1041311.0	0.320401	Y
8	IC 620-51000/10	50.0	16.127691	50.0	1083723.0	0.322554	Y
9	IC 620-51000/11	100.0	31.862196	50.0	1099739.0	0.318622	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

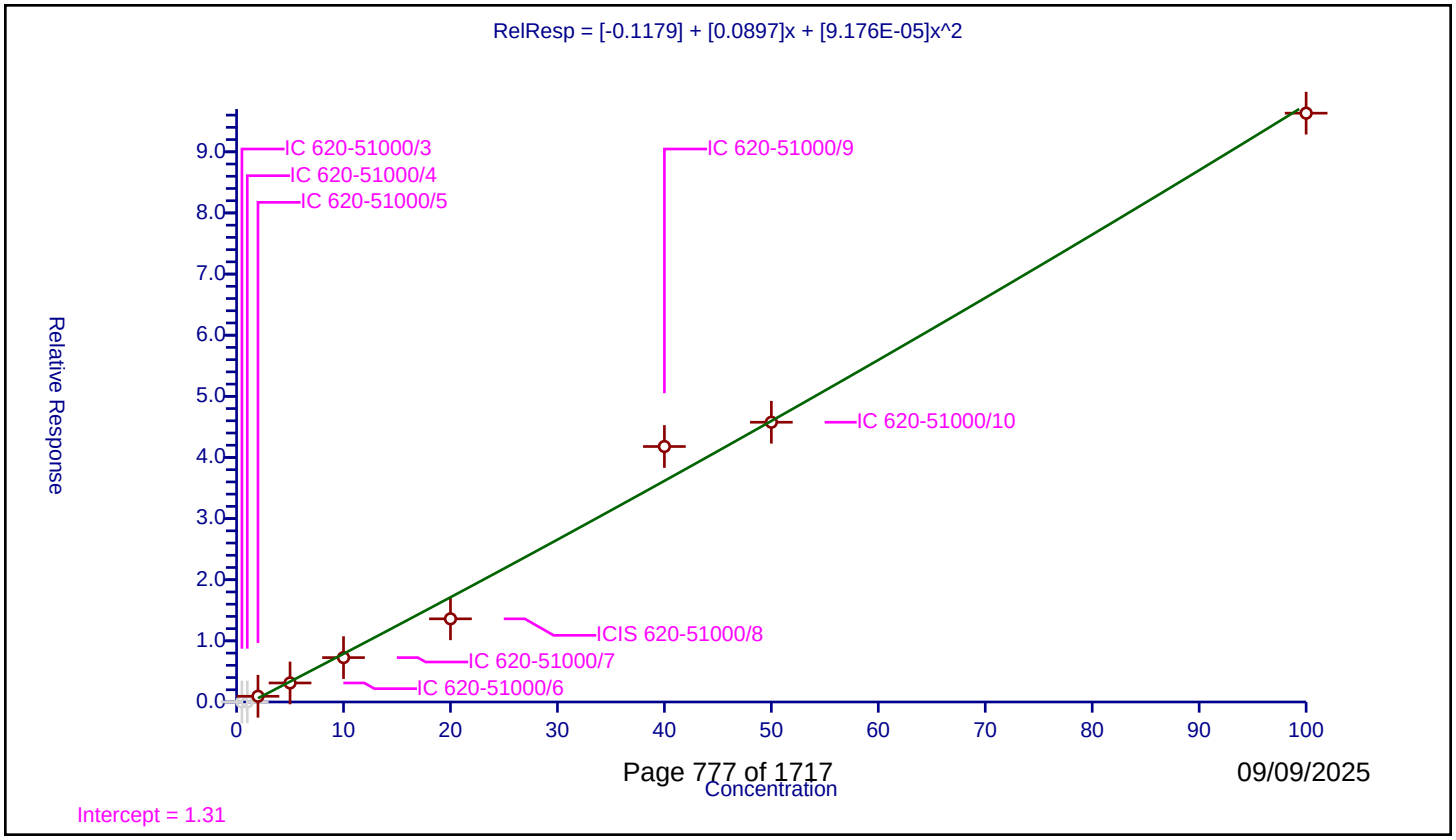
Curve Coefficients

Intercept:	-0.1179
Slope:	0.0897
Second Order:	9.176E-05

Error Coefficients

Relative Standard Deviation:	15.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.0	50.0	1027681.0	0.0	N
2	IC 620-51000/4	1.0	0.0	50.0	1013386.0	0.0	N
3	IC 620-51000/5	2.0	0.093608	50.0	1015943.0	0.046804	Y
4	IC 620-51000/6	5.0	0.311187	50.0	1008077.0	0.062237	Y
5	IC 620-51000/7	10.0	0.726145	50.0	999732.0	0.072614	Y
6	ICIS 620-51000/8	20.0	1.36056	50.0	955195.0	0.068028	Y
7	IC 620-51000/9	40.0	4.179107	50.0	1041311.0	0.104478	Y
8	IC 620-51000/10	50.0	4.576169	50.0	1083723.0	0.091523	Y
9	IC 620-51000/11	100.0	9.632149	50.0	1099739.0	0.096321	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

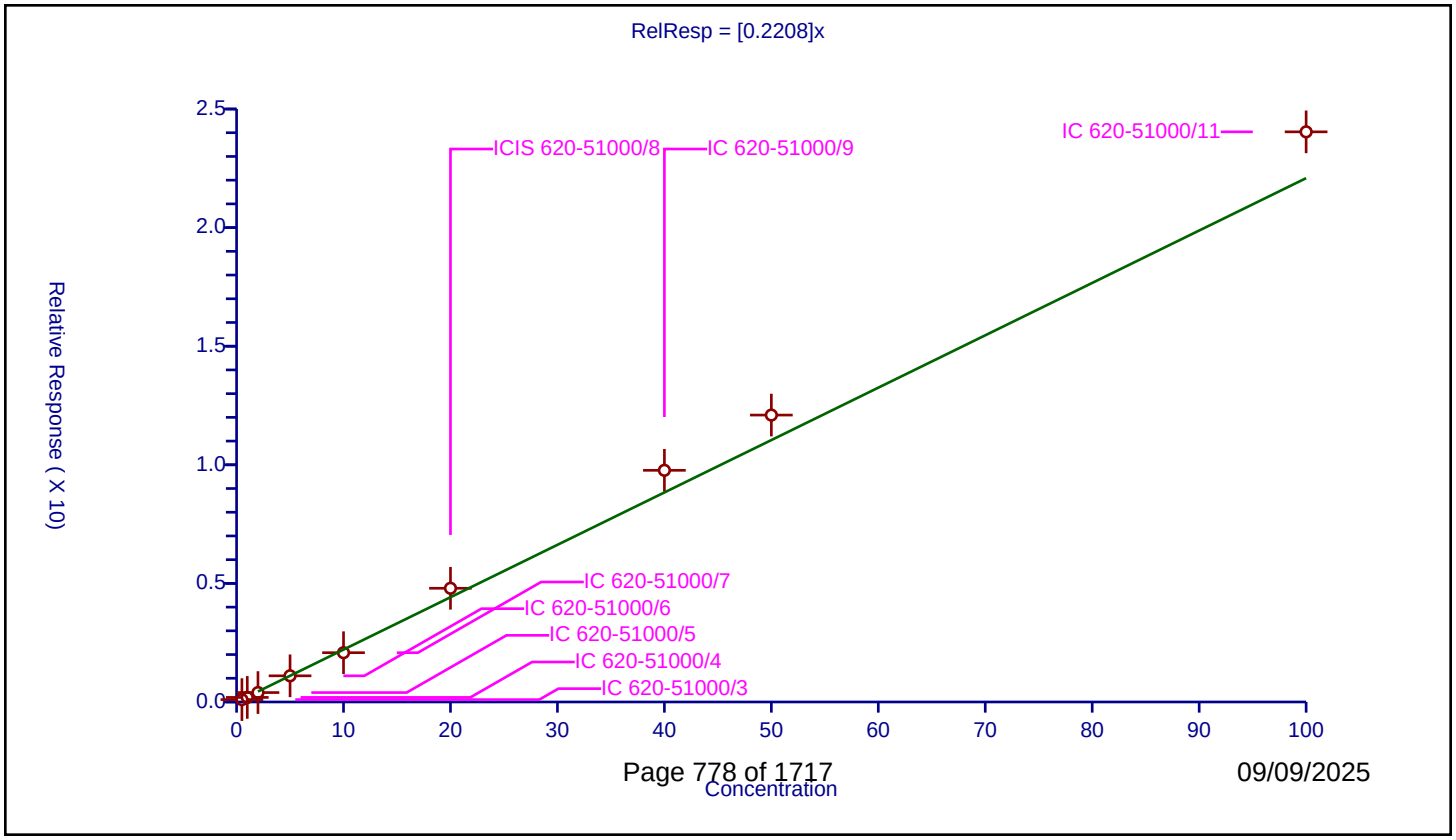
Curve Coefficients

Intercept:	0
Slope:	0.2208

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.100712	50.0	1027681.0	0.201424	Y
2	IC 620-51000/4	1.0	0.193016	50.0	1013386.0	0.193016	Y
3	IC 620-51000/5	2.0	0.397119	50.0	1015943.0	0.198559	Y
4	IC 620-51000/6	5.0	1.10309	50.0	1008077.0	0.220618	Y
5	IC 620-51000/7	10.0	2.078107	50.0	999732.0	0.207811	Y
6	ICIS 620-51000/8	20.0	4.794152	50.0	955195.0	0.239708	Y
7	IC 620-51000/9	40.0	9.767255	50.0	1041311.0	0.244181	Y
8	IC 620-51000/10	50.0	12.096357	50.0	1083723.0	0.241927	Y
9	IC 620-51000/11	100.0	24.037931	50.0	1099739.0	0.240379	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

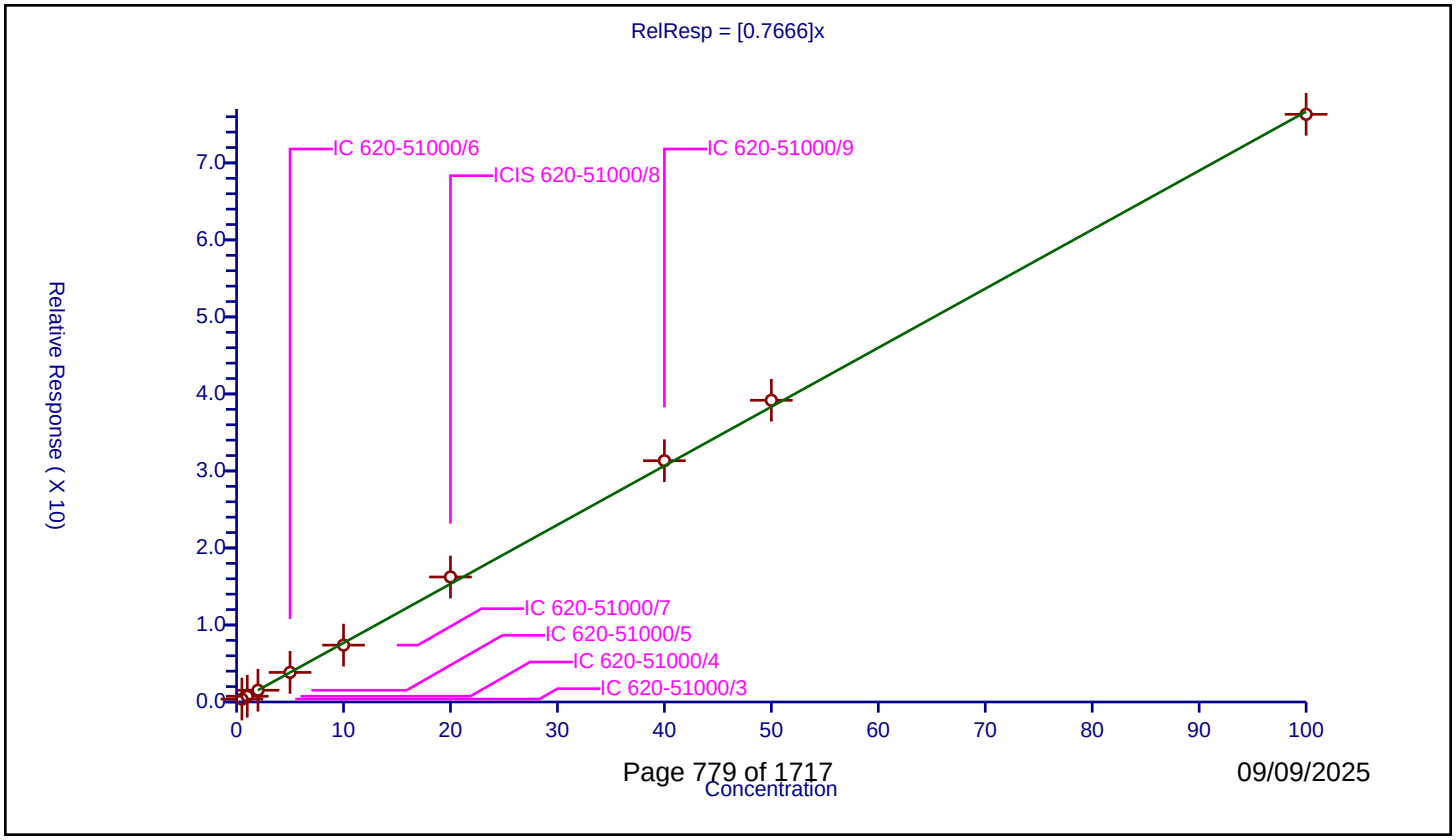
Curve Coefficients

Intercept:	0
Slope:	0.7666

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.373949	50.0	1027681.0	0.747897	Y
2	IC 620-51000/4	1.0	0.741376	50.0	1013386.0	0.741376	Y
3	IC 620-51000/5	2.0	1.524101	50.0	1015943.0	0.762051	Y
4	IC 620-51000/6	5.0	3.841621	50.0	1008077.0	0.768324	Y
5	IC 620-51000/7	10.0	7.384729	50.0	999732.0	0.738473	Y
6	ICIS 620-51000/8	20.0	16.232863	50.0	955195.0	0.811643	Y
7	IC 620-51000/9	40.0	31.332234	50.0	1041311.0	0.783306	Y
8	IC 620-51000/10	50.0	39.180123	50.0	1083723.0	0.783602	Y
9	IC 620-51000/11	100.0	76.31047	50.0	1099739.0	0.763105	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

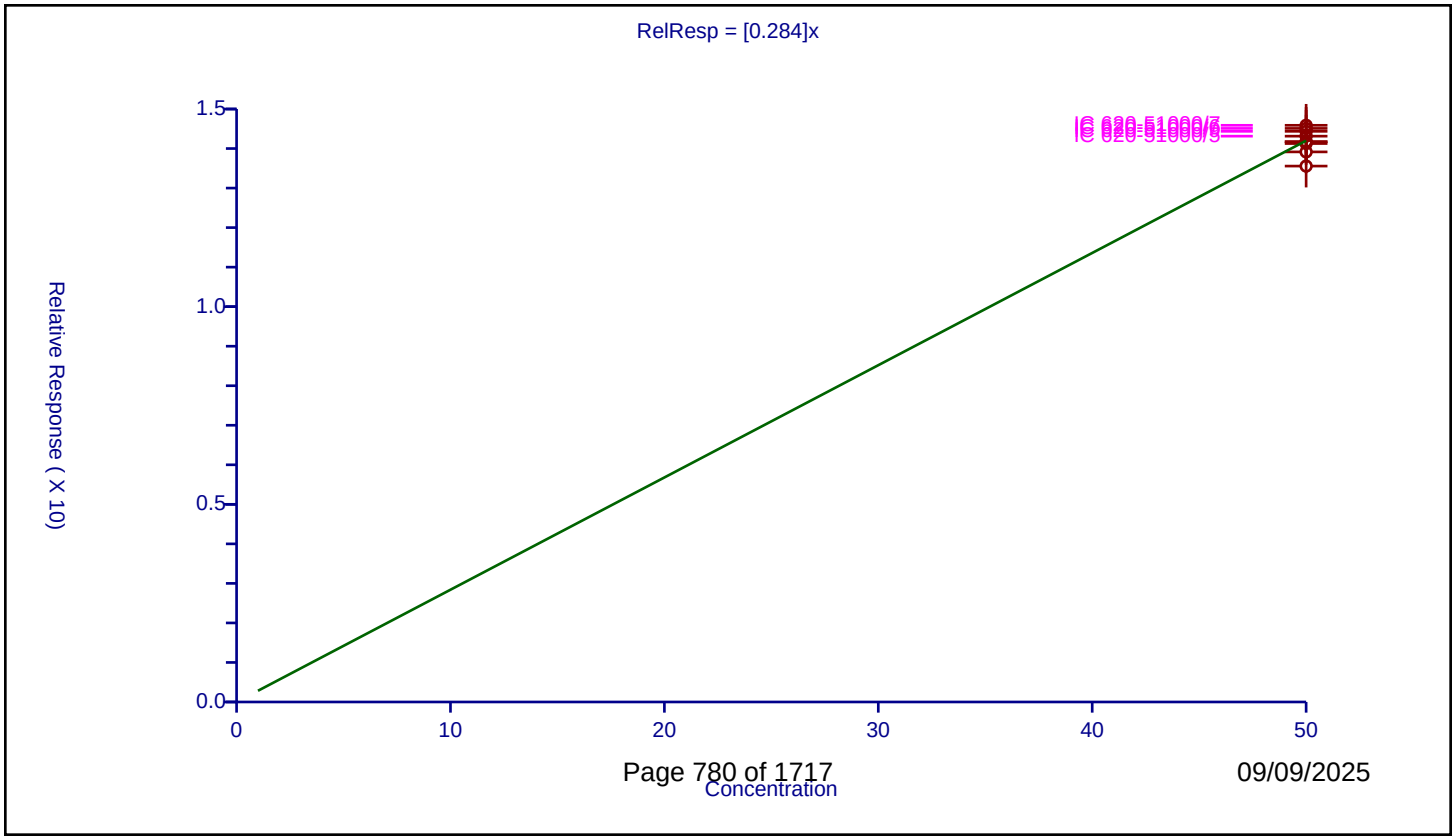
Curve Coefficients

Intercept:	0
Slope:	0.284

Error Coefficients

Relative Standard Deviation:	2.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	50.0	14.172005	50.0	1027681.0	0.28344	Y
2	IC 620-51000/4	50.0	14.170958	50.0	1013386.0	0.283419	Y
3	IC 620-51000/5	50.0	14.313008	50.0	1015943.0	0.28626	Y
4	IC 620-51000/6	50.0	14.50916	50.0	1008077.0	0.290183	Y
5	IC 620-51000/7	50.0	14.58811	50.0	999732.0	0.291762	Y
6	ICIS 620-51000/8	50.0	13.556604	50.0	955195.0	0.271132	Y
7	IC 620-51000/9	50.0	14.435265	50.0	1041311.0	0.288705	Y
8	IC 620-51000/10	50.0	14.126442	50.0	1083723.0	0.282529	Y
9	IC 620-51000/11	50.0	13.915575	50.0	1099739.0	0.278311	Y



Calibration / Tert-amyl methyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

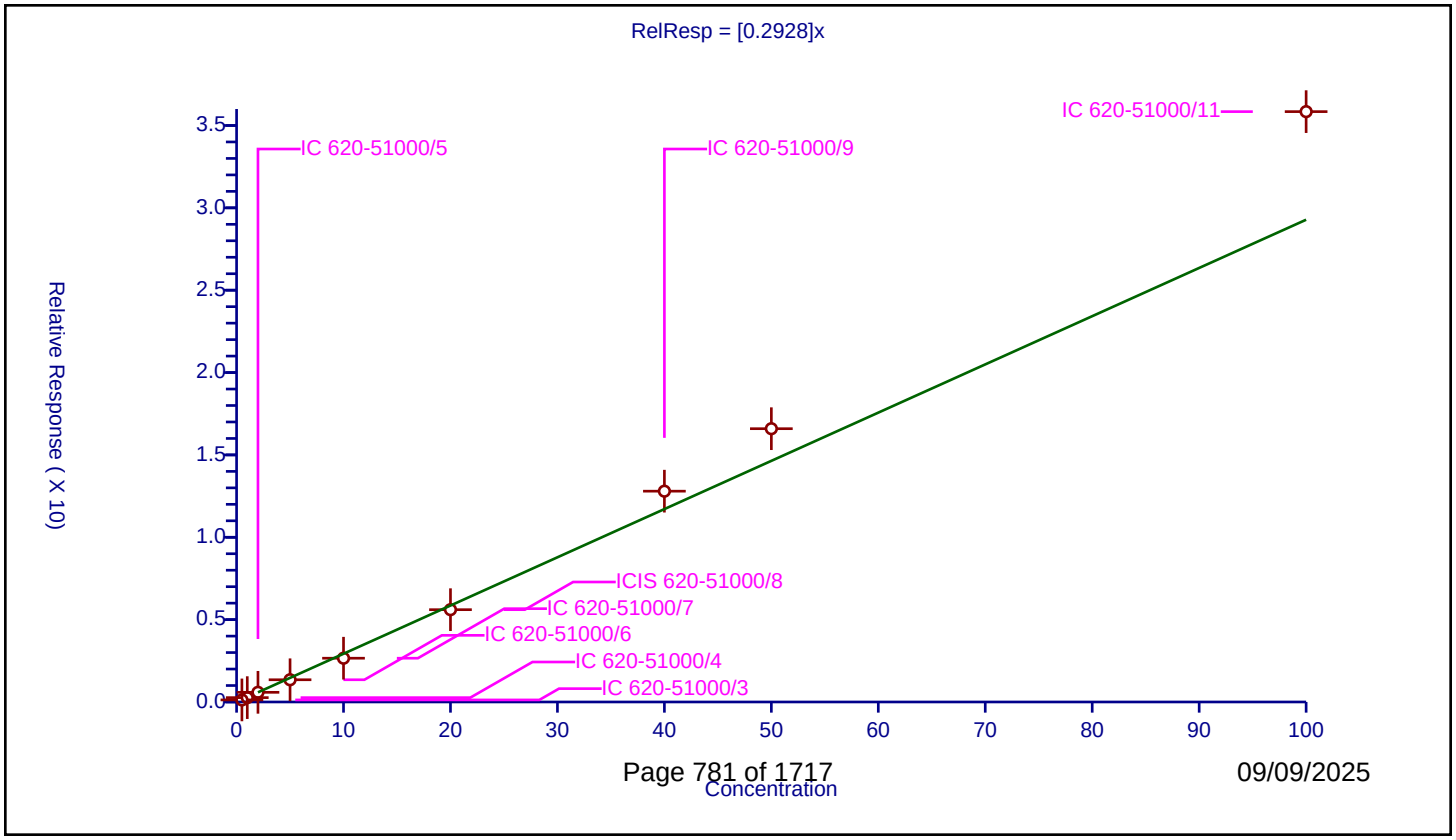
Curve Coefficients

Intercept:	0
Slope:	0.2928

Error Coefficients

Relative Standard Deviation:	12.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.125087	50.0	1027681.0	0.250175	Y
2	IC 620-51000/4	1.0	0.265052	50.0	1013386.0	0.265052	Y
3	IC 620-51000/5	2.0	0.587484	50.0	1015943.0	0.293742	Y
4	IC 620-51000/6	5.0	1.349252	50.0	1008077.0	0.26985	Y
5	IC 620-51000/7	10.0	2.657662	50.0	999732.0	0.265766	Y
6	ICIS 620-51000/8	20.0	5.604719	50.0	955195.0	0.280236	Y
7	IC 620-51000/9	40.0	12.798434	50.0	1041311.0	0.319961	Y
8	IC 620-51000/10	50.0	16.591278	50.0	1083723.0	0.331826	Y
9	IC 620-51000/11	100.0	35.841231	50.0	1099739.0	0.358412	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

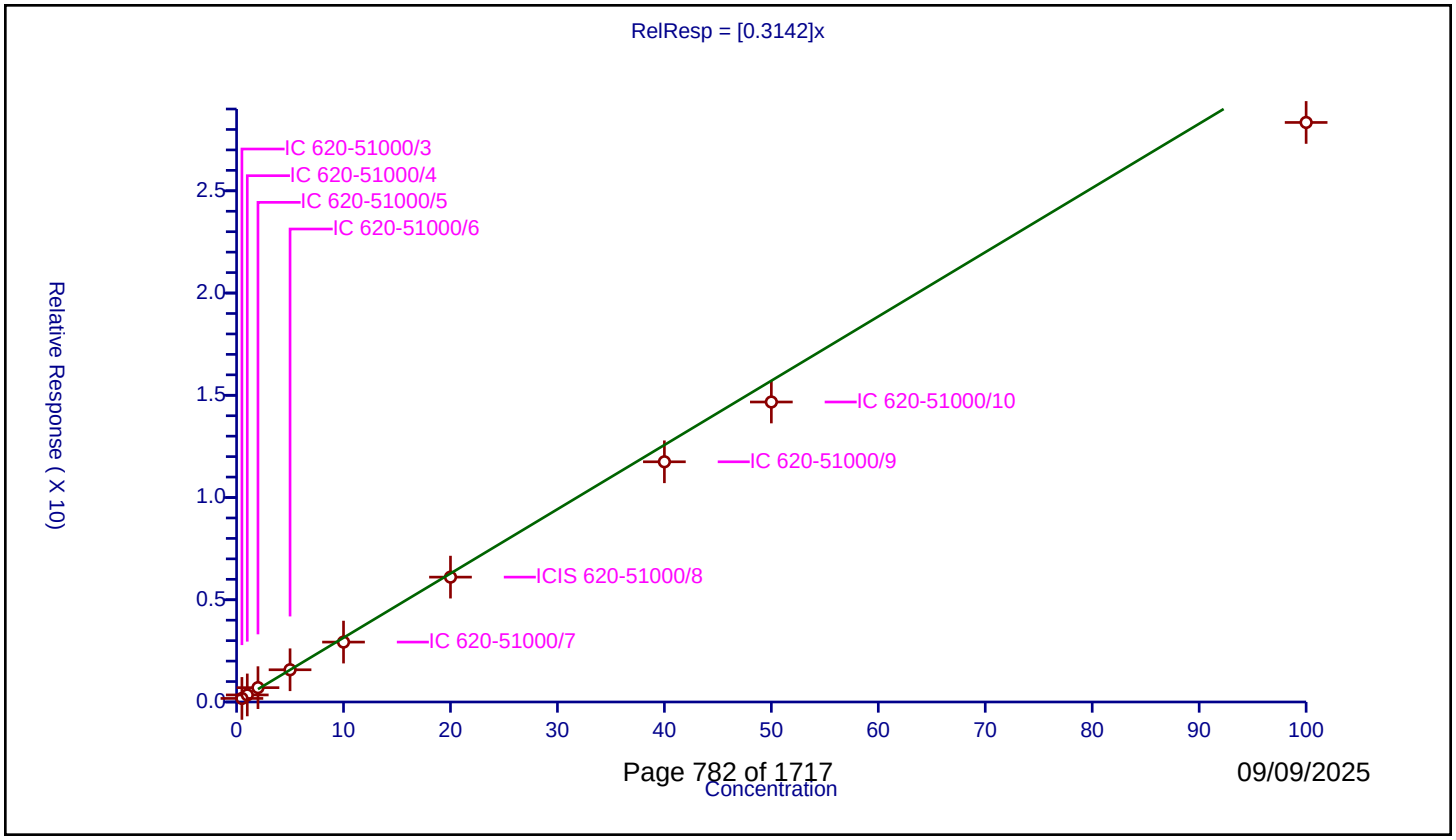
Curve Coefficients

Intercept:	0
Slope:	0.3142

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.173984	50.0	1027681.0	0.347968	Y
2	IC 620-51000/4	1.0	0.345426	50.0	1013386.0	0.345426	Y
3	IC 620-51000/5	2.0	0.701171	50.0	1015943.0	0.350586	Y
4	IC 620-51000/6	5.0	1.576516	50.0	1008077.0	0.315303	Y
5	IC 620-51000/7	10.0	2.929285	50.0	999732.0	0.292929	Y
6	ICIS 620-51000/8	20.0	6.106607	50.0	955195.0	0.30533	Y
7	IC 620-51000/9	40.0	11.746875	50.0	1041311.0	0.293672	Y
8	IC 620-51000/10	50.0	14.671231	50.0	1083723.0	0.293425	Y
9	IC 620-51000/11	100.0	28.343225	50.0	1099739.0	0.283432	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

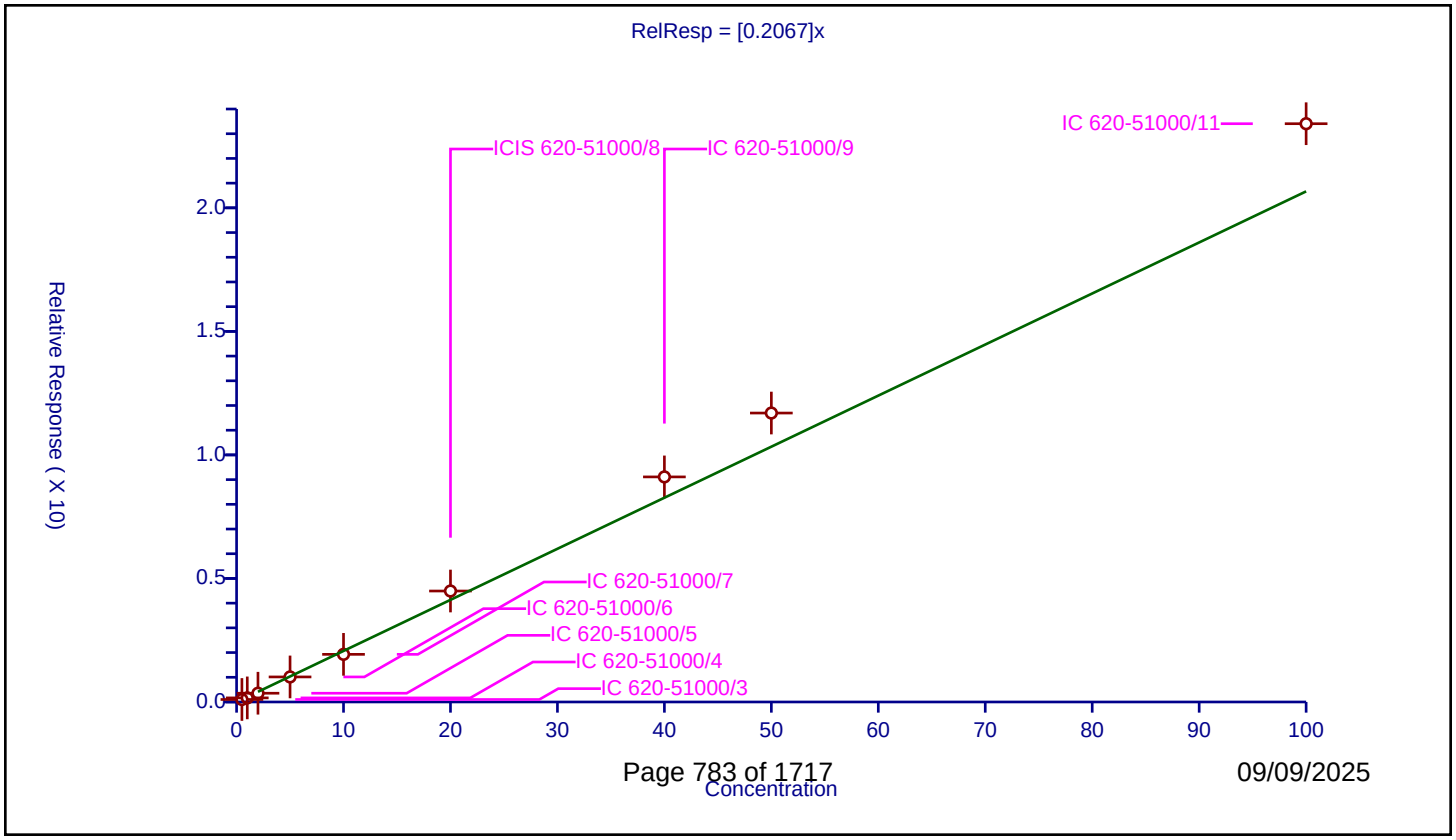
Curve Coefficients

Intercept:	0
Slope:	0.2067

Error Coefficients

Relative Standard Deviation:	12.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.100566	50.0	1027681.0	0.201132	Y
2	IC 620-51000/4	1.0	0.165534	50.0	1013386.0	0.165534	Y
3	IC 620-51000/5	2.0	0.354843	50.0	1015943.0	0.177421	Y
4	IC 620-51000/6	5.0	1.013861	50.0	1008077.0	0.202772	Y
5	IC 620-51000/7	10.0	1.928417	50.0	999732.0	0.192842	Y
6	ICIS 620-51000/8	20.0	4.49123	50.0	955195.0	0.224561	Y
7	IC 620-51000/9	40.0	9.10943	50.0	1041311.0	0.227736	Y
8	IC 620-51000/10	50.0	11.694594	50.0	1083723.0	0.233892	Y
9	IC 620-51000/11	100.0	23.405826	50.0	1099739.0	0.234058	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

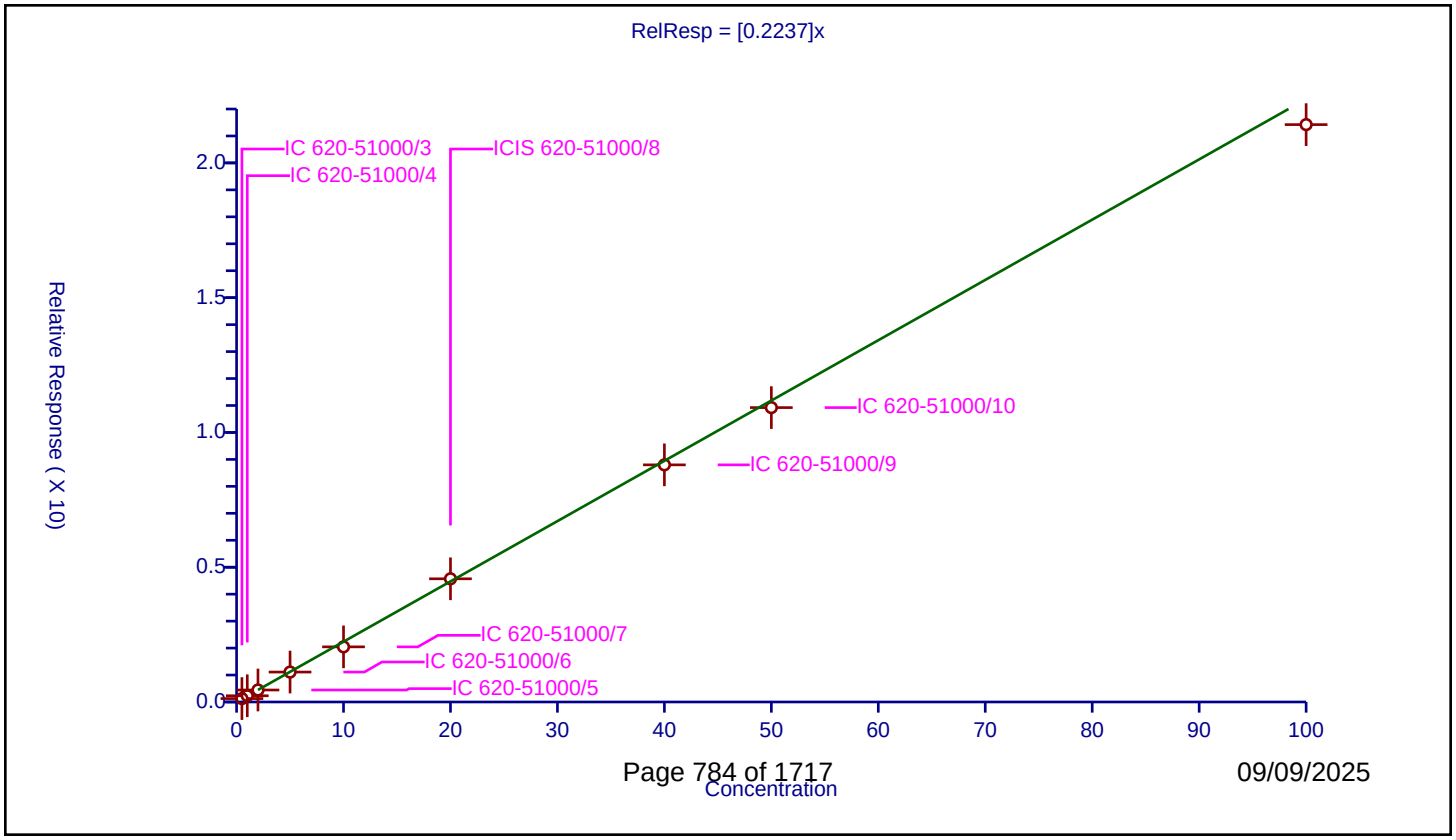
Curve Coefficients

Intercept:	0
Slope:	0.2237

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.126012	50.0	1027681.0	0.252024	Y
2	IC 620-51000/4	1.0	0.230761	50.0	1013386.0	0.230761	Y
3	IC 620-51000/5	2.0	0.445104	50.0	1015943.0	0.222552	Y
4	IC 620-51000/6	5.0	1.110778	50.0	1008077.0	0.222156	Y
5	IC 620-51000/7	10.0	2.045648	50.0	999732.0	0.204565	Y
6	ICIS 620-51000/8	20.0	4.570166	50.0	955195.0	0.228508	Y
7	IC 620-51000/9	40.0	8.797996	50.0	1041311.0	0.21995	Y
8	IC 620-51000/10	50.0	10.92161	50.0	1083723.0	0.218432	Y
9	IC 620-51000/11	100.0	21.420901	50.0	1099739.0	0.214209	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

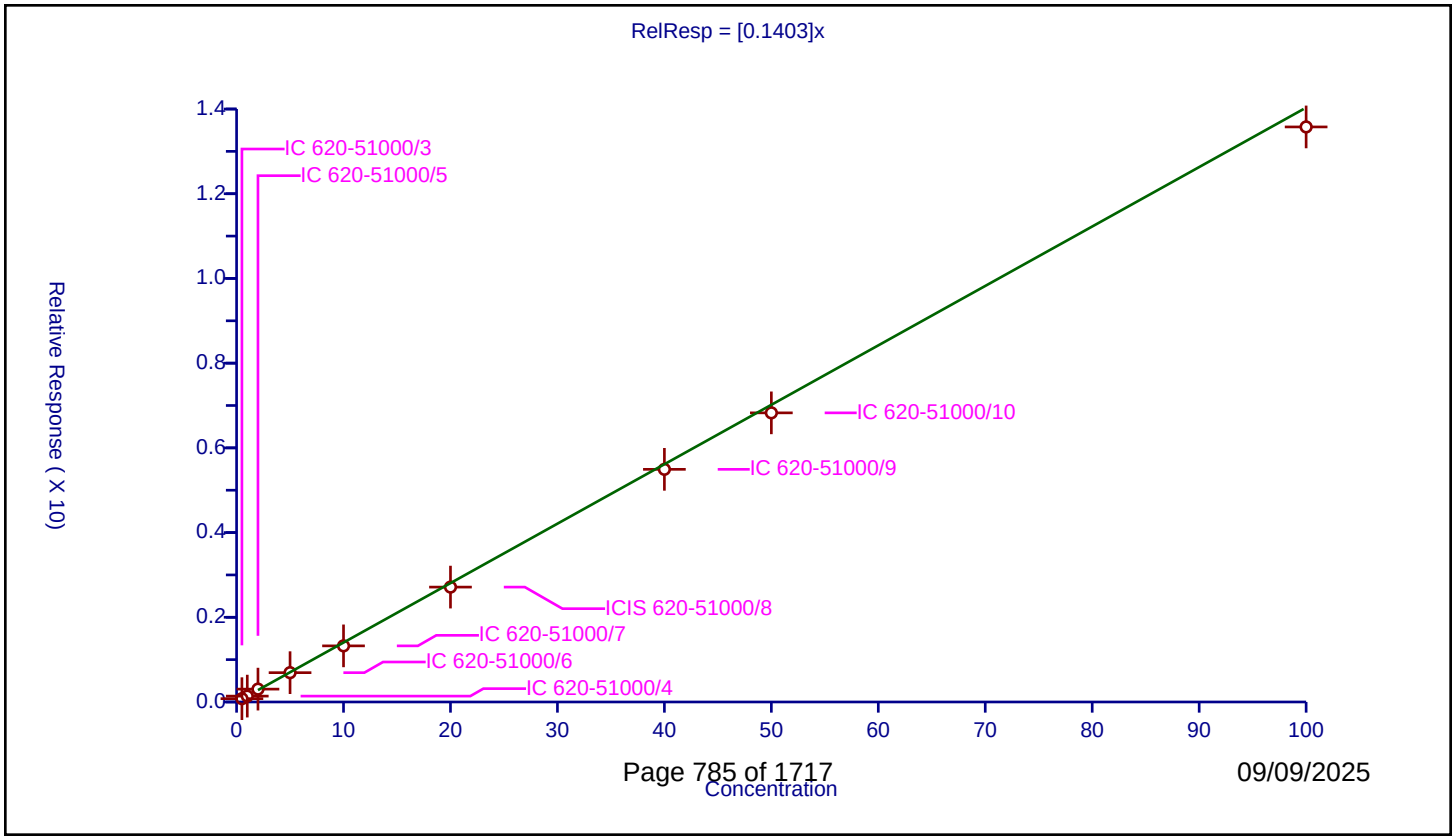
Curve Coefficients

Intercept:	0
Slope:	0.1403

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.078088	50.0	1027681.0	0.156177	Y
2	IC 620-51000/4	1.0	0.138545	50.0	1013386.0	0.138545	Y
3	IC 620-51000/5	2.0	0.304003	50.0	1015943.0	0.152002	Y
4	IC 620-51000/6	5.0	0.692259	50.0	1008077.0	0.138452	Y
5	IC 620-51000/7	10.0	1.324955	50.0	999732.0	0.132496	Y
6	ICIS 620-51000/8	20.0	2.712849	50.0	955195.0	0.135642	Y
7	IC 620-51000/9	40.0	5.492932	50.0	1041311.0	0.137323	Y
8	IC 620-51000/10	50.0	6.826329	50.0	1083723.0	0.136527	Y
9	IC 620-51000/11	100.0	13.576903	50.0	1099739.0	0.135769	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

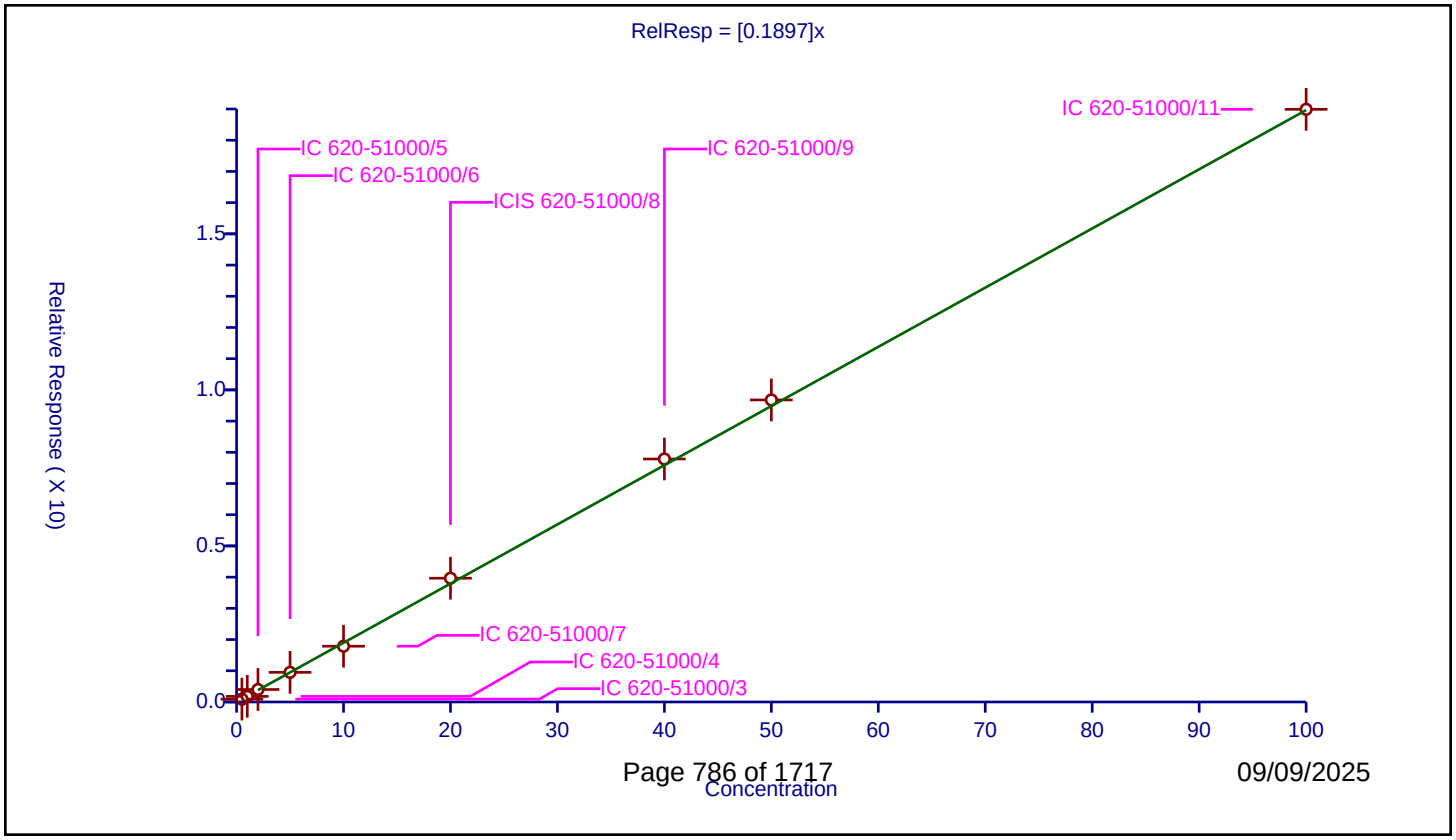
Curve Coefficients

Intercept:	0
Slope:	0.1897

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.090933	50.0	1027681.0	0.181866	Y
2	IC 620-51000/4	1.0	0.179941	50.0	1013386.0	0.179941	Y
3	IC 620-51000/5	2.0	0.400121	50.0	1015943.0	0.20006	Y
4	IC 620-51000/6	5.0	0.949531	50.0	1008077.0	0.189906	Y
5	IC 620-51000/7	10.0	1.786779	50.0	999732.0	0.178678	Y
6	ICIS 620-51000/8	20.0	3.966049	50.0	955195.0	0.198302	Y
7	IC 620-51000/9	40.0	7.786002	50.0	1041311.0	0.19465	Y
8	IC 620-51000/10	50.0	9.677796	50.0	1083723.0	0.193556	Y
9	IC 620-51000/11	100.0	18.98946	50.0	1099739.0	0.189895	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

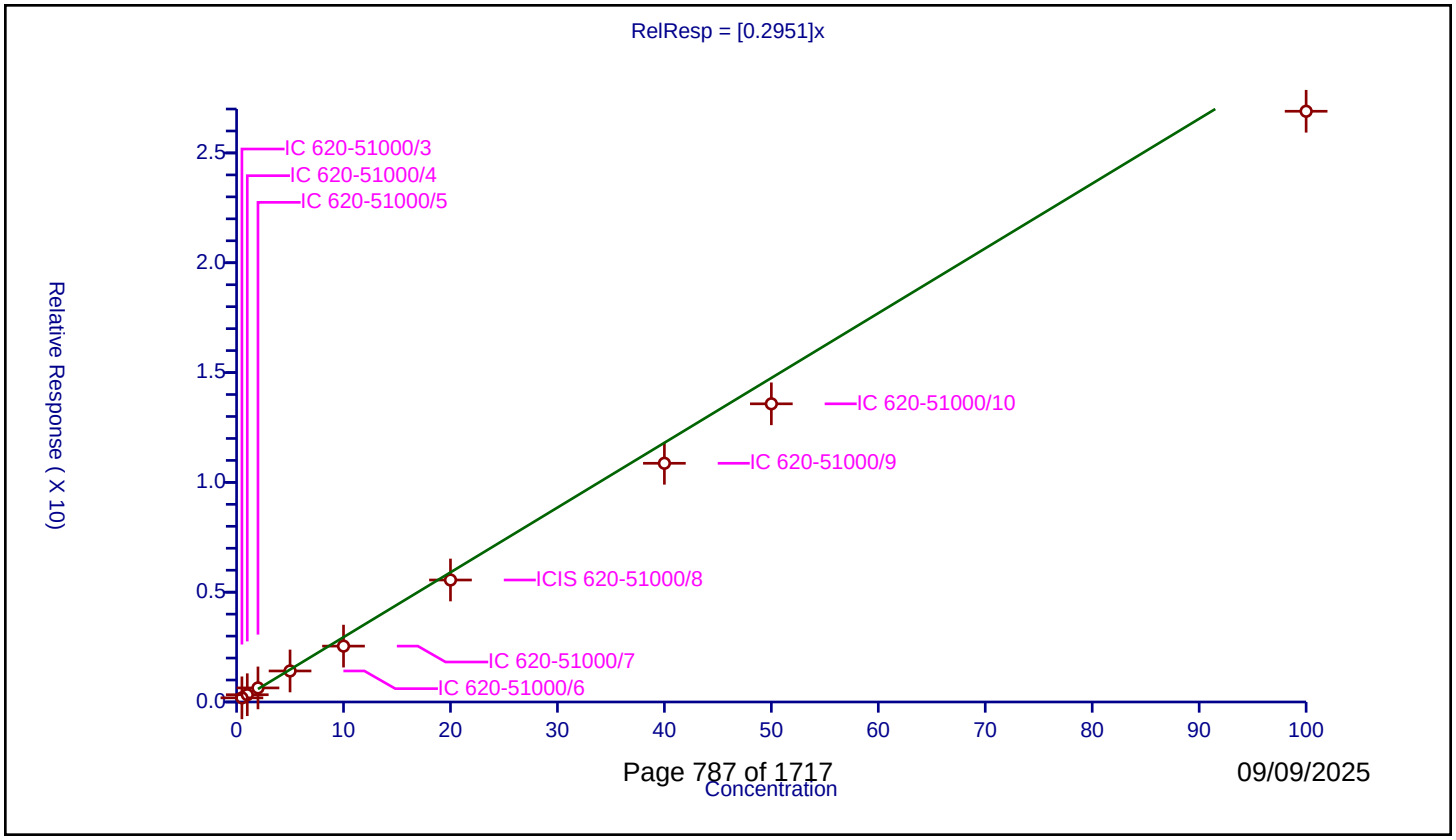
Curve Coefficients

Intercept:	0
Slope:	0.2951

Error Coefficients

Relative Standard Deviation:	13.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.188823	50.0	1027681.0	0.377646	Y
2	IC 620-51000/4	1.0	0.33097	50.0	1013386.0	0.33097	Y
3	IC 620-51000/5	2.0	0.639997	50.0	1015943.0	0.319998	Y
4	IC 620-51000/6	5.0	1.41264	50.0	1008077.0	0.282528	Y
5	IC 620-51000/7	10.0	2.544332	50.0	999732.0	0.254433	Y
6	ICIS 620-51000/8	20.0	5.55473	50.0	955195.0	0.277736	Y
7	IC 620-51000/9	40.0	10.869039	50.0	1041311.0	0.271726	Y
8	IC 620-51000/10	50.0	13.577316	50.0	1083723.0	0.271546	Y
9	IC 620-51000/11	100.0	26.897791	50.0	1099739.0	0.268978	Y



Calibration / 1,4-Dioxane

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

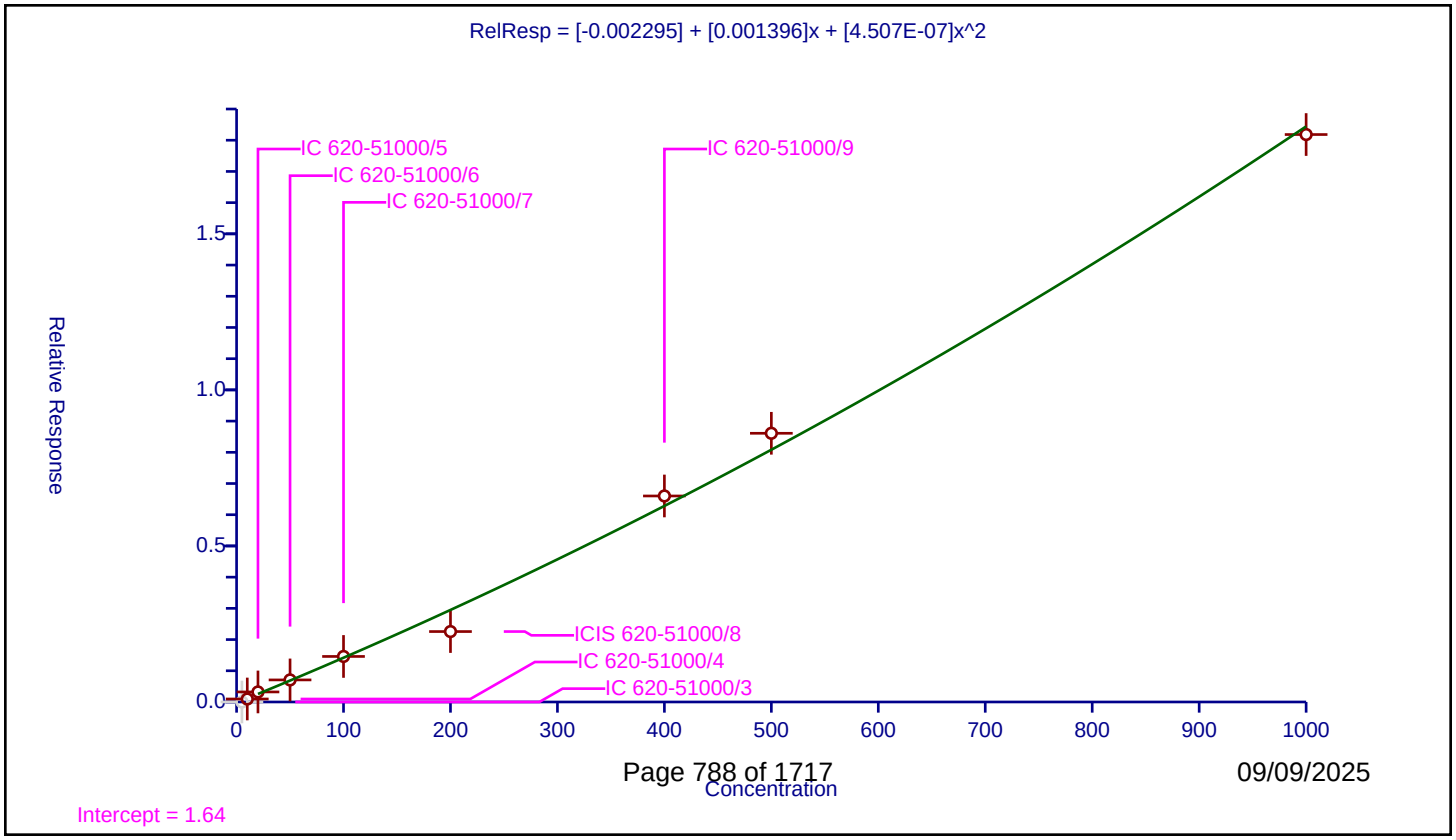
Curve Coefficients

Intercept:	-0.002295
Slope:	0.001396
Second Order:	4.507E-07

Error Coefficients

Relative Standard Deviation:	16.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	5.0	0.0	50.0	1027681.0	0.0	N
2	IC 620-51000/4	10.0	0.009572	50.0	1013386.0	0.000957	Y
3	IC 620-51000/5	20.0	0.032138	50.0	1015943.0	0.001607	Y
4	IC 620-51000/6	50.0	0.070729	50.0	1008077.0	0.001415	Y
5	IC 620-51000/7	100.0	0.145889	50.0	999732.0	0.001459	Y
6	ICIS 620-51000/8	200.0	0.225661	50.0	955195.0	0.001128	Y
7	IC 620-51000/9	400.0	0.660129	50.0	1041311.0	0.00165	Y
8	IC 620-51000/10	500.0	0.861013	50.0	1083723.0	0.001722	Y
9	IC 620-51000/11	1000.0	1.818204	50.0	1099739.0	0.001818	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

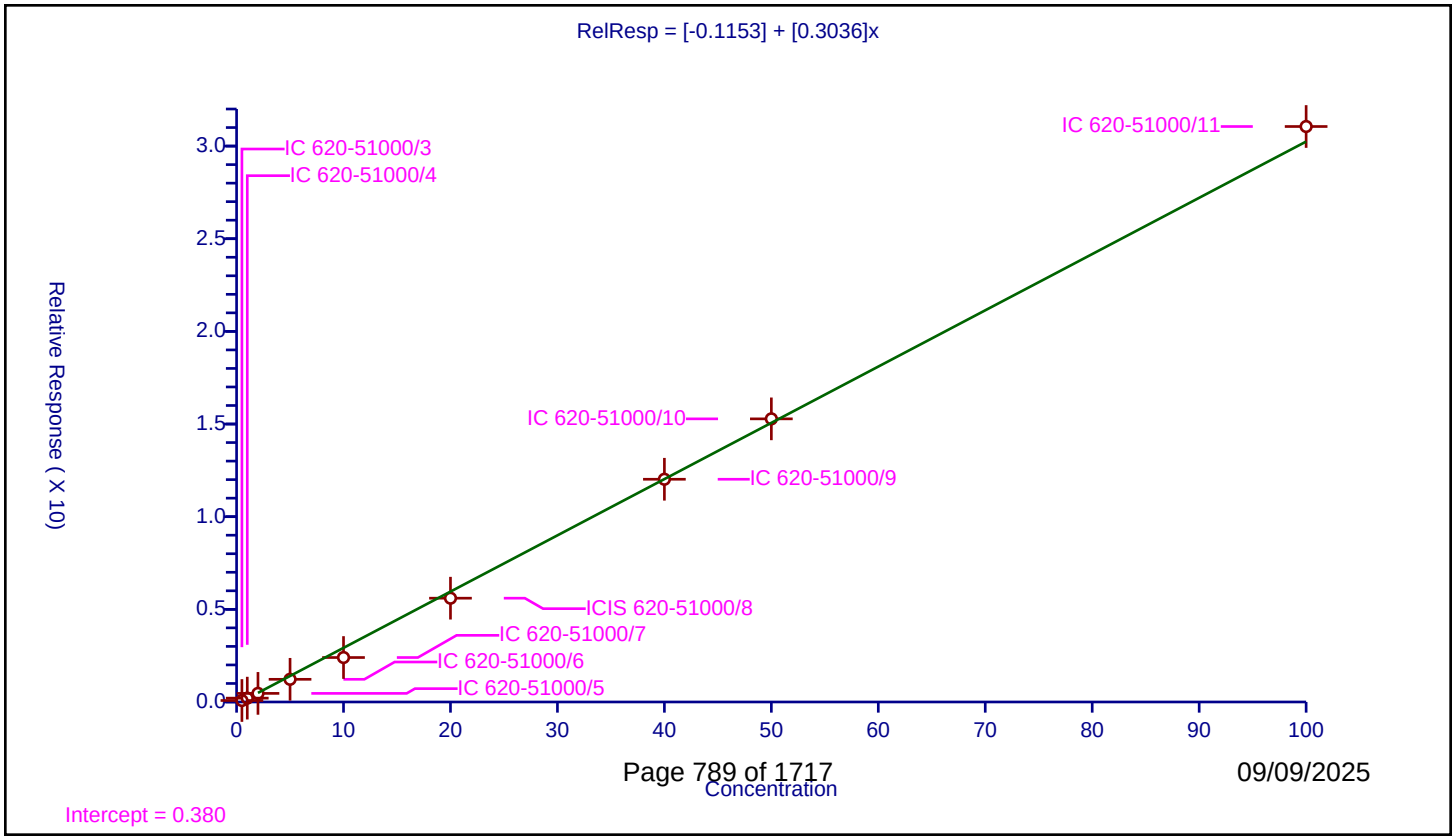
Curve Coefficients

Intercept:	-0.1153
Slope:	0.3036

Error Coefficients

Relative Standard Deviation:	14.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.080083	50.0	1027681.0	0.160166	Y
2	IC 620-51000/4	1.0	0.20841	50.0	1013386.0	0.20841	Y
3	IC 620-51000/5	2.0	0.464052	50.0	1015943.0	0.232026	Y
4	IC 620-51000/6	5.0	1.224063	50.0	1008077.0	0.244813	Y
5	IC 620-51000/7	10.0	2.399893	50.0	999732.0	0.239989	Y
6	ICIS 620-51000/8	20.0	5.60116	50.0	955195.0	0.280058	Y
7	IC 620-51000/9	40.0	12.019224	50.0	1041311.0	0.300481	Y
8	IC 620-51000/10	50.0	15.279642	50.0	1083723.0	0.305593	Y
9	IC 620-51000/11	100.0	31.05555	50.0	1099739.0	0.310556	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

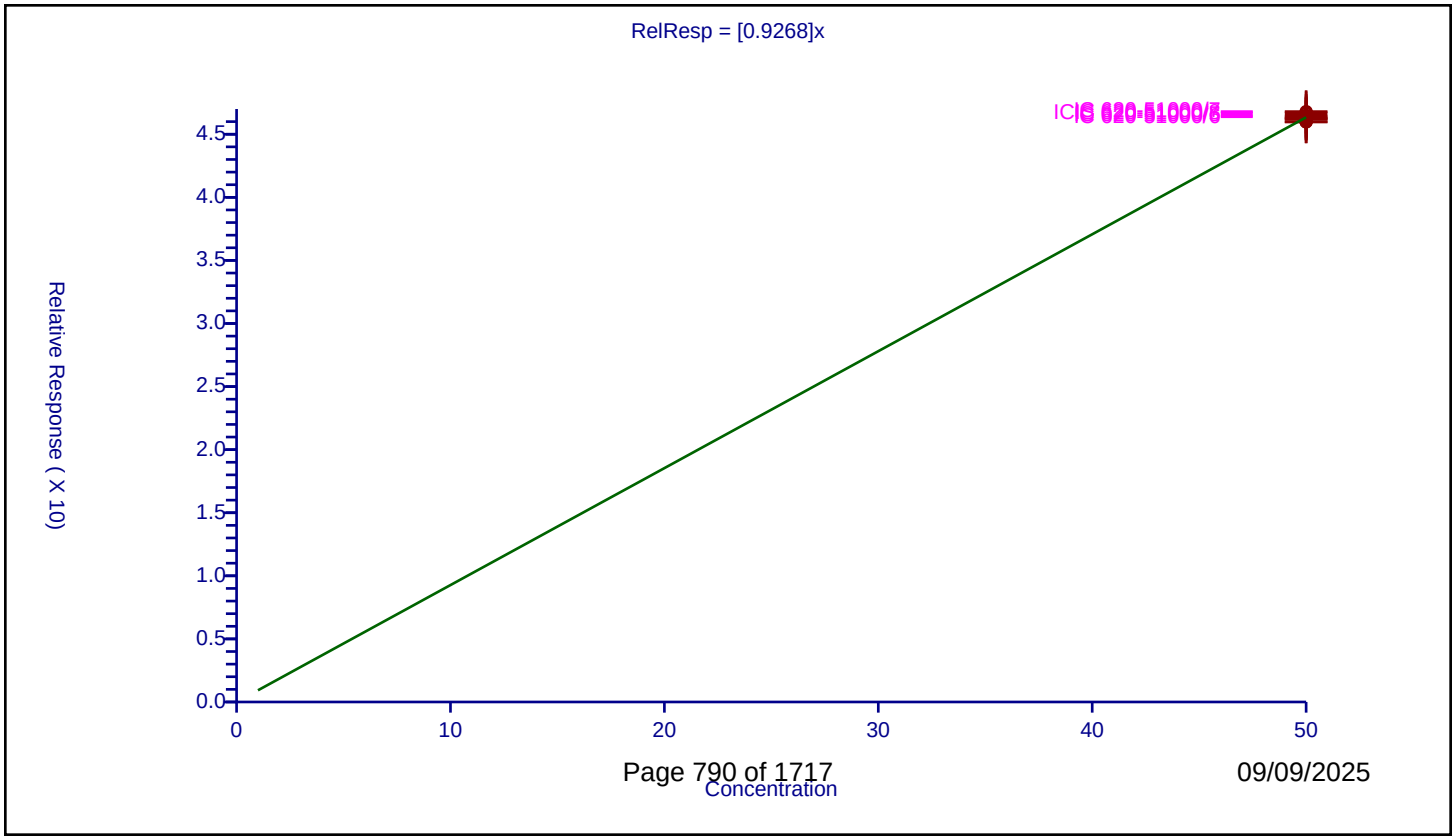
Curve Coefficients

Intercept:	0
Slope:	0.9268

Error Coefficients

Relative Standard Deviation:	0.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	50.0	45.993698	50.0	1027681.0	0.919874	Y
2	IC 620-51000/4	50.0	45.972463	50.0	1013386.0	0.919449	Y
3	IC 620-51000/5	50.0	46.498622	50.0	1015943.0	0.929972	Y
4	IC 620-51000/6	50.0	46.387181	50.0	1008077.0	0.927744	Y
5	IC 620-51000/7	50.0	46.794041	50.0	999732.0	0.935881	Y
6	ICIS 620-51000/8	50.0	46.704914	50.0	955195.0	0.934098	Y
7	IC 620-51000/9	50.0	46.22303	50.0	1041311.0	0.924461	Y
8	IC 620-51000/10	50.0	46.280738	50.0	1083723.0	0.925615	Y
9	IC 620-51000/11	50.0	46.19387	50.0	1099739.0	0.923877	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

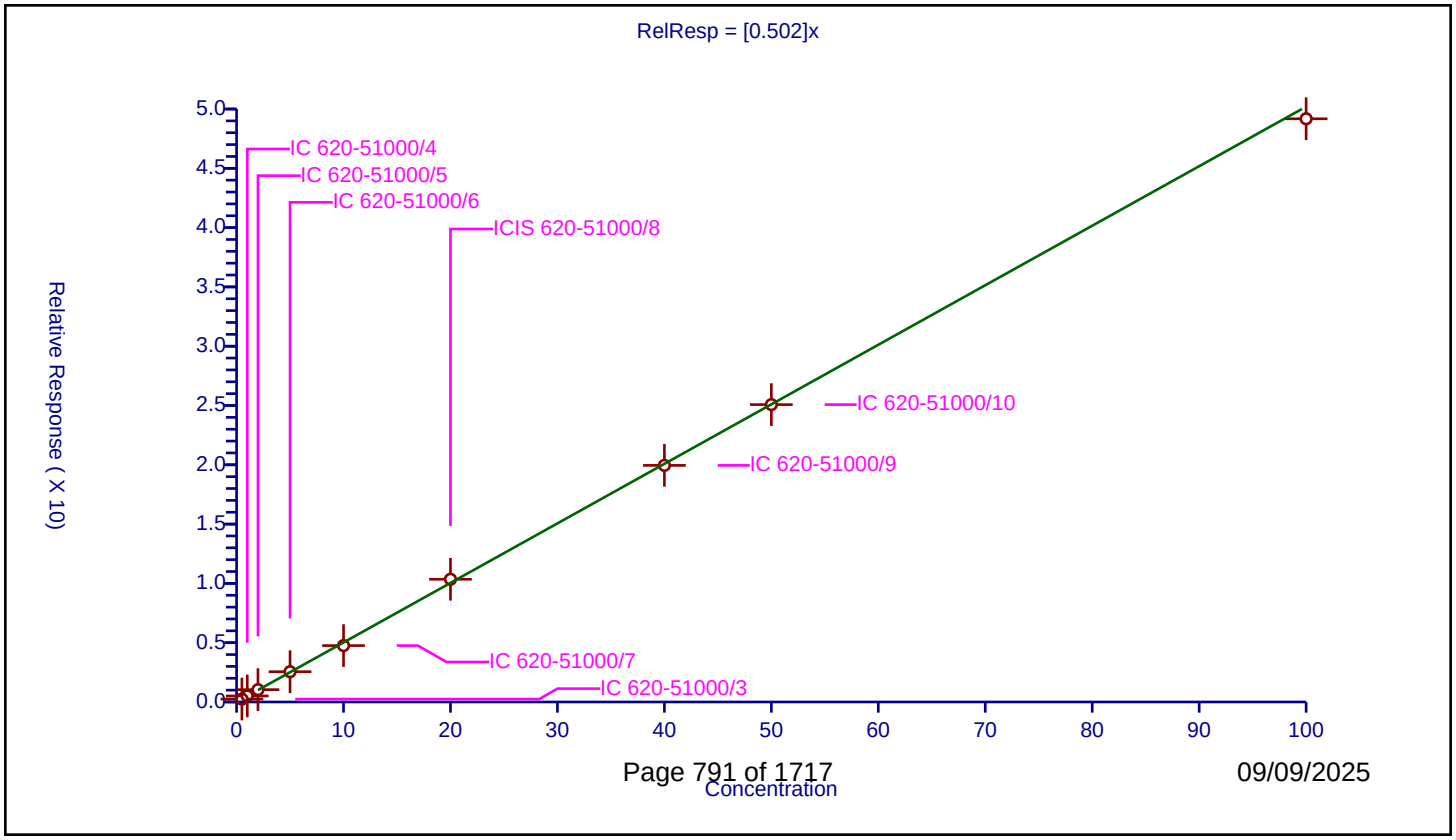
Curve Coefficients

Intercept:	0
Slope:	0.502

Error Coefficients

Relative Standard Deviation:	2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.246039	50.0	1027681.0	0.492079	Y
2	IC 620-51000/4	1.0	0.509677	50.0	1013386.0	0.509677	Y
3	IC 620-51000/5	2.0	1.041003	50.0	1015943.0	0.520502	Y
4	IC 620-51000/6	5.0	2.552732	50.0	1008077.0	0.510546	Y
5	IC 620-51000/7	10.0	4.755124	50.0	999732.0	0.475512	Y
6	ICIS 620-51000/8	20.0	10.348306	50.0	955195.0	0.517415	Y
7	IC 620-51000/9	40.0	19.950476	50.0	1041311.0	0.498762	Y
8	IC 620-51000/10	50.0	25.075227	50.0	1083723.0	0.501505	Y
9	IC 620-51000/11	100.0	49.177123	50.0	1099739.0	0.491771	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

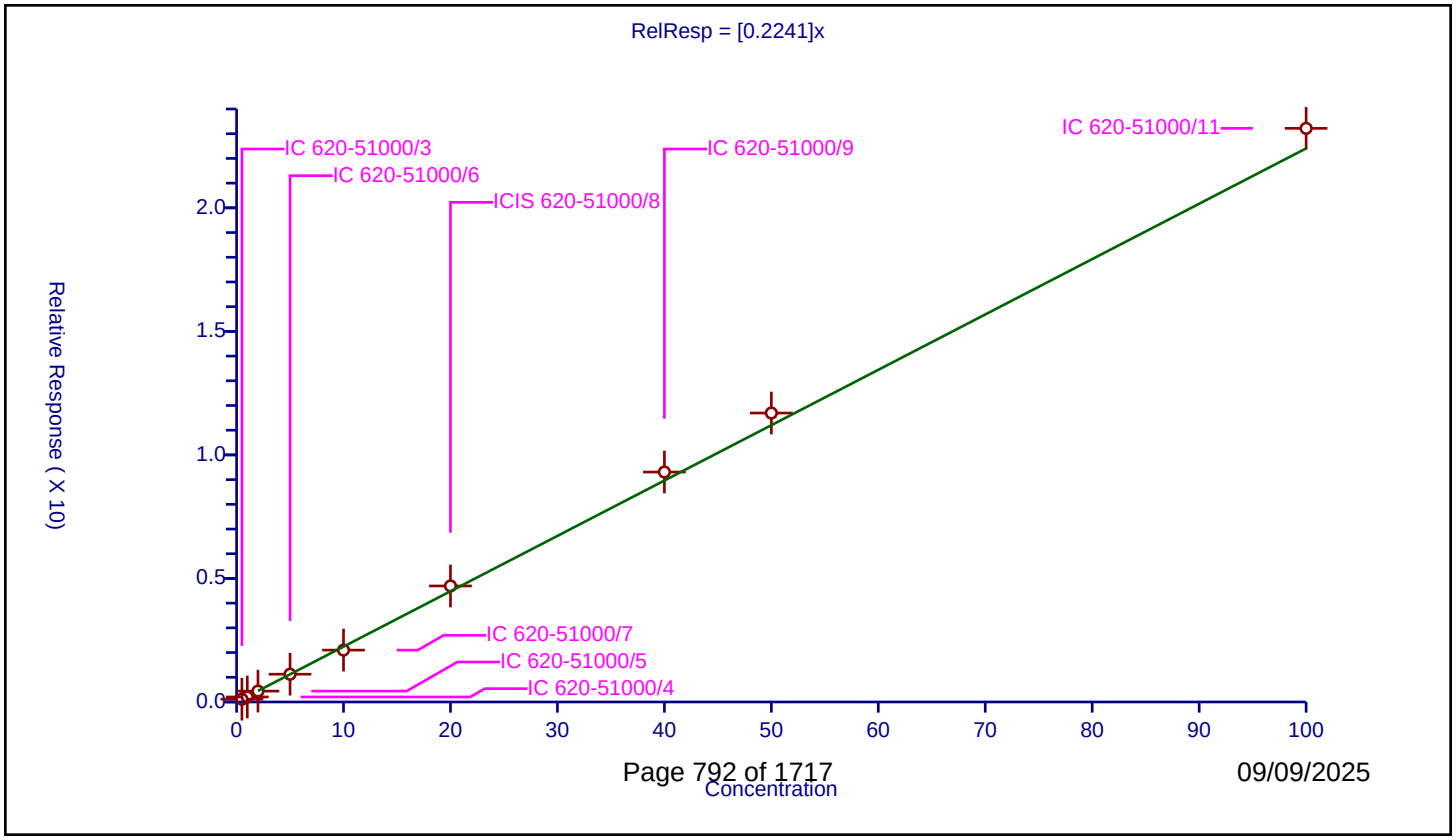
Curve Coefficients

Intercept:	0
Slope:	0.2241

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.112389	50.0	1027681.0	0.224778	Y
2	IC 620-51000/4	1.0	0.203082	50.0	1013386.0	0.203082	Y
3	IC 620-51000/5	2.0	0.440724	50.0	1015943.0	0.220362	Y
4	IC 620-51000/6	5.0	1.124071	50.0	1008077.0	0.224814	Y
5	IC 620-51000/7	10.0	2.100163	50.0	999732.0	0.210016	Y
6	ICIS 620-51000/8	20.0	4.695167	50.0	955195.0	0.234758	Y
7	IC 620-51000/9	40.0	9.307066	50.0	1041311.0	0.232677	Y
8	IC 620-51000/10	50.0	11.695101	50.0	1083723.0	0.233902	Y
9	IC 620-51000/11	100.0	23.217463	50.0	1099739.0	0.232175	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

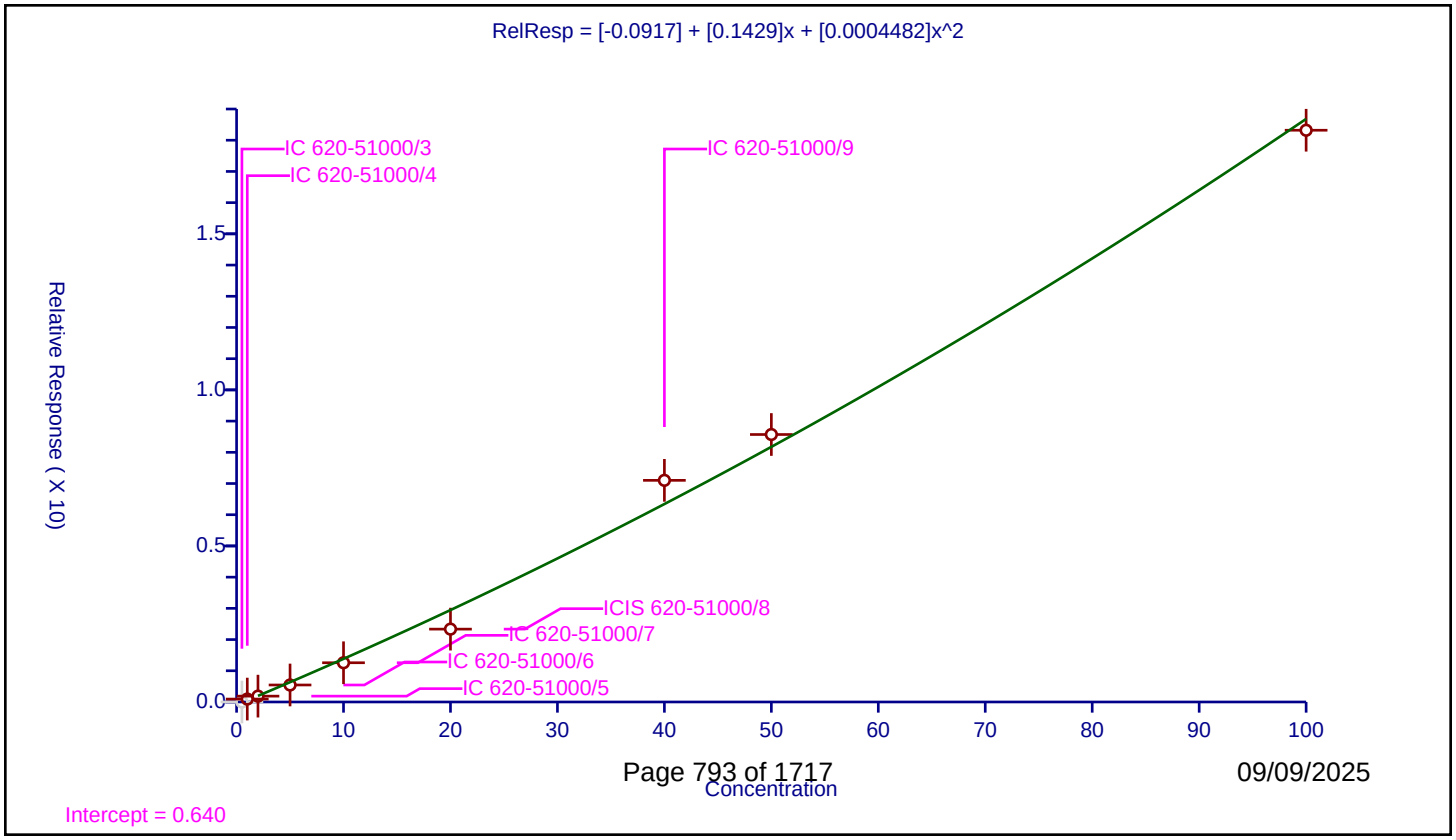
Curve Coefficients

Intercept:	-0.0917
Slope:	0.1429
Second Order:	0.0004482

Error Coefficients

Relative Standard Deviation:	17.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.0	50.0	1027681.0	0.0	N
2	IC 620-51000/4	1.0	0.093794	50.0	1013386.0	0.093794	Y
3	IC 620-51000/5	2.0	0.187166	50.0	1015943.0	0.093583	Y
4	IC 620-51000/6	5.0	0.544452	50.0	1008077.0	0.10889	Y
5	IC 620-51000/7	10.0	1.256937	50.0	999732.0	0.125694	Y
6	ICIS 620-51000/8	20.0	2.334916	50.0	955195.0	0.116746	Y
7	IC 620-51000/9	40.0	7.101769	50.0	1041311.0	0.177544	Y
8	IC 620-51000/10	50.0	8.570871	50.0	1083723.0	0.171417	Y
9	IC 620-51000/11	100.0	18.319483	50.0	1099739.0	0.183195	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

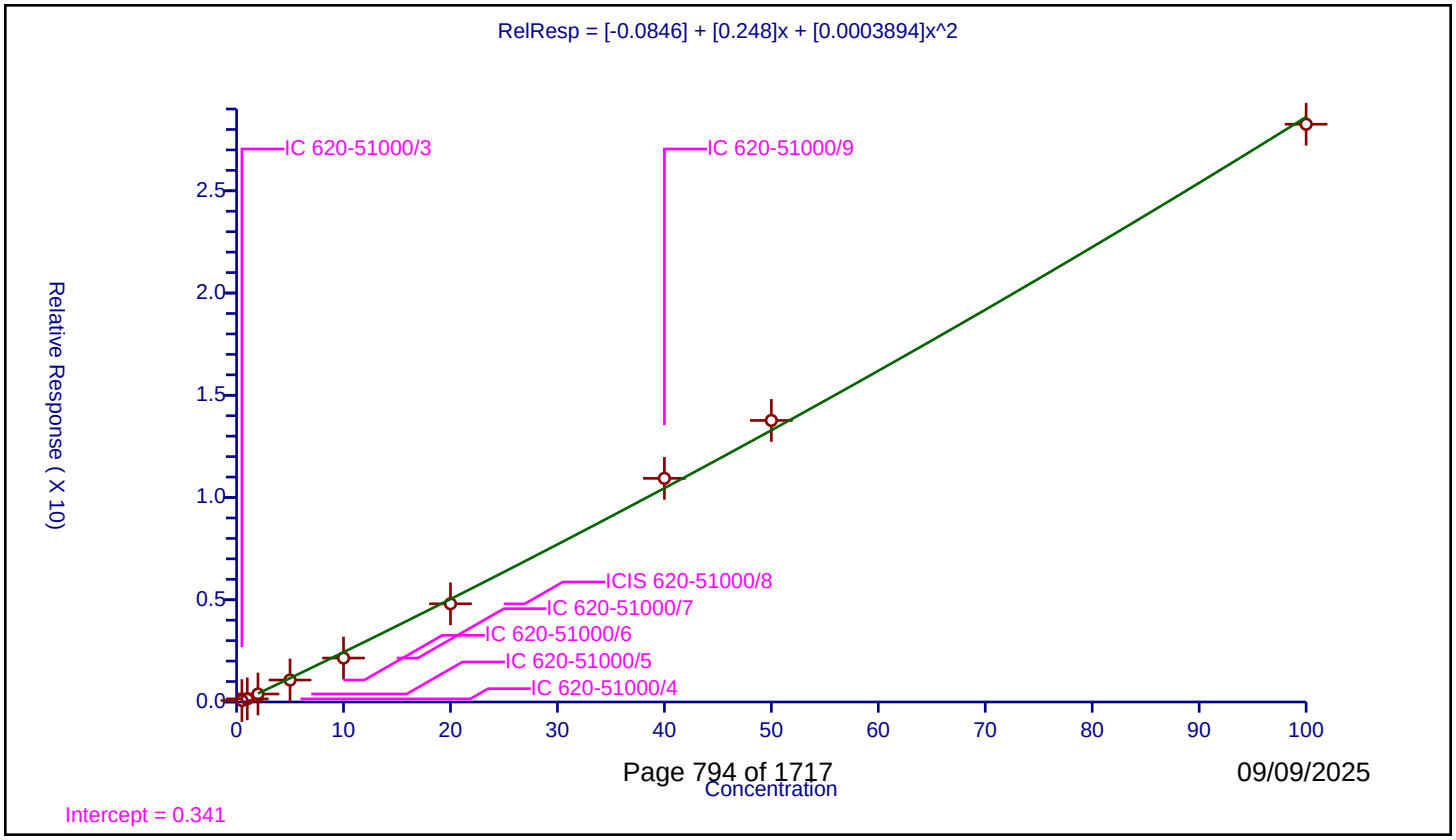
Curve Coefficients

Intercept:	-0.0846
Slope:	0.248
Second Order:	0.0003894

Error Coefficients

Relative Standard Deviation:	12.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.070742	50.0	1027681.0	0.141484	Y
2	IC 620-51000/4	1.0	0.152311	50.0	1013386.0	0.152311	Y
3	IC 620-51000/5	2.0	0.391065	50.0	1015943.0	0.195533	Y
4	IC 620-51000/6	5.0	1.074323	50.0	1008077.0	0.214865	Y
5	IC 620-51000/7	10.0	2.148526	50.0	999732.0	0.214853	Y
6	ICIS 620-51000/8	20.0	4.802266	50.0	955195.0	0.240113	Y
7	IC 620-51000/9	40.0	10.937126	50.0	1041311.0	0.273428	Y
8	IC 620-51000/10	50.0	13.769386	50.0	1083723.0	0.275388	Y
9	IC 620-51000/11	100.0	28.255295	50.0	1099739.0	0.282553	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

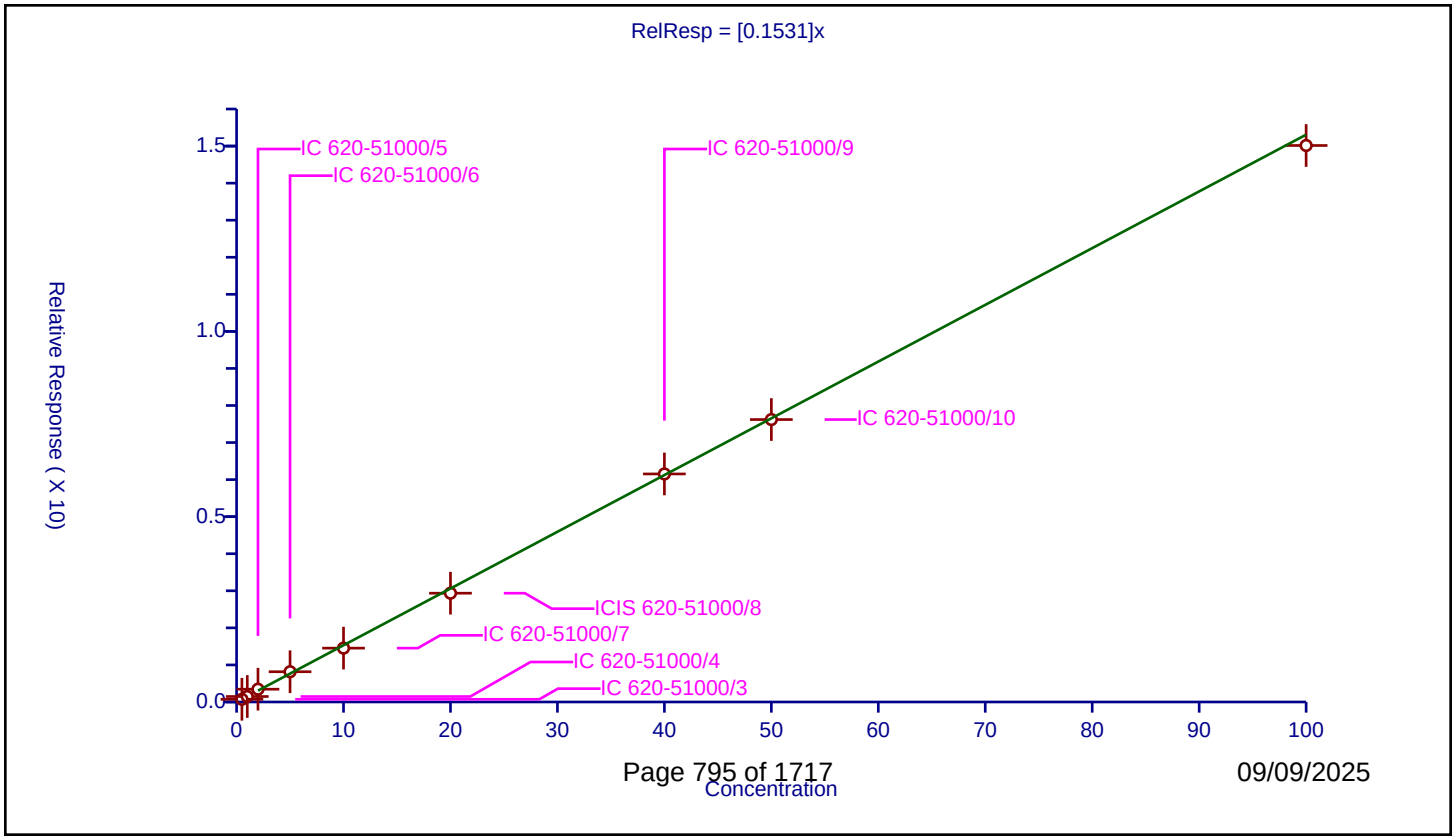
Curve Coefficients

Intercept:	0
Slope:	0.1531

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.072785	50.0	1027681.0	0.14557	Y
2	IC 620-51000/4	1.0	0.147673	50.0	1013386.0	0.147673	Y
3	IC 620-51000/5	2.0	0.345344	50.0	1015943.0	0.172672	Y
4	IC 620-51000/6	5.0	0.816009	50.0	1008077.0	0.163202	Y
5	IC 620-51000/7	10.0	1.45344	50.0	999732.0	0.145344	Y
6	ICIS 620-51000/8	20.0	2.935422	50.0	955195.0	0.146771	Y
7	IC 620-51000/9	40.0	6.153061	50.0	1041311.0	0.153827	Y
8	IC 620-51000/10	50.0	7.621136	50.0	1083723.0	0.152423	Y
9	IC 620-51000/11	100.0	15.01579	50.0	1099739.0	0.150158	Y



Calibration / Ethyl methacrylate

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

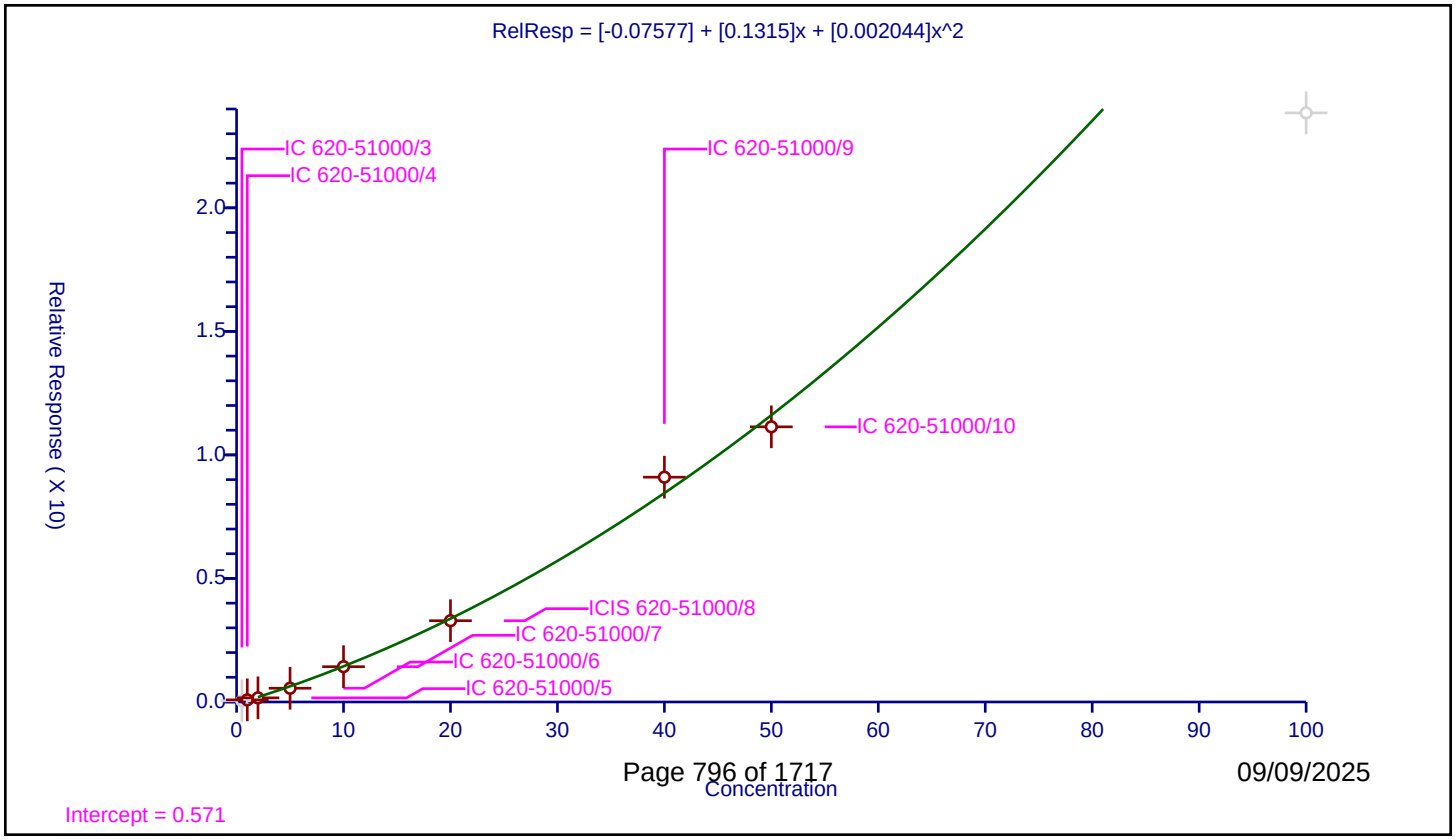
Curve Coefficients

Intercept:	-0.07577
Slope:	0.1315
Second Order:	0.002044

Error Coefficients

Relative Standard Deviation:	13.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.047729	50.0	1027681.0	0.095458	N
2	IC 620-51000/4	1.0	0.0859	50.0	1013386.0	0.0859	Y
3	IC 620-51000/5	2.0	0.167381	50.0	1015943.0	0.083691	Y
4	IC 620-51000/6	5.0	0.556704	50.0	1008077.0	0.111341	Y
5	IC 620-51000/7	10.0	1.428583	50.0	999732.0	0.142858	Y
6	ICIS 620-51000/8	20.0	3.289747	50.0	955195.0	0.164487	Y
7	IC 620-51000/9	40.0	9.098723	50.0	1041311.0	0.227468	Y
8	IC 620-51000/10	50.0	11.136979	50.0	1083723.0	0.22274	Y
9	IC 620-51000/11	100.0	23.842885	50.0	1099739.0	0.238429	N



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

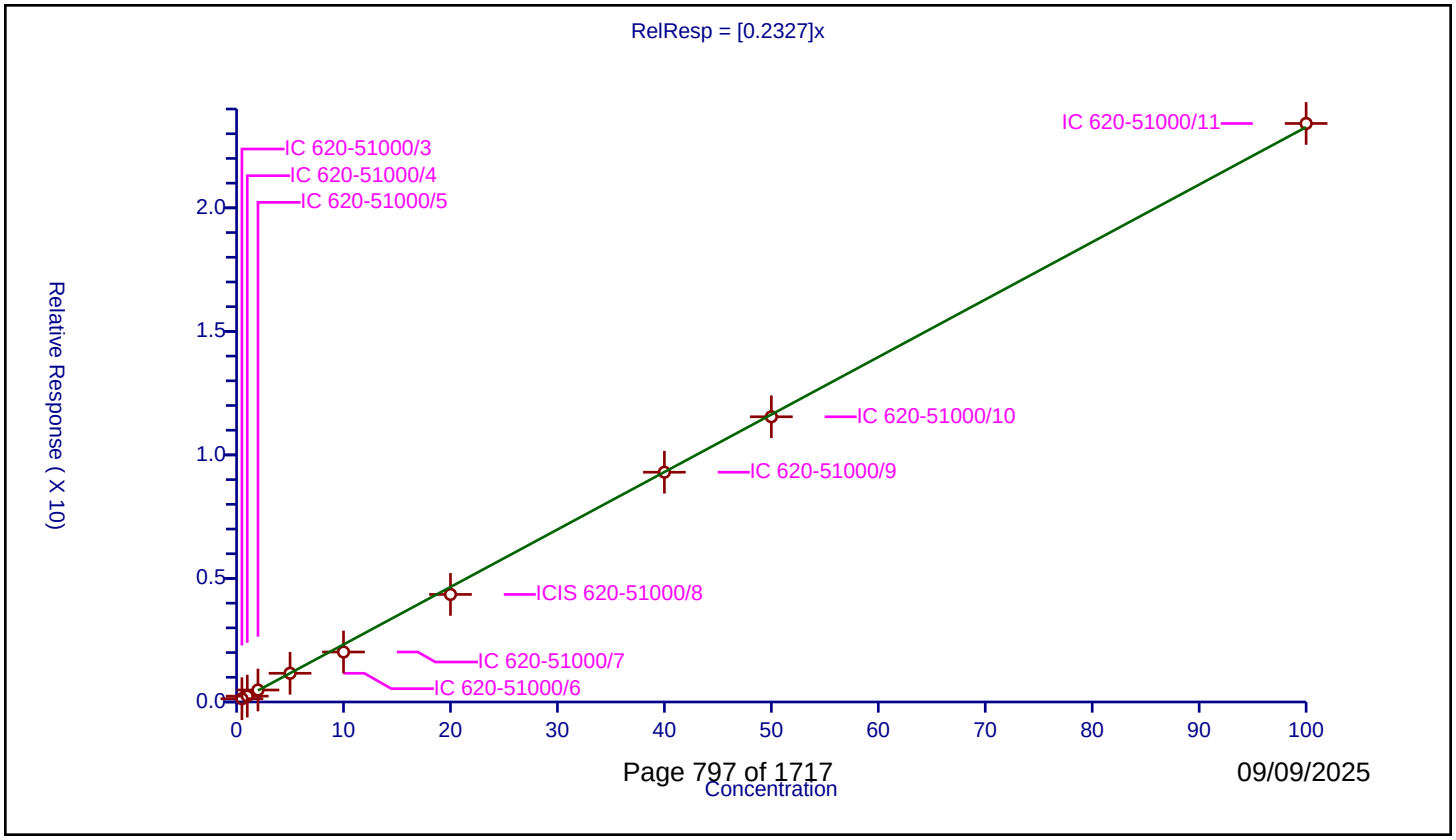
Curve Coefficients

Intercept:	0
Slope:	0.2327

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.132239	50.0	1027681.0	0.264479	Y
2	IC 620-51000/4	1.0	0.237323	50.0	1013386.0	0.237323	Y
3	IC 620-51000/5	2.0	0.484722	50.0	1015943.0	0.242361	Y
4	IC 620-51000/6	5.0	1.161816	50.0	1008077.0	0.232363	Y
5	IC 620-51000/7	10.0	2.023292	50.0	999732.0	0.202329	Y
6	ICIS 620-51000/8	20.0	4.353614	50.0	955195.0	0.217681	Y
7	IC 620-51000/9	40.0	9.299959	50.0	1041311.0	0.232499	Y
8	IC 620-51000/10	50.0	11.543817	50.0	1083723.0	0.230876	Y
9	IC 620-51000/11	100.0	23.414465	50.0	1099739.0	0.234145	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

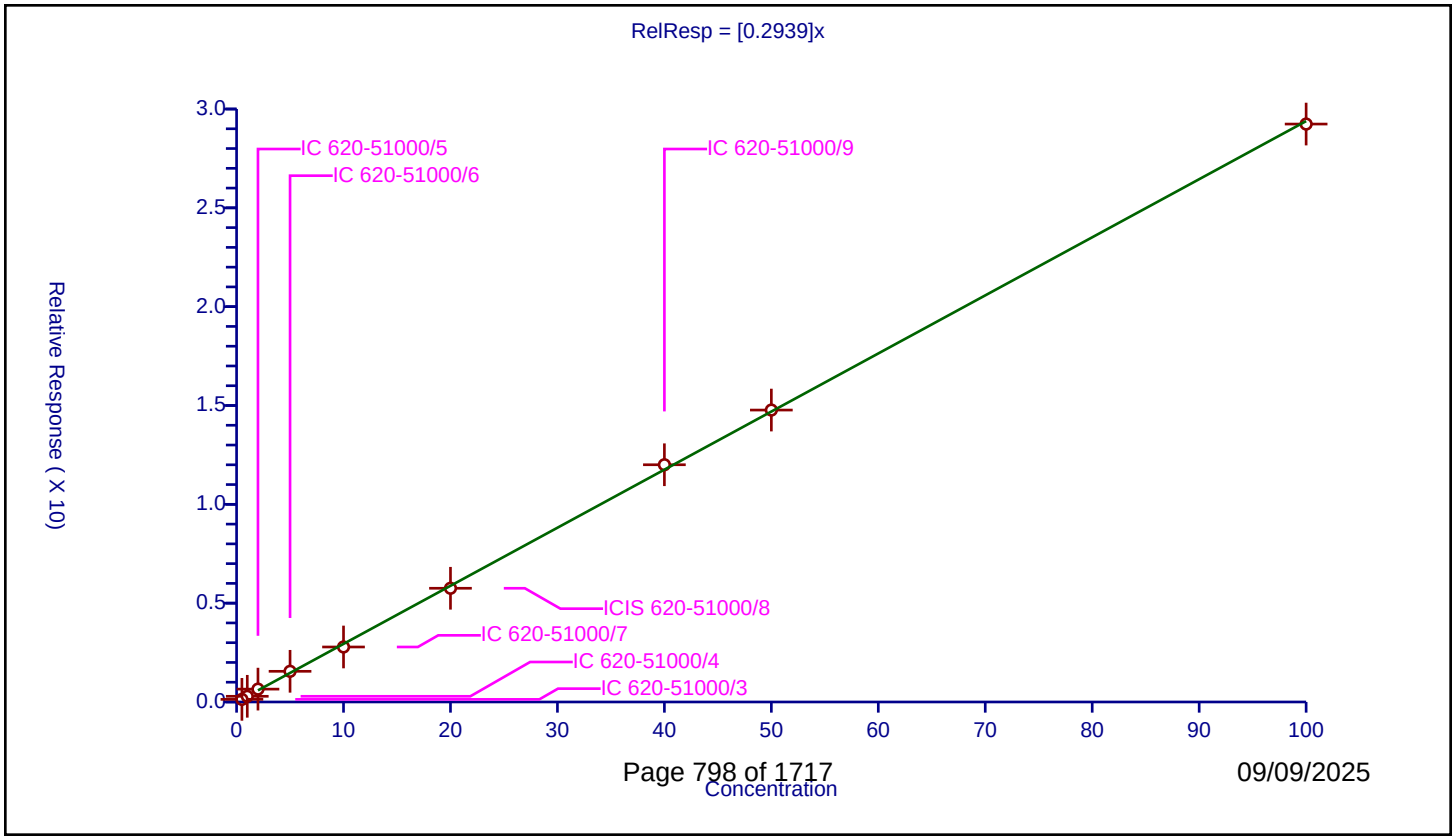
Curve Coefficients

Intercept:	0
Slope:	0.2939

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.133067	50.0	1027681.0	0.266133	Y
2	IC 620-51000/4	1.0	0.288636	50.0	1013386.0	0.288636	Y
3	IC 620-51000/5	2.0	0.651611	50.0	1015943.0	0.325806	Y
4	IC 620-51000/6	5.0	1.552114	50.0	1008077.0	0.310423	Y
5	IC 620-51000/7	10.0	2.783046	50.0	999732.0	0.278305	Y
6	ICIS 620-51000/8	20.0	5.754008	50.0	955195.0	0.2877	Y
7	IC 620-51000/9	40.0	12.003042	50.0	1041311.0	0.300076	Y
8	IC 620-51000/10	50.0	14.76918	50.0	1083723.0	0.295384	Y
9	IC 620-51000/11	100.0	29.238756	50.0	1099739.0	0.292388	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

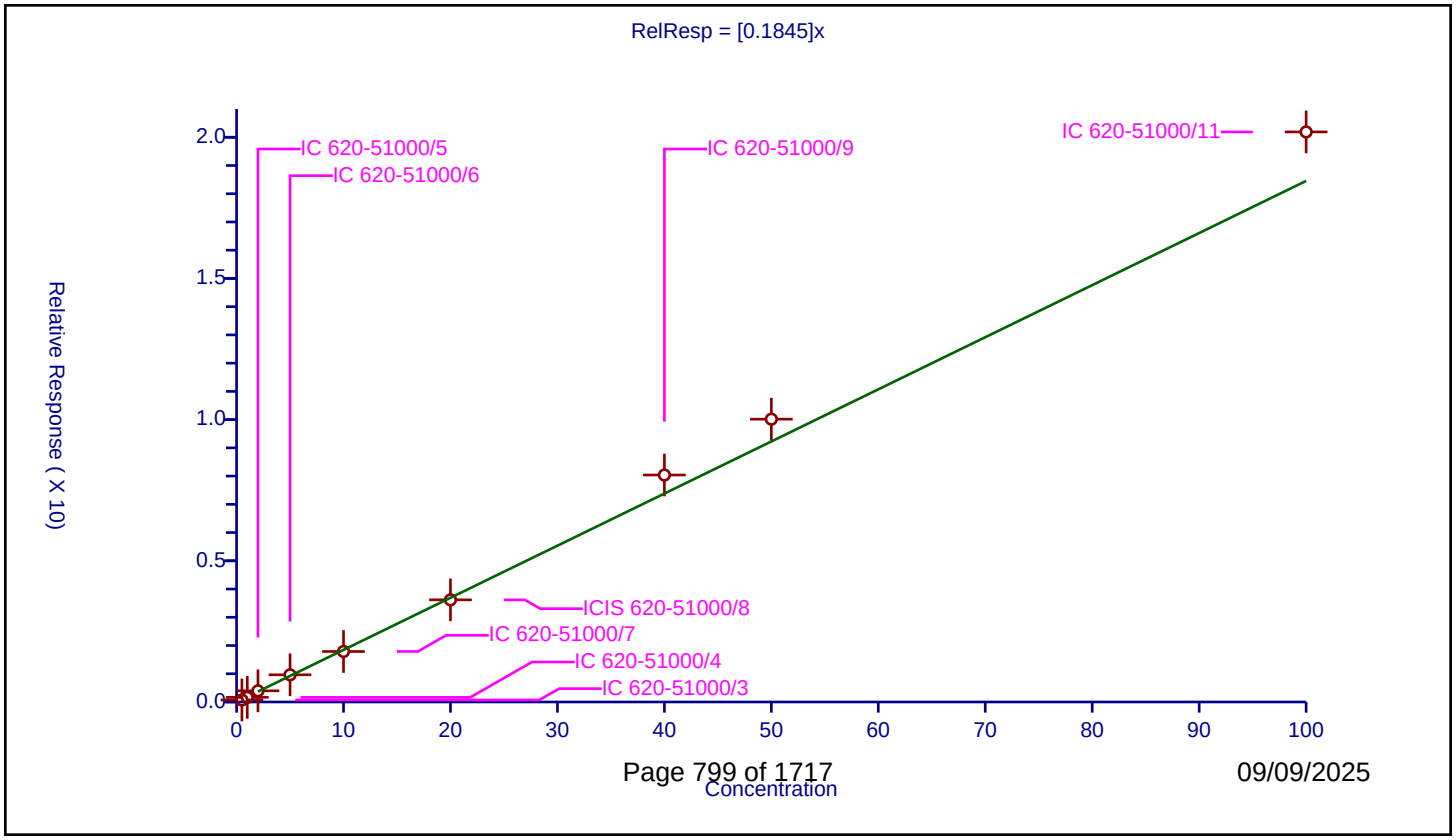
Curve Coefficients

Intercept:	0
Slope:	0.1845

Error Coefficients

Relative Standard Deviation:	10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.07152	50.0	1027681.0	0.14304	Y
2	IC 620-51000/4	1.0	0.164547	50.0	1013386.0	0.164547	Y
3	IC 620-51000/5	2.0	0.395495	50.0	1015943.0	0.197747	Y
4	IC 620-51000/6	5.0	0.96322	50.0	1008077.0	0.192644	Y
5	IC 620-51000/7	10.0	1.787929	50.0	999732.0	0.178793	Y
6	ICIS 620-51000/8	20.0	3.617429	50.0	955195.0	0.180871	Y
7	IC 620-51000/9	40.0	8.038089	50.0	1041311.0	0.200952	Y
8	IC 620-51000/10	50.0	10.015474	50.0	1083723.0	0.200309	Y
9	IC 620-51000/11	100.0	20.188563	50.0	1099739.0	0.201886	Y



Calibration / 2-Hexanone

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

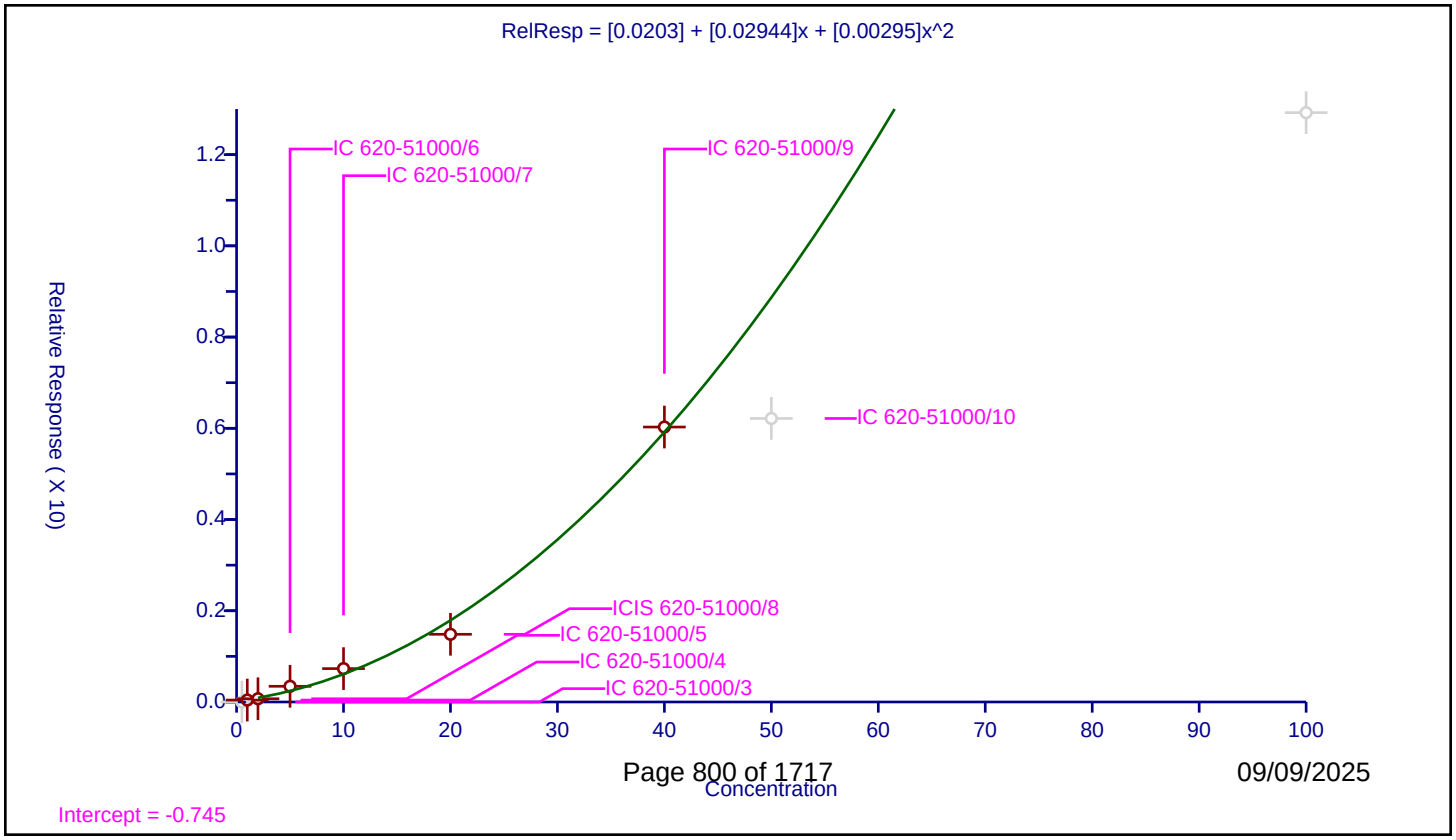
Curve Coefficients

Intercept:	0.0203
Slope:	0.02944
Second Order:	0.00295

Error Coefficients

Relative Standard Deviation:	30.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.0	50.0	1027681.0	0.0	N
2	IC 620-51000/4	1.0	0.042383	50.0	1013386.0	0.042383	Y
3	IC 620-51000/5	2.0	0.071018	50.0	1015943.0	0.035509	Y
4	IC 620-51000/6	5.0	0.344071	50.0	1008077.0	0.068814	Y
5	IC 620-51000/7	10.0	0.731746	50.0	999732.0	0.073175	Y
6	ICIS 620-51000/8	20.0	1.483885	50.0	955195.0	0.074194	Y
7	IC 620-51000/9	40.0	6.027882	50.0	1041311.0	0.150697	Y
8	IC 620-51000/10	50.0	6.215657	50.0	1083723.0	0.124313	N
9	IC 620-51000/11	100.0	12.920748	50.0	1099739.0	0.129207	N



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

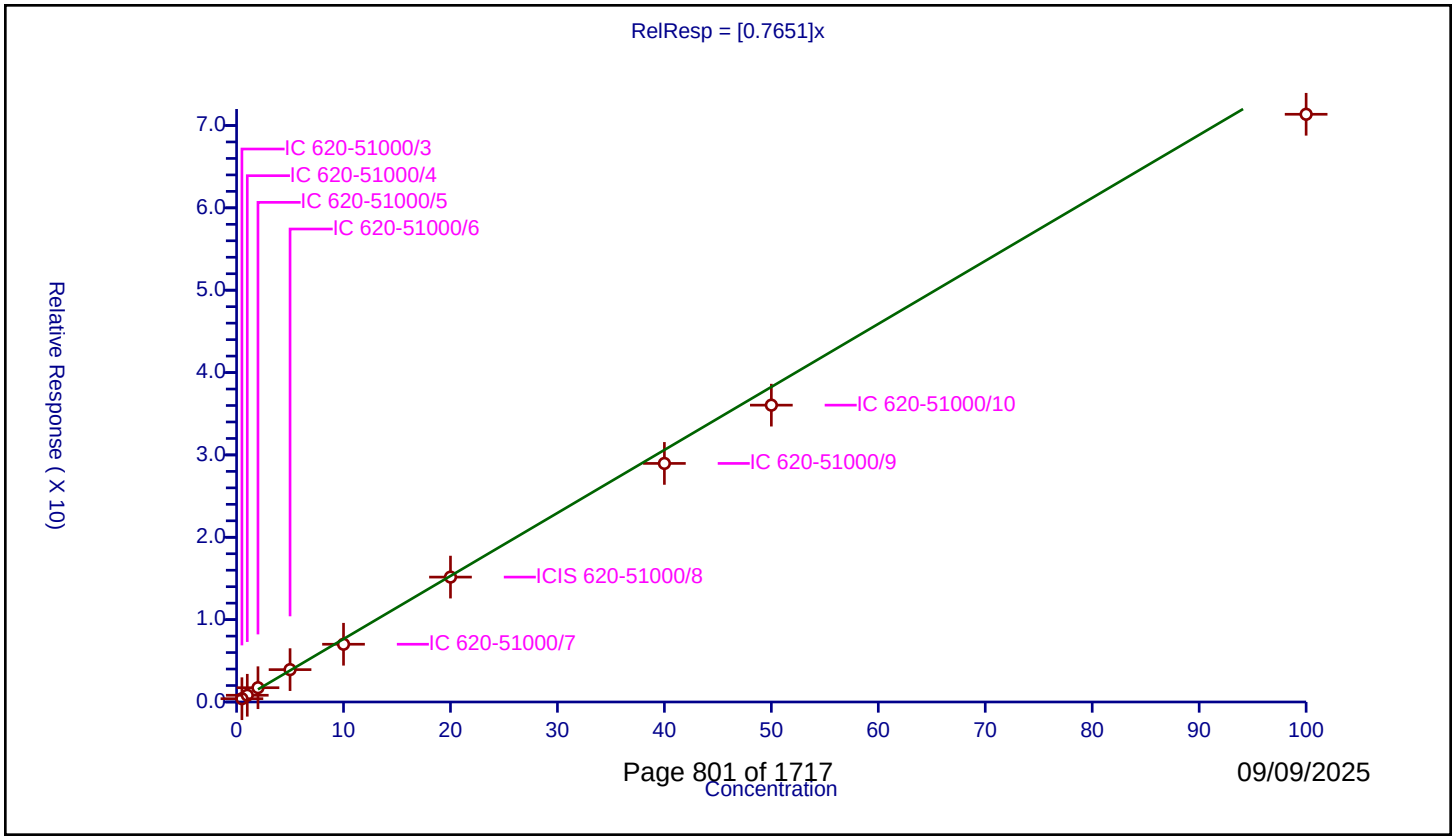
Curve Coefficients

Intercept:	0
Slope:	0.7651

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.398334	50.0	776108.0	0.796667	Y
2	IC 620-51000/4	1.0	0.819133	50.0	759584.0	0.819133	Y
3	IC 620-51000/5	2.0	1.732903	50.0	770903.0	0.866451	Y
4	IC 620-51000/6	5.0	3.928074	50.0	772936.0	0.785615	Y
5	IC 620-51000/7	10.0	7.011718	50.0	771152.0	0.701172	Y
6	ICIS 620-51000/8	20.0	15.165287	50.0	733026.0	0.758264	Y
7	IC 620-51000/9	40.0	28.966398	50.0	810912.0	0.72416	Y
8	IC 620-51000/10	50.0	36.042278	50.0	839872.0	0.720846	Y
9	IC 620-51000/11	100.0	71.361411	50.0	839247.0	0.713614	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

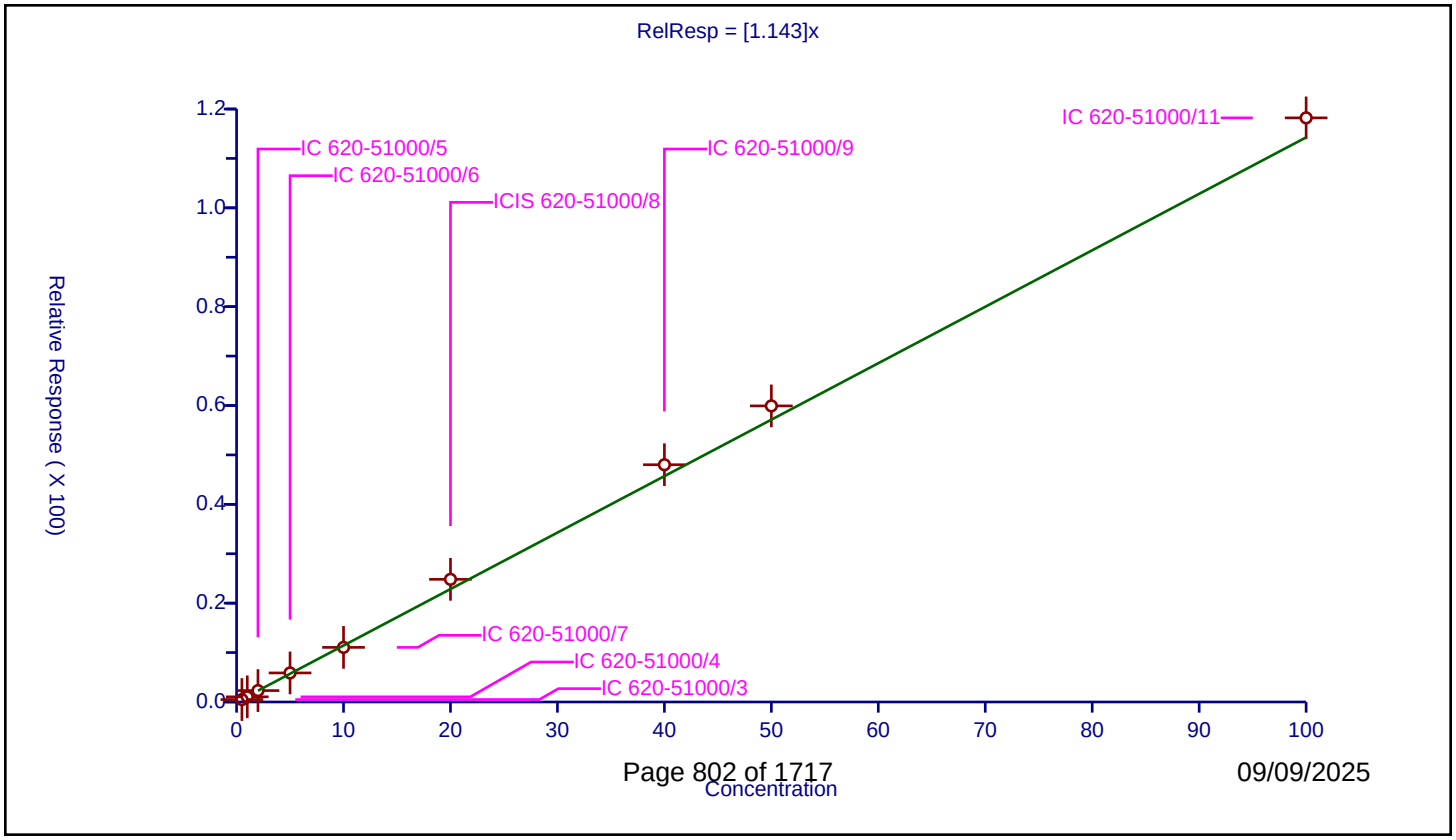
Curve Coefficients

Intercept:	0
Slope:	1.143

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.492006	50.0	776108.0	0.984013	Y
2	IC 620-51000/4	1.0	1.04261	50.0	759584.0	1.04261	Y
3	IC 620-51000/5	2.0	2.30924	50.0	770903.0	1.15462	Y
4	IC 620-51000/6	5.0	5.877524	50.0	772936.0	1.175505	Y
5	IC 620-51000/7	10.0	11.047498	50.0	771152.0	1.10475	Y
6	ICIS 620-51000/8	20.0	24.818833	50.0	733026.0	1.240942	Y
7	IC 620-51000/9	40.0	48.013841	50.0	810912.0	1.200346	Y
8	IC 620-51000/10	50.0	59.922941	50.0	839872.0	1.198459	Y
9	IC 620-51000/11	100.0	118.209538	50.0	839247.0	1.182095	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

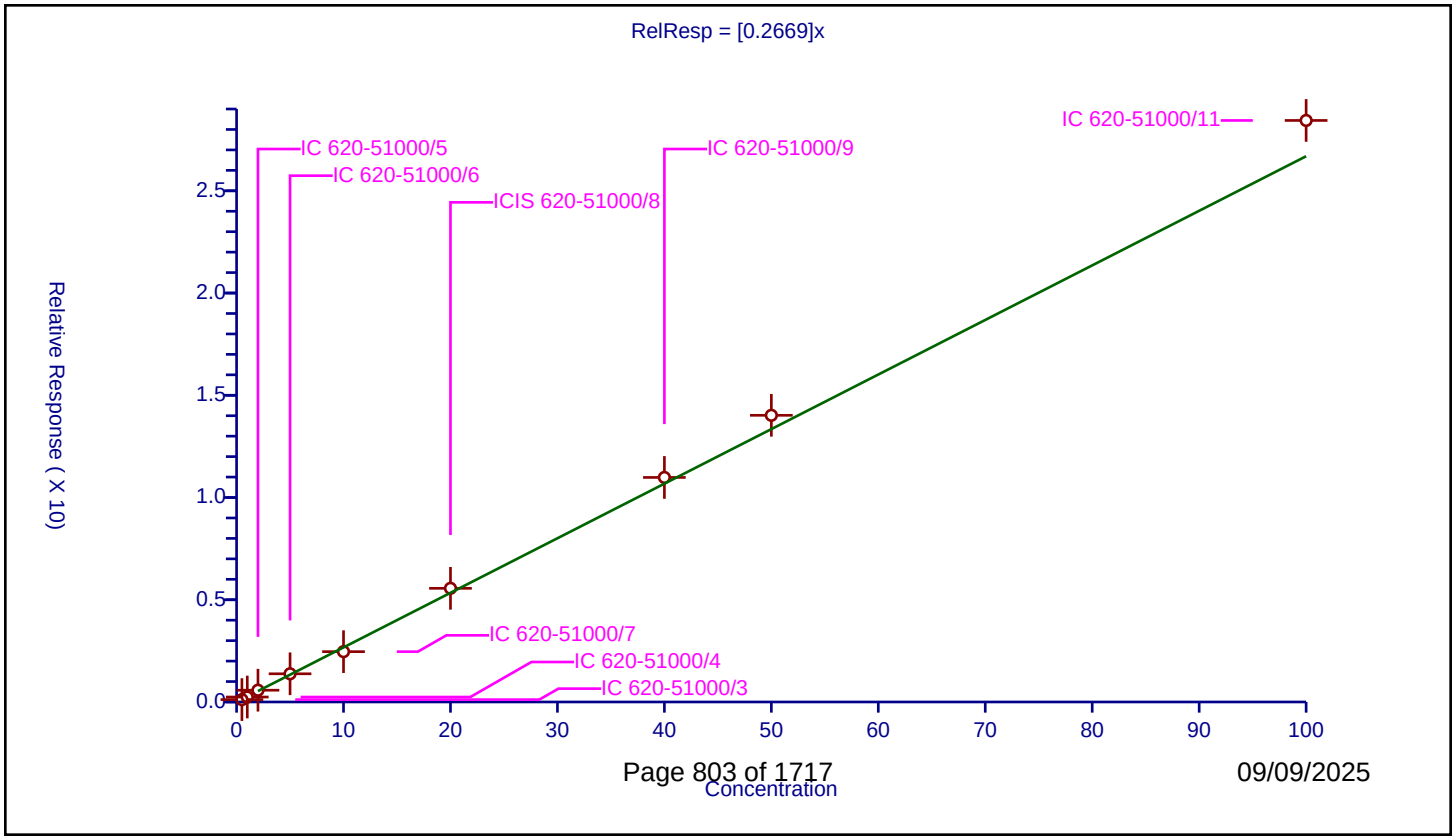
Curve Coefficients

Intercept:	0
Slope:	0.2669

Error Coefficients

Relative Standard Deviation:	7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.116221	50.0	776108.0	0.232442	Y
2	IC 620-51000/4	1.0	0.242633	50.0	759584.0	0.242633	Y
3	IC 620-51000/5	2.0	0.575689	50.0	770903.0	0.287844	Y
4	IC 620-51000/6	5.0	1.379092	50.0	772936.0	0.275818	Y
5	IC 620-51000/7	10.0	2.461318	50.0	771152.0	0.246132	Y
6	ICIS 620-51000/8	20.0	5.558398	50.0	733026.0	0.27792	Y
7	IC 620-51000/9	40.0	10.981956	50.0	810912.0	0.274549	Y
8	IC 620-51000/10	50.0	14.019755	50.0	839872.0	0.280395	Y
9	IC 620-51000/11	100.0	28.440554	50.0	839247.0	0.284406	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

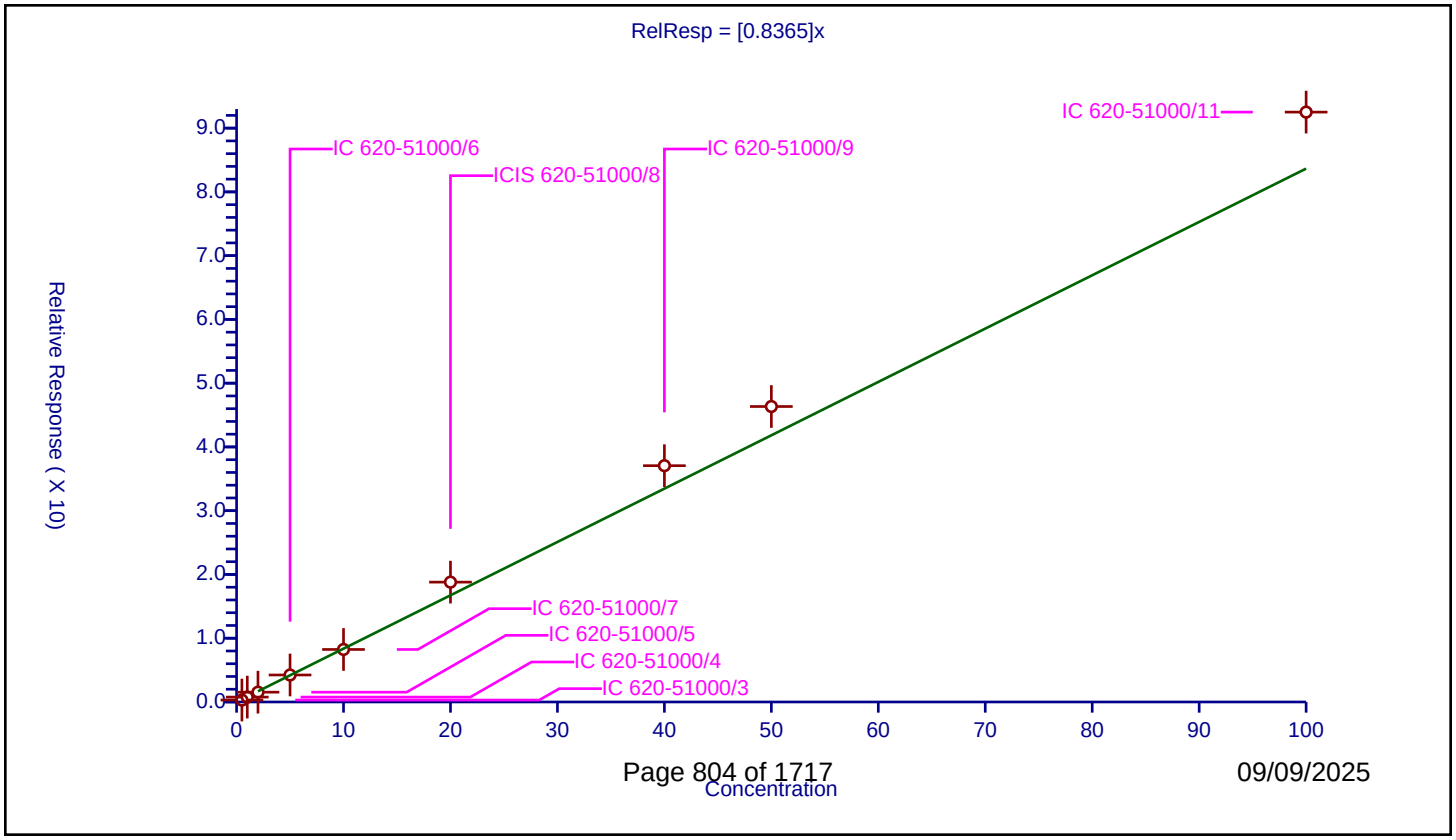
Curve Coefficients

Intercept:	0
Slope:	0.8365

Error Coefficients

Relative Standard Deviation:	13.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.301504	50.0	776108.0	0.603009	Y
2	IC 620-51000/4	1.0	0.768381	50.0	759584.0	0.768381	Y
3	IC 620-51000/5	2.0	1.537677	50.0	770903.0	0.768839	Y
4	IC 620-51000/6	5.0	4.233209	50.0	772936.0	0.846642	Y
5	IC 620-51000/7	10.0	8.236314	50.0	771152.0	0.823631	Y
6	ICIS 620-51000/8	20.0	18.796741	50.0	733026.0	0.939837	Y
7	IC 620-51000/9	40.0	37.062098	50.0	810912.0	0.926552	Y
8	IC 620-51000/10	50.0	46.343371	50.0	839872.0	0.926867	Y
9	IC 620-51000/11	100.0	92.513527	50.0	839247.0	0.925135	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

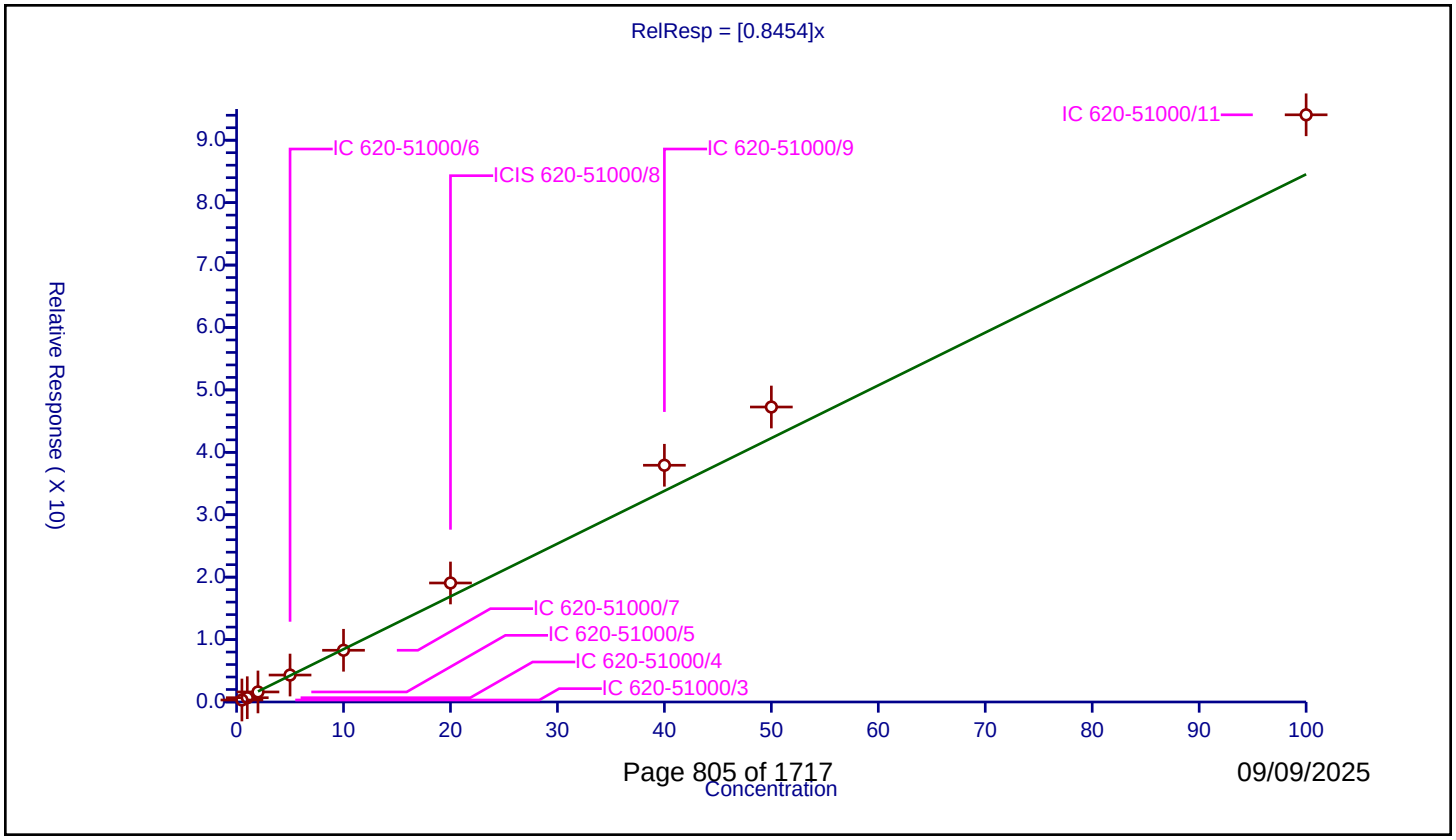
Curve Coefficients

Intercept:	0
Slope:	0.8454

Error Coefficients

Relative Standard Deviation:	14.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.319414	50.0	776108.0	0.638829	Y
2	IC 620-51000/4	1.0	0.685704	50.0	759584.0	0.685704	Y
3	IC 620-51000/5	2.0	1.609152	50.0	770903.0	0.804576	Y
4	IC 620-51000/6	5.0	4.318016	50.0	772936.0	0.863603	Y
5	IC 620-51000/7	10.0	8.287666	50.0	771152.0	0.828767	Y
6	ICIS 620-51000/8	20.0	19.064467	50.0	733026.0	0.953223	Y
7	IC 620-51000/9	40.0	37.928345	50.0	810912.0	0.948209	Y
8	IC 620-51000/10	50.0	47.259344	50.0	839872.0	0.945187	Y
9	IC 620-51000/11	100.0	94.070756	50.0	839247.0	0.940708	Y



09/09/2025

Calibration / Styrene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

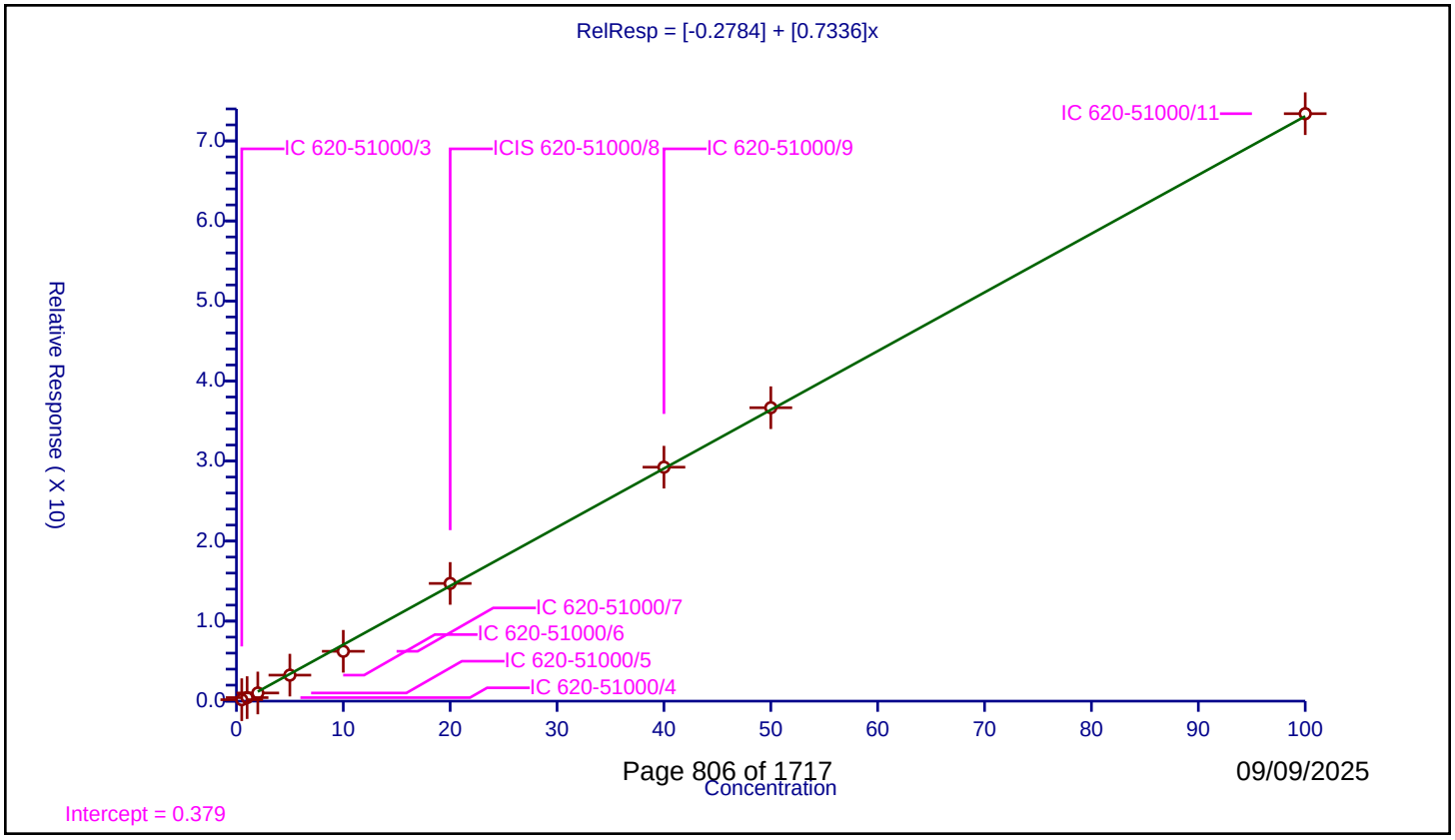
Curve Coefficients

Intercept:	-0.2784
Slope:	0.7336

Error Coefficients

Relative Standard Deviation:	11.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.179872	50.0	776108.0	0.359744	Y
2	IC 620-51000/4	1.0	0.440109	50.0	759584.0	0.440109	Y
3	IC 620-51000/5	2.0	1.01874	50.0	770903.0	0.50937	Y
4	IC 620-51000/6	5.0	3.249881	50.0	772936.0	0.649976	Y
5	IC 620-51000/7	10.0	6.227177	50.0	771152.0	0.622718	Y
6	ICIS 620-51000/8	20.0	14.708005	50.0	733026.0	0.7354	Y
7	IC 620-51000/9	40.0	29.232827	50.0	810912.0	0.730821	Y
8	IC 620-51000/10	50.0	36.666182	50.0	839872.0	0.733324	Y
9	IC 620-51000/11	100.0	73.400858	50.0	839247.0	0.734009	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

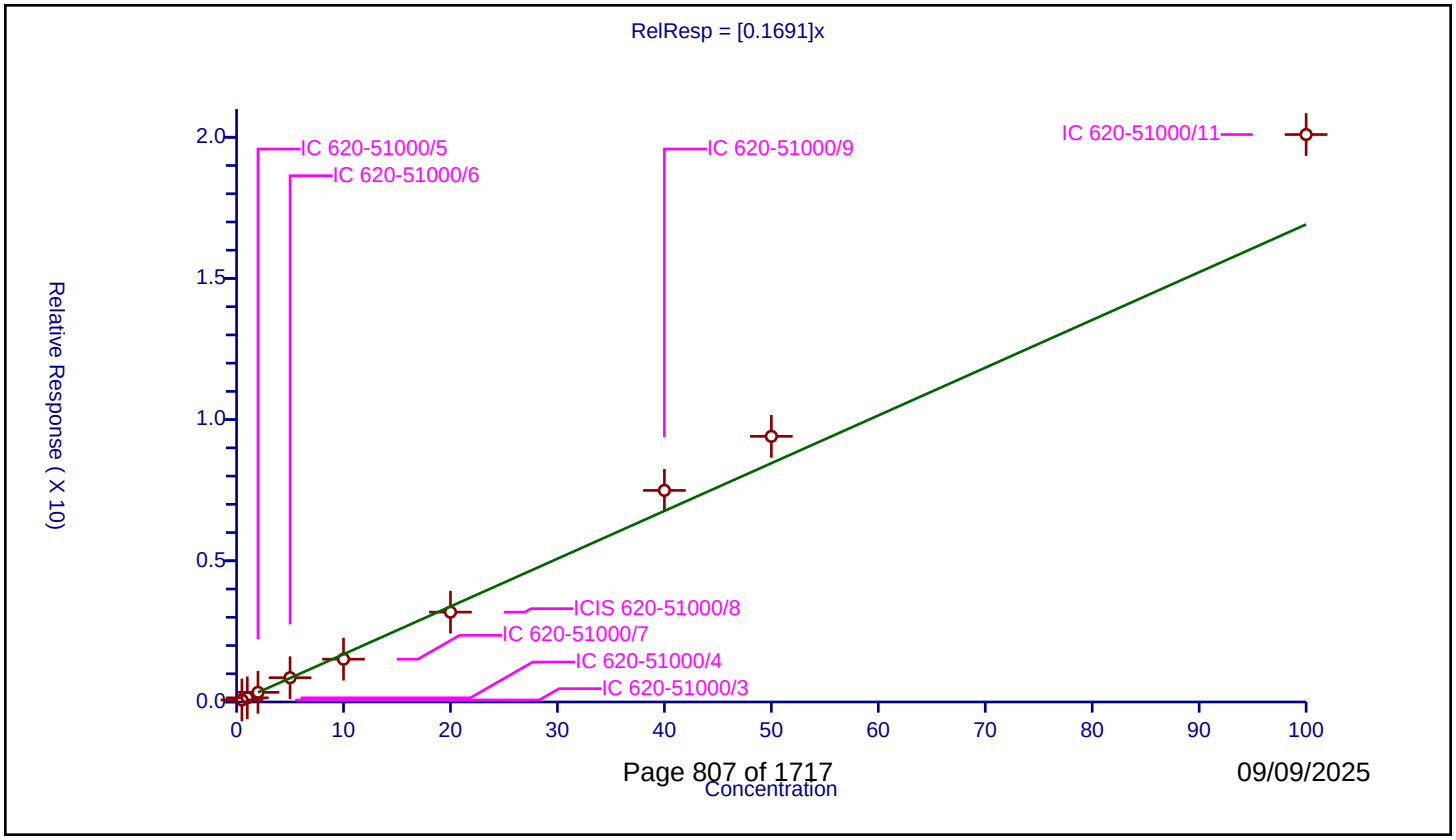
Curve Coefficients

Intercept:	0
Slope:	0.1691

Error Coefficients

Relative Standard Deviation:	11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.072219	50.0	776108.0	0.144439	Y
2	IC 620-51000/4	1.0	0.147844	50.0	759584.0	0.147844	Y
3	IC 620-51000/5	2.0	0.341483	50.0	770903.0	0.170741	Y
4	IC 620-51000/6	5.0	0.859644	50.0	772936.0	0.171929	Y
5	IC 620-51000/7	10.0	1.515979	50.0	771152.0	0.151598	Y
6	ICIS 620-51000/8	20.0	3.18222	50.0	733026.0	0.159111	Y
7	IC 620-51000/9	40.0	7.493476	50.0	810912.0	0.187337	Y
8	IC 620-51000/10	50.0	9.407862	50.0	839872.0	0.188157	Y
9	IC 620-51000/11	100.0	20.09617	50.0	839247.0	0.200962	Y



09/09/2025

Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

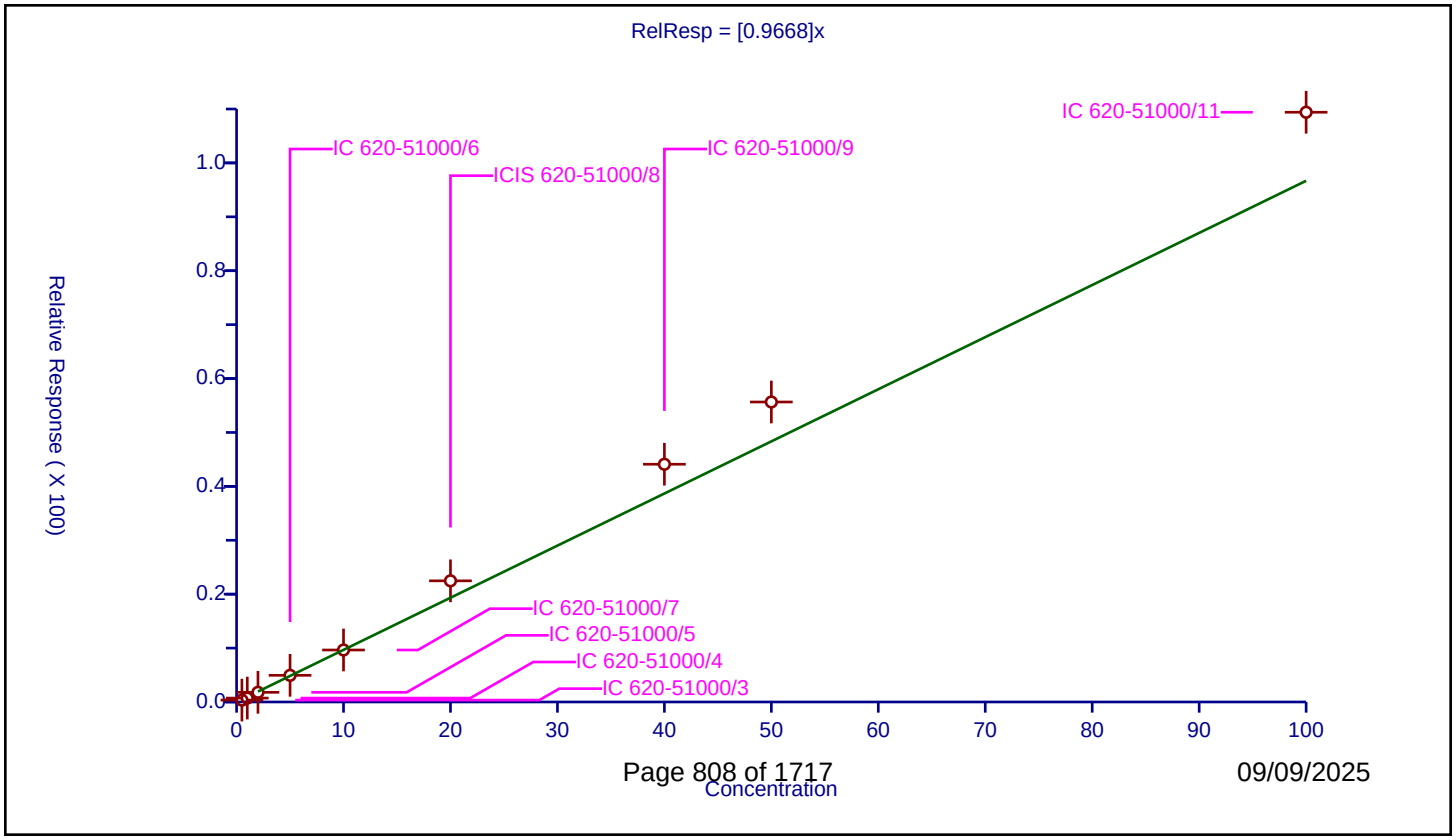
Curve Coefficients

Intercept:	0
Slope:	0.9668

Error Coefficients

Relative Standard Deviation:	17.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.346279	50.0	776108.0	0.692558	Y
2	IC 620-51000/4	1.0	0.726319	50.0	759584.0	0.726319	Y
3	IC 620-51000/5	2.0	1.791925	50.0	770903.0	0.895962	Y
4	IC 620-51000/6	5.0	4.944135	50.0	772936.0	0.988827	Y
5	IC 620-51000/7	10.0	9.645569	50.0	771152.0	0.964557	Y
6	ICIS 620-51000/8	20.0	22.47451	50.0	733026.0	1.123725	Y
7	IC 620-51000/9	40.0	44.101703	50.0	810912.0	1.102543	Y
8	IC 620-51000/10	50.0	55.647884	50.0	839872.0	1.112958	Y
9	IC 620-51000/11	100.0	109.402119	50.0	839247.0	1.094021	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

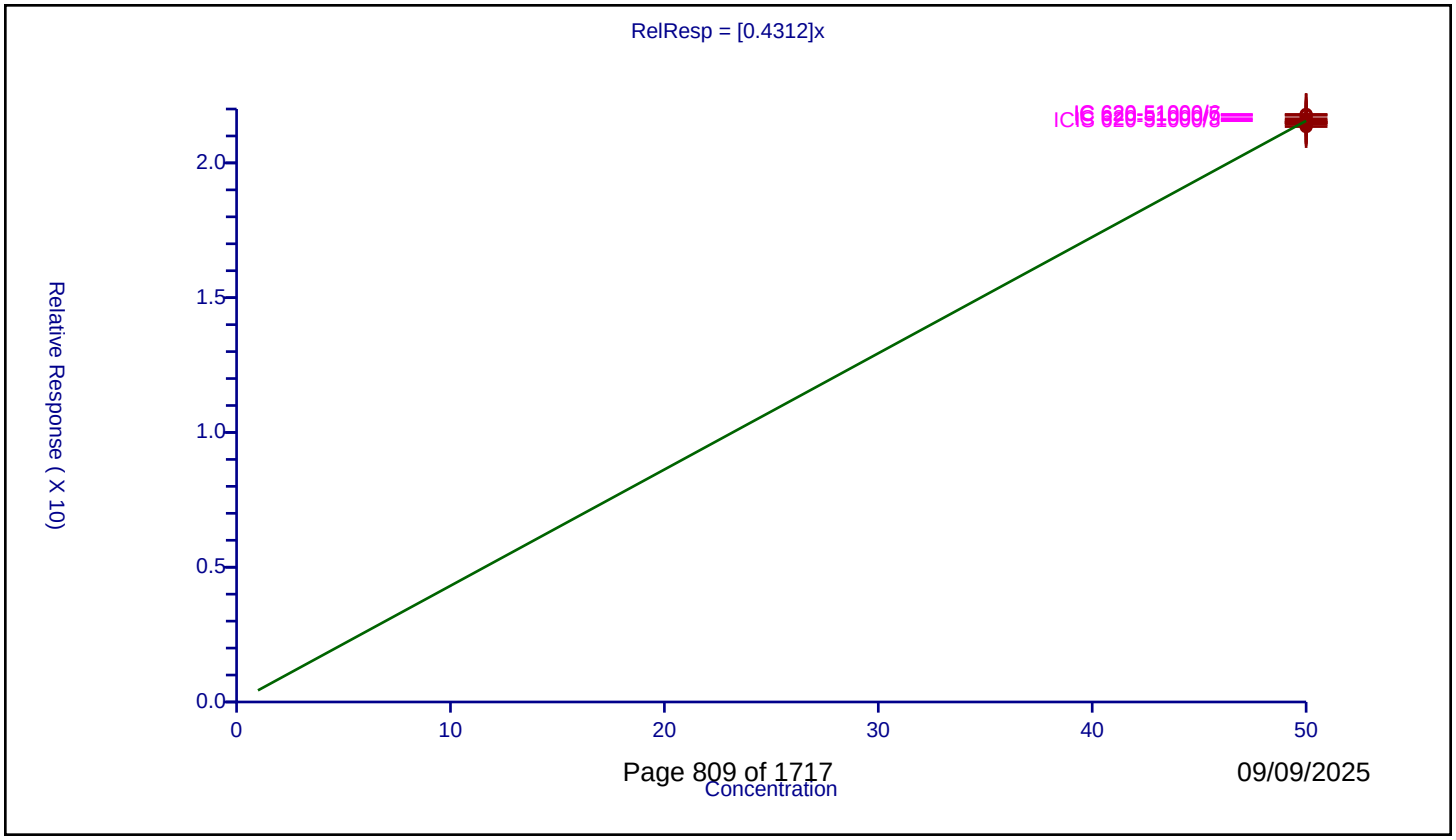
Curve Coefficients

Intercept:	0
Slope:	0.4312

Error Coefficients

Relative Standard Deviation:	0.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	50.0	21.428268	50.0	776108.0	0.428565	Y
2	IC 620-51000/4	50.0	21.347606	50.0	759584.0	0.426952	Y
3	IC 620-51000/5	50.0	21.489474	50.0	770903.0	0.429789	Y
4	IC 620-51000/6	50.0	21.800253	50.0	772936.0	0.436005	Y
5	IC 620-51000/7	50.0	21.766526	50.0	771152.0	0.435331	Y
6	ICIS 620-51000/8	50.0	21.567721	50.0	733026.0	0.431354	Y
7	IC 620-51000/9	50.0	21.641312	50.0	810912.0	0.432826	Y
8	IC 620-51000/10	50.0	21.532388	50.0	839872.0	0.430648	Y
9	IC 620-51000/11	50.0	21.485153	50.0	839247.0	0.429703	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

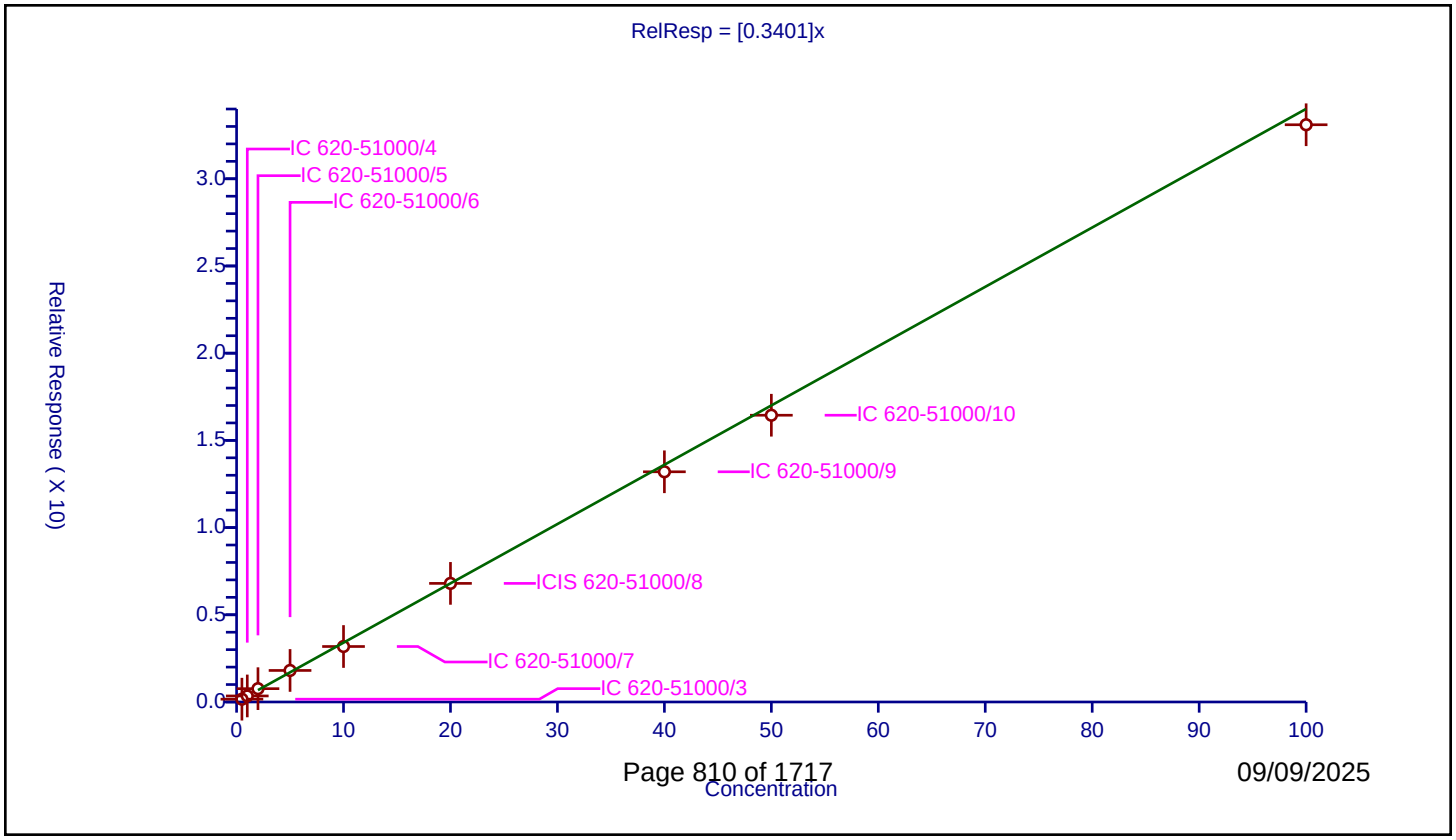
Curve Coefficients

Intercept:	0
Slope:	0.3401

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.16164	50.0	776108.0	0.32328	Y
2	IC 620-51000/4	1.0	0.346308	50.0	759584.0	0.346308	Y
3	IC 620-51000/5	2.0	0.763196	50.0	770903.0	0.381598	Y
4	IC 620-51000/6	5.0	1.807394	50.0	772936.0	0.361479	Y
5	IC 620-51000/7	10.0	3.181344	50.0	771152.0	0.318134	Y
6	ICIS 620-51000/8	20.0	6.800782	50.0	733026.0	0.340039	Y
7	IC 620-51000/9	40.0	13.198904	50.0	810912.0	0.329973	Y
8	IC 620-51000/10	50.0	16.442029	50.0	839872.0	0.328841	Y
9	IC 620-51000/11	100.0	33.097467	50.0	839247.0	0.330975	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

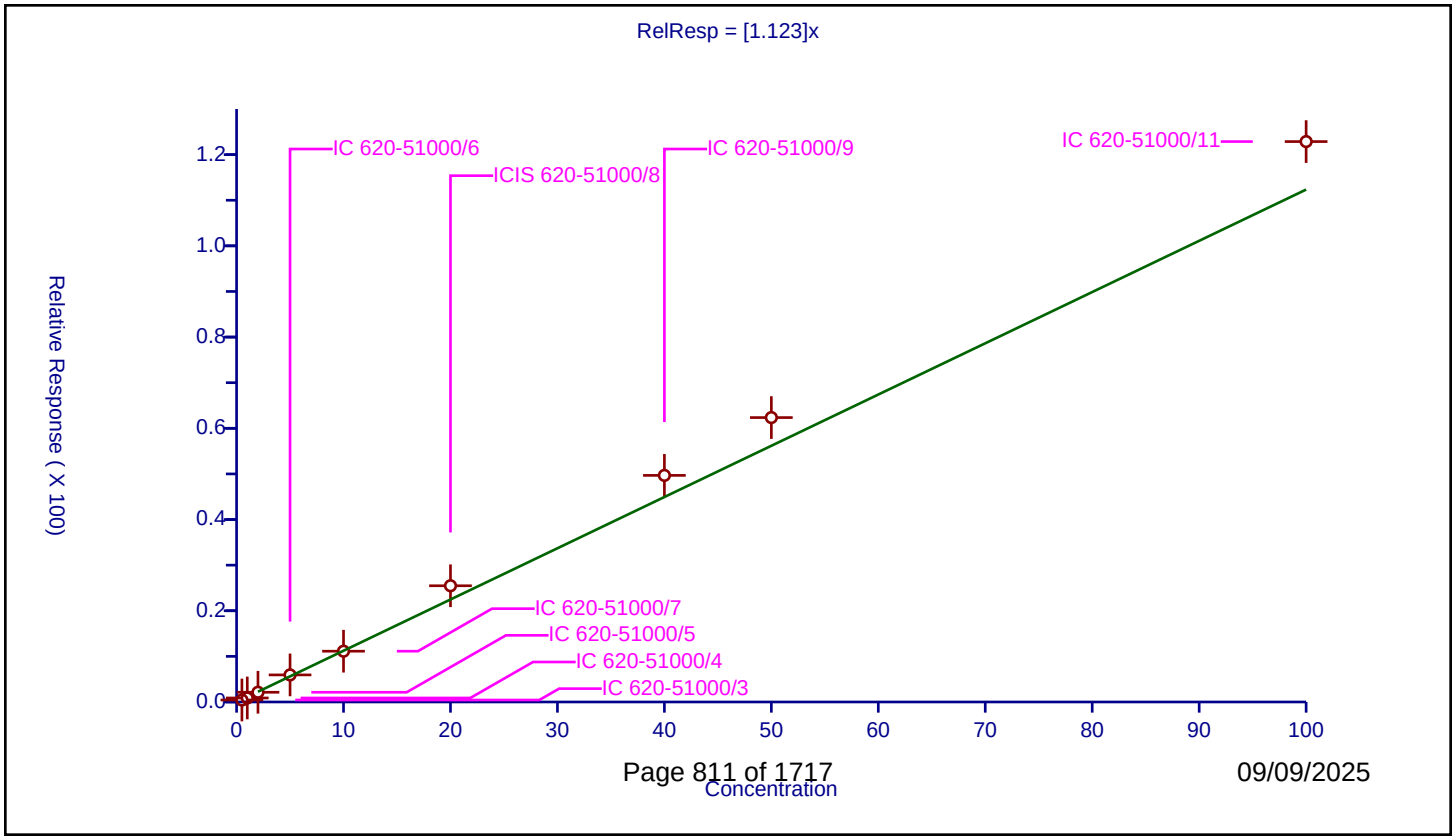
Curve Coefficients

Intercept:	0
Slope:	1.123

Error Coefficients

Relative Standard Deviation:	13.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.434991	50.0	776108.0	0.869982	Y
2	IC 620-51000/4	1.0	0.882128	50.0	759584.0	0.882128	Y
3	IC 620-51000/5	2.0	2.132175	50.0	770903.0	1.066087	Y
4	IC 620-51000/6	5.0	5.935485	50.0	772936.0	1.187097	Y
5	IC 620-51000/7	10.0	11.134121	50.0	771152.0	1.113412	Y
6	ICIS 620-51000/8	20.0	25.478769	50.0	733026.0	1.273938	Y
7	IC 620-51000/9	40.0	49.677524	50.0	810912.0	1.241938	Y
8	IC 620-51000/10	50.0	62.354859	50.0	839872.0	1.247097	Y
9	IC 620-51000/11	100.0	122.863353	50.0	839247.0	1.228634	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

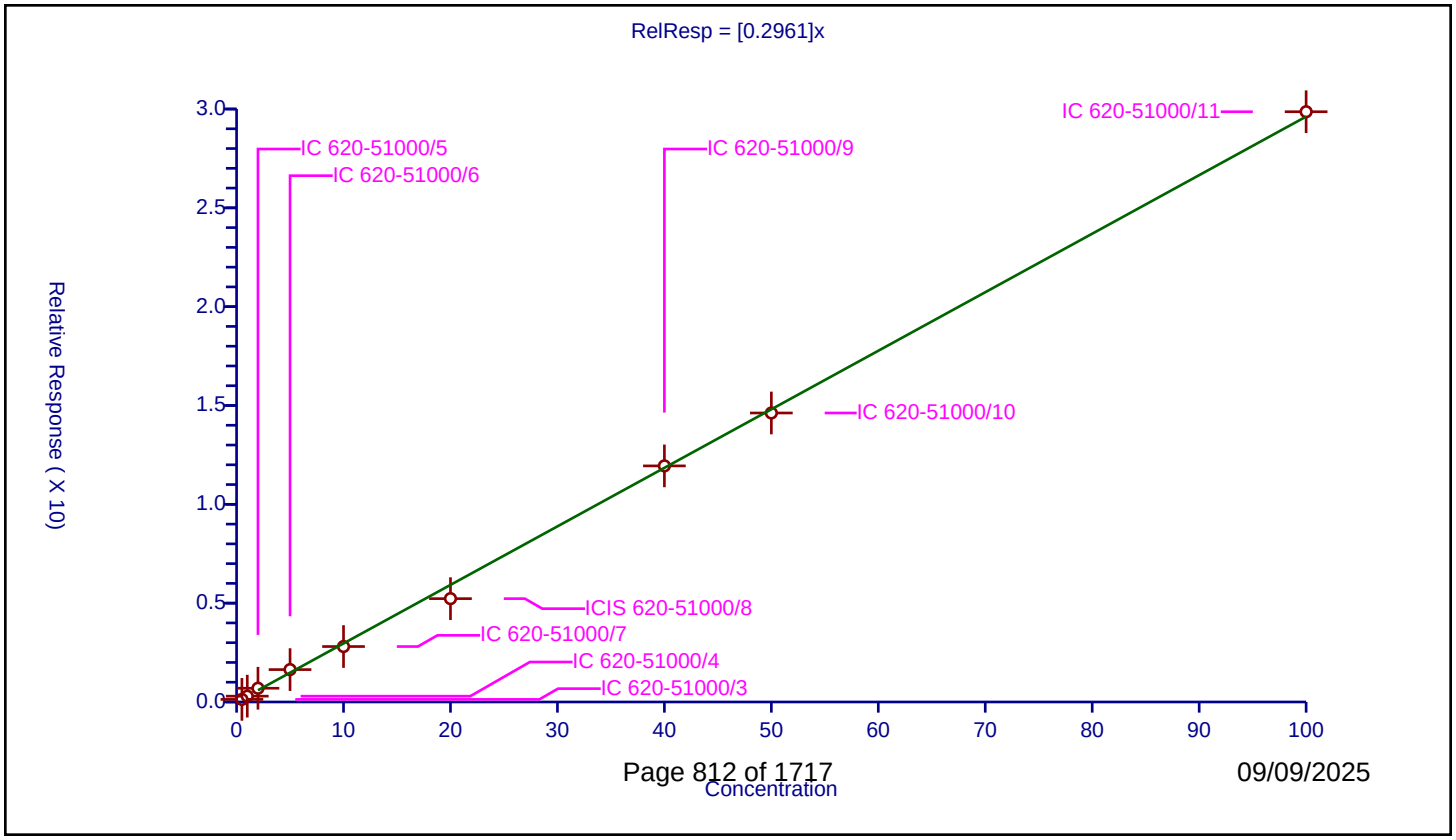
Curve Coefficients

Intercept:	0
Slope:	0.2961

Error Coefficients

Relative Standard Deviation:	9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.131747	50.0	776108.0	0.263494	Y
2	IC 620-51000/4	1.0	0.294832	50.0	759584.0	0.294832	Y
3	IC 620-51000/5	2.0	0.695159	50.0	770903.0	0.347579	Y
4	IC 620-51000/6	5.0	1.63914	50.0	772936.0	0.327828	Y
5	IC 620-51000/7	10.0	2.805154	50.0	771152.0	0.280515	Y
6	ICIS 620-51000/8	20.0	5.22901	50.0	733026.0	0.26145	Y
7	IC 620-51000/9	40.0	11.944329	50.0	810912.0	0.298608	Y
8	IC 620-51000/10	50.0	14.62068	50.0	839872.0	0.292414	Y
9	IC 620-51000/11	100.0	29.862782	50.0	839247.0	0.298628	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

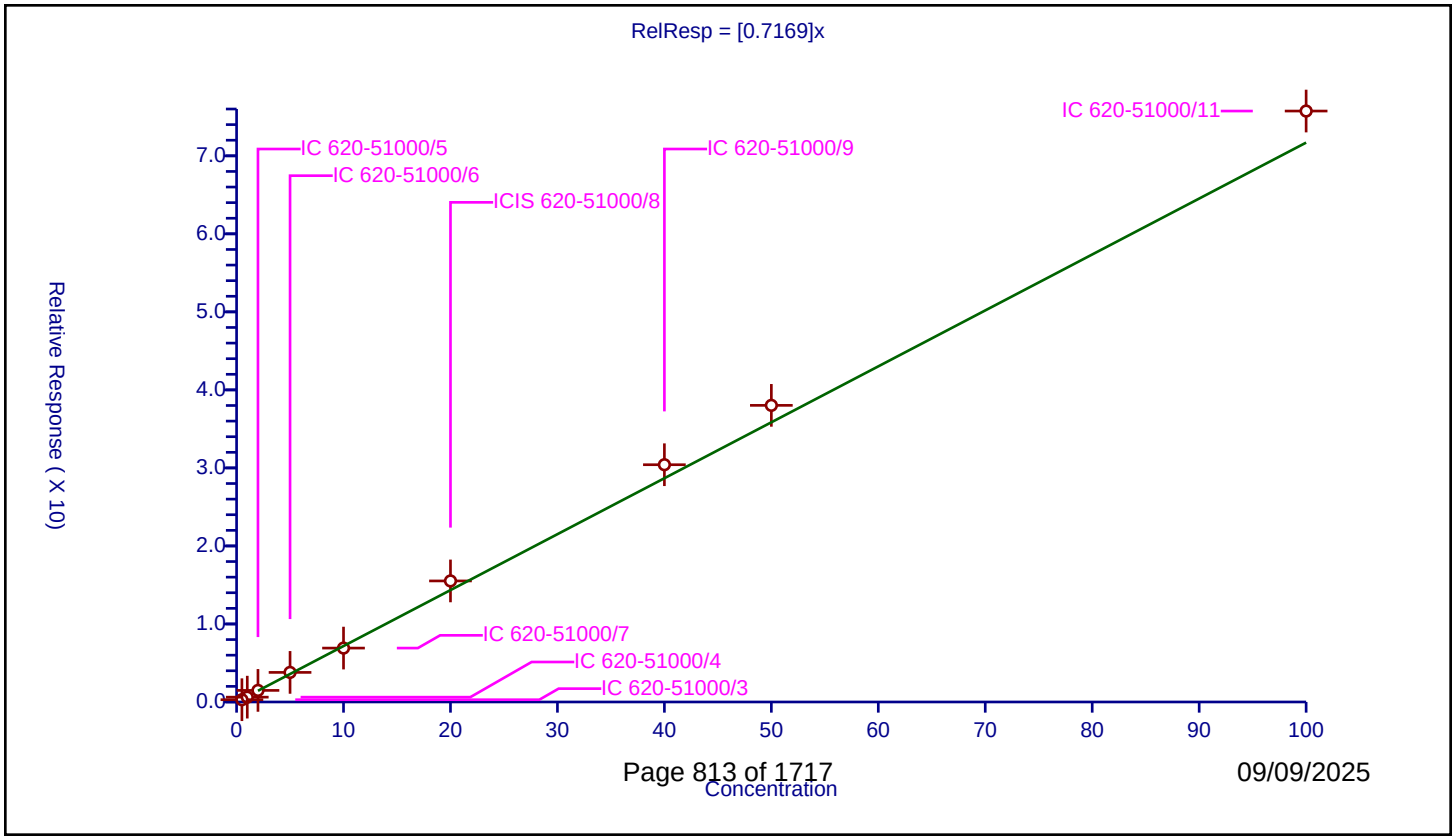
Curve Coefficients

Intercept:	0
Slope:	0.7169

Error Coefficients

Relative Standard Deviation:	9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.293129	50.0	776108.0	0.586259	Y
2	IC 620-51000/4	1.0	0.621327	50.0	759584.0	0.621327	Y
3	IC 620-51000/5	2.0	1.483909	50.0	770903.0	0.741955	Y
4	IC 620-51000/6	5.0	3.791517	50.0	772936.0	0.758303	Y
5	IC 620-51000/7	10.0	6.908236	50.0	771152.0	0.690824	Y
6	ICIS 620-51000/8	20.0	15.513706	50.0	733026.0	0.775685	Y
7	IC 620-51000/9	40.0	30.410143	50.0	810912.0	0.760254	Y
8	IC 620-51000/10	50.0	38.016984	50.0	839872.0	0.76034	Y
9	IC 620-51000/11	100.0	75.74117	50.0	839247.0	0.757412	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

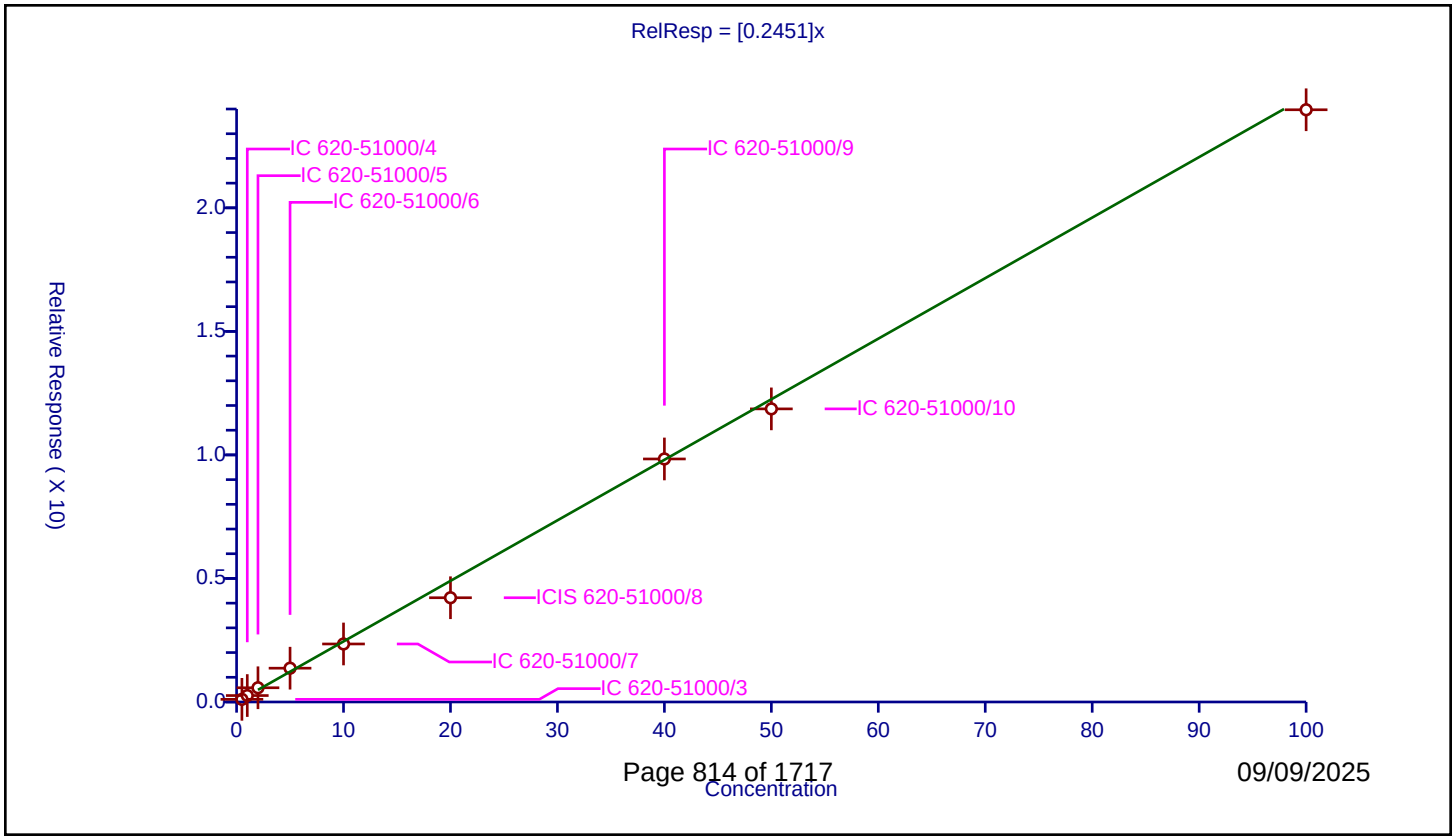
Curve Coefficients

Intercept:	0
Slope:	0.2451

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.107202	50.0	776108.0	0.214403	Y
2	IC 620-51000/4	1.0	0.260998	50.0	759584.0	0.260998	Y
3	IC 620-51000/5	2.0	0.575559	50.0	770903.0	0.287779	Y
4	IC 620-51000/6	5.0	1.368548	50.0	772936.0	0.27371	Y
5	IC 620-51000/7	10.0	2.347851	50.0	771152.0	0.234785	Y
6	ICIS 620-51000/8	20.0	4.219564	50.0	733026.0	0.210978	Y
7	IC 620-51000/9	40.0	9.836764	50.0	810912.0	0.245919	Y
8	IC 620-51000/10	50.0	11.863474	50.0	839872.0	0.237269	Y
9	IC 620-51000/11	100.0	23.96988	50.0	839247.0	0.239699	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

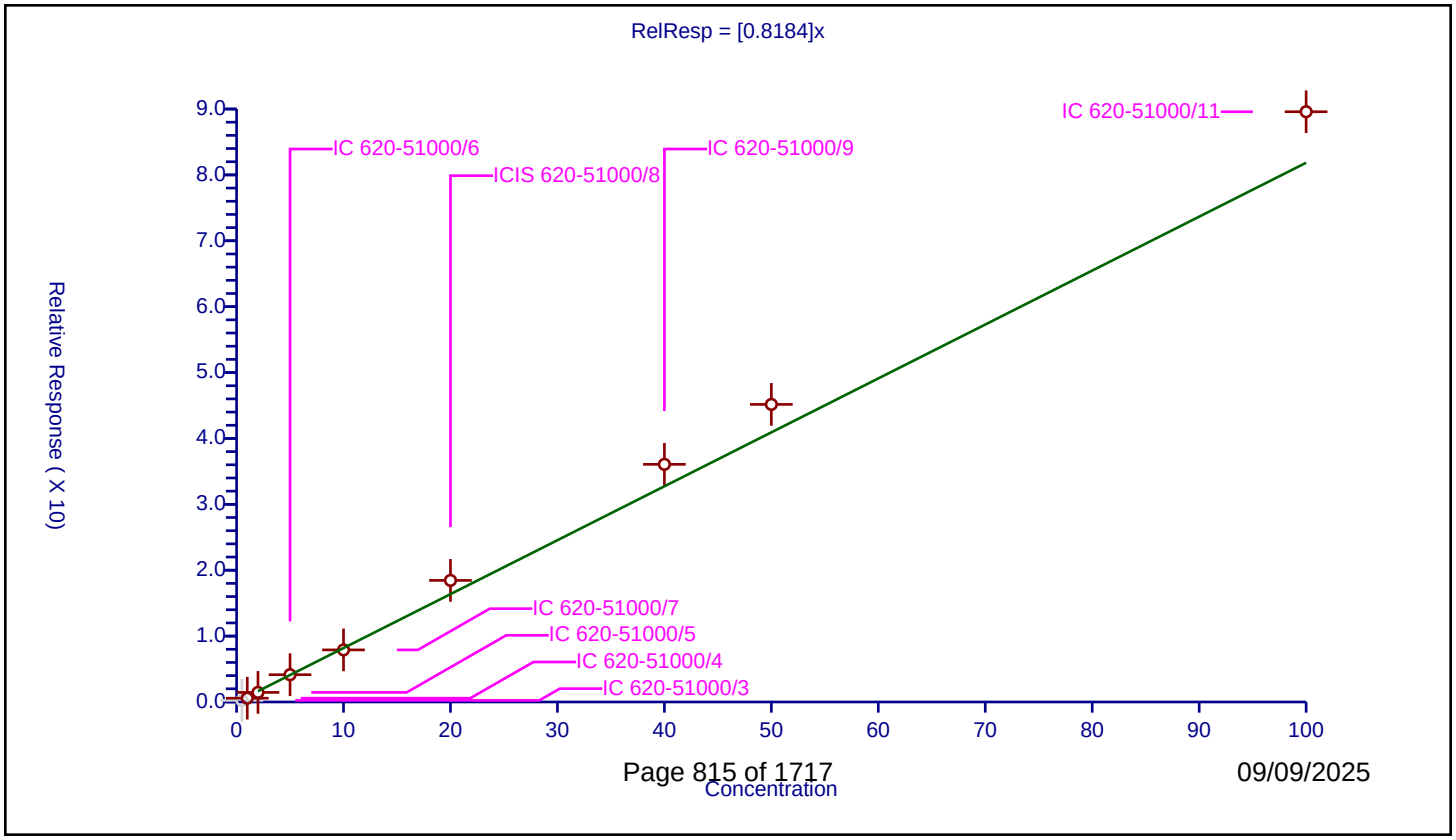
Curve Coefficients

Intercept:	0
Slope:	0.8184

Error Coefficients

Relative Standard Deviation:	14.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.246744	50.0	776108.0	0.493488	N
2	IC 620-51000/4	1.0	0.577421	50.0	759584.0	0.577421	Y
3	IC 620-51000/5	2.0	1.454204	50.0	770903.0	0.727102	Y
4	IC 620-51000/6	5.0	4.143616	50.0	772936.0	0.828723	Y
5	IC 620-51000/7	10.0	7.907455	50.0	771152.0	0.790746	Y
6	ICIS 620-51000/8	20.0	18.452415	50.0	733026.0	0.922621	Y
7	IC 620-51000/9	40.0	36.066491	50.0	810912.0	0.901662	Y
8	IC 620-51000/10	50.0	45.168192	50.0	839872.0	0.903364	Y
9	IC 620-51000/11	100.0	89.587928	50.0	839247.0	0.895879	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

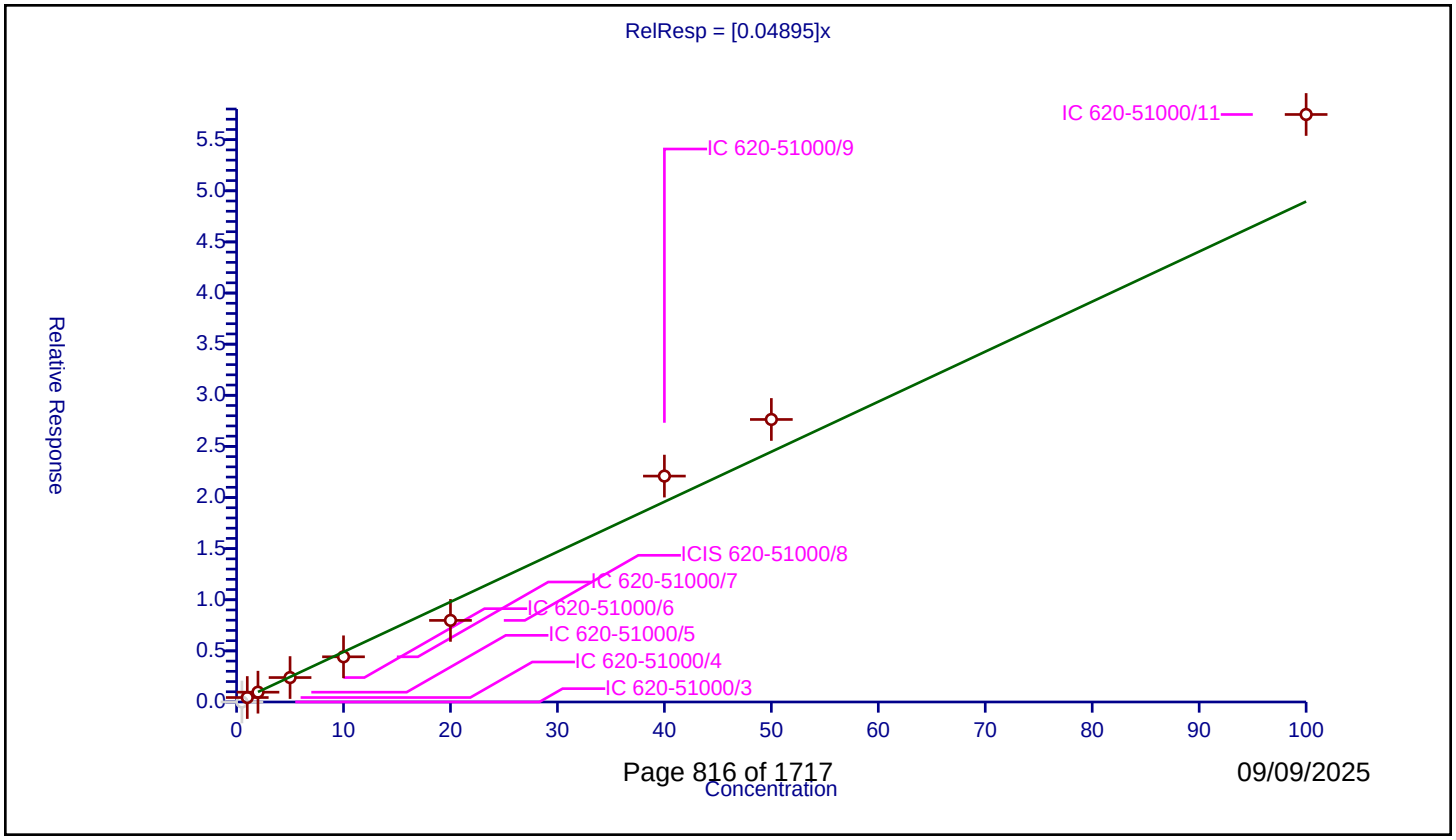
Curve Coefficients

Intercept:	0
Slope:	0.04895

Error Coefficients

Relative Standard Deviation:	13.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.0	50.0	1027681.0	0.0	N
2	IC 620-51000/4	1.0	0.043764	50.0	1013386.0	0.043764	Y
3	IC 620-51000/5	2.0	0.09597	50.0	1015943.0	0.047985	Y
4	IC 620-51000/6	5.0	0.23892	50.0	1008077.0	0.047784	Y
5	IC 620-51000/7	10.0	0.442068	50.0	999732.0	0.044207	Y
6	ICIS 620-51000/8	20.0	0.797952	50.0	955195.0	0.039898	Y
7	IC 620-51000/9	40.0	2.209666	50.0	1041311.0	0.055242	Y
8	IC 620-51000/10	50.0	2.763437	50.0	1083723.0	0.055269	Y
9	IC 620-51000/11	100.0	5.746591	50.0	1099739.0	0.057466	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

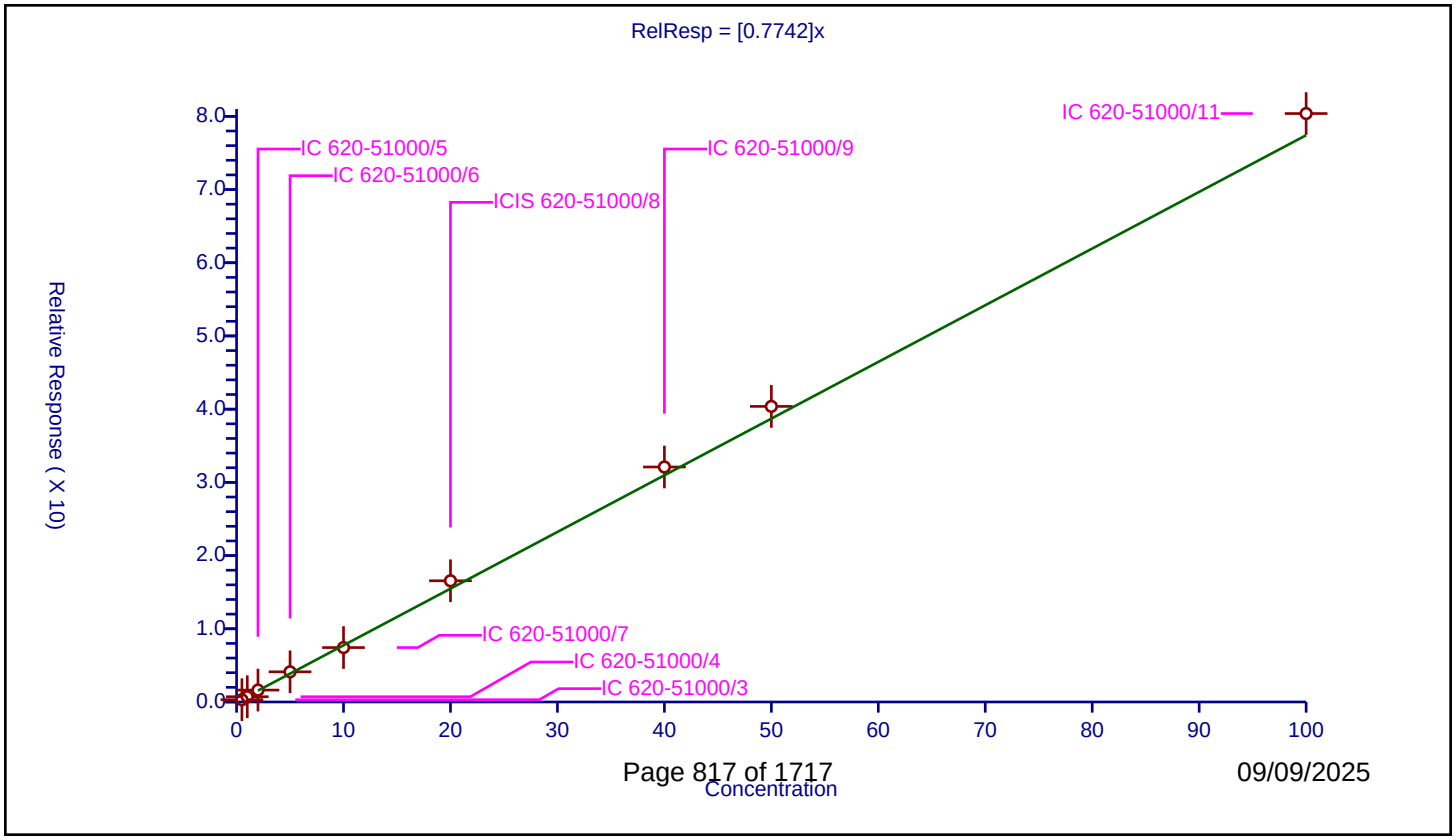
Curve Coefficients

Intercept:	0
Slope:	0.7742

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.31323	50.0	776108.0	0.626459	Y
2	IC 620-51000/4	1.0	0.71888	50.0	759584.0	0.71888	Y
3	IC 620-51000/5	2.0	1.625821	50.0	770903.0	0.81291	Y
4	IC 620-51000/6	5.0	4.123045	50.0	772936.0	0.824609	Y
5	IC 620-51000/7	10.0	7.433165	50.0	771152.0	0.743316	Y
6	ICIS 620-51000/8	20.0	16.55678	50.0	733026.0	0.827839	Y
7	IC 620-51000/9	40.0	32.099846	50.0	810912.0	0.802496	Y
8	IC 620-51000/10	50.0	40.376748	50.0	839872.0	0.807535	Y
9	IC 620-51000/11	100.0	80.381282	50.0	839247.0	0.803813	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

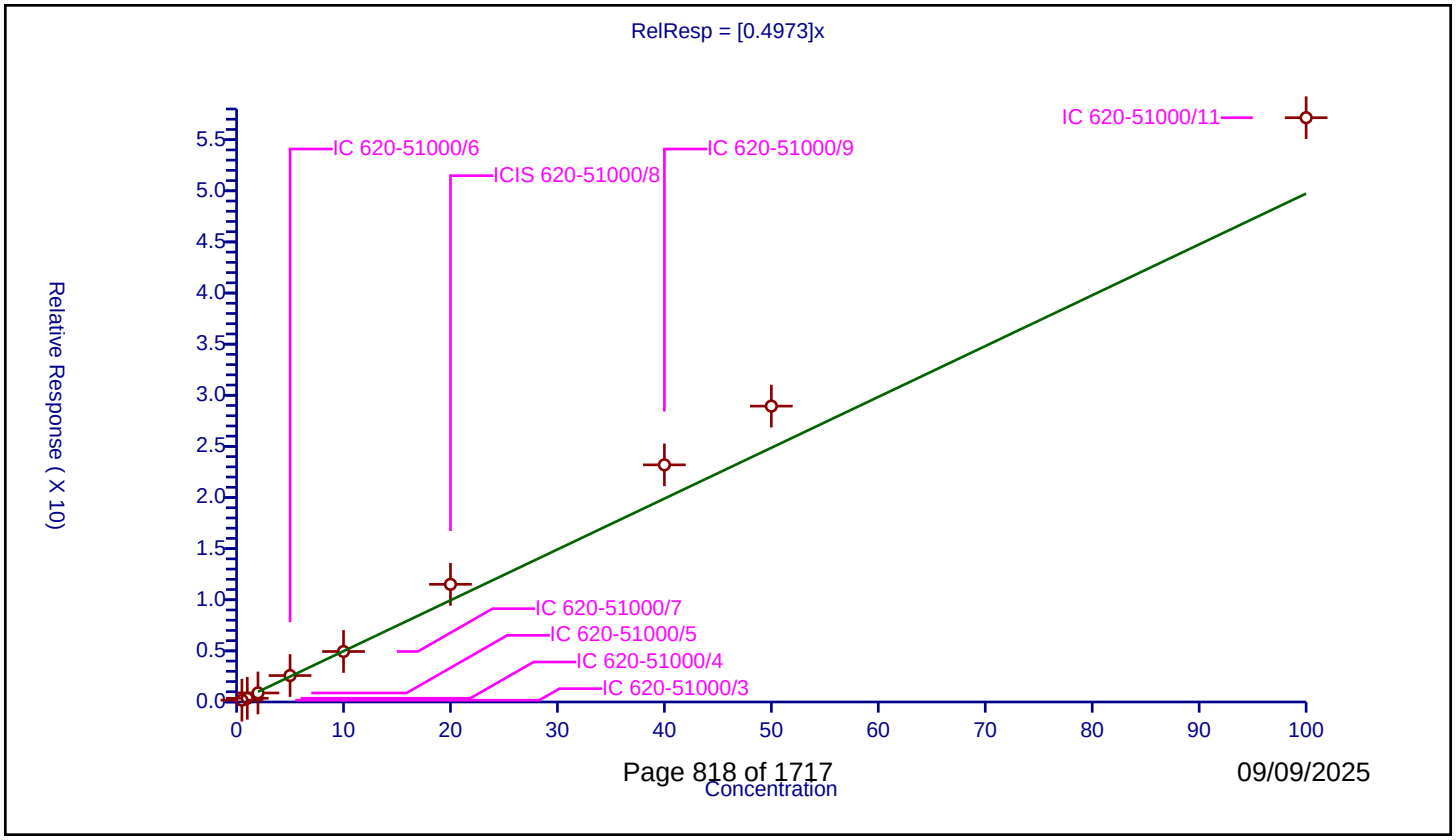
Curve Coefficients

Intercept:	0
Slope:	0.4973

Error Coefficients

Relative Standard Deviation:	18.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.176854	50.0	1027681.0	0.353709	Y
2	IC 620-51000/4	1.0	0.363928	50.0	1013386.0	0.363928	Y
3	IC 620-51000/5	2.0	0.88253	50.0	1015943.0	0.441265	Y
4	IC 620-51000/6	5.0	2.585517	50.0	1008077.0	0.517103	Y
5	IC 620-51000/7	10.0	4.939174	50.0	999732.0	0.493917	Y
6	ICIS 620-51000/8	20.0	11.50875	50.0	955195.0	0.575437	Y
7	IC 620-51000/9	40.0	23.195088	50.0	1041311.0	0.579877	Y
8	IC 620-51000/10	50.0	28.941621	50.0	1083723.0	0.578832	Y
9	IC 620-51000/11	100.0	57.149651	50.0	1099739.0	0.571497	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

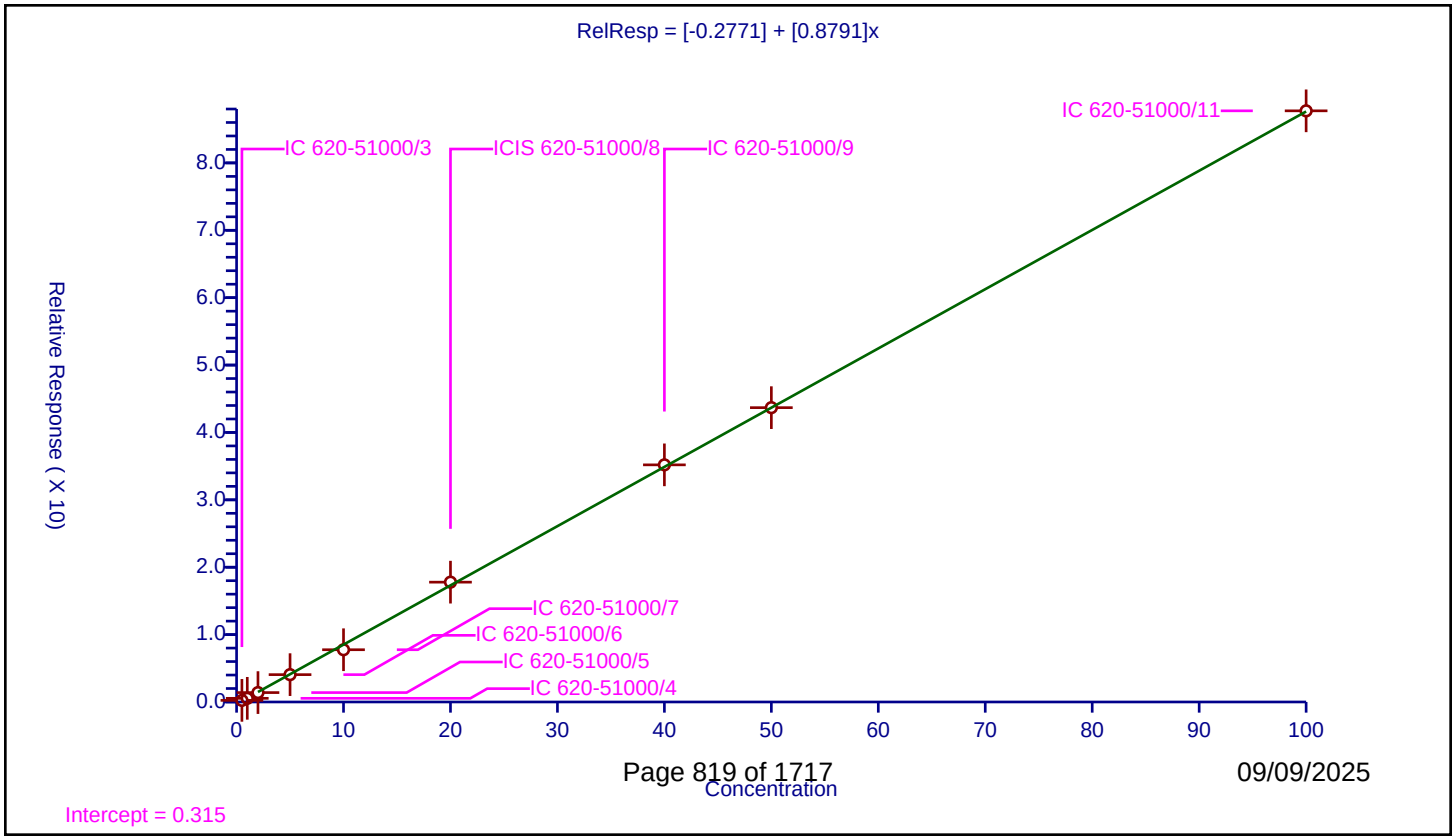
Curve Coefficients

Intercept:	-0.2771
Slope:	0.8791

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.240559	50.0	776108.0	0.481119	Y
2	IC 620-51000/4	1.0	0.543784	50.0	759584.0	0.543784	Y
3	IC 620-51000/5	2.0	1.395636	50.0	770903.0	0.697818	Y
4	IC 620-51000/6	5.0	4.057904	50.0	772936.0	0.811581	Y
5	IC 620-51000/7	10.0	7.754048	50.0	771152.0	0.775405	Y
6	ICIS 620-51000/8	20.0	17.783748	50.0	733026.0	0.889187	Y
7	IC 620-51000/9	40.0	35.19229	50.0	810912.0	0.879807	Y
8	IC 620-51000/10	50.0	43.679513	50.0	839872.0	0.87359	Y
9	IC 620-51000/11	100.0	87.728881	50.0	839247.0	0.877289	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

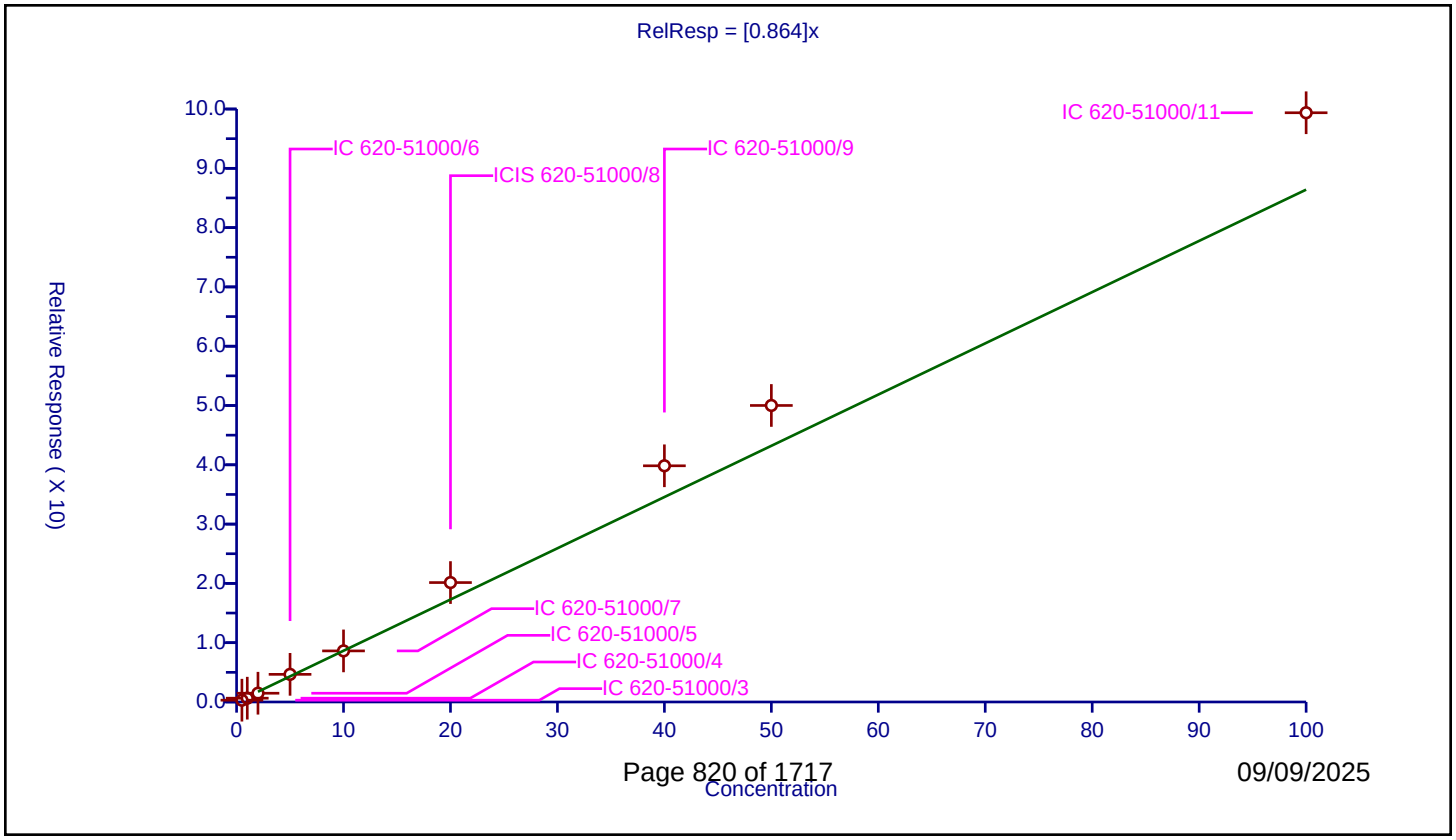
Curve Coefficients

Intercept:	0
Slope:	0.864

Error Coefficients

Relative Standard Deviation:	18.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.30363	50.0	776108.0	0.607261	Y
2	IC 620-51000/4	1.0	0.639561	50.0	759584.0	0.639561	Y
3	IC 620-51000/5	2.0	1.478656	50.0	770903.0	0.739328	Y
4	IC 620-51000/6	5.0	4.659441	50.0	772936.0	0.931888	Y
5	IC 620-51000/7	10.0	8.613671	50.0	771152.0	0.861367	Y
6	ICIS 620-51000/8	20.0	20.14226	50.0	733026.0	1.007113	Y
7	IC 620-51000/9	40.0	39.833299	50.0	810912.0	0.995832	Y
8	IC 620-51000/10	50.0	50.004644	50.0	839872.0	1.000093	Y
9	IC 620-51000/11	100.0	99.372354	50.0	839247.0	0.993724	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

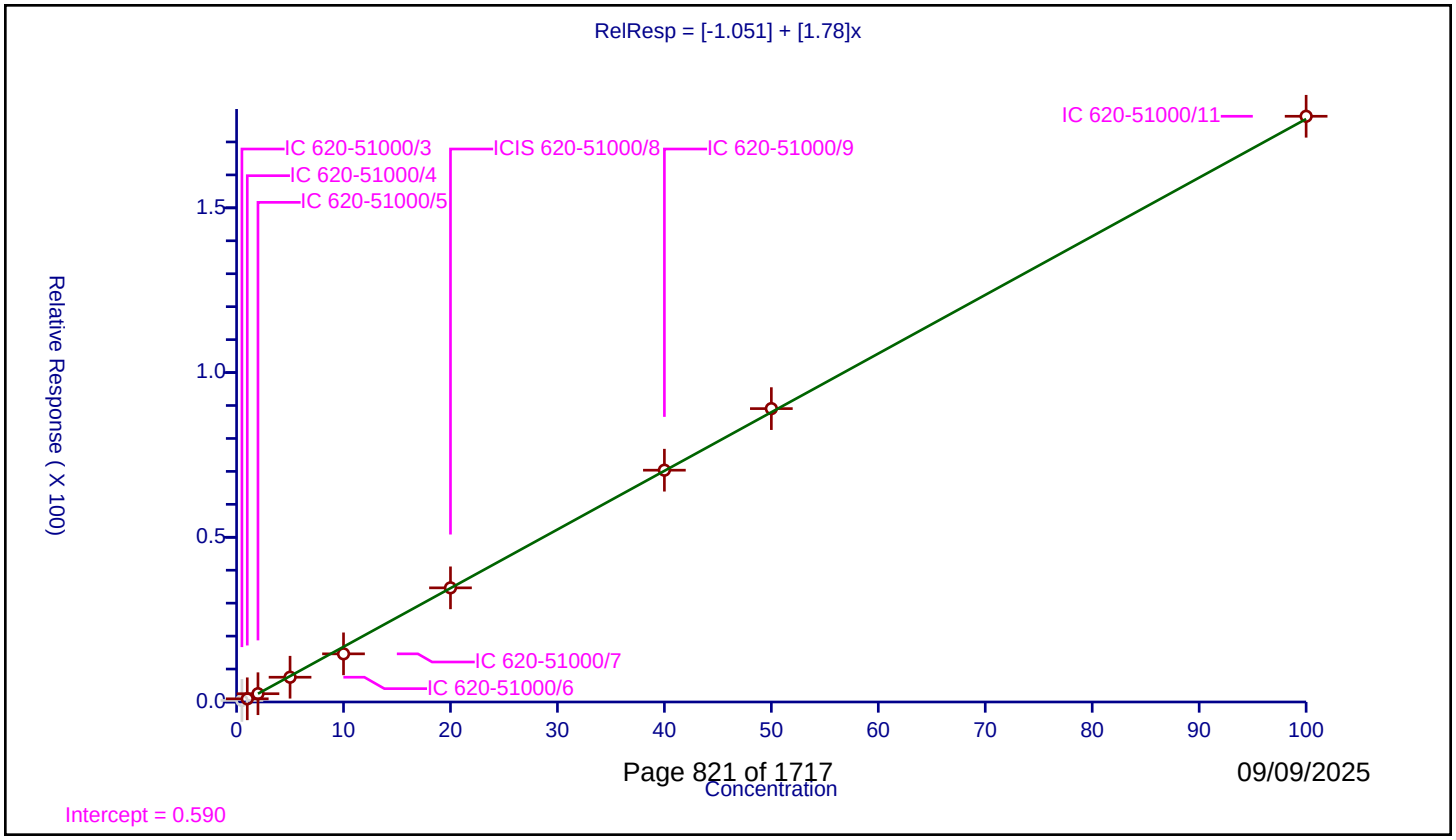
Curve Coefficients

Intercept:	-1.051
Slope:	1.78

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.473134	50.0	374101.0	0.946269	N
2	IC 620-51000/4	1.0	0.967225	50.0	361188.0	0.967225	Y
3	IC 620-51000/5	2.0	2.514538	50.0	369372.0	1.257269	Y
4	IC 620-51000/6	5.0	7.518046	50.0	384854.0	1.503609	Y
5	IC 620-51000/7	10.0	14.614844	50.0	385454.0	1.461484	Y
6	ICIS 620-51000/8	20.0	34.651966	50.0	368930.0	1.732598	Y
7	IC 620-51000/9	40.0	70.367653	50.0	410305.0	1.759191	Y
8	IC 620-51000/10	50.0	89.056443	50.0	420197.0	1.781129	Y
9	IC 620-51000/11	100.0	177.79479	50.0	417679.0	1.777948	Y



09/09/2025

Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

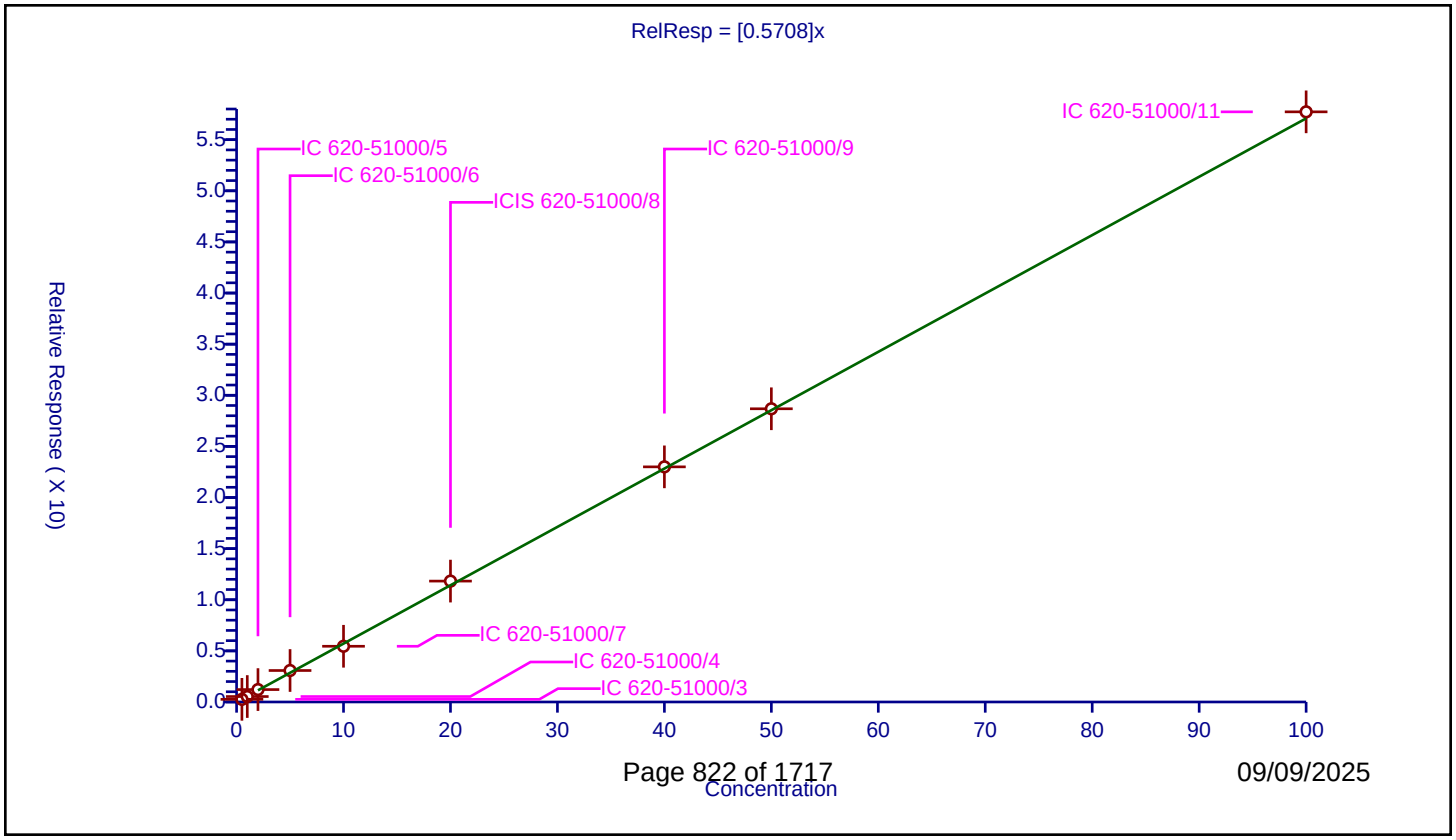
Curve Coefficients

Intercept:	0
Slope:	0.5708

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.258662	50.0	776108.0	0.517325	Y
2	IC 620-51000/4	1.0	0.534371	50.0	759584.0	0.534371	Y
3	IC 620-51000/5	2.0	1.215328	50.0	770903.0	0.607664	Y
4	IC 620-51000/6	5.0	3.080139	50.0	772936.0	0.616028	Y
5	IC 620-51000/7	10.0	5.449769	50.0	771152.0	0.544977	Y
6	ICIS 620-51000/8	20.0	11.824683	50.0	733026.0	0.591234	Y
7	IC 620-51000/9	40.0	22.999351	50.0	810912.0	0.574984	Y
8	IC 620-51000/10	50.0	28.679668	50.0	839872.0	0.573593	Y
9	IC 620-51000/11	100.0	57.723471	50.0	839247.0	0.577235	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

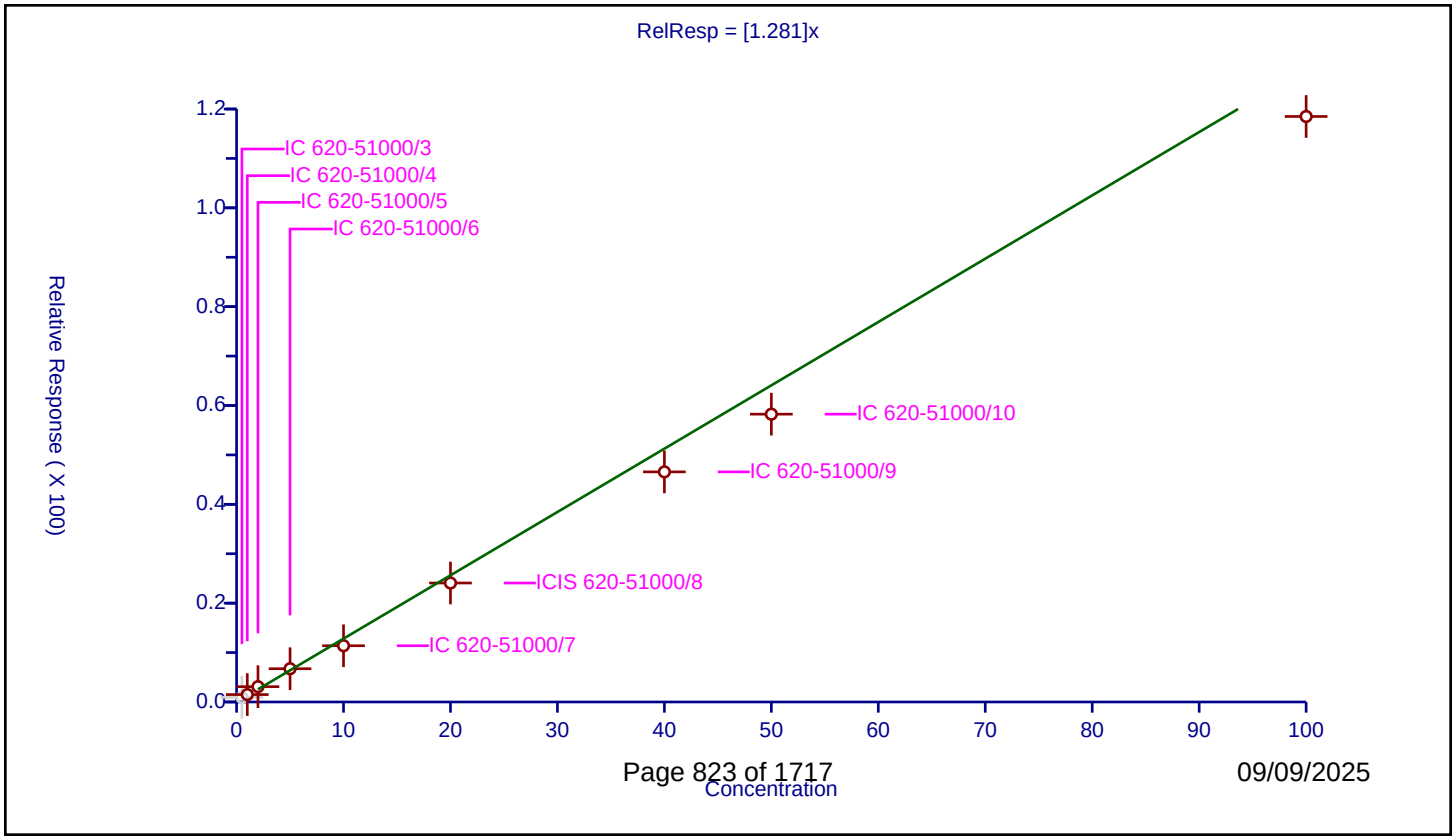
Curve Coefficients

Intercept:	0
Slope:	1.281

Error Coefficients

Relative Standard Deviation:	12.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.929963	50.0	374101.0	1.859926	N
2	IC 620-51000/4	1.0	1.499358	50.0	361188.0	1.499358	Y
3	IC 620-51000/5	2.0	3.100127	50.0	369372.0	1.550063	Y
4	IC 620-51000/6	5.0	6.730864	50.0	384854.0	1.346173	Y
5	IC 620-51000/7	10.0	11.384238	50.0	385454.0	1.138424	Y
6	ICIS 620-51000/8	20.0	24.077603	50.0	368930.0	1.20388	Y
7	IC 620-51000/9	40.0	46.568528	50.0	410305.0	1.164213	Y
8	IC 620-51000/10	50.0	58.248631	50.0	420197.0	1.164973	Y
9	IC 620-51000/11	100.0	118.490635	50.0	417679.0	1.184906	Y



Calibration / n-Butylbenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

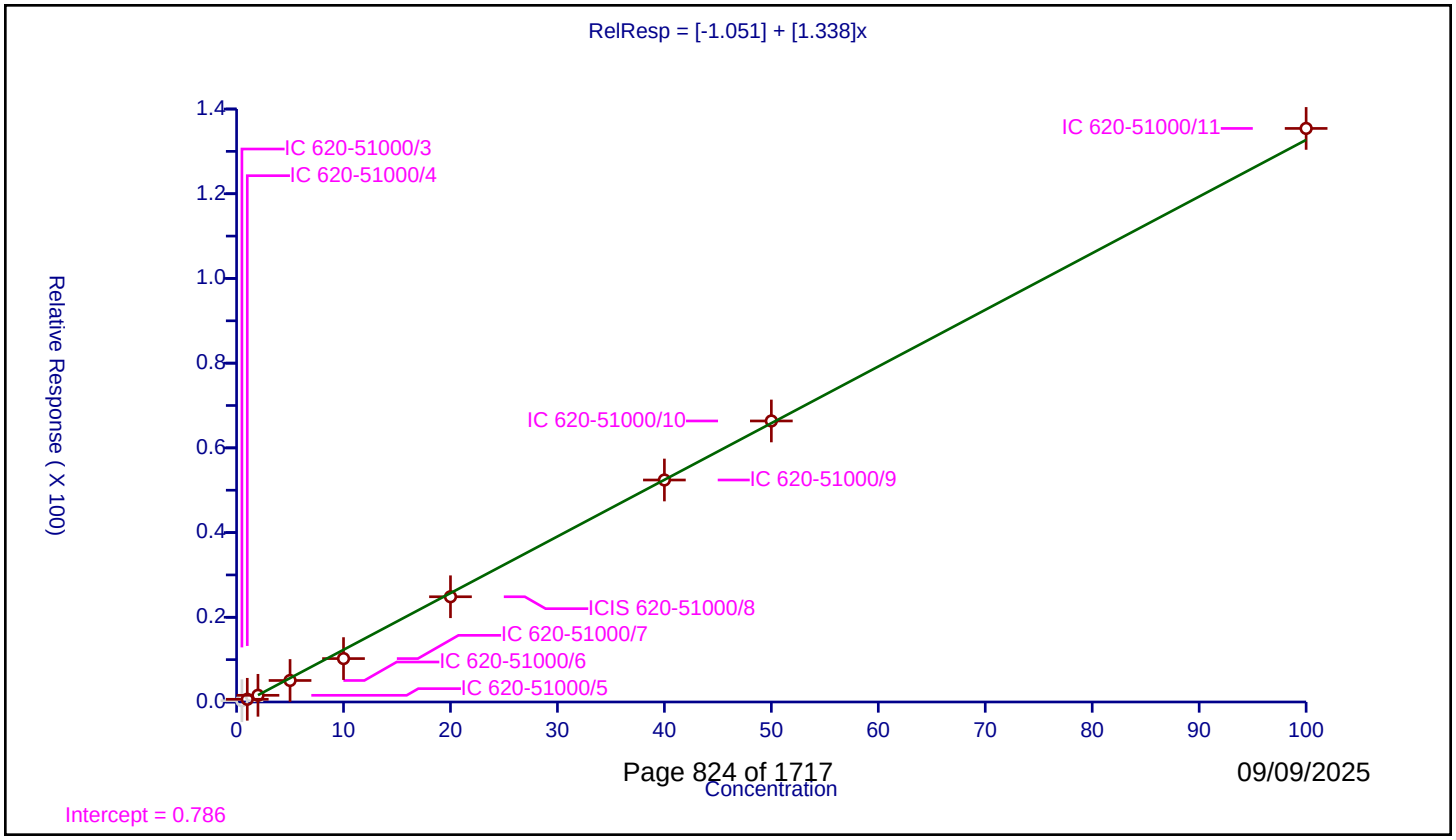
Curve Coefficients

Intercept:	-1.051
Slope:	1.338

Error Coefficients

Relative Standard Deviation:	13.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.296444	50.0	374101.0	0.592888	N
2	IC 620-51000/4	1.0	0.636372	50.0	361188.0	0.636372	Y
3	IC 620-51000/5	2.0	1.575918	50.0	369372.0	0.787959	Y
4	IC 620-51000/6	5.0	5.075041	50.0	384854.0	1.015008	Y
5	IC 620-51000/7	10.0	10.247267	50.0	385454.0	1.024727	Y
6	ICIS 620-51000/8	20.0	24.848074	50.0	368930.0	1.242404	Y
7	IC 620-51000/9	40.0	52.410402	50.0	410305.0	1.31026	Y
8	IC 620-51000/10	50.0	66.347689	50.0	420197.0	1.326954	Y
9	IC 620-51000/11	100.0	135.417869	50.0	417679.0	1.354179	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

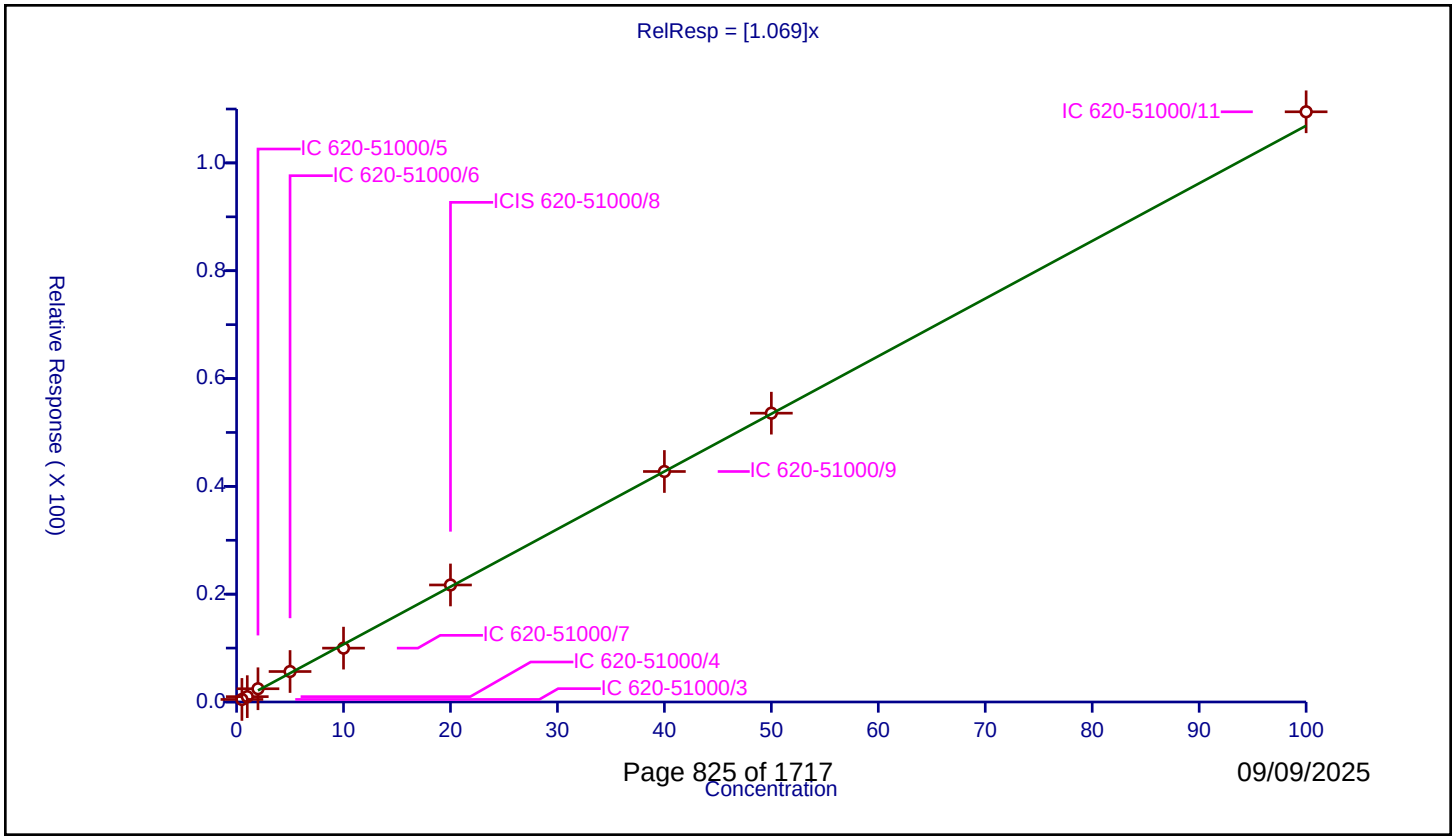
Curve Coefficients

Intercept:	0
Slope:	1.069

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.474604	50.0	374101.0	0.949209	Y
2	IC 620-51000/4	1.0	0.993804	50.0	361188.0	0.993804	Y
3	IC 620-51000/5	2.0	2.456196	50.0	369372.0	1.228098	Y
4	IC 620-51000/6	5.0	5.653573	50.0	384854.0	1.130715	Y
5	IC 620-51000/7	10.0	9.988481	50.0	385454.0	0.998848	Y
6	ICIS 620-51000/8	20.0	21.708454	50.0	368930.0	1.085423	Y
7	IC 620-51000/9	40.0	42.757583	50.0	410305.0	1.06894	Y
8	IC 620-51000/10	50.0	53.574276	50.0	420197.0	1.071486	Y
9	IC 620-51000/11	100.0	109.484317	50.0	417679.0	1.094843	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

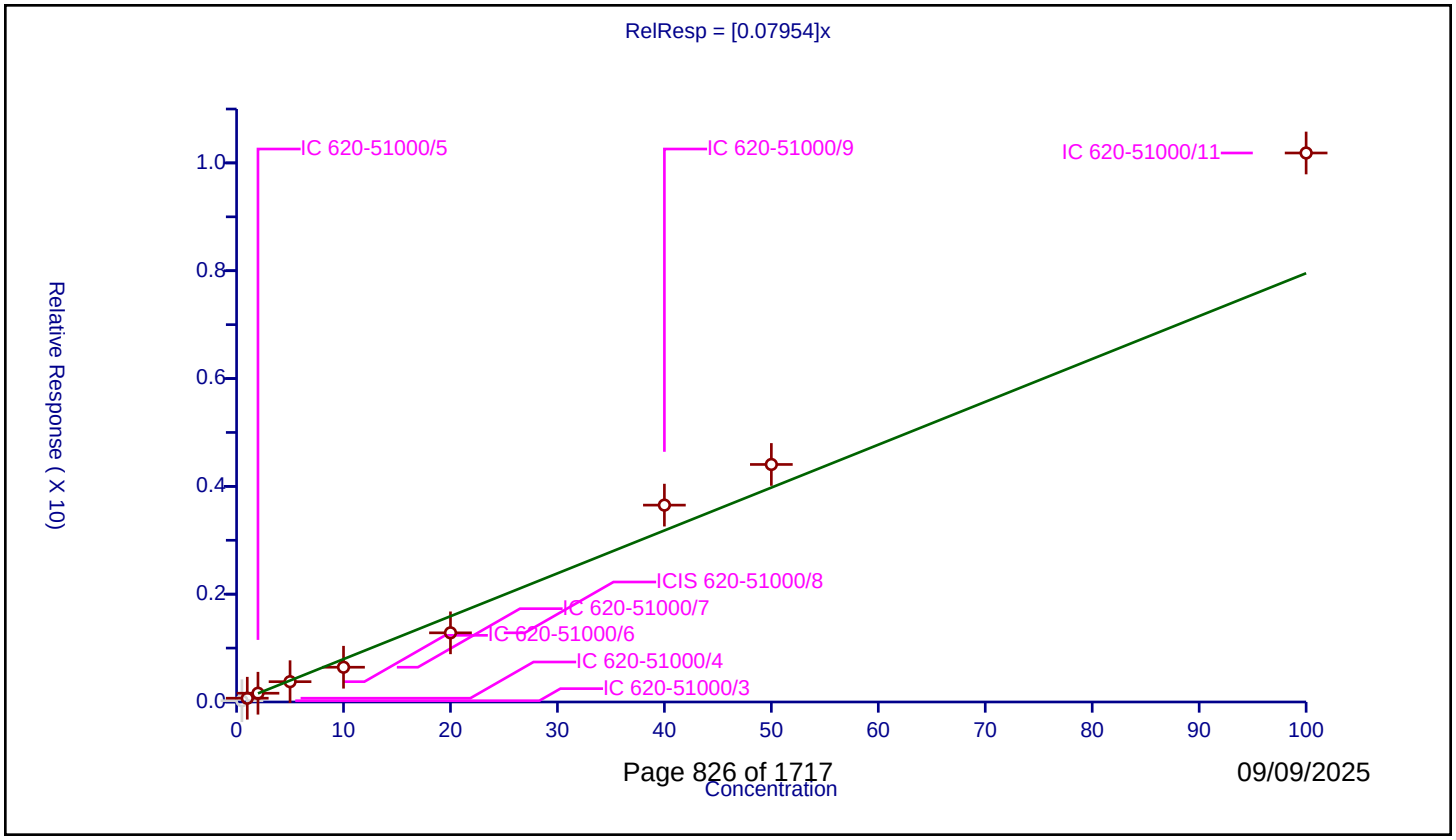
Curve Coefficients

Intercept:	0
Slope:	0.07954

Error Coefficients

Relative Standard Deviation:	17.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.023256	50.0	374101.0	0.046512	N
2	IC 620-51000/4	1.0	0.069908	50.0	361188.0	0.069908	Y
3	IC 620-51000/5	2.0	0.162303	50.0	369372.0	0.081151	Y
4	IC 620-51000/6	5.0	0.376896	50.0	384854.0	0.075379	Y
5	IC 620-51000/7	10.0	0.644694	50.0	385454.0	0.064469	Y
6	ICIS 620-51000/8	20.0	1.282764	50.0	368930.0	0.064138	Y
7	IC 620-51000/9	40.0	3.652039	50.0	410305.0	0.091301	Y
8	IC 620-51000/10	50.0	4.406267	50.0	420197.0	0.088125	Y
9	IC 620-51000/11	100.0	10.184496	50.0	417679.0	0.101845	Y



Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

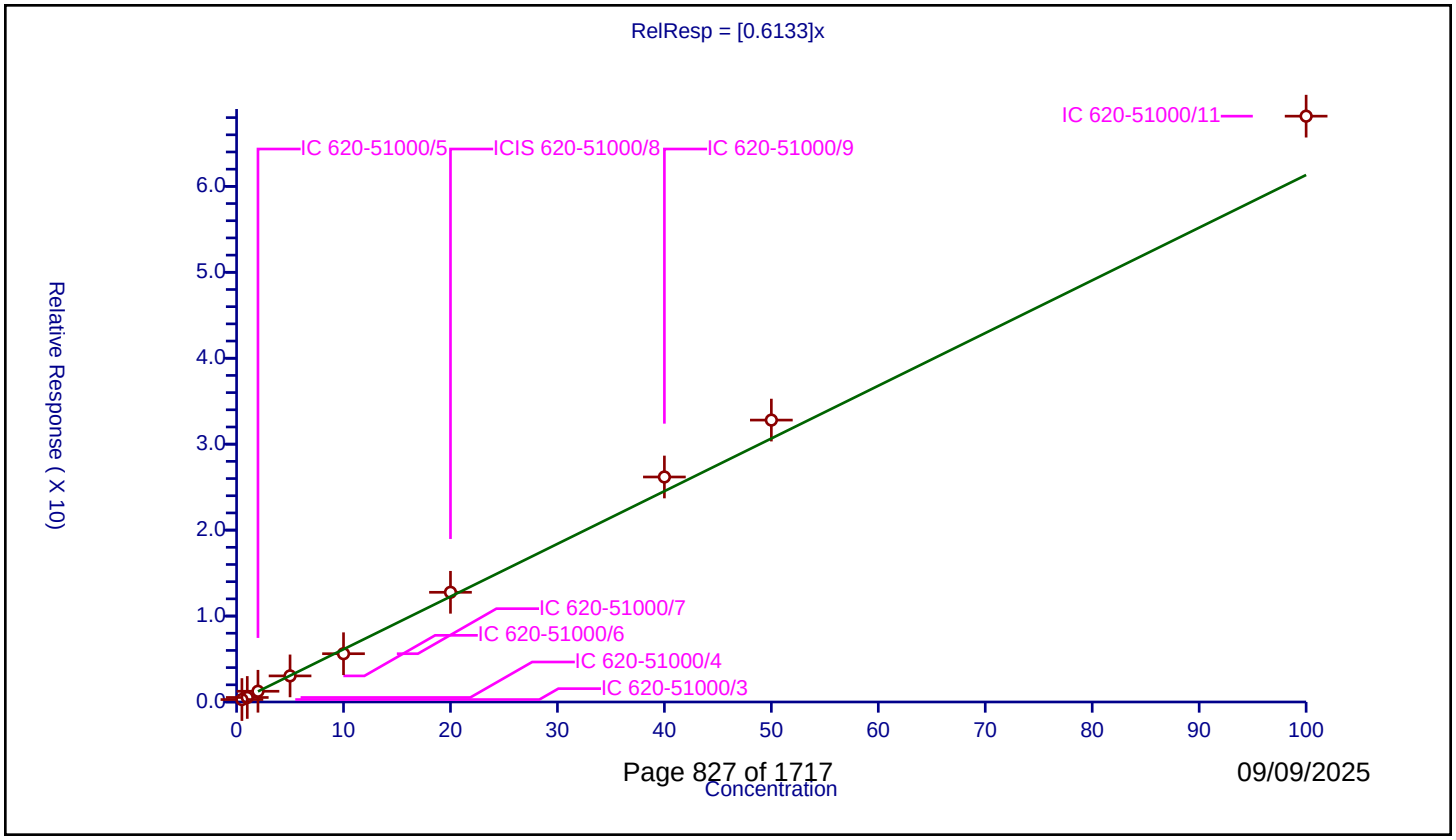
Curve Coefficients

Intercept:	0
Slope:	0.6133

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.283747	50.0	374101.0	0.567494	Y
2	IC 620-51000/4	1.0	0.527149	50.0	361188.0	0.527149	Y
3	IC 620-51000/5	2.0	1.250095	50.0	369372.0	0.625047	Y
4	IC 620-51000/6	5.0	3.036996	50.0	384854.0	0.607399	Y
5	IC 620-51000/7	10.0	5.61844	50.0	385454.0	0.561844	Y
6	ICIS 620-51000/8	20.0	12.763803	50.0	368930.0	0.63819	Y
7	IC 620-51000/9	40.0	26.182596	50.0	410305.0	0.654565	Y
8	IC 620-51000/10	50.0	32.803185	50.0	420197.0	0.656064	Y
9	IC 620-51000/11	100.0	68.168378	50.0	417679.0	0.681684	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

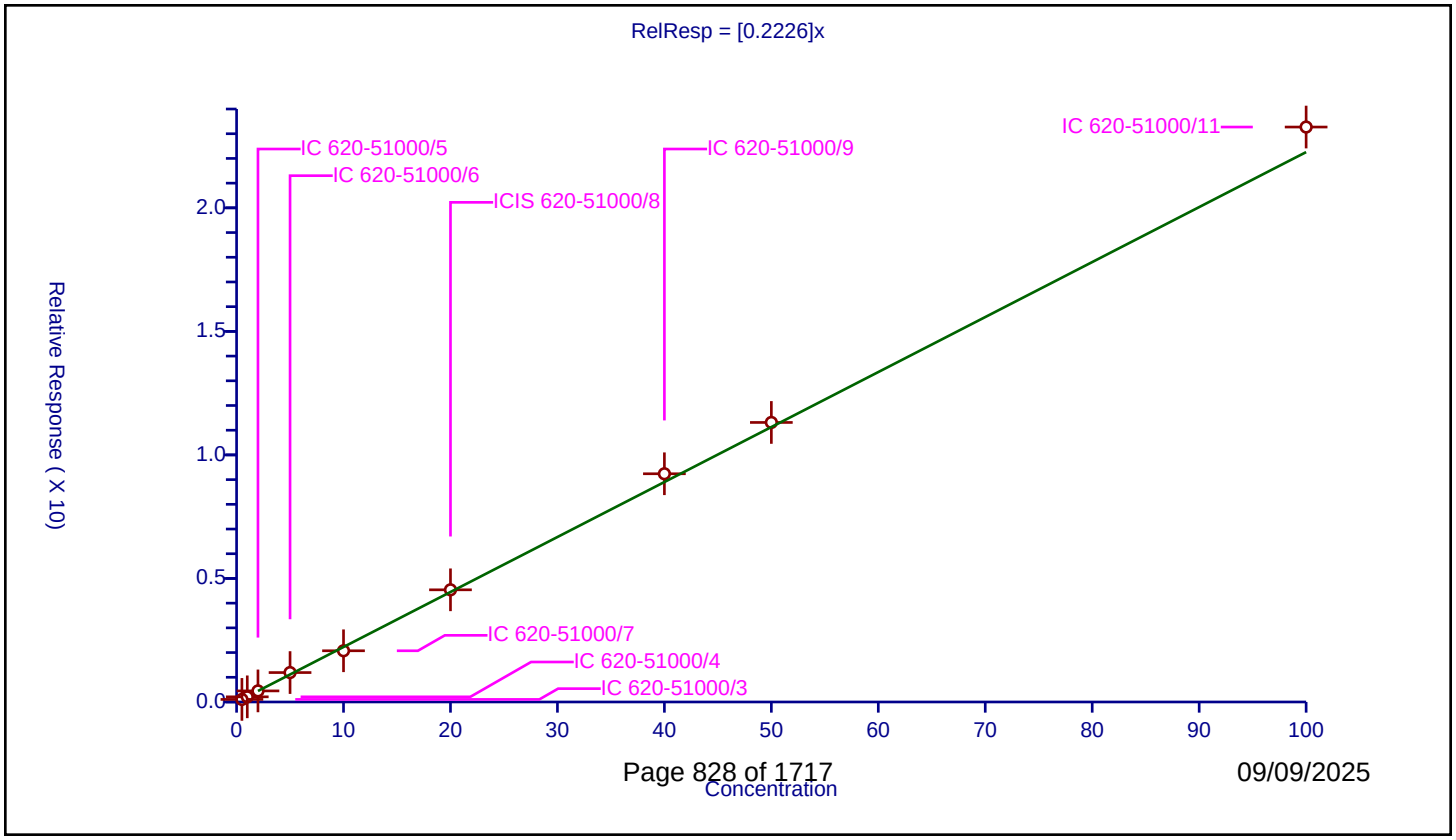
Curve Coefficients

Intercept:	0
Slope:	0.2226

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.103849	50.0	374101.0	0.207698	Y
2	IC 620-51000/4	1.0	0.208894	50.0	361188.0	0.208894	Y
3	IC 620-51000/5	2.0	0.447922	50.0	369372.0	0.223961	Y
4	IC 620-51000/6	5.0	1.191491	50.0	384854.0	0.238298	Y
5	IC 620-51000/7	10.0	2.07288	50.0	385454.0	0.207288	Y
6	ICIS 620-51000/8	20.0	4.540021	50.0	368930.0	0.227001	Y
7	IC 620-51000/9	40.0	9.237153	50.0	410305.0	0.230929	Y
8	IC 620-51000/10	50.0	11.314336	50.0	420197.0	0.226287	Y
9	IC 620-51000/11	100.0	23.270502	50.0	417679.0	0.232705	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

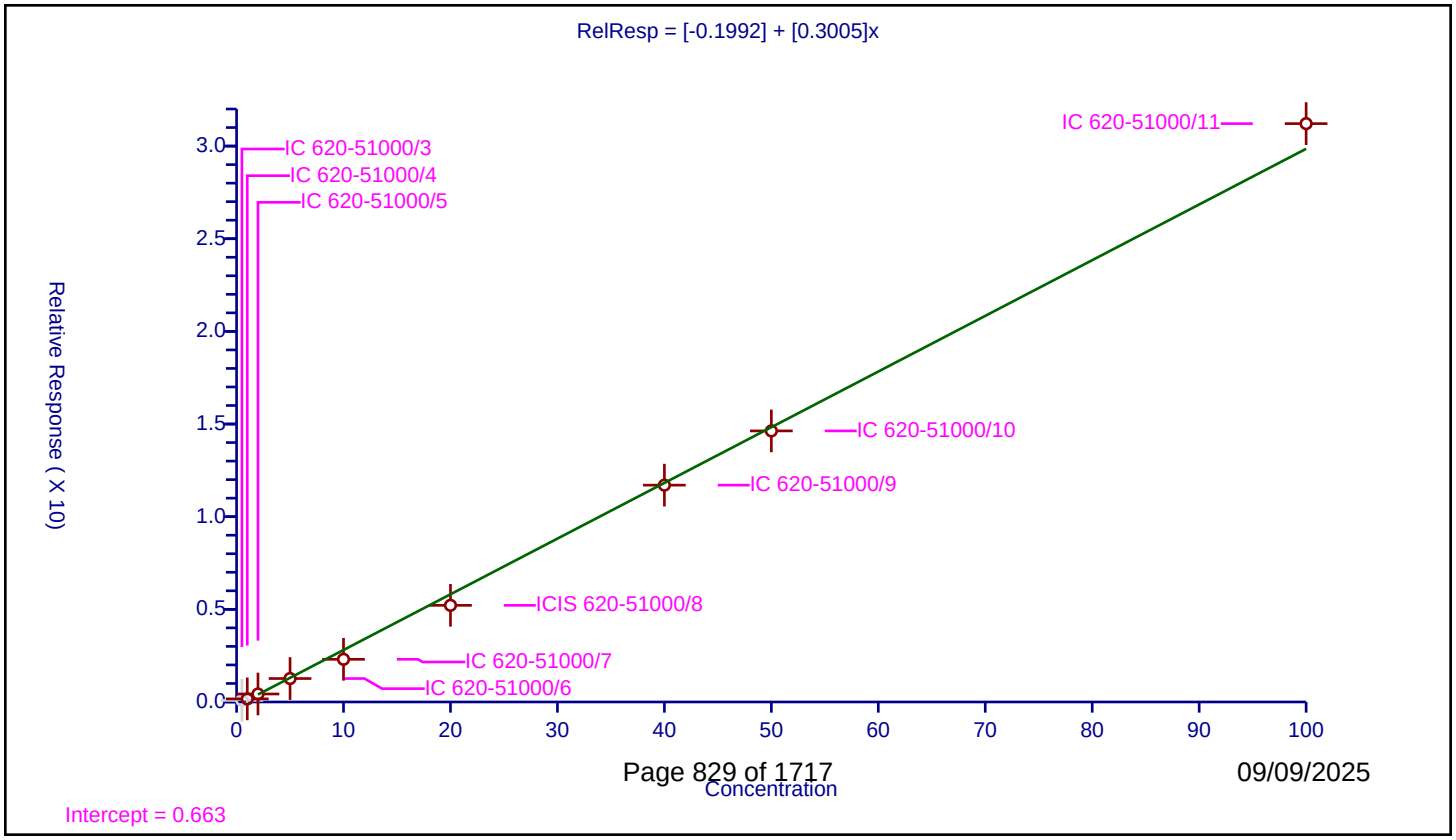
Curve Coefficients

Intercept:	-0.1992
Slope:	0.3005

Error Coefficients

Relative Standard Deviation:	12.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.085233	50.0	776108.0	0.170466	N
2	IC 620-51000/4	1.0	0.167328	50.0	759584.0	0.167328	Y
3	IC 620-51000/5	2.0	0.431572	50.0	770903.0	0.215786	Y
4	IC 620-51000/6	5.0	1.265952	50.0	772936.0	0.25319	Y
5	IC 620-51000/7	10.0	2.303242	50.0	771152.0	0.230324	Y
6	ICIS 620-51000/8	20.0	5.216254	50.0	733026.0	0.260813	Y
7	IC 620-51000/9	40.0	11.70127	50.0	810912.0	0.292532	Y
8	IC 620-51000/10	50.0	14.62842	50.0	839872.0	0.292568	Y
9	IC 620-51000/11	100.0	31.211252	50.0	839247.0	0.312113	Y



Calibration / Naphthalene

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

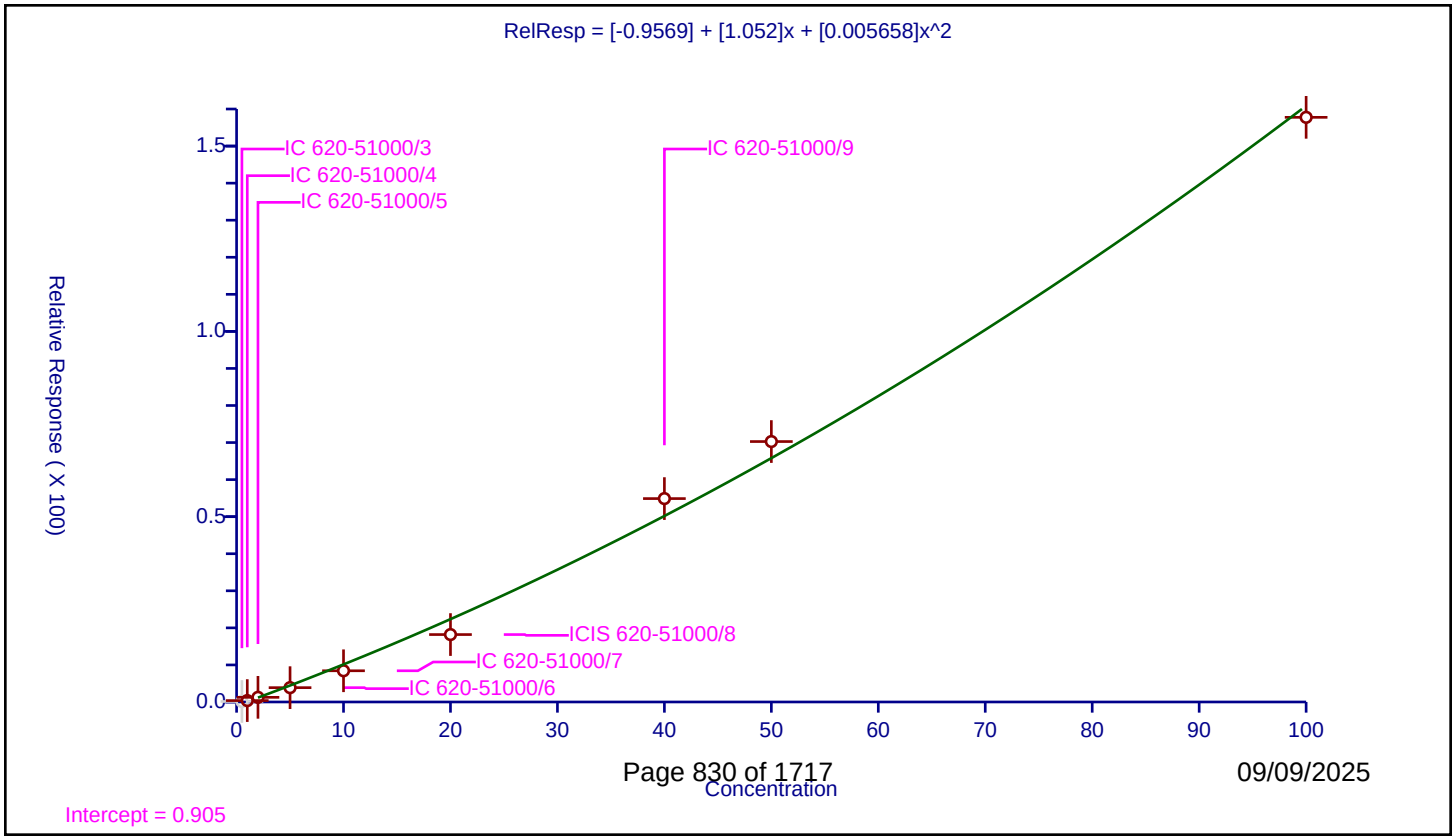
Curve Coefficients

Intercept:	-0.9569
Slope:	1.052
Second Order:	0.005658

Error Coefficients

Relative Standard Deviation:	16.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.130847	50.0	374101.0	0.261694	N
2	IC 620-51000/4	1.0	0.376258	50.0	361188.0	0.376258	Y
3	IC 620-51000/5	2.0	1.256457	50.0	369372.0	0.628228	Y
4	IC 620-51000/6	5.0	3.866012	50.0	384854.0	0.773202	Y
5	IC 620-51000/7	10.0	8.425	50.0	385454.0	0.8425	Y
6	ICIS 620-51000/8	20.0	18.192476	50.0	368930.0	0.909624	Y
7	IC 620-51000/9	40.0	54.879175	50.0	410305.0	1.371979	Y
8	IC 620-51000/10	50.0	70.276799	50.0	420197.0	1.405536	Y
9	IC 620-51000/11	100.0	157.755477	50.0	417679.0	1.577555	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

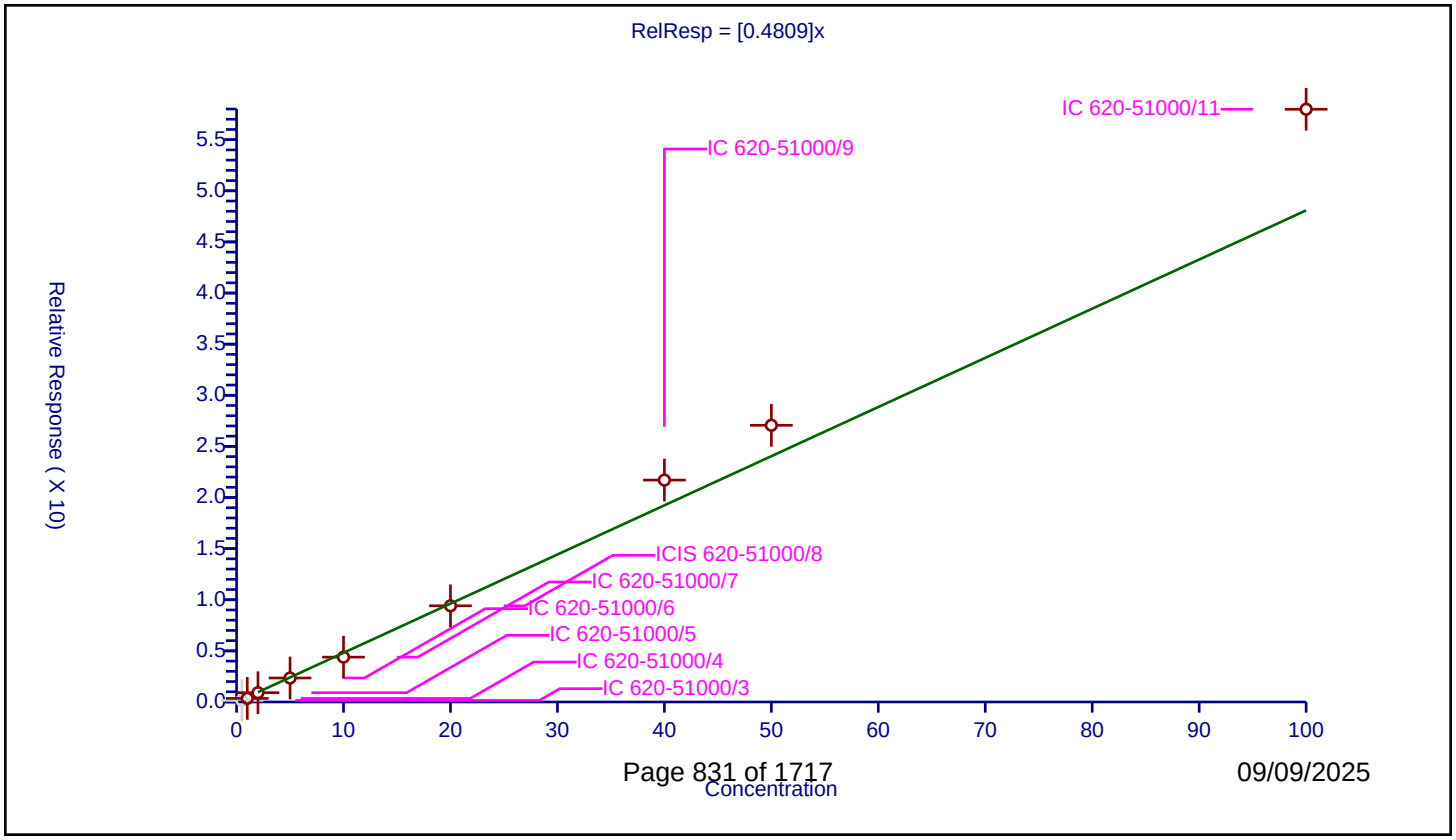
Curve Coefficients

Intercept:	0
Slope:	0.4809

Error Coefficients

Relative Standard Deviation:	15.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-51000/3	0.5	0.154236	50.0	374101.0	0.308473	N
2	IC 620-51000/4	1.0	0.350372	50.0	361188.0	0.350372	Y
3	IC 620-51000/5	2.0	0.909111	50.0	369372.0	0.454555	Y
4	IC 620-51000/6	5.0	2.346344	50.0	384854.0	0.469269	Y
5	IC 620-51000/7	10.0	4.384959	50.0	385454.0	0.438496	Y
6	ICIS 620-51000/8	20.0	9.408153	50.0	368930.0	0.470408	Y
7	IC 620-51000/9	40.0	21.70617	50.0	410305.0	0.542654	Y
8	IC 620-51000/10	50.0	27.063972	50.0	420197.0	0.541279	Y
9	IC 620-51000/11	100.0	57.977657	50.0	417679.0	0.579777	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: ICV 620-51723/16 Calibration Date: 08/07/2025 15:14

Instrument ID: HPV4 Calib Start Date: 07/22/2025 11:31

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 07/22/2025 14:40

Lab File ID: V4-080725-16.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
Ethyl methacrylate	Qua1		0.3093	0.0500		20.0		20.0
Vinyl acetate	Qua1					20.0		20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: ICV 620-51723/16 Calibration Date: 08/07/2025 15:14

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-080725-16.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 (Freon 12)	Ave	0.4092	0.2938	0.0100	14.4	20.0	-28.2	50.0
Chloromethane	Ave	0.3336	0.2725	0.0500	16.3	20.0	-18.3	20.0
Vinyl chloride	Ave	0.2562	0.2179	0.0500	17.0	20.0	-15.0	20.0
Bromomethane	Lin1		0.1674	0.0100	19.4	20.0	-3.1	50.0
Chloroethane	Ave	0.1681	0.1520	0.0830	18.1	20.0	-9.6	50.0
Ethanol	Ave	0.0026	0.0022*	0.0023	331	400	-17.2	20.0
Trichlorofluoromethane (Freon 11)	Ave	0.5758	0.5640	0.0500	19.6	20.0	-2.0	20.0
Acetone	Ave	0.1826	0.1460	0.0870	16.0	20.0	-20.1	50.0
Ethyl ether	Ave	0.2313	0.2072	0.0500	17.9	20.0	-10.4	20.0
1,1-Dichloroethene	Ave	0.2619	0.2332	0.0500	17.8	20.0	-10.9	20.0
Iodomethane	Qua1		0.1161	0.0500	17.0	20.0	-15.0	20.0
tert-Butanol	Ave	0.0233	0.0179	0.0080	154	200	-23.2*	20.0
Acrylonitrile	Ave	0.1131	0.1014	0.0430	17.9	20.0	-10.4	20.0
Methylene Chloride	Lin1		0.3113	0.0500	18.3	20.0	-8.3	20.0
1,1,2-Trichlorotrifluoroethane (Freon 113)	Ave	0.3254	0.2744	0.0500	16.9	20.0	-15.7	20.0
Methyl acetate	Ave	0.2387	0.2357	0.0500	19.8	20.0	-1.2	20.0
Carbon disulfide	Ave	0.9589	0.9278	0.0500	19.4	20.0	-3.2	20.0
trans-1,2-Dichloroethene	Ave	0.2766	0.2628	0.0500	19.0	20.0	-5.0	20.0
Methyl tert-butyl ether	Ave	0.7113	0.6903	0.0500	19.4	20.0	-3.0	20.0
1,1-Dichloroethane	Ave	0.5500	0.5062	0.0500	18.4	20.0	-8.0	20.0
2-Butanone (MEK)	Qua1		0.0816*	0.0950	15.5	20.0	-22.4	50.0
di-Isopropyl ether	Ave	0.7361	0.7124	0.0500	19.4	20.0	-3.2	20.0
cis-1,2-Dichloroethene	Ave	0.3106	0.2996	0.0500	19.3	20.0	-3.5	20.0
Bromochloromethane	Ave	0.1504	0.1391	0.0900	18.5	20.0	-7.5	20.0
Chloroform	Lin1		0.6492	0.0500	18.8	20.0	-6.2	20.0
2,2-Dichloropropane	Ave	0.3178	0.3044	0.0500	19.2	20.0	-4.2	20.0
Ethyl tert-butyl ether	Ave	0.7270	0.7005	0.0500	19.3	20.0	-3.6	20.0
Tetrahydrofuran	Ave	0.0686	0.0582	0.0290	17.0	20.0	-15.2	20.0
1,2-Dichloroethane	Ave	0.5209	0.4403	0.0500	16.9	20.0	-15.5	20.0
1,1,1-Trichloroethane	Ave	0.3974	0.3961	0.0500	19.9	20.0	-0.3	20.0
1,1-Dichloropropene	Ave	0.3655	0.3668	0.0500	20.1	20.0	0.4	20.0
Cyclohexane	Ave	0.4262	0.5082	0.0500	23.8	20.0	19.2	20.0
Carbon tetrachloride	Ave	0.1193	0.1679	0.0500	28.1	20.0	40.7*	20.0
Benzene	Ave	1.205	1.038	0.0500	17.2	20.0	-13.9	20.0
Tert-amyl methyl ether	Lin1		0.6241	0.0500	17.8	20.0	-11.2	20.0
Dibromomethane	Ave	0.2160	0.1948	0.1100	18.0	20.0	-9.8	20.0
1,2-Dichloropropane	Ave	0.2709	0.2553	0.0500	18.8	20.0	-5.8	20.0
Trichloroethene	Ave	0.3214	0.2868	0.0500	17.8	20.0	-10.8	20.0
Bromodichloromethane	Lin1		0.4318	0.0500	20.0	20.0	0.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: ICV 620-51723/16 Calibration Date: 08/07/2025 15:14

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-080725-16.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
1,4-Dioxane	Lin1		0.0023	0.0010	164	200	-17.8	50.0
Methylcyclohexane	Ave	0.4558	0.5688	0.0500	25.0	20.0	24.8*	20.0
cis-1,3-Dichloropropene	Ave	0.4392	0.4347	0.0500	19.8	20.0	-1.0	20.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.1691	0.0990	14.9	20.0	-25.6	50.0
trans-1,3-Dichloropropene	Ave	0.4224	0.4265	0.0500	20.2	20.0	1.0	20.0
1,1,2-Trichloroethane	Ave	0.2456	0.2188	0.0500	17.8	20.0	-10.9	20.0
Toluene	Ave	0.7205	0.6379	0.0500	17.7	20.0	-11.5	20.0
1,3-Dichloropropane	Ave	0.4875	0.4432	0.0500	18.2	20.0	-9.1	20.0
Dibromochloromethane	Ave	0.3754	0.3203	0.0500	17.1	20.0	-14.7	20.0
2-Hexanone (MBK)	Qua1		0.1743	0.0860	18.7	20.0	-6.3	50.0
1,2-Dibromoethane (EDB)	Ave	0.2904	0.2684	0.0500	18.5	20.0	-7.6	20.0
Tetrachloroethene	Ave	0.3379	0.3097	0.0500	18.3	20.0	-8.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4341	0.3840	0.0500	17.7	20.0	-11.5	20.0
Chlorobenzene	Ave	1.094	0.9868	0.0500	18.0	20.0	-9.8	20.0
Ethylbenzene	Ave	1.752	1.672	0.0500	19.1	20.0	-4.6	20.0
Bromoform	Ave	0.3558	0.3122	0.0500	17.6	20.0	-12.2	20.0
m,p-Xylene	Ave	1.283	1.322	0.0500	41.2	40.0	3.1	20.0
Styrene	Ave	0.9093	0.9581	0.0500	21.1	20.0	5.4	20.0
1,1,2,2-Tetrachloroethane	Qua1		0.4713	0.0500	16.1	20.0	-19.6	20.0
o-Xylene	Ave	1.459	1.393	0.0500	19.1	20.0	-4.5	20.0
1,2,3-Trichloropropane	Ave	0.4716	0.3885	0.0500	16.5	20.0	-17.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.0931	0.0791*	0.0910	17.0	20.0	-15.0	20.0
Isopropylbenzene	Ave	1.915	1.672	0.0500	17.5	20.0	-12.7	20.0
Bromobenzene	Ave	0.5047	0.4551	0.0500	18.0	20.0	-9.8	20.0
N-Propylbenzene	Lin1		2.233	0.0500	18.8	20.0	-6.0	20.0
2-Chlorotoluene	Ave	0.4171	0.3943	0.0500	18.9	20.0	-5.5	20.0
4-Chlorotoluene	Ave	1.432	1.338	0.0500	18.7	20.0	-6.6	20.0
1,3,5-Trimethylbenzene	Ave	1.440	1.411	0.0500	19.6	20.0	-2.0	20.0
tert-Butylbenzene	Ave	0.8790	0.8709	0.0500	19.8	20.0	-0.9	20.0
1,2,4-Trimethylbenzene	Ave	1.448	1.435	0.0500	19.8	20.0	-0.9	20.0
1,3-Dichlorobenzene	Ave	0.9407	0.8459	0.0500	18.0	20.0	-10.1	20.0
sec-Butylbenzene	Ave	1.897	1.785	0.0500	18.8	20.0	-5.9	20.0
1,4-Dichlorobenzene	Ave	1.695	1.494	0.0500	17.6	20.0	-11.8	20.0
4-Isopropyltoluene	Ave	2.644	2.643	0.0500	20.0	20.0	-0.0	20.0
1,2-Dichlorobenzene	Ave	1.460	1.370	0.0500	18.8	20.0	-6.1	20.0
n-Butylbenzene	Ave	2.392	2.611	0.0500	21.8	20.0	9.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2110	0.1670	0.0630	15.8	20.0	-20.9*	20.0
1,3,5-Trichlorobenzene	Ave	1.036	1.002	0.0500	19.3	20.0	-3.3	20.0
1,2,4-Trichlorobenzene	Ave	0.4723	0.4512	0.0500	19.1	20.0	-4.5	20.0
Naphthalene	Lin1		1.634	0.0500	16.1	20.0	-19.4	20.0
Hexachlorobutadiene	Ave	0.5172	0.4446	0.0500	17.2	20.0	-14.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: ICV 620-51723/16 Calibration Date: 08/07/2025 15:14

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-080725-16.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
1,2,3-Trichlorobenzene	Ave	0.7203	0.6771	0.0500	18.8	20.0	-6.0	20.0
Dibromofluoromethane (Surr)	Ave	0.3154	0.3185	0.0500	50.5	50.0	1.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4129	0.3963	0.0500	48.0	50.0	-4.0	20.0
Toluene-d8 (Surr)	Ave	0.9541	0.9485	0.0500	49.7	50.0	-0.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5442	0.5450	0.0500	50.1	50.0	0.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCVIS 620-52249/3 Calibration Date: 08/18/2025 10:31

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-081825-03.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 (Freon 12)	Ave	0.4092	0.2298	0.0100	11.2	20.0	-43.8	50.0
Chloromethane	Ave	0.3336	0.2406	0.0500	14.4	20.0	-27.9	50.0
Vinyl chloride	Ave	0.2562	0.2216	0.0500	17.3	20.0	-13.5	20.0
Bromomethane	Lin1		0.1441	0.0100	16.6	20.0	-17.2	50.0
Chloroethane	Ave	0.1681	0.1739	0.0830	20.7	20.0	3.4	50.0
Ethanol	Ave	0.0026	0.0028	0.0023	423	400	5.6	50.0
Trichlorofluoromethane (Freon 11)	Ave	0.5758	0.6220	0.0500	21.6	20.0	8.0	20.0
Acetone	Ave	0.1826	0.2307	0.0870	25.3	20.0	26.4	50.0
Ethyl ether	Ave	0.2313	0.2208	0.0500	19.1	20.0	-4.5	20.0
1,1-Dichloroethene	Ave	0.2619	0.2583	0.0500	19.7	20.0	-1.4	20.0
Iodomethane	Qua1		0.0405*	0.0500	5.98	20.0	-70.1*	20.0
tert-Butanol	Ave	0.0233	0.0240	0.0080	207	200	3.3	20.0
Acrylonitrile	Ave	0.1131	0.1171	0.0430	20.7	20.0	3.5	20.0
Methylene Chloride	Lin1		0.3414	0.0500	20.2	20.0	0.9	20.0
1,1,2-Trichlorotrifluoroethane (Freon 113)	Ave	0.3254	0.3343	0.0500	20.5	20.0	2.7	20.0
Methyl acetate	Ave	0.2387	0.2041	0.0500	17.1	20.0	-14.5	20.0
Carbon disulfide	Ave	0.9589	0.8993	0.0500	18.8	20.0	-6.2	20.0
trans-1,2-Dichloroethene	Ave	0.2766	0.2773	0.0500	20.1	20.0	0.3	20.0
Methyl tert-butyl ether	Ave	0.7113	0.7533	0.0500	21.2	20.0	5.9	20.0
1,1-Dichloroethane	Ave	0.5500	0.5659	0.0500	20.6	20.0	2.9	20.0
2-Butanone (MEK)	Qua1		0.1441	0.0950	24.1	20.0	20.6	50.0
di-Isopropyl ether	Ave	0.7361	0.7658	0.0500	20.8	20.0	4.0	20.0
cis-1,2-Dichloroethene	Ave	0.3106	0.3390	0.0500	21.8	20.0	9.1	20.0
Bromochloromethane	Ave	0.1504	0.1666	0.0900	22.1	20.0	10.7	50.0
Chloroform	Lin1		0.7757	0.0500	22.6	20.0	13.1	20.0
2,2-Dichloropropane	Ave	0.3178	0.4228	0.0500	26.6	20.0	33.1*	20.0
Ethyl tert-butyl ether	Ave	0.7270	0.7752	0.0500	21.3	20.0	6.6	20.0
Tetrahydrofuran	Ave	0.0686	0.0653	0.0290	19.0	20.0	-4.8	20.0
1,2-Dichloroethane	Ave	0.5209	0.5671	0.0500	21.8	20.0	8.9	20.0
1,1,1-Trichloroethane	Ave	0.3974	0.5665	0.0500	28.5	20.0	42.6*	20.0
1,1-Dichloropropene	Ave	0.3655	0.3902	0.0500	21.4	20.0	6.8	20.0
Cyclohexane	Ave	0.4262	0.4504	0.0500	21.1	20.0	5.7	20.0
Carbon tetrachloride	Ave	0.1193	0.3107	0.0500	52.1	20.0	160.5*	20.0
Benzene	Ave	1.205	1.203	0.0500	20.0	20.0	-0.2	20.0
Tert-amyl methyl ether	Lin1		0.7039	0.0500	20.2	20.0	0.8	20.0
Dibromomethane	Ave	0.2160	0.2338	0.1100	21.6	20.0	8.2	20.0
1,2-Dichloropropane	Ave	0.2709	0.2801	0.0500	20.7	20.0	3.4	20.0
Trichloroethene	Ave	0.3214	0.3503	0.0500	21.8	20.0	9.0	20.0
Bromodichloromethane	Lin1		0.5654	0.0500	26.3	20.0	31.6*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCVIS 620-52249/3 Calibration Date: 08/18/2025 10:31

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-081825-03.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
1,4-Dioxane	Lin1		0.0020	0.0010	150	200	-24.8	50.0
Methylcyclohexane	Ave	0.4558	0.5097	0.0500	22.4	20.0	11.8	20.0
cis-1,3-Dichloropropene	Ave	0.4392	0.5016	0.0500	22.8	20.0	14.2	20.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.2200	0.0990	19.2	20.0	-4.2	50.0
trans-1,3-Dichloropropene	Ave	0.4224	0.4758	0.0500	22.5	20.0	12.6	20.0
1,1,2-Trichloroethane	Ave	0.2456	0.2614	0.0500	21.3	20.0	6.4	20.0
Toluene	Ave	0.7205	0.7723	0.0500	21.4	20.0	7.2	20.0
1,3-Dichloropropane	Ave	0.4875	0.5268	0.0500	21.6	20.0	8.1	20.0
Dibromochloromethane	Ave	0.3754	0.4049	0.0500	21.6	20.0	7.9	20.0
2-Hexanone (MBK)	Qua1		0.2341	0.0860	23.3	20.0	16.5	50.0
1,2-Dibromoethane (EDB)	Ave	0.2904	0.3287	0.0500	22.6	20.0	13.2	20.0
Tetrachloroethene	Ave	0.3379	0.3784	0.0500	22.4	20.0	12.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4341	0.4937	0.0500	22.7	20.0	13.7	20.0
Chlorobenzene	Ave	1.094	1.151	0.0500	21.0	20.0	5.2	20.0
Ethylbenzene	Ave	1.752	2.048	0.0500	23.4	20.0	16.9	20.0
Bromoform	Ave	0.3558	0.4142	0.0500	23.3	20.0	16.4	50.0
m,p-Xylene	Ave	1.283	1.600	0.0500	24.9	20.0	24.7*	20.0
Styrene	Ave	0.9093	1.099	0.0500	24.2	20.0	20.9*	20.0
1,1,2,2-Tetrachloroethane	Qua1		0.5980	0.0500	20.6	20.0	3.1	20.0
o-Xylene	Ave	1.459	1.759	0.0500	24.1	20.0	20.6*	20.0
1,2,3-Trichloropropane	Ave	0.4716	0.4970	0.0500	21.1	20.0	5.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.0931	0.0966	0.0910	20.8	20.0	3.8	20.0
Isopropylbenzene	Ave	1.915	2.097	0.0500	21.9	20.0	9.5	20.0
Bromobenzene	Ave	0.5047	0.5574	0.0500	22.1	20.0	10.4	20.0
N-Propylbenzene	Lin1		2.583	0.0500	21.7	20.0	8.4	20.0
2-Chlorotoluene	Ave	0.4171	0.4759	0.0500	22.8	20.0	14.1	20.0
4-Chlorotoluene	Ave	1.432	1.632	0.0500	22.8	20.0	14.0	20.0
1,3,5-Trimethylbenzene	Ave	1.440	1.700	0.0500	23.6	20.0	18.1	20.0
tert-Butylbenzene	Ave	0.8790	1.038	0.0500	23.6	20.0	18.1	20.0
1,2,4-Trimethylbenzene	Ave	1.448	1.742	0.0500	24.1	20.0	20.3*	20.0
1,3-Dichlorobenzene	Ave	0.9407	1.037	0.0500	22.0	20.0	10.2	20.0
sec-Butylbenzene	Ave	1.897	2.193	0.0500	23.1	20.0	15.6	20.0
1,4-Dichlorobenzene	Ave	1.695	1.705	0.0500	20.1	20.0	0.6	20.0
4-Isopropyltoluene	Ave	2.644	2.979	0.0500	22.5	20.0	12.7	20.0
1,2-Dichlorobenzene	Ave	1.460	1.484	0.0500	20.3	20.0	1.6	20.0
n-Butylbenzene	Ave	2.392	2.654	0.0500	22.2	20.0	11.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2110	0.2020	0.0630	19.2	20.0	-4.2	20.0
1,3,5-Trichlorobenzene	Ave	1.036	1.022	0.0500	19.7	20.0	-1.4	20.0
1,2,4-Trichlorobenzene	Ave	0.4723	0.4759	0.0500	20.2	20.0	0.8	20.0
Naphthalene	Lin1		1.569	0.0500	15.5	20.0	-22.5*	20.0
Hexachlorobutadiene	Ave	0.5172	0.4692	0.0500	18.1	20.0	-9.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCVIS 620-52249/3 Calibration Date: 08/18/2025 10:31

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-081825-03.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
1,2,3-Trichlorobenzene	Ave	0.7203	0.6648	0.0500	18.5	20.0	-7.7	20.0
Dibromofluoromethane (Surr)	Ave	0.3154	0.3429	0.0500	54.4	50.0	8.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4129	0.4429	0.0500	53.6	50.0	7.3	20.0
Toluene-d8 (Surr)	Ave	0.9541	0.9850	0.0500	51.6	50.0	3.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5442	0.5695	0.0500	52.3	50.0	4.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCVIS 620-52339/3 Calibration Date: 08/19/2025 12:21

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-081925-02.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 (Freon 12)	Ave	0.4092	0.4472	0.0100	21.9	20.0	9.3	50.0
Chloromethane	Ave	0.3336	0.2471	0.0500	14.8	20.0	-25.9	50.0
Vinyl chloride	Ave	0.2562	0.2609	0.0500	20.4	20.0	1.8	20.0
Bromomethane	Lin1		0.1294	0.0100	14.8	20.0	-26.1	50.0
Chloroethane	Ave	0.1681	0.1759	0.0830	20.9	20.0	4.6	50.0
Ethanol	Ave	0.0026	0.0028	0.0023	435	400	8.8	50.0
Trichlorofluoromethane (Freon 11)	Ave	0.5758	0.6461	0.0500	22.4	20.0	12.2	20.0
Acetone	Ave	0.1826	0.1501	0.0870	16.4	20.0	-17.8	50.0
Ethyl ether	Ave	0.2313	0.2368	0.0500	20.5	20.0	2.4	20.0
1,1-Dichloroethene	Ave	0.2619	0.2900	0.0500	22.1	20.0	10.7	20.0
Iodomethane	Qua1		0.2136	0.0500	30.3	20.0	51.4*	20.0
tert-Butanol	Ave	0.0233	0.0232	0.0080	199	200	-0.4	20.0
Acrylonitrile	Ave	0.1131	0.1180	0.0430	20.9	20.0	4.4	20.0
Methylene Chloride	Lin1		0.3587	0.0500	21.2	20.0	6.2	20.0
1,1,2-Trichlorotrifluoroethane (Freon 113)	Ave	0.3254	0.3614	0.0500	22.2	20.0	11.1	20.0
Methyl acetate	Ave	0.2387	0.2046	0.0500	17.1	20.0	-14.3	20.0
Carbon disulfide	Ave	0.9589	1.046	0.0500	21.8	20.0	9.1	20.0
trans-1,2-Dichloroethene	Ave	0.2766	0.2904	0.0500	21.0	20.0	5.0	20.0
Methyl tert-butyl ether	Ave	0.7113	0.7924	0.0500	22.3	20.0	11.4	20.0
1,1-Dichloroethane	Ave	0.5500	0.5786	0.0500	21.0	20.0	5.2	20.0
2-Butanone (MEK)	Qua1		0.0797*	0.0950	15.2	20.0	-23.8	50.0
di-Isopropyl ether	Ave	0.7361	0.7683	0.0500	20.9	20.0	4.4	20.0
cis-1,2-Dichloroethene	Ave	0.3106	0.3415	0.0500	22.0	20.0	9.9	20.0
Bromochloromethane	Ave	0.1504	0.1682	0.0900	22.4	20.0	11.8	50.0
Chloroform	Lin1		0.7443	0.0500	21.7	20.0	8.3	20.0
2,2-Dichloropropane	Ave	0.3178	0.3934	0.0500	24.8	20.0	23.8*	20.0
Ethyl tert-butyl ether	Ave	0.7270	0.7800	0.0500	21.5	20.0	7.3	20.0
Tetrahydrofuran	Ave	0.0686	0.0658	0.0290	19.2	20.0	-4.1	20.0
1,2-Dichloroethane	Ave	0.5209	0.5442	0.0500	20.9	20.0	4.5	20.0
1,1,1-Trichloroethane	Ave	0.3974	0.5327	0.0500	26.8	20.0	34.0*	20.0
1,1-Dichloropropene	Ave	0.3655	0.4113	0.0500	22.5	20.0	12.5	20.0
Cyclohexane	Ave	0.4262	0.4898	0.0500	23.0	20.0	14.9	20.0
Carbon tetrachloride	Ave	0.1193	0.3143	0.0500	52.7	20.0	163.4*	20.0
Benzene	Ave	1.205	1.233	0.0500	20.5	20.0	2.3	20.0
Tert-amyl methyl ether	Lin1		0.6930	0.0500	19.8	20.0	-0.8	20.0
Dibromomethane	Ave	0.2160	0.2281	0.1100	21.1	20.0	5.6	20.0
1,2-Dichloropropane	Ave	0.2709	0.2817	0.0500	20.8	20.0	4.0	20.0
Trichloroethene	Ave	0.3214	0.3478	0.0500	21.6	20.0	8.2	20.0
Bromodichloromethane	Lin1		0.5293	0.0500	24.6	20.0	23.1*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCVIS 620-52339/3 Calibration Date: 08/19/2025 12:21

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-081925-02.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
1,4-Dioxane	Lin1		0.0024	0.0010	173	200	-13.5	50.0
Methylcyclohexane	Ave	0.4558	0.5490	0.0500	24.1	20.0	20.4*	20.0
cis-1,3-Dichloropropene	Ave	0.4392	0.4819	0.0500	21.9	20.0	9.7	20.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.1723	0.0990	15.1	20.0	-24.3	50.0
trans-1,3-Dichloropropene	Ave	0.4224	0.4523	0.0500	21.4	20.0	7.1	20.0
1,1,2-Trichloroethane	Ave	0.2456	0.2564	0.0500	20.9	20.0	4.4	20.0
Toluene	Ave	0.7205	0.7693	0.0500	21.4	20.0	6.8	20.0
1,3-Dichloropropane	Ave	0.4875	0.5081	0.0500	20.8	20.0	4.2	20.0
Dibromochloromethane	Ave	0.3754	0.3860	0.0500	20.6	20.0	2.8	20.0
2-Hexanone (MBK)	Qua1		0.1231	0.0860	14.4	20.0	-28.2	50.0
1,2-Dibromoethane (EDB)	Ave	0.2904	0.3158	0.0500	21.7	20.0	8.7	20.0
Tetrachloroethene	Ave	0.3379	0.3814	0.0500	22.6	20.0	12.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4341	0.4737	0.0500	21.8	20.0	9.1	20.0
Chlorobenzene	Ave	1.094	1.124	0.0500	20.6	20.0	2.8	20.0
Ethylbenzene	Ave	1.752	2.001	0.0500	22.8	20.0	14.2	20.0
Bromoform	Ave	0.3558	0.3913	0.0500	22.0	20.0	10.0	50.0
m,p-Xylene	Ave	1.283	1.525	0.0500	23.8	20.0	18.9	20.0
Styrene	Ave	0.9093	1.073	0.0500	23.6	20.0	18.0	20.0
1,1,2,2-Tetrachloroethane	Qua1		0.5703	0.0500	19.6	20.0	-1.9	20.0
o-Xylene	Ave	1.459	1.704	0.0500	23.4	20.0	16.8	20.0
1,2,3-Trichloropropane	Ave	0.4716	0.4677	0.0500	19.8	20.0	-0.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.0931	0.0873*	0.0910	18.7	20.0	-6.3	20.0
Isopropylbenzene	Ave	1.915	2.008	0.0500	21.0	20.0	4.9	20.0
Bromobenzene	Ave	0.5047	0.5420	0.0500	21.5	20.0	7.4	20.0
N-Propylbenzene	Lin1		2.539	0.0500	21.3	20.0	6.6	20.0
2-Chlorotoluene	Ave	0.4171	0.4652	0.0500	22.3	20.0	11.5	20.0
4-Chlorotoluene	Ave	1.432	1.594	0.0500	22.3	20.0	11.3	20.0
1,3,5-Trimethylbenzene	Ave	1.440	1.677	0.0500	23.3	20.0	16.5	20.0
tert-Butylbenzene	Ave	0.8790	1.020	0.0500	23.2	20.0	16.1	20.0
1,2,4-Trimethylbenzene	Ave	1.448	1.688	0.0500	23.3	20.0	16.6	20.0
1,3-Dichlorobenzene	Ave	0.9407	0.9933	0.0500	21.1	20.0	5.6	20.0
sec-Butylbenzene	Ave	1.897	2.147	0.0500	22.6	20.0	13.2	20.0
1,4-Dichlorobenzene	Ave	1.695	1.656	0.0500	19.5	20.0	-2.3	20.0
4-Isopropyltoluene	Ave	2.644	2.987	0.0500	22.6	20.0	13.0	20.0
1,2-Dichlorobenzene	Ave	1.460	1.470	0.0500	20.1	20.0	0.7	20.0
n-Butylbenzene	Ave	2.392	2.664	0.0500	22.3	20.0	11.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2110	0.1906	0.0630	18.1	20.0	-9.6	20.0
1,3,5-Trichlorobenzene	Ave	1.036	1.017	0.0500	19.6	20.0	-1.8	20.0
1,2,4-Trichlorobenzene	Ave	0.4723	0.4535	0.0500	19.2	20.0	-4.0	20.0
Naphthalene	Lin1		1.491	0.0500	14.8	20.0	-26.2*	20.0
Hexachlorobutadiene	Ave	0.5172	0.4578	0.0500	17.7	20.0	-11.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCVIS 620-52339/3 Calibration Date: 08/19/2025 12:21

Instrument ID: HPV4 Calib Start Date: 08/07/2025 08:50

GC Column: DB-VRX ID: 0.18(mm) Calib End Date: 08/07/2025 11:53

Lab File ID: V4-081925-02.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
1,2,3-Trichlorobenzene	Ave	0.7203	0.6240	0.0500	17.3	20.0	-13.4	20.0
Dibromofluoromethane (Surr)	Ave	0.3154	0.3361	0.0500	53.3	50.0	6.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4129	0.4215	0.0500	51.0	50.0	2.1	20.0
Toluene-d8 (Surr)	Ave	0.9541	0.9815	0.0500	51.4	50.0	2.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5442	0.5578	0.0500	51.3	50.0	2.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: ICV 620-51000/14 Calibration Date: 07/24/2025 15:28

Instrument ID: HPV5 Calib Start Date: 07/24/2025 10:25

GC Column: RTX-VMS ID: 0.25(mm) Calib End Date: 07/24/2025 13:52

Lab File ID: V5-072425-14.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 (Freon 12)	Ave	0.1469	0.1002	0.0100	13.6	20.0	-31.8	50.0
Chloromethane	Ave	0.2140	0.1817	0.0500	17.0	20.0	-15.1	20.0
Vinyl chloride	Ave	0.1631	0.1418	0.0500	17.4	20.0	-13.0	20.0
Bromomethane	Ave	0.0652	0.0565	0.0100	17.3	20.0	-13.4	50.0
Chloroethane	Qua1		0.0491*	0.0830	13.6	20.0	-32.1	50.0
Trichlorofluoromethane (Freon 11)	Ave	0.2794	0.2782	0.0500	19.9	20.0	-0.4	20.0
Ethyl ether	Ave	0.1572	0.1502	0.0500	19.1	20.0	-4.5	20.0
Ethanol	Ave	0.0017	0.0017*	0.0023	401	400	0.2	20.0
1,1-Dichloroethene	Ave	0.1682	0.1538	0.0500	18.3	20.0	-8.6	20.0
Carbon disulfide	Ave	0.5478	0.4732	0.0500	17.3	20.0	-13.6	20.0
1,1,2-Trichlorotrifluoroethane (Freon 113)	Ave	0.1753	0.1644	0.0500	18.8	20.0	-6.2	20.0
Iodomethane	Qua1		0.1331	0.0500	12.1	20.0	-39.7*	20.0
Methylene Chloride	Lin1		0.1865	0.0500	18.2	20.0	-9.2	20.0
Acetone	Ave	0.0663	0.0712*	0.0870	21.5	20.0	7.4	50.0
trans-1,2-Dichloroethene	Ave	0.1883	0.1827	0.0500	19.4	20.0	-2.9	20.0
Methyl acetate	Ave	0.1321	0.1211	0.0500	18.3	20.0	-8.4	20.0
Methyl tert-butyl ether	Ave	0.3746	0.3885	0.0500	20.7	20.0	3.7	20.0
tert-Butanol	Qua1		0.0095	0.0080	248	200	23.9*	20.0
di-Isopropyl ether	Ave	0.5981	0.5925	0.0500	19.8	20.0	-0.9	20.0
1,1-Dichloroethane	Ave	0.3492	0.3272	0.0500	18.7	20.0	-6.3	20.0
Acrylonitrile	Qua1		0.0655	0.0430	20.9	20.0	4.3	20.0
Ethyl tert-butyl ether	Ave	0.4044	0.4079	0.0500	20.2	20.0	0.9	20.0
Vinyl acetate	Qua1		0.3695	0.0500	18.1	20.0	-9.5	20.0
cis-1,2-Dichloroethene	Ave	0.2125	0.2028	0.0500	19.1	20.0	-4.6	20.0
2,2-Dichloropropane	Ave	0.2146	0.2099	0.0500	19.6	20.0	-2.2	20.0
Bromochloromethane	Ave	0.1236	0.1094	0.0900	17.7	20.0	-11.5	20.0
Cyclohexane	Ave	0.2560	0.2208	0.0500	17.2	20.0	-13.8	20.0
Chloroform	Lin1		0.3511	0.0500	18.0	20.0	-9.8	20.0
Carbon tetrachloride	Ave	0.2661	0.2506	0.0500	18.8	20.0	-5.8	20.0
Tetrahydrofuran	Ave	0.0451	0.0463	0.0290	20.5	20.0	2.6	20.0
1,1,1-Trichloroethane	Ave	0.3040	0.2900	0.0500	19.1	20.0	-4.6	20.0
2-Butanone (MEK)	Qua1		0.0823*	0.0950	19.3	20.0	-3.6	50.0
1,1-Dichloropropene	Ave	0.2208	0.2281	0.0500	20.7	20.0	3.3	20.0
Benzene	Ave	0.7666	0.6942	0.0500	18.1	20.0	-9.5	20.0
Tert-amyl methyl ether	Ave	0.2928	0.2962	0.0500	20.2	20.0	1.2	20.0
1,2-Dichloroethane	Ave	0.3142	0.2685	0.0500	17.1	20.0	-14.6	20.0
Methylcyclohexane	Ave	0.2067	0.1901	0.0500	18.4	20.0	-8.0	20.0
Trichloroethene	Ave	0.2237	0.1989	0.0500	17.8	20.0	-11.1	20.0
Dibromomethane	Ave	0.1403	0.1292	0.1100	18.4	20.0	-7.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: ICV 620-51000/14 Calibration Date: 07/24/2025 15:28

Instrument ID: HPV5 Calib Start Date: 07/24/2025 10:25

GC Column: RTX-VMS ID: 0.25(mm) Calib End Date: 07/24/2025 13:52

Lab File ID: V5-072425-14.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-Dichloropropane	Ave	0.1897	0.1832	0.0500	19.3	20.0	-3.4	20.0
Bromodichloromethane	Ave	0.2951	0.2441	0.0500	16.5	20.0	-17.3	20.0
1,4-Dioxane	Qua1		0.0017	0.0010	227	200	13.4	50.0
cis-1,3-Dichloropropene	Lin1		0.2618	0.0500	17.6	20.0	-11.9	20.0
Toluene	Ave	0.5020	0.4613	0.0500	18.4	20.0	-8.1	20.0
Tetrachloroethene	Ave	0.2241	0.2168	0.0500	19.4	20.0	-3.2	20.0
4-Methyl-2-pentanone (MIBK)	Qua1		0.1402	0.0990	19.1	20.0	-4.4	50.0
trans-1,3-Dichloropropene	Qua1		0.2479	0.0500	19.7	20.0	-1.4	20.0
1,1,2-Trichloroethane	Ave	0.1531	0.1469	0.0500	19.2	20.0	-4.1	20.0
Ethyl methacrylate	Qua1		0.1603	0.0500	19.2	20.0	-3.9	20.0
Dibromochloromethane	Ave	0.2327	0.2057	0.0500	17.7	20.0	-11.6	20.0
1,3-Dichloropropane	Ave	0.2939	0.2812	0.0500	19.1	20.0	-4.3	20.0
1,2-Dibromoethane (EDB)	Ave	0.1845	0.1839	0.0500	19.9	20.0	-0.3	20.0
2-Hexanone (MBK)	Qua1		0.1120	0.0860	22.9	20.0	14.5	50.0
Chlorobenzene	Ave	0.7651	0.7056	0.0500	18.4	20.0	-7.8	20.0
Ethylbenzene	Ave	1.143	1.092	0.0500	19.1	20.0	-4.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2669	0.2484	0.0500	18.6	20.0	-6.9	20.0
m,p-Xylene	Ave	0.8365	0.8452	0.0500	40.4	40.0	1.0	20.0
o-Xylene	Ave	0.8454	0.8438	0.0500	20.0	20.0	-0.2	20.0
Styrene	Lin1		0.6735	0.0500	18.7	20.0	-6.3	20.0
Bromoform	Ave	0.1691	0.1622	0.0500	19.2	20.0	-4.1	20.0
Isopropylbenzene	Ave	0.9668	1.006	0.0500	20.8	20.0	4.1	20.0
Bromobenzene	Ave	0.3401	0.3083	0.0500	18.1	20.0	-9.4	20.0
N-Propylbenzene	Ave	1.123	1.144	0.0500	20.4	20.0	1.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.2961	0.2660	0.0500	18.0	20.0	-10.2	20.0
2-Chlorotoluene	Ave	0.7169	0.7044	0.0500	19.7	20.0	-1.7	20.0
1,2,3-Trichloropropane	Ave	0.2451	0.2249	0.0500	18.4	20.0	-8.2	20.0
1,3,5-Trimethylbenzene	Ave	0.8184	0.8186	0.0500	20.0	20.0	0.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.0490	0.0482*	0.0910	19.7	20.0	-1.6	20.0
4-Chlorotoluene	Ave	0.7742	0.7480	0.0500	19.3	20.0	-3.4	20.0
tert-Butylbenzene	Ave	0.4973	0.5339	0.0500	21.5	20.0	7.4	20.0
1,2,4-Trimethylbenzene	Lin1		0.8123	0.0500	18.8	20.0	-6.0	20.0
sec-Butylbenzene	Ave	0.8640	0.9270	0.0500	21.5	20.0	7.3	20.0
4-Isopropyltoluene	Lin1		1.617	0.0500	18.8	20.0	-6.2	20.0
1,3-Dichlorobenzene	Ave	0.5708	0.5389	0.0500	18.9	20.0	-5.6	20.0
1,4-Dichlorobenzene	Ave	1.281	1.088	0.0500	17.0	20.0	-15.1	20.0
n-Butylbenzene	Lin1		1.263	0.0500	19.7	20.0	-1.7	20.0
1,2-Dichlorobenzene	Ave	1.069	0.9899	0.0500	18.5	20.0	-7.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0795	0.0723	0.0630	18.2	20.0	-9.1	20.0
1,3,5-Trichlorobenzene	Ave	0.6133	0.6235	0.0500	20.3	20.0	1.7	20.0
Hexachlorobutadiene	Ave	0.2226	0.2171	0.0500	19.5	20.0	-2.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: ICV 620-51000/14 Calibration Date: 07/24/2025 15:28

Instrument ID: HPV5 Calib Start Date: 07/24/2025 10:25

GC Column: RTX-VMS ID: 0.25(mm) Calib End Date: 07/24/2025 13:52

Lab File ID: V5-072425-14.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
1,2,4-Trichlorobenzene	Lin1		0.2617	0.0500	18.1	20.0	-9.6	20.0
Naphthalene	Qua1		1.114	0.0500	20.0	20.0	-0.2	20.0
1,2,3-Trichlorobenzene	Ave	0.4809	0.4847	0.0500	20.2	20.0	0.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2867	0.2854	0.0500	49.8	50.0	-0.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2840	0.2840	0.0500	50.0	50.0	0.0	20.0
Toluene-d8 (Surr)	Ave	0.9268	0.9316	0.0500	50.3	50.0	0.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4312	0.4357	0.0500	50.5	50.0	1.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCVIS 620-52457/3 Calibration Date: 08/20/2025 19:54

Instrument ID: HPV5 Calib Start Date: 07/24/2025 10:25

GC Column: RTX-VMS ID: 0.25(mm) Calib End Date: 07/24/2025 13:52

Lab File ID: V5-082025-14.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 (Freon 12)	Ave	0.1469	0.1193	0.0100	16.2	20.0	-18.8	50.0
Chloromethane	Ave	0.2140	0.1456	0.0500	13.6	20.0	-32.0	50.0
Vinyl chloride	Ave	0.1631	0.1313	0.0500	16.1	20.0	-19.5	20.0
Bromomethane	Ave	0.0652	0.0494	0.0100	15.2	20.0	-24.2	50.0
Chloroethane	Qua1		0.0631*	0.0830	18.6	20.0	-7.1	50.0
Trichlorofluoromethane (Freon 11)	Ave	0.2794	0.2769	0.0500	19.8	20.0	-0.9	20.0
Ethyl ether	Ave	0.1572	0.1244	0.0500	15.8	20.0	-20.9*	20.0
Ethanol	Ave	0.0017	0.0012*	0.0023	275	400	-31.2	50.0
1,1-Dichloroethene	Ave	0.1682	0.1429	0.0500	17.0	20.0	-15.0	20.0
Carbon disulfide	Ave	0.5478	0.4209	0.0500	15.4	20.0	-23.2*	20.0
1,1,2-Trichlorotrifluoroethane (Freon 113)	Ave	0.1753	0.1638	0.0500	18.7	20.0	-6.6	20.0
Methylene Chloride	Lin1		0.1838	0.0500	17.9	20.0	-10.6	20.0
Acetone	Ave	0.0663	0.0564*	0.0870	17.0	20.0	-14.9	50.0
trans-1,2-Dichloroethene	Ave	0.1883	0.1649	0.0500	17.5	20.0	-12.4	20.0
Methyl tert-butyl ether	Ave	0.3746	0.3840	0.0500	20.5	20.0	2.5	20.0
tert-Butanol	Qua1		0.0077*	0.0080	205	200	2.5	20.0
di-Isopropyl ether	Ave	0.5981	0.4274	0.0500	14.3	20.0	-28.5*	20.0
1,1-Dichloroethane	Ave	0.3492	0.2911	0.0500	16.7	20.0	-16.6	20.0
Acrylonitrile	Qua1		0.0486	0.0430	15.7	20.0	-21.5*	20.0
Ethyl tert-butyl ether	Ave	0.4044	0.3517	0.0500	17.4	20.0	-13.0	20.0
cis-1,2-Dichloroethene	Ave	0.2125	0.1867	0.0500	17.6	20.0	-12.1	20.0
2,2-Dichloropropane	Ave	0.2146	0.2085	0.0500	19.4	20.0	-2.9	20.0
Bromochloromethane	Ave	0.1236	0.1036	0.0900	16.8	20.0	-16.2	50.0
Chloroform	Lin1		0.3329	0.0500	17.0	20.0	-14.8	20.0
Carbon tetrachloride	Ave	0.2661	0.2393	0.0500	18.0	20.0	-10.1	20.0
Tetrahydrofuran	Ave	0.0451	0.0326	0.0290	14.5	20.0	-27.7*	20.0
1,1,1-Trichloroethane	Ave	0.3040	0.2752	0.0500	18.1	20.0	-9.5	20.0
2-Butanone (MEK)	Qua1		0.0591*	0.0950	14.3	20.0	-28.5	50.0
1,1-Dichloropropene	Ave	0.2208	0.2034	0.0500	18.4	20.0	-7.9	20.0
Benzene	Ave	0.7666	0.6387	0.0500	16.7	20.0	-16.7	20.0
Tert-amyl methyl ether	Ave	0.2928	0.3051	0.0500	20.8	20.0	4.2	20.0
1,2-Dichloroethane	Ave	0.3142	0.2351	0.0500	15.0	20.0	-25.2*	20.0
Trichloroethene	Ave	0.2237	0.1804	0.0500	16.1	20.0	-19.4	20.0
Dibromomethane	Ave	0.1403	0.1205	0.1100	17.2	20.0	-14.1	20.0
1,2-Dichloropropane	Ave	0.1897	0.1603	0.0500	16.9	20.0	-15.5	20.0
Bromodichloromethane	Ave	0.2951	0.2290	0.0500	15.5	20.0	-22.4*	20.0
1,4-Dioxane	Qua1		0.0012	0.0010	158	200	-20.9	50.0
cis-1,3-Dichloropropene	Lin1		0.2397	0.0500	16.2	20.0	-19.1	20.0
Toluene	Ave	0.5020	0.4171	0.0500	16.6	20.0	-16.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCVIS 620-52457/3 Calibration Date: 08/20/2025 19:54

Instrument ID: HPV5 Calib Start Date: 07/24/2025 10:25

GC Column: RTX-VMS ID: 0.25(mm) Calib End Date: 07/24/2025 13:52

Lab File ID: V5-082025-14.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
Tetrachloroethene	Ave	0.2241	0.2092	0.0500	18.7	20.0	-6.6	20.0
4-Methyl-2-pentanone (MIBK)	Qua1		0.0986*	0.0990	13.8	20.0	-30.8	50.0
trans-1,3-Dichloropropene	Qua1		0.2313	0.0500	18.5	20.0	-7.7	20.0
1,1,2-Trichloroethane	Ave	0.1531	0.1342	0.0500	17.5	20.0	-12.3	20.0
Dibromochloromethane	Ave	0.2327	0.1867	0.0500	16.0	20.0	-19.8	20.0
1,3-Dichloropropane	Ave	0.2939	0.2516	0.0500	17.1	20.0	-14.4	20.0
1,2-Dibromoethane (EDB)	Ave	0.1845	0.1695	0.0500	18.4	20.0	-8.2	20.0
2-Hexanone (MBK)	Qua1		0.0638*	0.0860	16.2	20.0	-18.8	50.0
Chlorobenzene	Ave	0.7651	0.6539	0.0500	17.1	20.0	-14.5	20.0
Ethylbenzene	Ave	1.143	0.9832	0.0500	17.2	20.0	-13.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2669	0.2390	0.0500	17.9	20.0	-10.4	20.0
m,p-Xylene	Ave	0.8365	0.7843	0.0500	37.5	40.0	-6.3	20.0
o-Xylene	Ave	0.8454	0.7660	0.0500	18.1	20.0	-9.4	20.0
Styrene	Lin1		0.6125	0.0500	17.1	20.0	-14.6	20.0
Bromoform	Ave	0.1691	0.1563	0.0500	18.5	20.0	-7.6	50.0
Isopropylbenzene	Ave	0.9668	0.8956	0.0500	18.5	20.0	-7.4	20.0
Bromobenzene	Ave	0.3401	0.3064	0.0500	18.0	20.0	-9.9	20.0
N-Propylbenzene	Ave	1.123	1.022	0.0500	18.2	20.0	-9.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.2961	0.2414	0.0500	16.3	20.0	-18.5	20.0
2-Chlorotoluene	Ave	0.7169	0.6592	0.0500	18.4	20.0	-8.1	20.0
1,2,3-Trichloropropane	Ave	0.2451	0.2042	0.0500	16.7	20.0	-16.7	20.0
1,3,5-Trimethylbenzene	Ave	0.8184	0.7502	0.0500	18.3	20.0	-8.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.0490	0.0370*	0.0910	15.1	20.0	-24.4*	20.0
4-Chlorotoluene	Ave	0.7742	0.6975	0.0500	18.0	20.0	-9.9	20.0
tert-Butylbenzene	Ave	0.4973	0.4742	0.0500	19.1	20.0	-4.6	20.0
1,2,4-Trimethylbenzene	Lin1		0.7444	0.0500	17.3	20.0	-13.7	20.0
sec-Butylbenzene	Ave	0.8640	0.8263	0.0500	19.1	20.0	-4.4	20.0
4-Isopropyltoluene	Lin1		1.434	0.0500	16.7	20.0	-16.5	20.0
1,3-Dichlorobenzene	Ave	0.5708	0.5230	0.0500	18.3	20.0	-8.4	20.0
1,4-Dichlorobenzene	Ave	1.281	1.063	0.0500	16.6	20.0	-17.0	20.0
n-Butylbenzene	Lin1		1.097	0.0500	17.2	20.0	-14.1	20.0
1,2-Dichlorobenzene	Ave	1.069	0.9622	0.0500	18.0	20.0	-10.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0795	0.0686	0.0630	17.3	20.0	-13.7	20.0
1,3,5-Trichlorobenzene	Ave	0.6133	0.6160	0.0500	20.1	20.0	0.4	20.0
Hexachlorobutadiene	Ave	0.2226	0.2263	0.0500	20.3	20.0	1.7	20.0
1,2,4-Trichlorobenzene	Lin1		0.2491	0.0500	17.2	20.0	-13.8	20.0
Naphthalene	Qua1		0.9840	0.0500	17.9	20.0	-10.5	20.0
1,2,3-Trichlorobenzene	Ave	0.4809	0.4689	0.0500	19.5	20.0	-2.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2867	0.2887	0.0500	50.4	50.0	0.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2840	0.2704	0.0500	47.6	50.0	-4.8	20.0
Toluene-d8 (Surr)	Ave	0.9268	0.9280	0.0500	50.1	50.0	0.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCVIS 620-52457/3 Calibration Date: 08/20/2025 19:54

Instrument ID: HPV5 Calib Start Date: 07/24/2025 10:25

GC Column: RTX-VMS ID: 0.25(mm) Calib End Date: 07/24/2025 13:52

Lab File ID: V5-082025-14.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
4-Bromofluorobenzene (Surr)	Ave	0.4312	0.4364	0.0500	50.6	50.0	1.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCVIS 620-52540/3 Calibration Date: 08/21/2025 18:25

Instrument ID: HPV5 Calib Start Date: 07/24/2025 10:25

GC Column: RTX-VMS ID: 0.25(mm) Calib End Date: 07/24/2025 13:52

Lab File ID: V5-082125-14.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 (Freon 12)	Ave	0.1469	0.1296	0.0100	17.6	20.0	-11.8	50.0
Chloromethane	Ave	0.2140	0.1511	0.0500	14.1	20.0	-29.4	50.0
Vinyl chloride	Ave	0.1631	0.1449	0.0500	17.8	20.0	-11.1	20.0
Bromomethane	Ave	0.0652	0.0581	0.0100	17.8	20.0	-10.9	50.0
Chloroethane	Qua1		0.0715*	0.0830	22.1	20.0	10.4	50.0
Trichlorofluoromethane (Freon 11)	Ave	0.2794	0.3204	0.0500	22.9	20.0	14.7	20.0
Ethyl ether	Ave	0.1572	0.1384	0.0500	17.6	20.0	-12.0	20.0
Ethanol	Ave	0.0017	0.0013*	0.0023	312	400	-22.0	50.0
1,1-Dichloroethene	Ave	0.1682	0.1636	0.0500	19.4	20.0	-2.8	20.0
Carbon disulfide	Ave	0.5478	0.4774	0.0500	17.4	20.0	-12.8	20.0
1,1,2-Trichlorotrifluoroethane (Freon 113)	Ave	0.1753	0.1941	0.0500	22.1	20.0	10.7	20.0
Methylene Chloride	Lin1		0.2027	0.0500	19.8	20.0	-1.2	20.0
Acetone	Ave	0.0663	0.0586*	0.0870	17.7	20.0	-11.6	50.0
trans-1,2-Dichloroethene	Ave	0.1883	0.1898	0.0500	20.2	20.0	0.8	20.0
Methyl tert-butyl ether	Ave	0.3746	0.4087	0.0500	21.8	20.0	9.1	20.0
tert-Butanol	Qua1		0.0085	0.0080	224	200	12.2	20.0
di-Isopropyl ether	Ave	0.5981	0.4559	0.0500	15.2	20.0	-23.8*	20.0
1,1-Dichloroethane	Ave	0.3492	0.3291	0.0500	18.8	20.0	-5.8	20.0
Acrylonitrile	Qua1		0.0490	0.0430	15.8	20.0	-20.8*	20.0
Ethyl tert-butyl ether	Ave	0.4044	0.3704	0.0500	18.3	20.0	-8.4	20.0
cis-1,2-Dichloroethene	Ave	0.2125	0.2065	0.0500	19.4	20.0	-2.8	20.0
2,2-Dichloropropane	Ave	0.2146	0.2375	0.0500	22.1	20.0	10.6	20.0
Bromochloromethane	Ave	0.1236	0.1199	0.0900	19.4	20.0	-2.9	50.0
Chloroform	Lin1		0.3818	0.0500	19.7	20.0	-1.3	20.0
Carbon tetrachloride	Ave	0.2661	0.2830	0.0500	21.3	20.0	6.4	20.0
Tetrahydrofuran	Ave	0.0451	0.0327	0.0290	14.5	20.0	-27.5*	20.0
1,1,1-Trichloroethane	Ave	0.3040	0.3216	0.0500	21.2	20.0	5.8	20.0
2-Butanone (MEK)	Qua1		0.0648*	0.0950	15.5	20.0	-22.4	50.0
1,1-Dichloropropene	Ave	0.2208	0.2243	0.0500	20.3	20.0	1.5	20.0
Benzene	Ave	0.7666	0.6994	0.0500	18.2	20.0	-8.8	20.0
Tert-amyl methyl ether	Ave	0.2928	0.3211	0.0500	21.9	20.0	9.7	20.0
1,2-Dichloroethane	Ave	0.3142	0.2760	0.0500	17.6	20.0	-12.2	20.0
Trichloroethene	Ave	0.2237	0.2012	0.0500	18.0	20.0	-10.1	20.0
Dibromomethane	Ave	0.1403	0.1364	0.1100	19.4	20.0	-2.8	20.0
1,2-Dichloropropane	Ave	0.1897	0.1751	0.0500	18.5	20.0	-7.7	20.0
Bromodichloromethane	Ave	0.2951	0.2652	0.0500	18.0	20.0	-10.1	20.0
1,4-Dioxane	Qua1		0.0013	0.0010	175	200	-12.7	50.0
cis-1,3-Dichloropropene	Lin1		0.2620	0.0500	17.6	20.0	-11.8	20.0
Toluene	Ave	0.5020	0.4628	0.0500	18.4	20.0	-7.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCVIS 620-52540/3 Calibration Date: 08/21/2025 18:25

Instrument ID: HPV5 Calib Start Date: 07/24/2025 10:25

GC Column: RTX-VMS ID: 0.25(mm) Calib End Date: 07/24/2025 13:52

Lab File ID: V5-082125-14.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
Tetrachloroethene	Ave	0.2241	0.2314	0.0500	20.7	20.0	3.3	20.0
4-Methyl-2-pentanone (MIBK)	Qua1		0.1091	0.0990	15.2	20.0	-24.1	50.0
trans-1,3-Dichloropropene	Qua1		0.2641	0.0500	20.9	20.0	4.7	20.0
1,1,2-Trichloroethane	Ave	0.1531	0.1503	0.0500	19.6	20.0	-1.8	20.0
Dibromochloromethane	Ave	0.2327	0.2147	0.0500	18.5	20.0	-7.7	20.0
1,3-Dichloropropane	Ave	0.2939	0.2819	0.0500	19.2	20.0	-4.1	20.0
1,2-Dibromoethane (EDB)	Ave	0.1845	0.1897	0.0500	20.6	20.0	2.8	20.0
2-Hexanone (MBK)	Qua1		0.0680*	0.0860	16.9	20.0	-15.5	50.0
Chlorobenzene	Ave	0.7651	0.7299	0.0500	19.1	20.0	-4.6	20.0
Ethylbenzene	Ave	1.143	1.094	0.0500	19.1	20.0	-4.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2669	0.2768	0.0500	20.7	20.0	3.7	20.0
m,p-Xylene	Ave	0.8365	0.8734	0.0500	41.8	40.0	4.4	20.0
o-Xylene	Ave	0.8454	0.8375	0.0500	19.8	20.0	-0.9	20.0
Styrene	Lin1		0.6663	0.0500	18.5	20.0	-7.3	20.0
Bromoform	Ave	0.1691	0.1819	0.0500	21.5	20.0	7.5	50.0
Isopropylbenzene	Ave	0.9668	0.9919	0.0500	20.5	20.0	2.6	20.0
Bromobenzene	Ave	0.3401	0.3397	0.0500	20.0	20.0	-0.1	20.0
N-Propylbenzene	Ave	1.123	1.145	0.0500	20.4	20.0	1.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.2961	0.2773	0.0500	18.7	20.0	-6.4	20.0
2-Chlorotoluene	Ave	0.7169	0.7392	0.0500	20.6	20.0	3.1	20.0
1,2,3-Trichloropropane	Ave	0.2451	0.2339	0.0500	19.1	20.0	-4.6	20.0
1,3,5-Trimethylbenzene	Ave	0.8184	0.8352	0.0500	20.4	20.0	2.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.0490	0.0419*	0.0910	17.1	20.0	-14.3	20.0
4-Chlorotoluene	Ave	0.7742	0.7815	0.0500	20.2	20.0	0.9	20.0
tert-Butylbenzene	Ave	0.4973	0.5338	0.0500	21.5	20.0	7.3	20.0
1,2,4-Trimethylbenzene	Lin1		0.8254	0.0500	19.1	20.0	-4.5	20.0
sec-Butylbenzene	Ave	0.8640	0.9211	0.0500	21.3	20.0	6.6	20.0
4-Isopropyltoluene	Lin1		1.505	0.0500	17.5	20.0	-12.5	20.0
1,3-Dichlorobenzene	Ave	0.5708	0.5829	0.0500	20.4	20.0	2.1	20.0
1,4-Dichlorobenzene	Ave	1.281	1.165	0.0500	18.2	20.0	-9.1	20.0
n-Butylbenzene	Lin1		1.191	0.0500	18.6	20.0	-7.1	20.0
1,2-Dichlorobenzene	Ave	1.069	1.049	0.0500	19.6	20.0	-1.9	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0795	0.0794	0.0630	20.0	20.0	-0.1	20.0
1,3,5-Trichlorobenzene	Ave	0.6133	0.6573	0.0500	21.4	20.0	7.2	20.0
Hexachlorobutadiene	Ave	0.2226	0.2418	0.0500	21.7	20.0	8.6	20.0
1,2,4-Trichlorobenzene	Lin1		0.2618	0.0500	18.1	20.0	-9.6	20.0
Naphthalene	Qua1		0.9414	0.0500	17.2	20.0	-13.9	20.0
1,2,3-Trichlorobenzene	Ave	0.4809	0.4869	0.0500	20.3	20.0	1.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2867	0.2969	0.0500	51.8	50.0	3.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2840	0.2849	0.0500	50.2	50.0	0.3	20.0
Toluene-d8 (Surr)	Ave	0.9268	0.9336	0.0500	50.4	50.0	0.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCVIS 620-52540/3 Calibration Date: 08/21/2025 18:25

Instrument ID: HPV5 Calib Start Date: 07/24/2025 10:25

GC Column: RTX-VMS ID: 0.25(mm) Calib End Date: 07/24/2025 13:52

Lab File ID: V5-082125-14.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
4-Bromofluorobenzene (Surr)	Ave	0.4312	0.4457	0.0500	51.7	50.0	3.3	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52249/7

Matrix: Water | Lab File ID: V4-081825-07.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 12:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	10	U	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52249/7

Matrix: Water | Lab File ID: V4-081825-07.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 12:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	1.0	U	1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52249/7

Matrix: Water | Lab File ID: V4-081825-07.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 12:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-130
1868-53-7	Dibromofluoromethane (Surr)	109		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52339/7

Matrix: Water | Lab File ID: V4-081925-07.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 14:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	3.06	J	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52339/7

Matrix: Water | Lab File ID: V4-081925-07.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 14:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	1.0	U	1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52339/7

Matrix: Water | Lab File ID: V4-081925-07.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 14:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52457/7

Matrix: Water | Lab File ID: V5-082025-18.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/20/2025 21:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52457 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	3.91	J	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52457/7

Matrix: Water | Lab File ID: V5-082025-18.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/20/2025 21:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52457 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	1.0	U	1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52457/7

Matrix: Water | Lab File ID: V5-082025-18.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/20/2025 21:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52457 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52540/7

Matrix: Water | Lab File ID: V5-082125-18.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 20:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52540 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20
67-64-1	Acetone	10	U	10	0.90
107-13-1	Acrylonitrile	1.0	U	1.0	0.36
71-43-2	Benzene	1.0	U	1.0	0.25
108-86-1	Bromobenzene	1.0	U	1.0	0.40
74-97-5	Bromochloromethane	1.0	U	1.0	0.39
75-27-4	Bromodichloromethane	0.50	U	0.50	0.33
75-25-2	Bromoform	1.0	U	1.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
78-93-3	2-Butanone (MEK)	2.0	U	2.0	0.58
104-51-8	n-Butylbenzene	1.0	U	1.0	0.45
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.40
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.40
75-15-0	Carbon disulfide	2.0	U	2.0	0.44
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.25
108-90-7	Chlorobenzene	1.0	U	1.0	0.42
75-00-3	Chloroethane	2.0	U	2.0	0.41
67-66-3	Chloroform	1.0	U	1.0	0.30
74-87-3	Chloromethane	2.0	U	2.0	0.49
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.43
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51
124-48-1	Dibromochloromethane	0.50	U	0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34
74-95-3	Dibromomethane	1.0	U	1.0	0.36
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.50
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.36
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52540/7

Matrix: Water | Lab File ID: V5-082125-18.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 20:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52540 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.36
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.32
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.49
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.37
100-41-4	Ethylbenzene	1.0	U	1.0	0.36
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.24
591-78-6	2-Hexanone (MBK)	2.0	U	2.0	0.69
98-82-8	Isopropylbenzene	1.0	U	1.0	0.38
99-87-6	4-Isopropyltoluene	1.0	U	1.0	0.43
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35
75-09-2	Methylene Chloride	2.0	U	2.0	0.54
91-20-3	Naphthalene	2.0	U	2.0	0.70
103-65-1	N-Propylbenzene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	1.0	U	1.0	0.54
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.33
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.35
79-01-6	Trichloroethene	1.0	U	1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52540/7

Matrix: Water | Lab File ID: V5-082125-18.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 20:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52540 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.45
75-01-4	Vinyl chloride	1.0	U	1.0	0.26
179601-23-1	m,p-Xylene	1.0	U	1.0	0.78
95-47-6	o-Xylene	1.0	U	1.0	0.43
109-99-9	Tetrahydrofuran	2.0	U	2.0	0.70
60-29-7	Ethyl ether	1.0	U	1.0	0.42
994-05-8	Tert-amyl methyl ether	1.0	U	1.0	0.26
637-92-3	Ethyl tert-butyl ether	1.0	U	1.0	0.29
108-20-3	di-Isopropyl ether	1.0	U	1.0	0.26
75-65-0	tert-Butanol	10	U	10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81
64-17-5	Ethanol	200	U	200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52249/4

Matrix: Water | Lab File ID: V4-081825-04.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 10:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	20.9		1.0	0.20
67-64-1	Acetone	22.0		10	0.90
107-13-1	Acrylonitrile	20.9		1.0	0.36
71-43-2	Benzene	19.8		1.0	0.25
108-86-1	Bromobenzene	21.9		1.0	0.40
74-97-5	Bromochloromethane	21.7		1.0	0.39
75-27-4	Bromodichloromethane	26.0		0.50	0.33
75-25-2	Bromoform	23.0		1.0	0.45
74-83-9	Bromomethane	14.9		2.0	0.63
78-93-3	2-Butanone (MEK)	21.6		2.0	0.58
104-51-8	n-Butylbenzene	23.1		1.0	0.45
135-98-8	sec-Butylbenzene	23.1		1.0	0.40
98-06-6	tert-Butylbenzene	23.8		1.0	0.40
75-15-0	Carbon disulfide	18.9		2.0	0.44
56-23-5	Carbon tetrachloride	50.7		1.0	0.25
108-90-7	Chlorobenzene	20.7		1.0	0.42
75-00-3	Chloroethane	19.9		2.0	0.41
67-66-3	Chloroform	21.9		1.0	0.30
74-87-3	Chloromethane	14.6		2.0	0.49
95-49-8	2-Chlorotoluene	22.6		1.0	0.43
106-43-4	4-Chlorotoluene	22.6		1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	20.0		2.0	0.51
124-48-1	Dibromochloromethane	21.2		0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	22.4		0.50	0.34
74-95-3	Dibromomethane	21.9		1.0	0.36
95-50-1	1,2-Dichlorobenzene	20.7		1.0	0.48
541-73-1	1,3-Dichlorobenzene	21.5		1.0	0.50
106-46-7	1,4-Dichlorobenzene	20.1		1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	10.8		2.0	0.29
75-34-3	1,1-Dichloroethane	20.3		1.0	0.36
107-06-2	1,2-Dichloroethane	21.0		1.0	0.26
75-35-4	1,1-Dichloroethene	20.0		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52249/4

Matrix: Water | Lab File ID: V4-081825-04.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 10:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	21.5		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	20.1		1.0	0.19
78-87-5	1,2-Dichloropropane	20.7		1.0	0.36
142-28-9	1,3-Dichloropropane	21.4		1.0	0.32
594-20-7	2,2-Dichloropropane	26.0		1.0	0.49
563-58-6	1,1-Dichloropropene	21.5		1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	23.0		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	23.0		0.50	0.37
100-41-4	Ethylbenzene	23.0		1.0	0.36
87-68-3	Hexachlorobutadiene	19.7		1.0	0.24
591-78-6	2-Hexanone (MBK)	20.6		2.0	0.69
98-82-8	Isopropylbenzene	21.8		1.0	0.38
99-87-6	4-Isopropyltoluene	23.2		1.0	0.43
1634-04-4	Methyl tert-butyl ether	21.3		1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	18.0		2.0	0.35
75-09-2	Methylene Chloride	20.2		2.0	0.54
91-20-3	Naphthalene	16.4		2.0	0.70
103-65-1	N-Propylbenzene	21.6		1.0	0.36
100-42-5	Styrene	24.1		1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	22.3		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	20.4		0.50	0.46
127-18-4	Tetrachloroethene	22.1		1.0	0.36
108-88-3	Toluene	21.2		1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	19.0		1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	20.6		1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	20.6		1.0	0.54
71-55-6	1,1,1-Trichloroethane	27.9		1.0	0.33
79-00-5	1,1,2-Trichloroethane	21.5		1.0	0.35
79-01-6	Trichloroethene	21.2		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	18.7		1.0	0.23
96-18-4	1,2,3-Trichloropropane	21.0		1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	23.8		1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52249/4

Matrix: Water | Lab File ID: V4-081825-04.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 10:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	23.6		1.0	0.45
75-01-4	Vinyl chloride	17.2		1.0	0.26
179601-23-1	m,p-Xylene	24.5		1.0	0.78
95-47-6	o-Xylene	23.8		1.0	0.43
109-99-9	Tetrahydrofuran	19.4		2.0	0.70
60-29-7	Ethyl ether	19.3		1.0	0.42
994-05-8	Tert-amyl methyl ether	20.3		1.0	0.26
637-92-3	Ethyl tert-butyl ether	21.5		1.0	0.29
108-20-3	di-Isopropyl ether	20.7		1.0	0.26
75-65-0	tert-Butanol	207		10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	21.1		5.0	0.81
64-17-5	Ethanol	463		200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52339/4

Matrix: Water | Lab File ID: V4-081925-03.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 12:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	22.2		1.0	0.20
67-64-1	Acetone	15.8		10	0.90
107-13-1	Acrylonitrile	21.4		1.0	0.36
71-43-2	Benzene	20.8		1.0	0.25
108-86-1	Bromobenzene	21.7		1.0	0.40
74-97-5	Bromochloromethane	22.7		1.0	0.39
75-27-4	Bromodichloromethane	24.9		0.50	0.33
75-25-2	Bromoform	21.6		1.0	0.45
74-83-9	Bromomethane	16.9		2.0	0.63
78-93-3	2-Butanone (MEK)	17.6		2.0	0.58
104-51-8	n-Butylbenzene	22.6		1.0	0.45
135-98-8	sec-Butylbenzene	22.4		1.0	0.40
98-06-6	tert-Butylbenzene	23.0		1.0	0.40
75-15-0	Carbon disulfide	21.7		2.0	0.44
56-23-5	Carbon tetrachloride	49.6		1.0	0.25
108-90-7	Chlorobenzene	20.7		1.0	0.42
75-00-3	Chloroethane	19.8		2.0	0.41
67-66-3	Chloroform	21.5		1.0	0.30
74-87-3	Chloromethane	15.6		2.0	0.49
95-49-8	2-Chlorotoluene	22.1		1.0	0.43
106-43-4	4-Chlorotoluene	22.1		1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	18.3		2.0	0.51
124-48-1	Dibromochloromethane	20.4		0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	22.1		0.50	0.34
74-95-3	Dibromomethane	21.5		1.0	0.36
95-50-1	1,2-Dichlorobenzene	20.7		1.0	0.48
541-73-1	1,3-Dichlorobenzene	20.9		1.0	0.50
106-46-7	1,4-Dichlorobenzene	20.0		1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	21.5		2.0	0.29
75-34-3	1,1-Dichloroethane	21.0		1.0	0.36
107-06-2	1,2-Dichloroethane	20.4		1.0	0.26
75-35-4	1,1-Dichloroethene	22.2		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52339/4

Matrix: Water | Lab File ID: V4-081925-03.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 12:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	22.1		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	21.8		1.0	0.19
78-87-5	1,2-Dichloropropane	21.3		1.0	0.36
142-28-9	1,3-Dichloropropane	21.0		1.0	0.32
594-20-7	2,2-Dichloropropane	25.0		1.0	0.49
563-58-6	1,1-Dichloropropene	22.9		1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	22.5		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	21.8		0.50	0.37
100-41-4	Ethylbenzene	23.1		1.0	0.36
87-68-3	Hexachlorobutadiene	18.8		1.0	0.24
591-78-6	2-Hexanone (MBK)	15.2		2.0	0.69
98-82-8	Isopropylbenzene	21.0		1.0	0.38
99-87-6	4-Isopropyltoluene	22.8		1.0	0.43
1634-04-4	Methyl tert-butyl ether	22.6		1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	16.1		2.0	0.35
75-09-2	Methylene Chloride	21.0		2.0	0.54
91-20-3	Naphthalene	15.2		2.0	0.70
103-65-1	N-Propylbenzene	21.2		1.0	0.36
100-42-5	Styrene	24.0		1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	21.7		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	19.3		0.50	0.46
127-18-4	Tetrachloroethene	22.6		1.0	0.36
108-88-3	Toluene	21.8		1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	18.1		1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	19.6		1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	20.4		1.0	0.54
71-55-6	1,1,1-Trichloroethane	26.7		1.0	0.33
79-00-5	1,1,2-Trichloroethane	21.1		1.0	0.35
79-01-6	Trichloroethene	22.2		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	21.9		1.0	0.23
96-18-4	1,2,3-Trichloropropane	19.7		1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	22.7		1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52339/4

Matrix: Water | Lab File ID: V4-081925-03.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 12:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	23.2		1.0	0.45
75-01-4	Vinyl chloride	20.0		1.0	0.26
179601-23-1	m,p-Xylene	24.0		1.0	0.78
95-47-6	o-Xylene	23.3		1.0	0.43
109-99-9	Tetrahydrofuran	20.4		2.0	0.70
60-29-7	Ethyl ether	21.2		1.0	0.42
994-05-8	Tert-amyl methyl ether	20.4		1.0	0.26
637-92-3	Ethyl tert-butyl ether	22.0		1.0	0.29
108-20-3	di-Isopropyl ether	21.1		1.0	0.26
75-65-0	tert-Butanol	207		10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	18.5		5.0	0.81
64-17-5	Ethanol	427		200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
1868-53-7	Dibromofluoromethane (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52457/4

Matrix: Water | Lab File ID: V5-082025-15.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/20/2025 20:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52457 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	20.6		1.0	0.20
67-64-1	Acetone	19.1		10	0.90
107-13-1	Acrylonitrile	15.8		1.0	0.36
71-43-2	Benzene	17.8		1.0	0.25
108-86-1	Bromobenzene	19.1		1.0	0.40
74-97-5	Bromochloromethane	18.0		1.0	0.39
75-27-4	Bromodichloromethane	16.6		0.50	0.33
75-25-2	Bromoform	20.0		1.0	0.45
74-83-9	Bromomethane	17.7		2.0	0.63
78-93-3	2-Butanone (MEK)	14.7		2.0	0.58
104-51-8	n-Butylbenzene	18.4		1.0	0.45
135-98-8	sec-Butylbenzene	20.8		1.0	0.40
98-06-6	tert-Butylbenzene	20.7		1.0	0.40
75-15-0	Carbon disulfide	16.8		2.0	0.44
56-23-5	Carbon tetrachloride	19.4		1.0	0.25
108-90-7	Chlorobenzene	18.3		1.0	0.42
75-00-3	Chloroethane	22.1		2.0	0.41
67-66-3	Chloroform	18.3		1.0	0.30
74-87-3	Chloromethane	14.6		2.0	0.49
95-49-8	2-Chlorotoluene	19.8		1.0	0.43
106-43-4	4-Chlorotoluene	19.1		1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	17.9		2.0	0.51
124-48-1	Dibromochloromethane	17.0		0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	19.3		0.50	0.34
74-95-3	Dibromomethane	18.1		1.0	0.36
95-50-1	1,2-Dichlorobenzene	18.9		1.0	0.48
541-73-1	1,3-Dichlorobenzene	19.2		1.0	0.50
106-46-7	1,4-Dichlorobenzene	17.3		1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	18.0		2.0	0.29
75-34-3	1,1-Dichloroethane	17.7		1.0	0.36
107-06-2	1,2-Dichloroethane	16.1		1.0	0.26
75-35-4	1,1-Dichloroethene	18.4		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52457/4

Matrix: Water | Lab File ID: V5-082025-15.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/20/2025 20:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52457 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	18.8		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	19.5		1.0	0.19
78-87-5	1,2-Dichloropropane	17.7		1.0	0.36
142-28-9	1,3-Dichloropropane	18.2		1.0	0.32
594-20-7	2,2-Dichloropropane	20.8		1.0	0.49
563-58-6	1,1-Dichloropropene	20.1		1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	17.0		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	19.8		0.50	0.37
100-41-4	Ethylbenzene	18.6		1.0	0.36
87-68-3	Hexachlorobutadiene	22.2		1.0	0.24
591-78-6	2-Hexanone (MBK)	16.6		2.0	0.69
98-82-8	Isopropylbenzene	20.2		1.0	0.38
99-87-6	4-Isopropyltoluene	17.9		1.0	0.43
1634-04-4	Methyl tert-butyl ether	21.6		1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	14.9		2.0	0.35
75-09-2	Methylene Chloride	18.5		2.0	0.54
91-20-3	Naphthalene	18.6		2.0	0.70
103-65-1	N-Propylbenzene	19.7		1.0	0.36
100-42-5	Styrene	18.0		1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	19.3		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	17.2		0.50	0.46
127-18-4	Tetrachloroethene	20.1		1.0	0.36
108-88-3	Toluene	17.6		1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	20.6		1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	18.2		1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	20.9		1.0	0.54
71-55-6	1,1,1-Trichloroethane	19.5		1.0	0.33
79-00-5	1,1,2-Trichloroethane	18.3		1.0	0.35
79-01-6	Trichloroethene	17.4		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	21.8		1.0	0.23
96-18-4	1,2,3-Trichloropropane	18.2		1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	18.4		1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52457/4

Matrix: Water | Lab File ID: V5-082025-15.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/20/2025 20:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52457 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	19.7		1.0	0.45
75-01-4	Vinyl chloride	17.8		1.0	0.26
179601-23-1	m,p-Xylene	39.8		1.0	0.78
95-47-6	o-Xylene	19.4		1.0	0.43
109-99-9	Tetrahydrofuran	14.8		2.0	0.70
60-29-7	Ethyl ether	16.2		1.0	0.42
994-05-8	Tert-amyl methyl ether	21.8		1.0	0.26
637-92-3	Ethyl tert-butyl ether	18.4		1.0	0.29
108-20-3	di-Isopropyl ether	15.1		1.0	0.26
75-65-0	tert-Butanol	209		10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	15.1		5.0	0.81
64-17-5	Ethanol	294		200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52540/4

Matrix: Water | Lab File ID: V5-082125-15.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 18:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52540 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	24.5		1.0	0.20
67-64-1	Acetone	17.7		10	0.90
107-13-1	Acrylonitrile	17.8		1.0	0.36
71-43-2	Benzene	20.1		1.0	0.25
108-86-1	Bromobenzene	22.1		1.0	0.40
74-97-5	Bromochloromethane	21.6		1.0	0.39
75-27-4	Bromodichloromethane	19.9		0.50	0.33
75-25-2	Bromoform	23.2		1.0	0.45
74-83-9	Bromomethane	22.6		2.0	0.63
78-93-3	2-Butanone (MEK)	14.9		2.0	0.58
104-51-8	n-Butylbenzene	19.8		1.0	0.45
135-98-8	sec-Butylbenzene	23.6		1.0	0.40
98-06-6	tert-Butylbenzene	23.8		1.0	0.40
75-15-0	Carbon disulfide	19.5		2.0	0.44
56-23-5	Carbon tetrachloride	23.4		1.0	0.25
108-90-7	Chlorobenzene	20.9		1.0	0.42
75-00-3	Chloroethane	29.1		2.0	0.41
67-66-3	Chloroform	21.6		1.0	0.30
74-87-3	Chloromethane	16.6		2.0	0.49
95-49-8	2-Chlorotoluene	22.6		1.0	0.43
106-43-4	4-Chlorotoluene	22.1		1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	19.8		2.0	0.51
124-48-1	Dibromochloromethane	20.4		0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	22.4		0.50	0.34
74-95-3	Dibromomethane	21.4		1.0	0.36
95-50-1	1,2-Dichlorobenzene	21.1		1.0	0.48
541-73-1	1,3-Dichlorobenzene	22.3		1.0	0.50
106-46-7	1,4-Dichlorobenzene	19.2		1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	20.4		2.0	0.29
75-34-3	1,1-Dichloroethane	20.7		1.0	0.36
107-06-2	1,2-Dichloroethane	19.3		1.0	0.26
75-35-4	1,1-Dichloroethene	21.6		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52540/4

Matrix: Water | Lab File ID: V5-082125-15.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 18:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52540 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	22.0		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	22.1		1.0	0.19
78-87-5	1,2-Dichloropropane	20.5		1.0	0.36
142-28-9	1,3-Dichloropropane	21.3		1.0	0.32
594-20-7	2,2-Dichloropropane	24.3		1.0	0.49
563-58-6	1,1-Dichloropropene	22.9		1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	19.5		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	23.2		0.50	0.37
100-41-4	Ethylbenzene	20.9		1.0	0.36
87-68-3	Hexachlorobutadiene	23.8		1.0	0.24
591-78-6	2-Hexanone (MBK)	17.0		2.0	0.69
98-82-8	Isopropylbenzene	22.5		1.0	0.38
99-87-6	4-Isopropyltoluene	18.9		1.0	0.43
1634-04-4	Methyl tert-butyl ether	24.5		1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	15.5		2.0	0.35
75-09-2	Methylene Chloride	22.0		2.0	0.54
91-20-3	Naphthalene	18.2		2.0	0.70
103-65-1	N-Propylbenzene	22.3		1.0	0.36
100-42-5	Styrene	20.4		1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	22.3		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	19.8		0.50	0.46
127-18-4	Tetrachloroethene	22.8		1.0	0.36
108-88-3	Toluene	20.2		1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	21.9		1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	20.3		1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	22.9		1.0	0.54
71-55-6	1,1,1-Trichloroethane	23.3		1.0	0.33
79-00-5	1,1,2-Trichloroethane	21.6		1.0	0.35
79-01-6	Trichloroethene	19.8		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	26.3		1.0	0.23
96-18-4	1,2,3-Trichloropropane	20.5		1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	21.3		1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52540/4

Matrix: Water | Lab File ID: V5-082125-15.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 18:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52540 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	22.5		1.0	0.45
75-01-4	Vinyl chloride	20.5		1.0	0.26
179601-23-1	m,p-Xylene	45.5		1.0	0.78
95-47-6	o-Xylene	21.8		1.0	0.43
109-99-9	Tetrahydrofuran	15.6		2.0	0.70
60-29-7	Ethyl ether	19.4		1.0	0.42
994-05-8	Tert-amyl methyl ether	24.5		1.0	0.26
637-92-3	Ethyl tert-butyl ether	20.7		1.0	0.29
108-20-3	di-Isopropyl ether	17.0		1.0	0.26
75-65-0	tert-Butanol	231		10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	19.5		5.0	0.81
64-17-5	Ethanol	303		200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52249/5

Matrix: Water | Lab File ID: V4-081825-05.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 11:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	21.1		1.0	0.20
67-64-1	Acetone	18.7		10	0.90
107-13-1	Acrylonitrile	20.4		1.0	0.36
71-43-2	Benzene	19.9		1.0	0.25
108-86-1	Bromobenzene	21.9		1.0	0.40
74-97-5	Bromochloromethane	21.8		1.0	0.39
75-27-4	Bromodichloromethane	25.4		0.50	0.33
75-25-2	Bromoform	22.9		1.0	0.45
74-83-9	Bromomethane	15.7		2.0	0.63
78-93-3	2-Butanone (MEK)	19.9		2.0	0.58
104-51-8	n-Butylbenzene	23.2		1.0	0.45
135-98-8	sec-Butylbenzene	23.1		1.0	0.40
98-06-6	tert-Butylbenzene	23.8		1.0	0.40
75-15-0	Carbon disulfide	18.7		2.0	0.44
56-23-5	Carbon tetrachloride	50.3		1.0	0.25
108-90-7	Chlorobenzene	20.8		1.0	0.42
75-00-3	Chloroethane	20.3		2.0	0.41
67-66-3	Chloroform	21.8		1.0	0.30
74-87-3	Chloromethane	14.5		2.0	0.49
95-49-8	2-Chlorotoluene	22.5		1.0	0.43
106-43-4	4-Chlorotoluene	22.8		1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	19.3		2.0	0.51
124-48-1	Dibromochloromethane	21.5		0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	22.3		0.50	0.34
74-95-3	Dibromomethane	21.9		1.0	0.36
95-50-1	1,2-Dichlorobenzene	21.1		1.0	0.48
541-73-1	1,3-Dichlorobenzene	21.5		1.0	0.50
106-46-7	1,4-Dichlorobenzene	19.9		1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	10.7		2.0	0.29
75-34-3	1,1-Dichloroethane	20.5		1.0	0.36
107-06-2	1,2-Dichloroethane	21.2		1.0	0.26
75-35-4	1,1-Dichloroethene	20.4		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52249/5

Matrix: Water | Lab File ID: V4-081825-05.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 11:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	21.4		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	20.8		1.0	0.19
78-87-5	1,2-Dichloropropane	20.9		1.0	0.36
142-28-9	1,3-Dichloropropane	21.6		1.0	0.32
594-20-7	2,2-Dichloropropane	25.5		1.0	0.49
563-58-6	1,1-Dichloropropene	21.9		1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	23.2		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	23.0		0.50	0.37
100-41-4	Ethylbenzene	23.1		1.0	0.36
87-68-3	Hexachlorobutadiene	20.2		1.0	0.24
591-78-6	2-Hexanone (MBK)	18.1		2.0	0.69
98-82-8	Isopropylbenzene	21.6		1.0	0.38
99-87-6	4-Isopropyltoluene	23.1		1.0	0.43
1634-04-4	Methyl tert-butyl ether	22.0		1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	17.4		2.0	0.35
75-09-2	Methylene Chloride	20.0		2.0	0.54
91-20-3	Naphthalene	16.5		2.0	0.70
103-65-1	N-Propylbenzene	21.3		1.0	0.36
100-42-5	Styrene	23.9		1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	22.5		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	20.7		0.50	0.46
127-18-4	Tetrachloroethene	22.4		1.0	0.36
108-88-3	Toluene	21.3		1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	19.5		1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	21.0		1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	20.8		1.0	0.54
71-55-6	1,1,1-Trichloroethane	28.4		1.0	0.33
79-00-5	1,1,2-Trichloroethane	21.5		1.0	0.35
79-01-6	Trichloroethene	22.0		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	21.0		1.0	0.23
96-18-4	1,2,3-Trichloropropane	20.8		1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	23.7		1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52249/5

Matrix: Water | Lab File ID: V4-081825-05.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/18/2025 11:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52249 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	23.6		1.0	0.45
75-01-4	Vinyl chloride	16.9		1.0	0.26
179601-23-1	m,p-Xylene	24.5		1.0	0.78
95-47-6	o-Xylene	23.9		1.0	0.43
109-99-9	Tetrahydrofuran	18.8		2.0	0.70
60-29-7	Ethyl ether	19.6		1.0	0.42
994-05-8	Tert-amyl methyl ether	20.5		1.0	0.26
637-92-3	Ethyl tert-butyl ether	21.8		1.0	0.29
108-20-3	di-Isopropyl ether	20.5		1.0	0.26
75-65-0	tert-Butanol	184		10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	20.5		5.0	0.81
64-17-5	Ethanol	428		200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52339/5

Matrix: Water | Lab File ID: V4-081925-04.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 13:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	22.0		1.0	0.20
67-64-1	Acetone	14.9		10	0.90
107-13-1	Acrylonitrile	21.1		1.0	0.36
71-43-2	Benzene	20.7		1.0	0.25
108-86-1	Bromobenzene	21.5		1.0	0.40
74-97-5	Bromochloromethane	22.3		1.0	0.39
75-27-4	Bromodichloromethane	24.1		0.50	0.33
75-25-2	Bromoform	22.0		1.0	0.45
74-83-9	Bromomethane	18.8		2.0	0.63
78-93-3	2-Butanone (MEK)	15.8		2.0	0.58
104-51-8	n-Butylbenzene	21.9		1.0	0.45
135-98-8	sec-Butylbenzene	22.1		1.0	0.40
98-06-6	tert-Butylbenzene	22.9		1.0	0.40
75-15-0	Carbon disulfide	21.3		2.0	0.44
56-23-5	Carbon tetrachloride	50.7		1.0	0.25
108-90-7	Chlorobenzene	20.7		1.0	0.42
75-00-3	Chloroethane	20.5		2.0	0.41
67-66-3	Chloroform	21.4		1.0	0.30
74-87-3	Chloromethane	15.2		2.0	0.49
95-49-8	2-Chlorotoluene	22.1		1.0	0.43
106-43-4	4-Chlorotoluene	21.8		1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	18.1		2.0	0.51
124-48-1	Dibromochloromethane	20.3		0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	21.7		0.50	0.34
74-95-3	Dibromomethane	21.6		1.0	0.36
95-50-1	1,2-Dichlorobenzene	20.5		1.0	0.48
541-73-1	1,3-Dichlorobenzene	21.1		1.0	0.50
106-46-7	1,4-Dichlorobenzene	19.9		1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	20.8		2.0	0.29
75-34-3	1,1-Dichloroethane	20.7		1.0	0.36
107-06-2	1,2-Dichloroethane	20.4		1.0	0.26
75-35-4	1,1-Dichloroethene	22.0		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52339/5

Matrix: Water | Lab File ID: V4-081925-04.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 13:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	22.5		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	21.6		1.0	0.19
78-87-5	1,2-Dichloropropane	20.9		1.0	0.36
142-28-9	1,3-Dichloropropane	20.7		1.0	0.32
594-20-7	2,2-Dichloropropane	24.5		1.0	0.49
563-58-6	1,1-Dichloropropene	22.4		1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	22.3		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	21.8		0.50	0.37
100-41-4	Ethylbenzene	22.8		1.0	0.36
87-68-3	Hexachlorobutadiene	18.9		1.0	0.24
591-78-6	2-Hexanone (MBK)	14.3		2.0	0.69
98-82-8	Isopropylbenzene	20.8		1.0	0.38
99-87-6	4-Isopropyltoluene	22.3		1.0	0.43
1634-04-4	Methyl tert-butyl ether	22.7		1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	15.3		2.0	0.35
75-09-2	Methylene Chloride	21.3		2.0	0.54
91-20-3	Naphthalene	16.0		2.0	0.70
103-65-1	N-Propylbenzene	21.0		1.0	0.36
100-42-5	Styrene	23.3		1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	21.7		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	19.7		0.50	0.46
127-18-4	Tetrachloroethene	22.2		1.0	0.36
108-88-3	Toluene	21.3		1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	18.9		1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	20.6		1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	20.5		1.0	0.54
71-55-6	1,1,1-Trichloroethane	26.4		1.0	0.33
79-00-5	1,1,2-Trichloroethane	20.8		1.0	0.35
79-01-6	Trichloroethene	21.4		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	21.5		1.0	0.23
96-18-4	1,2,3-Trichloropropane	19.7		1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	22.9		1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52339/5

Matrix: Water | Lab File ID: V4-081925-04.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/19/2025 13:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52339 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV4

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	23.1		1.0	0.45
75-01-4	Vinyl chloride	19.7		1.0	0.26
179601-23-1	m,p-Xylene	23.5		1.0	0.78
95-47-6	o-Xylene	23.0		1.0	0.43
109-99-9	Tetrahydrofuran	20.1		2.0	0.70
60-29-7	Ethyl ether	20.9		1.0	0.42
994-05-8	Tert-amyl methyl ether	20.1		1.0	0.26
637-92-3	Ethyl tert-butyl ether	22.0		1.0	0.29
108-20-3	di-Isopropyl ether	21.3		1.0	0.26
75-65-0	tert-Butanol	199		10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	18.4		5.0	0.81
64-17-5	Ethanol	464		200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52457/5

Matrix: Water | Lab File ID: V5-082025-16.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/20/2025 20:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52457 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	18.7		1.0	0.20
67-64-1	Acetone	15.7		10	0.90
107-13-1	Acrylonitrile	16.1		1.0	0.36
71-43-2	Benzene	16.6		1.0	0.25
108-86-1	Bromobenzene	17.6		1.0	0.40
74-97-5	Bromochloromethane	17.3		1.0	0.39
75-27-4	Bromodichloromethane	15.7		0.50	0.33
75-25-2	Bromoform	18.5		1.0	0.45
74-83-9	Bromomethane	17.2		2.0	0.63
78-93-3	2-Butanone (MEK)	13.2		2.0	0.58
104-51-8	n-Butylbenzene	16.3		1.0	0.45
135-98-8	sec-Butylbenzene	18.6		1.0	0.40
98-06-6	tert-Butylbenzene	18.8		1.0	0.40
75-15-0	Carbon disulfide	15.3		2.0	0.44
56-23-5	Carbon tetrachloride	18.0		1.0	0.25
108-90-7	Chlorobenzene	16.9		1.0	0.42
75-00-3	Chloroethane	18.3		2.0	0.41
67-66-3	Chloroform	16.9		1.0	0.30
74-87-3	Chloromethane	13.4		2.0	0.49
95-49-8	2-Chlorotoluene	18.1		1.0	0.43
106-43-4	4-Chlorotoluene	17.6		1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	17.2		2.0	0.51
124-48-1	Dibromochloromethane	16.1		0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	18.4		0.50	0.34
74-95-3	Dibromomethane	17.4		1.0	0.36
95-50-1	1,2-Dichlorobenzene	17.2		1.0	0.48
541-73-1	1,3-Dichlorobenzene	17.8		1.0	0.50
106-46-7	1,4-Dichlorobenzene	15.7		1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	15.9		2.0	0.29
75-34-3	1,1-Dichloroethane	16.6		1.0	0.36
107-06-2	1,2-Dichloroethane	15.0		1.0	0.26
75-35-4	1,1-Dichloroethene	16.8		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52457/5

Matrix: Water | Lab File ID: V5-082025-16.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/20/2025 20:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52457 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	17.7		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	17.8		1.0	0.19
78-87-5	1,2-Dichloropropane	16.9		1.0	0.36
142-28-9	1,3-Dichloropropane	17.2		1.0	0.32
594-20-7	2,2-Dichloropropane	19.0		1.0	0.49
563-58-6	1,1-Dichloropropene	18.1		1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	16.3		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	18.5		0.50	0.37
100-41-4	Ethylbenzene	16.9		1.0	0.36
87-68-3	Hexachlorobutadiene	19.1		1.0	0.24
591-78-6	2-Hexanone (MBK)	15.5		2.0	0.69
98-82-8	Isopropylbenzene	18.1		1.0	0.38
99-87-6	4-Isopropyltoluene	15.9		1.0	0.43
1634-04-4	Methyl tert-butyl ether	20.5		1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	14.2		2.0	0.35
75-09-2	Methylene Chloride	17.6		2.0	0.54
91-20-3	Naphthalene	17.0		2.0	0.70
103-65-1	N-Propylbenzene	17.9		1.0	0.36
100-42-5	Styrene	16.6		1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	17.7		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	16.4		0.50	0.46
127-18-4	Tetrachloroethene	18.2		1.0	0.36
108-88-3	Toluene	16.4		1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	18.7		1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	16.6		1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	19.0		1.0	0.54
71-55-6	1,1,1-Trichloroethane	18.1		1.0	0.33
79-00-5	1,1,2-Trichloroethane	17.5		1.0	0.35
79-01-6	Trichloroethene	16.2		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	19.6		1.0	0.23
96-18-4	1,2,3-Trichloropropane	17.1		1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	16.7		1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52457/5

Matrix: Water | Lab File ID: V5-082025-16.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/20/2025 20:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52457 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	17.7		1.0	0.45
75-01-4	Vinyl chloride	16.2		1.0	0.26
179601-23-1	m,p-Xylene	36.6		1.0	0.78
95-47-6	o-Xylene	17.9		1.0	0.43
109-99-9	Tetrahydrofuran	14.6		2.0	0.70
60-29-7	Ethyl ether	15.9		1.0	0.42
994-05-8	Tert-amyl methyl ether	20.8		1.0	0.26
637-92-3	Ethyl tert-butyl ether	17.4		1.0	0.29
108-20-3	di-Isopropyl ether	14.3		1.0	0.26
75-65-0	tert-Butanol	209		10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	14.3		5.0	0.81
64-17-5	Ethanol	269		200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52540/5

Matrix: Water | Lab File ID: V5-082125-16.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 19:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52540 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	20.8		1.0	0.20
67-64-1	Acetone	18.4		10	0.90
107-13-1	Acrylonitrile	16.1		1.0	0.36
71-43-2	Benzene	17.9		1.0	0.25
108-86-1	Bromobenzene	19.3		1.0	0.40
74-97-5	Bromochloromethane	18.8		1.0	0.39
75-27-4	Bromodichloromethane	17.4		0.50	0.33
75-25-2	Bromoform	20.9		1.0	0.45
74-83-9	Bromomethane	20.3		2.0	0.63
78-93-3	2-Butanone (MEK)	14.5		2.0	0.58
104-51-8	n-Butylbenzene	17.6		1.0	0.45
135-98-8	sec-Butylbenzene	20.5		1.0	0.40
98-06-6	tert-Butylbenzene	20.9		1.0	0.40
75-15-0	Carbon disulfide	16.8		2.0	0.44
56-23-5	Carbon tetrachloride	20.5		1.0	0.25
108-90-7	Chlorobenzene	18.8		1.0	0.42
75-00-3	Chloroethane	23.5		2.0	0.41
67-66-3	Chloroform	19.1		1.0	0.30
74-87-3	Chloromethane	14.6		2.0	0.49
95-49-8	2-Chlorotoluene	20.3		1.0	0.43
106-43-4	4-Chlorotoluene	19.7		1.0	0.42
96-12-8	1,2-Dibromo-3-Chloropropane	18.4		2.0	0.51
124-48-1	Dibromochloromethane	17.9		0.50	0.33
106-93-4	1,2-Dibromoethane (EDB)	19.9		0.50	0.34
74-95-3	Dibromomethane	19.3		1.0	0.36
95-50-1	1,2-Dichlorobenzene	18.8		1.0	0.48
541-73-1	1,3-Dichlorobenzene	20.1		1.0	0.50
106-46-7	1,4-Dichlorobenzene	17.4		1.0	0.49
75-71-8	Dichlorodifluoromethane (Freon 12)	17.2		2.0	0.29
75-34-3	1,1-Dichloroethane	18.2		1.0	0.36
107-06-2	1,2-Dichloroethane	17.1		1.0	0.26
75-35-4	1,1-Dichloroethene	18.6		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52540/5

Matrix: Water | Lab File ID: V5-082125-16.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 19:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52540 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	19.2		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	19.1		1.0	0.19
78-87-5	1,2-Dichloropropane	18.1		1.0	0.36
142-28-9	1,3-Dichloropropane	18.8		1.0	0.32
594-20-7	2,2-Dichloropropane	21.4		1.0	0.49
563-58-6	1,1-Dichloropropene	19.9		1.0	0.29
10061-01-5	cis-1,3-Dichloropropene	17.3		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	20.4		0.50	0.37
100-41-4	Ethylbenzene	18.7		1.0	0.36
87-68-3	Hexachlorobutadiene	20.6		1.0	0.24
591-78-6	2-Hexanone (MBK)	15.6		2.0	0.69
98-82-8	Isopropylbenzene	19.9		1.0	0.38
99-87-6	4-Isopropyltoluene	17.2		1.0	0.43
1634-04-4	Methyl tert-butyl ether	21.6		1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	14.7		2.0	0.35
75-09-2	Methylene Chloride	19.4		2.0	0.54
91-20-3	Naphthalene	16.5		2.0	0.70
103-65-1	N-Propylbenzene	19.9		1.0	0.36
100-42-5	Styrene	18.2		1.0	0.42
630-20-6	1,1,1,2-Tetrachloroethane	20.2		1.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	18.0		0.50	0.46
127-18-4	Tetrachloroethene	20.1		1.0	0.36
108-88-3	Toluene	18.1		1.0	0.28
87-61-6	1,2,3-Trichlorobenzene	19.1		1.0	0.74
120-82-1	1,2,4-Trichlorobenzene	17.9		1.0	0.70
108-70-3	1,3,5-Trichlorobenzene	20.4		1.0	0.54
71-55-6	1,1,1-Trichloroethane	20.5		1.0	0.33
79-00-5	1,1,2-Trichloroethane	19.2		1.0	0.35
79-01-6	Trichloroethene	17.4		1.0	0.36
75-69-4	Trichlorofluoromethane (Freon 11)	22.8		1.0	0.23
96-18-4	1,2,3-Trichloropropane	18.7		1.0	0.51
95-63-6	1,2,4-Trimethylbenzene	18.9		1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52540/5

Matrix: Water | Lab File ID: V5-082125-16.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/21/2025 19:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 52540 | Units: ug/L

Preparation Batch No.: | Instrument ID: HPV5

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-67-8	1,3,5-Trimethylbenzene	19.7		1.0	0.45
75-01-4	Vinyl chloride	17.4		1.0	0.26
179601-23-1	m,p-Xylene	40.6		1.0	0.78
95-47-6	o-Xylene	19.5		1.0	0.43
109-99-9	Tetrahydrofuran	14.9		2.0	0.70
60-29-7	Ethyl ether	16.9		1.0	0.42
994-05-8	Tert-amyl methyl ether	21.8		1.0	0.26
637-92-3	Ethyl tert-butyl ether	18.3		1.0	0.29
108-20-3	di-Isopropyl ether	15.2		1.0	0.26
75-65-0	tert-Butanol	210		10	8.5
110-57-6	trans-1,4-Dichloro-2-butene	17.4		5.0	0.81
64-17-5	Ethanol	301		200	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
1868-53-7	Dibromofluoromethane (Surr)	103		70-130

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Instrument ID: HPV4 Start Date: 08/07/2025 08:22

Analysis Batch Number: 51723 End Date: 08/07/2025 16:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 620-51723/2		08/07/2025 08:22	1	V4-080725-02.D	DB-VRX 0.18(mm)
IC 620-51723/3		08/07/2025 08:50	1	V4-080725-03.D	DB-VRX 0.18(mm)
IC 620-51723/4		08/07/2025 09:12	1	V4-080725-04.D	DB-VRX 0.18(mm)
IC 620-51723/5		08/07/2025 09:35	1	V4-080725-05.D	DB-VRX 0.18(mm)
IC 620-51723/6		08/07/2025 09:58	1	V4-080725-06.D	DB-VRX 0.18(mm)
IC 620-51723/7		08/07/2025 10:21	1	V4-080725-07.D	DB-VRX 0.18(mm)
ICIS 620-51723/8		08/07/2025 10:44	1	V4-080725-08.D	DB-VRX 0.18(mm)
IC 620-51723/9		08/07/2025 11:07	1	V4-080725-09.D	DB-VRX 0.18(mm)
IC 620-51723/10		08/07/2025 11:30	1	V4-080725-10.D	DB-VRX 0.18(mm)
IC 620-51723/11		08/07/2025 11:53	1	V4-080725-11.D	DB-VRX 0.18(mm)
ICV 620-51723/16		08/07/2025 15:14	1	V4-080725-16.D	DB-VRX 0.18(mm)
ZZZZZ (QC)		08/07/2025 15:37	1		DB-VRX 0.18(mm)
ZZZZZ (QC)		08/07/2025 16:00	1		DB-VRX 0.18(mm)
ZZZZZ (QC)		08/07/2025 16:46	1		DB-VRX 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Instrument ID: HPV4 Start Date: 08/18/2025 10:08

Analysis Batch Number: 52249 End Date: 08/18/2025 17:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 620-52249/2		08/18/2025 10:08	1	V4-081825-02.D	DB-VRX 0.18(mm)
CCVIS 620-52249/3		08/18/2025 10:31	1	V4-081825-03.D	DB-VRX 0.18(mm)
LCS 620-52249/4		08/18/2025 10:54	1	V4-081825-04.D	DB-VRX 0.18(mm)
LCSD 620-52249/5		08/18/2025 11:17	1	V4-081825-05.D	DB-VRX 0.18(mm)
MB 620-52249/7		08/18/2025 12:02	1	V4-081825-07.D	DB-VRX 0.18(mm)
620-28577-8	TB/250813	08/18/2025 12:25	1	V4-081825-08.D	DB-VRX 0.18(mm)
ZZZZZ (Client)		08/18/2025 12:48	10		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/18/2025 13:11	10		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/18/2025 13:34	10		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/18/2025 13:57	10		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/18/2025 14:43	1		DB-VRX 0.18(mm)
620-28577-1	MW-17/250811	08/18/2025 15:06	1	V4-081825-15.D	DB-VRX 0.18(mm)
ZZZZZ (Client)		08/18/2025 15:29	1		DB-VRX 0.18(mm)
620-28577-3	MW-18/250813	08/18/2025 15:52	1	V4-081825-17.D	DB-VRX 0.18(mm)
620-28577-4	MW-103I/250813	08/18/2025 16:15	1	V4-081825-18.D	DB-VRX 0.18(mm)
620-28577-5	MW-102B/250813	08/18/2025 16:37	1	V4-081825-19.D	DB-VRX 0.18(mm)
ZZZZZ (Client)		08/18/2025 17:00	1		DB-VRX 0.18(mm)
620-28577-7	FB/250813	08/18/2025 17:23	1	V4-081825-21.D	DB-VRX 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Instrument ID: HPV4 Start Date: 08/19/2025 11:59

Analysis Batch Number: 52339 End Date: 08/19/2025 19:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 620-52339/2		08/19/2025 11:59	1	V4-081925-01.D	DB-VRX 0.18(mm)
CCVIS 620-52339/3		08/19/2025 12:21	1	V4-081925-02.D	DB-VRX 0.18(mm)
LCS 620-52339/4		08/19/2025 12:44	1	V4-081925-03.D	DB-VRX 0.18(mm)
LCSD 620-52339/5		08/19/2025 13:07	1	V4-081925-04.D	DB-VRX 0.18(mm)
MB 620-52339/7		08/19/2025 14:16	1	V4-081925-07.D	DB-VRX 0.18(mm)
ZZZZZ (Client)		08/19/2025 14:44	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/19/2025 15:59	10		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/19/2025 16:22	50		DB-VRX 0.18(mm)
620-28577-4 DL	MW-103I/250813 DL	08/19/2025 16:45	10	V4-081925-13.D	DB-VRX 0.18(mm)
620-28577-5 DL	MW-102B/250813 DL	08/19/2025 17:08	10	V4-081925-14.D	DB-VRX 0.18(mm)
620-28577-6 DL	MW-102IR/250813 DL	08/19/2025 17:31	10	V4-081925-15.D	DB-VRX 0.18(mm)
ZZZZZ (Client)		08/19/2025 17:53	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/19/2025 18:16	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/19/2025 18:39	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/19/2025 19:02	1		DB-VRX 0.18(mm)
ZZZZZ (Client)		08/19/2025 19:25	1		DB-VRX 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Instrument ID: HPV5 Start Date: 07/24/2025 09:52

Analysis Batch Number: 51000 End Date: 07/24/2025 15:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 620-51000/2		07/24/2025 09:52	1	V5-072425-02.D	RTX-VMS 0.25(mm)
IC 620-51000/3		07/24/2025 10:25	1	V5-072425-03.D	RTX-VMS 0.25(mm)
IC 620-51000/4		07/24/2025 10:50	1	V5-072425-04.D	RTX-VMS 0.25(mm)
IC 620-51000/5		07/24/2025 11:16	1	V5-072425-05.D	RTX-VMS 0.25(mm)
IC 620-51000/6		07/24/2025 11:42	1	V5-072425-06.D	RTX-VMS 0.25(mm)
IC 620-51000/7		07/24/2025 12:08	1	V5-072425-07.D	RTX-VMS 0.25(mm)
ICIS 620-51000/8		07/24/2025 12:34	1	V5-072425-08.D	RTX-VMS 0.25(mm)
IC 620-51000/9		07/24/2025 13:01	1	V5-072425-09.D	RTX-VMS 0.25(mm)
IC 620-51000/10		07/24/2025 13:26	1	V5-072425-10.D	RTX-VMS 0.25(mm)
IC 620-51000/11		07/24/2025 13:52	1	V5-072425-11.D	RTX-VMS 0.25(mm)
ICV 620-51000/14		07/24/2025 15:28	1	V5-072425-14.D	RTX-VMS 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Instrument ID: HPV5 Start Date: 08/20/2025 19:28

Analysis Batch Number: 52457 End Date: 08/21/2025 05:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 620-52457/2		08/20/2025 19:28	1	V5-082025-13.D	RTX-VMS 0.25(mm)
CCVIS 620-52457/3		08/20/2025 19:54	1	V5-082025-14.D	RTX-VMS 0.25(mm)
LCS 620-52457/4		08/20/2025 20:21	1	V5-082025-15.D	RTX-VMS 0.25(mm)
LCSD 620-52457/5		08/20/2025 20:48	1	V5-082025-16.D	RTX-VMS 0.25(mm)
MB 620-52457/7		08/20/2025 21:43	1	V5-082025-18.D	RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/20/2025 22:10	1		RTX-VMS 0.25(mm)
620-28577-2	MW-19/250813	08/21/2025 01:15	1	V5-082025-26.D	RTX-VMS 0.25(mm)
620-28577-6	MW-102IR/250813	08/21/2025 01:42	1	V5-082025-27.D	RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/21/2025 02:07	1		RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/21/2025 03:48	1		RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/21/2025 04:13	1		RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/21/2025 04:38	1		RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/21/2025 05:03	1		RTX-VMS 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Instrument ID: HPV5 Start Date: 08/21/2025 17:58

Analysis Batch Number: 52540 End Date: 08/22/2025 04:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 620-52540/2		08/21/2025 17:58	1	V5-082125-13.D	RTX-VMS 0.25(mm)
CCVIS 620-52540/3		08/21/2025 18:25	1	V5-082125-14.D	RTX-VMS 0.25(mm)
LCS 620-52540/4		08/21/2025 18:51	1	V5-082125-15.D	RTX-VMS 0.25(mm)
LCSD 620-52540/5		08/21/2025 19:17	1	V5-082125-16.D	RTX-VMS 0.25(mm)
MB 620-52540/7		08/21/2025 20:10	1	V5-082125-18.D	RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/21/2025 20:37	1		RTX-VMS 0.25(mm)
620-28577-1 DL	MW-17/250811 DL	08/21/2025 22:23	10	V5-082125-23.D	RTX-VMS 0.25(mm)
620-28577-3 DL	MW-18/250813 DL	08/21/2025 22:50	50	V5-082125-24.D	RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/21/2025 23:17	25		RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/21/2025 23:44	25		RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/22/2025 00:11	50		RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/22/2025 00:37	50		RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/22/2025 01:58	100		RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/22/2025 02:24	100		RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/22/2025 03:15	100		RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/22/2025 03:40	100		RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/22/2025 04:06	1		RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/22/2025 04:31	1		RTX-VMS 0.25(mm)
ZZZZZ (Client)		08/22/2025 04:57	1		RTX-VMS 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Batch Number: 51000 Batch Start Date: 07/24/25 09:52 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date: 07/24/25 21:52

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	VO8260BFB 00010	VO8260IS/SS 00026	VO8260Primary 00142	VO8260Second 00123
BFB 620-51000/2		8260C			5 mL	5 mL	5 uL	5 uL		
IC 620-51000/3		8260C			5 mL	5 mL		5 uL	0.5 uL	
IC 620-51000/4		8260C			5 mL	5 mL		5 uL	1 uL	
IC 620-51000/5		8260C			5 mL	5 mL		5 uL	2 uL	
IC 620-51000/6		8260C			5 mL	5 mL		5 uL	5 uL	
IC 620-51000/7		8260C			5 mL	5 mL		5 uL	10 uL	
ICIS 620-51000/8		8260C			5 mL	5 mL		5 uL	20 uL	
IC 620-51000/9		8260C			5 mL	5 mL		5 uL	40 uL	
IC 620-51000/10		8260C			5 mL	5 mL		5 uL	50 uL	
IC 620-51000/11		8260C			5 mL	5 mL		5 uL	100 uL	
ICV 620-51000/14		8260C			5 mL	5 mL		5 uL		20 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	VOEM/VA_Prim 00002	VOTCL_EM/VA_S 00001				
BFB 620-51000/2		8260C								
IC 620-51000/3		8260C			0.5 uL					
IC 620-51000/4		8260C			1 uL					
IC 620-51000/5		8260C			2 uL					
IC 620-51000/6		8260C			5 uL					
IC 620-51000/7		8260C			10 uL					
ICIS 620-51000/8		8260C			20 uL					
IC 620-51000/9		8260C			40 uL					
IC 620-51000/10		8260C			50 uL					
IC 620-51000/11		8260C			100 uL					
ICV 620-51000/14		8260C				20 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 Rhode Island Job No.: 620-28577-1

SDG No.:

Batch Number: 51000 Batch Start Date: 07/24/25 09:52 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date: 07/24/25 21:52

Batch Notes	
pH Indicator ID	14186
Residual Chlorine Indicator ID	141875
Pipette/Syringe/Dispenser ID	V2UL01 V5UL01 V25UL01 V50UL01 V100UL01
Vial Lot Number	0102701k

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 Rhode Island Job No.: 620-28577-1

SDG No.:

Batch Number: 51723 Batch Start Date: 08/07/25 08:22 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date: 08/07/25 20:22

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	VO8260BFB 00010	VO8260IS/SS 00026	VO8260Primary 00143	VO8260Second 00123
BFB 620-51723/2		8260C			5 mL	5 mL	5 uL	5 uL		
IC 620-51723/3		8260C			5 mL	5 mL		5 uL	0.5 uL	
IC 620-51723/4		8260C			5 mL	5 mL		5 uL	1 uL	
IC 620-51723/5		8260C			5 mL	5 mL		5 uL	2 uL	
IC 620-51723/6		8260C			5 mL	5 mL		5 uL	5 uL	
IC 620-51723/7		8260C			5 mL	5 mL		5 uL	10 uL	
ICIS 620-51723/8		8260C			5 mL	5 mL		5 uL	20 uL	
IC 620-51723/9		8260C			5 mL	5 mL		5 uL	40 uL	
IC 620-51723/10		8260C			5 mL	5 mL		5 uL	50 uL	
IC 620-51723/11		8260C			5 mL	5 mL		5 uL	100 uL	
ICV 620-51723/16		8260C			5 mL	5 mL		5 uL		20 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	VOTCL_EM/VA_S 00002					
BFB 620-51723/2		8260C								
IC 620-51723/3		8260C								
IC 620-51723/4		8260C								
IC 620-51723/5		8260C								
IC 620-51723/6		8260C								
IC 620-51723/7		8260C								
ICIS 620-51723/8		8260C								
IC 620-51723/9		8260C								
IC 620-51723/10		8260C								
IC 620-51723/11		8260C								
ICV 620-51723/16		8260C			20 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 Rhode Island Job No.: 620-28577-1

SDG No.:

Batch Number: 51723 Batch Start Date: 08/07/25 08:22 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date: 08/07/25 20:22

Batch Notes	
pH Indicator ID	141866
Residual Chlorine Indicator ID	141875
Pipette/Syringe/Dispenser ID	V2UL01 V5UL01 V25UL01 V50UL01 V100UL01
Vial Lot Number	0102701K

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 Rhode Island Job No.: 620-28577-1

SDG No.:

Batch Number: 52249 Batch Start Date: 08/18/25 10:08 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	VO8260BFB 00011
BFB 620-52249/2		8260C			5 mL	5 mL				5 uL
CCVIS 620-52249/3		8260C			5 mL	5 mL	< 2 SU			
LCS 620-52249/4		8260C			5 mL	5 mL				
LCSD 620-52249/5		8260C			5 mL	5 mL				
MB 620-52249/7		8260C			5 mL	5 mL	< 2 SU			
620-28577-A-8	TB/250813	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28577-A-1	MW-17/250811	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28577-A-3	MW-18/250813	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28577-A-4	MW-103I/250813	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28577-A-5	MW-102B/250813	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28577-A-7	FB/250813	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	VO8260IS/SS 00026	VO8260Primary 00143				
BFB 620-52249/2		8260C			5 uL					
CCVIS 620-52249/3		8260C			5 uL	20 uL				
LCS 620-52249/4		8260C			5 uL	20 uL				
LCSD 620-52249/5		8260C			5 uL	20 uL				
MB 620-52249/7		8260C			5 uL					
620-28577-A-8	TB/250813	8260C	Water	T	5 uL					
620-28577-A-1	MW-17/250811	8260C	Water	T	5 uL					
620-28577-A-3	MW-18/250813	8260C	Water	T	5 uL					
620-28577-A-4	MW-103I/250813	8260C	Water	T	5 uL					
620-28577-A-5	MW-102B/250813	8260C	Water	T	5 uL					
620-28577-A-7	FB/250813	8260C	Water	T	5 uL					

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Batch Number: 52249 Batch Start Date: 08/18/25 10:08 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date:

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 Rhode Island Job No.: 620-28577-1

SDG No.:

Batch Number: 52339 Batch Start Date: 08/19/25 11:59 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date: 08/19/25 23:59

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	VO8260BFB 00011
BFB 620-52339/2		8260C			5 mL	5 mL				5 uL
CCVIS 620-52339/3		8260C			5 mL	5 mL	< 2 SU			
LCS 620-52339/4		8260C			5 mL	5 mL	< 2 SU			
LCSD 620-52339/5		8260C			5 mL	5 mL	< 2 SU			
MB 620-52339/7		8260C			5 mL	5 mL	< 2 SU			
620-28577-C-4	MW-103I/250813	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28577-N-5	MW-102B/250813	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28577-C-6	MW-102IR/250813	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	VO8260IS/SS 00026	VO8260Primary 00143				
BFB 620-52339/2		8260C			5 uL					
CCVIS 620-52339/3		8260C			5 uL	20 uL				
LCS 620-52339/4		8260C			5 uL	20 uL				
LCSD 620-52339/5		8260C			5 uL	20 uL				
MB 620-52339/7		8260C			5 uL					
620-28577-C-4	MW-103I/250813	8260C	Water	T	5 uL					
620-28577-N-5	MW-102B/250813	8260C	Water	T	5 uL					
620-28577-C-6	MW-102IR/250813	8260C	Water	T	5 uL					

Batch Notes	
pH Indicator ID	141866
Residual Chlorine Indicator ID	141875
Pipette/Syringe/Dispenser ID	V50UL01
Vial Lot Number	0102701k

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 Rhode Island Job No.: 620-28577-1

SDG No.:

Batch Number: 52457 Batch Start Date: 08/20/25 19:28 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date: 08/21/25 07:28

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	VO8260BFB 00011
BFB 620-52457/2		8260C			5 mL	5 mL				5 uL
CCVIS 620-52457/3		8260C			5 mL	5 mL	< 2 SU			
LCS 620-52457/4		8260C			5 mL	5 mL	< 2 SU			
LCSD 620-52457/5		8260C			5 mL	5 mL	< 2 SU			
MB 620-52457/7		8260C			5 mL	5 mL	< 2 SU			
620-28577-B-2	MW-19/250813	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28577-B-6	MW-102IR/250813	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	VO8260IS/SS 00026	VO8260Second 00125				
BFB 620-52457/2		8260C			5 uL					
CCVIS 620-52457/3		8260C			5 uL	20 uL				
LCS 620-52457/4		8260C			5 uL	20 uL				
LCSD 620-52457/5		8260C			5 uL	20 uL				
MB 620-52457/7		8260C			5 uL					
620-28577-B-2	MW-19/250813	8260C	Water	T	5 uL					
620-28577-B-6	MW-102IR/250813	8260C	Water	T	5 uL					

Batch Notes	
pH Indicator ID	141866
Residual Chlorine Indicator ID	141875
Pipette/Syringe/Dispenser ID	V50UL01
Vial Lot Number	0102701K

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 Rhode Island Job No.: 620-28577-1

SDG No.:

Batch Number: 52540 Batch Start Date: 08/21/25 17:58 Batch Analyst: Rouleau, Caroline L

Batch Method: 8260C Batch End Date: 08/22/25 05:58

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	VO8260BFB 00011
BFB 620-52540/2		8260C			5 mL	5 mL				5 uL
CCVIS 620-52540/3		8260C			5 mL	5 mL	< 2 SU			
LCS 620-52540/4		8260C			5 mL	5 mL	< 2 SU			
LCSD 620-52540/5		8260C			5 mL	5 mL	< 2 SU			
MB 620-52540/7		8260C			5 mL	5 mL	< 2 SU			
620-28577-B-1	MW-17/250811	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	
620-28577-B-3	MW-18/250813	8260C	Water	T	5 mL	5 mL	< 2 SU	0	none	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	VO8260IS/SS 00026	VO8260Second 00125				
BFB 620-52540/2		8260C			5 uL					
CCVIS 620-52540/3		8260C			5 uL	20 uL				
LCS 620-52540/4		8260C			5 uL	20 uL				
LCSD 620-52540/5		8260C			5 uL	20 uL				
MB 620-52540/7		8260C			5 uL					
620-28577-B-1	MW-17/250811	8260C	Water	T	5 uL					
620-28577-B-3	MW-18/250813	8260C	Water	T	5 uL					

Batch Notes	
pH Indicator ID	141866
Residual Chlorine Indicator ID	1418785
Pipette/Syringe/Dispenser ID	V50uL01 V1ML01
Vial Lot Number	0102701K

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.

8270D_SIM_MS_ID

Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): HP-5MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DXE	#
MW-103I/250813	620-28577-4	9	*
MW-102B/250813	620-28577-5	11	
MW-102IR/250813	620-28577-6	11	
FB/250813	620-28577-7	13	
	MB 620-52299/1-A	14	
	LCS 620-52299/2-A	12	
	LCSD 620-52299/3-A	12	

	QC LIMITS
DXE = 1,4-Dioxane-d8	10-150

Column to be used to flag recovery values

FORM II 8270D SIM ID

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S8-082025-04.D

Lab ID: LCS 620-52299/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	4.00	5.57	139	40-140	
1,4-Dioxane-d8	4.00	0.481	12	10-150	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S8-082025-05.D

Lab ID: LCSD 620-52299/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	4.00	4.98	125	11	30	40-140	
1,4-Dioxane-d8	4.00	0.482	12			10-150	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab File ID: S8-082025-03.D Lab Sample ID: MB 620-52299/1-A

Matrix: Water Date Extracted: 08/18/2025 18:42

Instrument ID: HPS8 Date Analyzed: 08/20/2025 11:03

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 620-52299/2-A	S8-082025-04.D	08/20/2025 11:21
	LCSD 620-52299/3-A	S8-082025-05.D	08/20/2025 11:38
MW-103I/250813	620-28577-4	S8-082025-17.D	08/20/2025 15:09
MW-102IR/250813	620-28577-6	S8-082025-20.D	08/20/2025 16:02
FB/250813	620-28577-7	S8-082025-21.D	08/20/2025 16:19
MW-102B/250813	620-28577-5	S8-082025-22.D	08/20/2025 16:36

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab File ID: S8-052825-06.D DFTPP Injection Date: 05/28/2025

Instrument ID: HPS8 DFTPP Injection Time: 11:48

Analysis Batch No.: 48403

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	54.9	
70	Less than 2% of mass 69	0.4	(0.8) 1
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.3	
365	Greater than 1% of mass 198	4.2	
441	present but less than 24% of mass 442	14.3	(16.1) 2
442	Greater than 50% of mass 198	88.8	
443	15-24% of mass 442	17.6	(19.8) 2

1-Value is % mass 69 2-Value is % mass 442

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 620-48403/2	S8-052825-07.	05/28/2025	12:08
	IC 620-48403/3	S8-052825-08.	05/28/2025	12:26
	IC 620-48403/4	S8-052825-09.	05/28/2025	12:44
	IC 620-48403/5	S8-052825-10.	05/28/2025	13:28
	ICIS 620-48403/6	S8-052825-11.	05/28/2025	13:46
	IC 620-48403/7	S8-052825-12.	05/28/2025	14:05
	IC 620-48403/8	S8-052825-13.	05/28/2025	14:23
	ICV 620-48403/9	S8-052825-14.	05/28/2025	14:41

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab File ID: S8-082025-01.D DFTPP Injection Date: 08/20/2025

Instrument ID: HPS8 DFTPP Injection Time: 10:22

Analysis Batch No.: 52418

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of mass 69	0.4	(0.9) 1
69	Mass 69 Relative abundance	45.3	
70	Less than 2% of mass 69	0.2	(0.4) 1
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.9	
365	Greater than 1% of mass 198	2.8	
441	present but less than 24% of mass 442	7.5	(15.8) 2
442	Greater than 50% of mass 198	47.8	
443	15-24% of mass 442	9.0	(18.8) 2

1-Value is % mass 69 2-Value is % mass 442

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 620-52418/2	S8-082025-02.	08/20/2025	10:42
	MB 620-52299/1-A	S8-082025-03.	08/20/2025	11:03
	LCS 620-52299/2-A	S8-082025-04.	08/20/2025	11:21
	LCSD 620-52299/3-A	S8-082025-05.	08/20/2025	11:38
MW-103I/250813	620-28577-4	S8-082025-17.	08/20/2025	15:09
MW-102IR/250813	620-28577-6	S8-082025-20.	08/20/2025	16:02
FB/250813	620-28577-7	S8-082025-21.	08/20/2025	16:19
MW-102B/250813	620-28577-5	S8-082025-22.	08/20/2025	16:36

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

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Sample No.: ICIS 620-48403/6 Date Analyzed: 05/28/2025 13:46

Instrument ID: HPS8 GC Column: HP-5MS ID: 0.25(mm)

Lab File ID (Standard): S8-052825-11.D Heated Purge: (Y/N) N

Calibration ID: 10043

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		64588	5.91				
UPPER LIMIT		129176	6.41				
LOWER LIMIT		32294	5.41				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 620-48403/9		87851	5.94				

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 SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Sample No.: CCVIS 620-52418/2 Date Analyzed: 08/20/2025 10:42

Instrument ID: HPS8 GC Column: HP-5MS ID: 0.25(mm)

Lab File ID (Standard): S8-082025-02.D Heated Purge: (Y/N) N

Calibration ID: 10043

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		69968	5.72				
UPPER LIMIT		139936	6.22				
LOWER LIMIT		34984	5.22				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 620-52299/1-A		95724	5.70				
LCS 620-52299/2-A		105283	5.70				
LCSD 620-52299/3-A		104327	5.68				
620-28577-4	MW-103I/250813	103335	5.64				
620-28577-6	MW-102IR/250813	97215	5.66				
620-28577-7	FB/250813	101142	5.66				
620-28577-5	MW-102B/250813	98870	5.66				

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 SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-103I/250813 | Lab Sample ID: 620-28577-4

Matrix: Water | Lab File ID: S8-082025-17.D

Analysis Method: 8270D SIM ID | Date Collected: 08/13/2025 12:35

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 250(mL) | Date Analyzed: 08/20/2025 15:09

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.8		0.20	0.19

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	9	*	10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102B/250813 | Lab Sample ID: 620-28577-5

Matrix: Water | Lab File ID: S8-082025-22.D

Analysis Method: 8270D SIM ID | Date Collected: 08/13/2025 15:10

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 250(mL) | Date Analyzed: 08/20/2025 16:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	53		2.0	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	11		10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102IR/250813 | Lab Sample ID: 620-28577-6

Matrix: Water | Lab File ID: S8-082025-20.D

Analysis Method: 8270D SIM ID | Date Collected: 08/13/2025 15:30

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 255(mL) | Date Analyzed: 08/20/2025 16:02

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	15		0.20	0.19

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	11		10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: FB/250813 | Lab Sample ID: 620-28577-7

Matrix: Water | Lab File ID: S8-082025-21.D

Analysis Method: 8270D SIM ID | Date Collected: 08/13/2025 15:00

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 260(mL) | Date Analyzed: 08/20/2025 16:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.19	U	0.19	0.18

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	13		10-150

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 48403

SDG No.:

Instrument ID: HPS8 GC Column: HP-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2025 12:08 Calibration End Date: 05/28/2025 14:23 Calibration ID: 10043

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-48403/2	S8-052825-07.D
Level 2	IC 620-48403/3	S8-052825-08.D
Level 3	IC 620-48403/4	S8-052825-09.D
Level 4	IC 620-48403/5	S8-052825-10.D
Level 5	ICIS 620-48403/6	S8-052825-11.D
Level 6	IC 620-48403/7	S8-052825-12.D
Level 7	IC 620-48403/8	S8-052825-13.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 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.9385 1.1172	1.0737 1.0698	1.4313	1.3259	1.2148	AveID		1.1673				14.4		20.0			
1,4-Dioxane-d8	0.3966 0.4595	0.3997 0.3192	0.3276	0.3417	0.4209	Ave		0.3807				13.8		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 SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 48403

SDG No.:

Instrument ID: HPS8 GC Column: HP-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2025 12:08 Calibration End Date: 05/28/2025 14:23 Calibration ID: 10043

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-48403/2	S8-052825-07.D
Level 2	IC 620-48403/3	S8-052825-08.D
Level 3	IC 620-48403/4	S8-052825-09.D
Level 4	IC 620-48403/5	S8-052825-10.D
Level 5	ICIS 620-48403/6	S8-052825-11.D
Level 6	IC 620-48403/7	S8-052825-12.D
Level 7	IC 620-48403/8	S8-052825-13.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane		AveID	4995 303191	11253 601950	31255	63869	132448	0.0502 2.51	0.100 5.02	0.251	0.502	1.00
1,4-Dioxane-d8	DCBd4	Ave	105965 108067	104335 112034	86954	95910	108543	1.00 1.00	1.00 1.00	1.00	1.00	1.00

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1 Analy Batch No.: 48403

SDG No.:

Instrument ID: HPS8 GC Column: HP-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2025 12:08 Calibration End Date: 05/28/2025 14:23 Calibration ID: 10043

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 620-48403/2	S8-052825-07.D
Level 2	IC 620-48403/3	S8-052825-08.D
Level 3	IC 620-48403/4	S8-052825-09.D
Level 4	IC 620-48403/5	S8-052825-10.D
Level 5	ICIS 620-48403/6	S8-052825-11.D
Level 6	IC 620-48403/7	S8-052825-12.D
Level 7	IC 620-48403/8	S8-052825-13.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dioxane-d8	4.2						30					

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

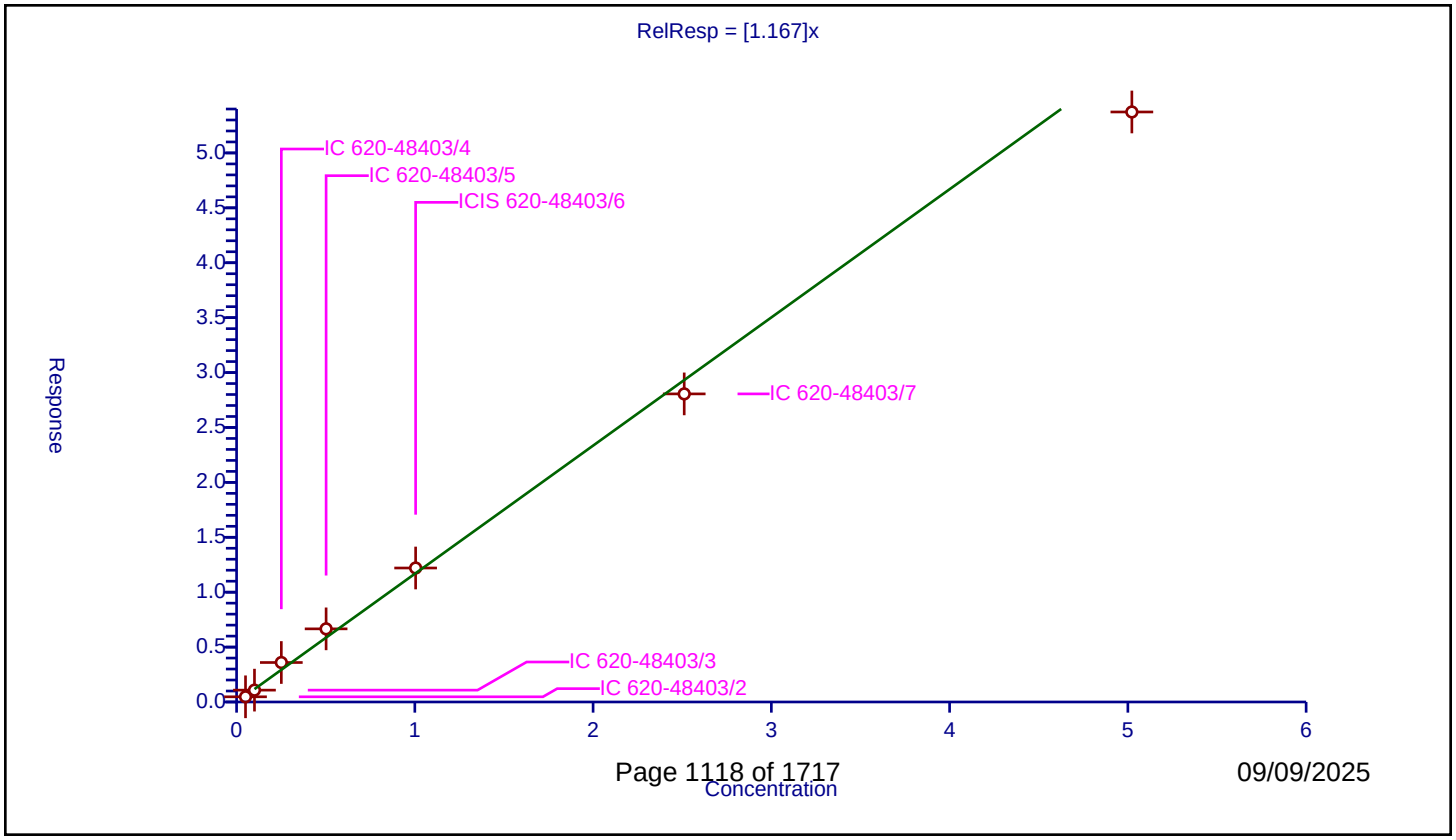
Curve Coefficients

Intercept:	0
Slope:	1.167

Error Coefficients

Relative Standard Deviation:	14.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 620-48403/2	0.050225	0.047138	1.0	105965.0	0.938541	Y
2	IC 620-48403/3	0.10045	0.107855	1.0	104335.0	1.073713	Y
3	IC 620-48403/4	0.251125	0.359443	1.0	86954.0	1.431331	Y
4	IC 620-48403/5	0.50225	0.665926	1.0	95910.0	1.325886	Y
5	ICIS 620-48403/6	1.0045	1.220235	1.0	108543.0	1.214769	Y
6	IC 620-48403/7	2.51125	2.805584	1.0	108067.0	1.117206	Y
7	IC 620-48403/8	5.0225	5.372923	1.0	112034.0	1.069771	Y



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: ICV 620-48403/9 Calibration Date: 05/28/2025 14:41

Instrument ID: HPS8 Calib Start Date: 05/28/2025 12:08

GC Column: HP-5MS ID: 0.25(mm) Calib End Date: 05/28/2025 14:23

Lab File ID: S8-052825-14.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.167	1.179		1.01	1.00	1.0	20.0
1,4-Dioxane-d8	Ave	0.3807	0.3051		0.801	1.00	-19.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCVIS 620-52418/2 Calibration Date: 08/20/2025 10:42

Instrument ID: HPS8 Calib Start Date: 05/28/2025 12:08

GC Column: HP-5MS ID: 0.25(mm) Calib End Date: 05/28/2025 14:23

Lab File ID: S8-082025-02.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.167	1.237		1.06	1.00	6.0	20.0
1,4-Dioxane-d8	Ave	0.3807	0.4253		1.12	1.00	11.7	20.0

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 620-52299/1-A

Matrix: Water | Lab File ID: S8-082025-03.D

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 250(mL) | Date Analyzed: 08/20/2025 11:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.20	U	0.20	0.19

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	14		10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 620-52299/2-A

Matrix: Water | Lab File ID: S8-082025-04.D

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 250(mL) | Date Analyzed: 08/20/2025 11:21

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	5.57		0.20	0.19

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	12		10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 620-52299/3-A

Matrix: Water | Lab File ID: S8-082025-05.D

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/18/2025 18:42

Sample wt/vol: 250(mL) | Date Analyzed: 08/20/2025 11:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: HP-5MS ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 52418 | Units: ug/L

Preparation Batch No.: 52299 | Instrument ID: HPS8

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	4.98		0.20	0.19

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	12		10-150

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Instrument ID: HPS8 Start Date: 05/28/2025 11:48

Analysis Batch Number: 48403 End Date: 05/28/2025 18:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 620-48403/1		05/28/2025 11:48	1	S8-052825-06.D	HP-5MS 0.25(mm)
IC 620-48403/2		05/28/2025 12:08	1	S8-052825-07.D	HP-5MS 0.25(mm)
IC 620-48403/3		05/28/2025 12:26	1	S8-052825-08.D	HP-5MS 0.25(mm)
IC 620-48403/4		05/28/2025 12:44	1	S8-052825-09.D	HP-5MS 0.25(mm)
IC 620-48403/5		05/28/2025 13:28	1	S8-052825-10.D	HP-5MS 0.25(mm)
ICIS 620-48403/6		05/28/2025 13:46	1	S8-052825-11.D	HP-5MS 0.25(mm)
IC 620-48403/7		05/28/2025 14:05	1	S8-052825-12.D	HP-5MS 0.25(mm)
IC 620-48403/8		05/28/2025 14:23	1	S8-052825-13.D	HP-5MS 0.25(mm)
ICV 620-48403/9		05/28/2025 14:41	1	S8-052825-14.D	HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 15:42	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 16:00	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 16:18	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 16:36	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 16:54	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 17:12	1		HP-5MS 0.25(mm)
ZZZZZ (QC)		05/28/2025 17:29	1		HP-5MS 0.25(mm)
ZZZZZ (QC)		05/28/2025 17:47	1		HP-5MS 0.25(mm)
ZZZZZ (QC)		05/28/2025 18:05	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 18:23	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		05/28/2025 18:41	1		HP-5MS 0.25(mm)

8270D SIM ID

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Instrument ID: HPS8 Start Date: 08/20/2025 10:22

Analysis Batch Number: 52418 End Date: 08/20/2025 16:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 620-52418/1		08/20/2025 10:22	1	S8-082025-01.D	HP-5MS 0.25(mm)
CCVIS 620-52418/2		08/20/2025 10:42	1	S8-082025-02.D	HP-5MS 0.25(mm)
MB 620-52299/1-A		08/20/2025 11:03	1	S8-082025-03.D	HP-5MS 0.25(mm)
LCS 620-52299/2-A		08/20/2025 11:21	1	S8-082025-04.D	HP-5MS 0.25(mm)
LCSD 620-52299/3-A		08/20/2025 11:38	1	S8-082025-05.D	HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 11:56	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 12:13	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 12:31	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 12:48	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 13:06	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 13:23	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 13:41	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 14:16	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 14:34	1		HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 14:52	1		HP-5MS 0.25(mm)
620-28577-4	MW-103I/250813	08/20/2025 15:09	1	S8-082025-17.D	HP-5MS 0.25(mm)
ZZZZZ (Client)		08/20/2025 15:44	5		HP-5MS 0.25(mm)
620-28577-6	MW-102IR/250813	08/20/2025 16:02	1	S8-082025-20.D	HP-5MS 0.25(mm)
620-28577-7	FB/250813	08/20/2025 16:19	1	S8-082025-21.D	HP-5MS 0.25(mm)
620-28577-5	MW-102B/250813	08/20/2025 16:36	10	S8-082025-22.D	HP-5MS 0.25(mm)

8270D SIM ID

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Batch Number: 48403 Batch Start Date: 05/28/25 11:48 Batch Analyst: Smith, Jordan

Batch Method: 8270D SIM ID Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	1,4D-LVI-Sur 00001	MSS-1,4-CAL1 00020	MSS-1,4-CAL2 00019	MSS-1,4-CAL3 00020	MSS-1,4-CAL4 00019	MSS-1,4-CAL5 00021
DFTPP 620-48403/1		8270D SIM ID								
IC 620-48403/2		8270D SIM ID			10 uL	1 mL				
IC 620-48403/3		8270D SIM ID			10 uL		1 mL			
IC 620-48403/4		8270D SIM ID			10 uL			1 mL		
IC 620-48403/5		8270D SIM ID			10 uL				1 mL	
ICIS 620-48403/6		8270D SIM ID			10 uL					1 mL
IC 620-48403/7		8270D SIM ID			10 uL					
IC 620-48403/8		8270D SIM ID			10 uL					
ICV 620-48403/9		8270D SIM ID			10 uL					

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSS-1,4-CAL6 00020	MSS-1,4-CAL7 00017	MSS-1,4-ICV 00024	MSS-1,4D-IS 00001	SV-DFTPP-LVI 00009	
DFTPP 620-48403/1		8270D SIM ID						20 uL	1 mL	
IC 620-48403/2		8270D SIM ID						20 uL		
IC 620-48403/3		8270D SIM ID						20 uL		
IC 620-48403/4		8270D SIM ID						20 uL		
IC 620-48403/5		8270D SIM ID						20 uL		
ICIS 620-48403/6		8270D SIM ID						20 uL		
IC 620-48403/7		8270D SIM ID			1 mL			20 uL		
IC 620-48403/8		8270D SIM ID				1 mL		20 uL		
ICV 620-48403/9		8270D SIM ID					1 mL	20 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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Batch Number: 52299 Batch Start Date: 08/18/25 18:42 Batch Analyst: Harvey-Berk, Aili A

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	OP-LCS-1,4-D 00080	OP-SUR-1.4-D 00100
MB 620-52299/1		3510C, 8270D SIM ID			250 mL	1 mL	6 SU	<2 SU		1000 uL
LCS 620-52299/2		3510C, 8270D SIM ID			250 mL	1 mL	6 SU	<2 SU	1000 uL	1000 uL
LCSD 620-52299/3		3510C, 8270D SIM ID			250 mL	1 mL	6 SU	<2 SU	1000 uL	1000 uL
620-28577-I-4	MW-103I/250813	3510C, 8270D SIM ID	Water	T	250 mL	1 mL	6 SU	<2 SU		1000 uL
620-28577-T-5	MW-102B/250813	3510C, 8270D SIM ID	Water	T	250 mL	1 mL	6 SU	<2 SU		1000 uL
620-28577-L-6	MW-102IR/250813	3510C, 8270D SIM ID	Water	T	255 mL	1 mL	6 SU	<2 SU		1000 uL
620-28577-I-7	FB/250813	3510C, 8270D SIM ID	Water	T	260 mL	1 mL	5 SU	<2 SU		1000 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.

8270D SIM ID

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Batch Number: 52299 Batch Start Date: 08/18/25 18:42 Batch Analyst: Harvey-Berk, Aili A

Batch Method: 3510C Batch End Date:

Batch Notes	
Method/Fraction	8270D_SIM_MS_ID
Was daily balance calibration done?	Yes
pH Indicator ID	410842
Pipette/Syringe/Dispenser ID	P1ML04
Analyst ID - Extraction	sv3h
Reagent Water ID	037836
Analyst ID - Spike Analyst	sv3h
Sufficient Volume for Batch QC	y
Acid Used for pH Adjustment ID	606502
Prep Solvent ID	652329
Prep Solvent Volume Used	45 mL
Filter ID	628847
Glass Wool ID	24415999
Na2SO4 ID	613255
Analyst ID - Concentration	sv3h
Equipment ID - Concentration 1	TV2
Concentration 1 Uncorrected Temperature	49 Degrees C
Concentration 1 Corrected Temperature	45 Degrees C
Vial Lot Number	25085726

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.

8270D SIM ID

9056A_ORGFM_28D

Anions, Ion Chromatography

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 15_Aug_2025 09_40.d

Lab ID: LCS 410-686095/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Chloride	3.00	2.976	99	90-110	
Sulfate	7.50	7.438	99	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 15_Aug_2025 17_48.d

Lab ID: LCS 410-686927/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Chloride	3.00	2.940	98	90-110	
Sulfate	7.50	7.262	97	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 15_Aug_2025 09_48.d

Lab ID: LCSD 410-686095/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloride	3.00	2.973	99	0	20	90-110	
Sulfate	7.50	7.309	97	2	20	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 15_Aug_2025 17_56.d

Lab ID: LCSD 410-686927/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloride	3.00	2.942	98	0	20	90-110	
Sulfate	7.50	7.229	96	0	20	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 15_Aug_2025 20_37.d

Lab ID: 410-235906-G-4 MS Client ID:

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Chloride	20.0	37.5	55.91	92	90-110	
Sulfate	50.0	15.0 U	50.52	101	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 15_Aug_2025 10_50.d

Lab ID: 620-28577-6 MS Client ID: MW-102IR/250813 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Chloride	2.00	9.59	11.73	107	90-110	
Sulfate	5.00	25.0	29.34	87	90-110	*

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Lab File ID: 15_Aug_2025 10_02.d Lab Sample ID: MB 410-686095/5

Matrix: Water Date Extracted:

Instrument ID: 23204 Date Analyzed: 08/15/2025 10:02

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-686095/3	15_Aug_2025 09_40.d	08/15/2025 09:40
	LCSD 410-686095/4	15_Aug_2025 09_48.d	08/15/2025 09:48
MW-103I/250813	620-28577-4	15_Aug_2025 10_10.d	08/15/2025 10:10
FB/250813	620-28577-7	15_Aug_2025 10_18.d	08/15/2025 10:18
MW-102B/250813	620-28577-5	15_Aug_2025 10_26.d	08/15/2025 10:26
MW-102IR/250813	620-28577-6	15_Aug_2025 10_34.d	08/15/2025 10:34
MW-102IR/250813 DU	620-28577-6 DU	15_Aug_2025 10_42.d	08/15/2025 10:42
MW-102IR/250813 MS	620-28577-6 MS	15_Aug_2025 10_50.d	08/15/2025 10:50

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Lab File ID: 15_Aug_2025 18_04.d Lab Sample ID: MB 410-686927/5

Matrix: Water Date Extracted:

Instrument ID: 23204 Date Analyzed: 08/15/2025 18:04

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-686927/3	15_Aug_2025 17_48.d	08/15/2025 17:48
	LCSD 410-686927/4	15_Aug_2025 17_56.d	08/15/2025 17:56
	410-235906-G-4 DU	15_Aug_2025 20_29.d	08/15/2025 20:29
	410-235906-G-4 MS	15_Aug_2025 20_37.d	08/15/2025 20:37
MW-102B/250813	620-28577-5	15_Aug_2025 22_53.d	08/15/2025 22:53

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-103I/250813
Lab Sample ID: 620-28577-4

Matrix: Water
Lab File ID: 15_Aug_2025 10_10.d

Analysis Method: 9056A
Date Collected: 08/13/2025 12:35

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 10:10

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686095
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	6.14		1.50	0.60
14808-79-8	Sulfate	16.5		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102B/250813
Lab Sample ID: 620-28577-5

Matrix: Water
Lab File ID: 15_Aug_2025 10_26.d

Analysis Method: 9056A
Date Collected: 08/13/2025 15:10

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 10:26

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686095
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	1.50	U	1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102B/250813
Lab Sample ID: 620-28577-5

Matrix: Water
Lab File ID: 15_Aug_2025 22_53.d

Analysis Method: 9056A
Date Collected: 08/13/2025 15:10

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 22:53

Con. Extract Vol.:
Dilution Factor: 5

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686927
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	18.4		7.50	3.00

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102IR/250813
Lab Sample ID: 620-28577-6

Matrix: Water
Lab File ID: 15_Aug_2025 10_34.d

Analysis Method: 9056A
Date Collected: 08/13/2025 15:30

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 10:34

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686095
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	9.59		1.50	0.60
14808-79-8	Sulfate	25.0		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID: FB/250813
Lab Sample ID: 620-28577-7

Matrix: Water
Lab File ID: 15_Aug_2025 10_18.d

Analysis Method: 9056A
Date Collected: 08/13/2025 15:00

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 10:18

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686095
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.50	U	1.50	0.60
14808-79-8	Sulfate	1.50	U	1.50	0.50

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1 Analy Batch No.: 683875

SDG No.:

Instrument ID: 23204 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2025 13:58 Calibration End Date: 08/11/2025 15:36 Calibration ID: 75607

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-683875/2	11_Aug_2025 14_06.d
Level 2	IC 410-683875/3	11_Aug_2025 14_14.d
Level 3	IC 410-683875/4	11_Aug_2025 14_22.d
Level 4	IC 410-683875/5	11_Aug_2025 14_30.d
Level 5	IC 410-683875/6	11_Aug_2025 15_36.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Fluoride	1.393	1.393	1.393	1.393	1.400						1.143 - 1.643	1.394
Chloride	2.027	2.027	2.027	2.027	2.030						1.777 - 2.277	2.028
Sulfate	3.287	3.280	3.273	3.257	3.243						2.387 - 4.187	3.268
Bromide	3.373	3.397	3.397	3.393	3.403						3.123 - 3.623	3.393

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1 Analy Batch No.: 683875

SDG No.:

Instrument ID: 23204 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2025 13:58 Calibration End Date: 08/11/2025 15:36 Calibration ID: 75607

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-683875/2	11_Aug_2025 14_06.d
Level 2	IC 410-683875/3	11_Aug_2025 14_14.d
Level 3	IC 410-683875/4	11_Aug_2025 14_22.d
Level 4	IC 410-683875/5	11_Aug_2025 14_30.d
Level 5	IC 410-683875/6	11_Aug_2025 15_36.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 2	LVL 3	LVL 4		B	M1	M2								
Fluoride	11361410 13901603	13348268	14046165	14041218	Lin1	-264102.31	14096825.9				1.2		10.0	1.0000		0.9900
Chloride	8442815 9384335	8762139	9356561	9405054	Lin1	-502485.01	9430295.04				2.7		10.0	1.0000		0.9900
Sulfate	5916792 6745937	6345046	6819056	6792606	Lin1	-1002328.7	6811221.53				2.3		10.0	1.0000		0.9900
Bromide	3992356 4524125	4020137	4196531	4351896	Lin1	-392211.43	4441876.93				5.9		10.0	0.9990		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
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1 Analy Batch No.: 683875

SDG No.:

Instrument ID: 23204 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2025 13:58 Calibration End Date: 08/11/2025 15:36 Calibration ID: 75607

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-683875/2	11_Aug_2025 14_06.d
Level 2	IC 410-683875/3	11_Aug_2025 14_14.d
Level 3	IC 410-683875/4	11_Aug_2025 14_22.d
Level 4	IC 410-683875/5	11_Aug_2025 14_30.d
Level 5	IC 410-683875/6	11_Aug_2025 15_36.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Fluoride	Lin1	1136141	5339307	14046165	28082436	41704808	0.100	0.400	1.00	2.00	3.00
Chloride	Lin1	3377126	14019422	37426245	75240428	112612025	0.400	1.60	4.00	8.00	12.0
Sulfate	Lin1	5916792	25380183	68190562	135852117	202378102	1.00	4.00	10.0	20.0	30.0
Bromide	Lin1	1996178	8040274	20982656	43518960	67861875	0.500	2.00	5.00	10.0	15.0

Curve Type Legend:
Lin1 = Linear 1/conc

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Lab Sample ID: ICV 410-683875/7 Calibration Date: 08/11/2025 15:44

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 11_Aug_2025 15_44.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		12442881		0.681	0.750	-9.2	10.0
Chloride	Lin1		9213600		2.98	3.00	-0.5	10.0
Sulfate	Lin1		6502595		7.31	7.50	-2.6	10.0
Bromide	Lin1		4311226		7.37	7.50	-1.8	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Lab Sample ID: ICV 410-683875/7
Calibration Date: 08/11/2025 15:44

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 11_Aug_2025 15_44.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.40	1.15	1.65
Chloride	2.03	1.78	2.28
Sulfate	3.27	2.37	4.17
Bromide	3.41	3.16	3.66

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686095/1 Calibration Date: 08/15/2025 09:24

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 09_24.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		13644340		0.745	0.750	-0.7	10.0
Chloride	Lin1		9182944		2.98	3.00	-0.8	10.0
Sulfate	Lin1		6615747		7.43	7.50	-0.9	10.0
Bromide	Lin1		4418601		7.55	7.50	0.7	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686095/1
Calibration Date: 08/15/2025 09:24

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 09_24.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.39	1.14	1.64
Chloride	2.03	1.78	2.28
Sulfate	3.26	2.39	4.19
Bromide	3.41	3.12	3.62

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686095/12 Calibration Date: 08/15/2025 10:58

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 10_58.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		14193256		0.774	0.750	3.2	10.0
Chloride	Lin1		8953279		2.90	3.00	-3.3	10.0
Sulfate	Lin1		6494183		7.30	7.50	-2.7	10.0
Bromide	Lin1		4418583		7.55	7.50	0.7	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686095/12
Calibration Date: 08/15/2025 10:58

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 10_58.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.39	1.14	1.64
Chloride	2.03	1.78	2.28
Sulfate	3.25	2.39	4.19
Bromide	3.41	3.12	3.62

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686927/1 Calibration Date: 08/15/2025 17:32

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 17_32.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		12706564		0.695	0.750	-7.4	10.0
Chloride	Lin1		9072194		2.94	3.00	-2.0	10.0
Sulfate	Lin1		6529227		7.34	7.50	-2.2	10.0
Bromide	Lin1		4430599		7.57	7.50	0.9	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686927/1
Calibration Date: 08/15/2025 17:32

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 17_32.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.39	1.14	1.64
Chloride	2.03	1.78	2.28
Sulfate	3.26	2.39	4.19
Bromide	3.41	3.12	3.62

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686927/6 Calibration Date: 08/15/2025 18:12

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 18_12.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		11630416		0.638	0.750	-15.0*	10.0
Chloride	Lin1		9096819		2.95	3.00	-1.8	10.0
Sulfate	Lin1		6332639		7.12	7.50	-5.1	10.0
Bromide	Lin1		4517597		7.72	7.50	2.9	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686927/6
Calibration Date: 08/15/2025 18:12

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 18_12.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.39	1.14	1.64
Chloride	2.03	1.78	2.28
Sulfate	3.26	2.39	4.19
Bromide	3.41	3.12	3.62

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686927/18 Calibration Date: 08/15/2025 19:49

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 19_49.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		14531295		0.792	0.750	5.6	10.0
Chloride	Lin1		9111262		2.95	3.00	-1.6	10.0
Sulfate	Lin1		6609732		7.43	7.50	-1.0	10.0
Bromide	Lin1		4505936		7.70	7.50	2.6	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686927/18
Calibration Date: 08/15/2025 19:49

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 19_49.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.39	1.14	1.64
Chloride	2.03	1.78	2.28
Sulfate	3.26	2.39	4.19
Bromide	3.41	3.12	3.62

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686927/30 Calibration Date: 08/15/2025 21:25

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 21_25.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		15014549		0.818	0.750	9.0	10.0
Chloride	Lin1		9135111		2.96	3.00	-1.4	10.0
Sulfate	Lin1		6692407		7.52	7.50	0.2	10.0
Bromide	Lin1		4385609		7.49	7.50	-0.0	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686927/30
Calibration Date: 08/15/2025 21:25

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 21_25.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.39	1.14	1.64
Chloride	2.03	1.78	2.28
Sulfate	3.26	2.39	4.19
Bromide	3.41	3.12	3.62

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686927/42 Calibration Date: 08/15/2025 23:01

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 23_01.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin1		14879695		0.810	0.750	8.1	10.0
Chloride	Lin1		9128934		2.96	3.00	-1.4	10.0
Sulfate	Lin1		6689990		7.51	7.50	0.2	10.0
Bromide	Lin1		4468422		7.63	7.50	1.8	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686927/42
Calibration Date: 08/15/2025 23:01

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 23_01.d

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	1.40	1.14	1.64
Chloride	2.03	1.78	2.28
Sulfate	3.27	2.39	4.19
Bromide	3.42	3.12	3.62

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-686095/5

Matrix: Water
Lab File ID: 15_Aug_2025 10_02.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 10:02

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686095
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.50	U	1.50	0.60
14808-79-8	Sulfate	1.50	U	1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-686927/5

Matrix: Water
Lab File ID: 15_Aug_2025 18_04.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 18:04

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686927
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.50	U	1.50	0.60
14808-79-8	Sulfate	1.50	U	1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-686095/2

Matrix: Water
Lab File ID: 15_Aug_2025 09_32.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 09:32

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686095
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-686095/13

Matrix: Water
Lab File ID: 15_Aug_2025 11_06.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 11:06

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686095
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-686927/2

Matrix: Water
Lab File ID: 15_Aug_2025 17_40.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 17:40

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686927
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-686927/7

Matrix: Water
Lab File ID: 15_Aug_2025 18_20.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 18:20

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686927
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-686927/19

Matrix: Water
Lab File ID: 15_Aug_2025 19_57.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 19:57

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686927
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-686927/31

Matrix: Water
Lab File ID: 15_Aug_2025 21_33.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 21:33

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686927
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-686927/43

Matrix: Water
Lab File ID: 15_Aug_2025 23_09.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 23:09

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686927
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: ICB 410-683875/8

Matrix: Water
Lab File ID: 11_Aug_2025 15_52.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/11/2025 15:52

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 683875
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.00	U	1.00	0.60
14808-79-8	Sulfate	1.00	U	1.00	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-686095/3

Matrix: Water
Lab File ID: 15_Aug_2025 09_40.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 09:40

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686095
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	2.976		1.50	0.60
14808-79-8	Sulfate	7.438		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-686927/3

Matrix: Water
Lab File ID: 15_Aug_2025 17_48.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 17:48

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686927
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	2.940		1.50	0.60
14808-79-8	Sulfate	7.262		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-686095/4

Matrix: Water
Lab File ID: 15_Aug_2025 09_48.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 09:48

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686095
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	2.973		1.50	0.60
14808-79-8	Sulfate	7.309		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-686927/4

Matrix: Water
Lab File ID: 15_Aug_2025 17_56.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 17:56

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686927
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	2.942		1.50	0.60
14808-79-8	Sulfate	7.229		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: 410-235906-G-4 MS

Matrix: Water
Lab File ID: 15_Aug_2025 20_37.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 20:37

Con. Extract Vol.:
Dilution Factor: 10

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686927
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	55.91		15.0	6.00
14808-79-8	Sulfate	50.52		15.0	5.00

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102IR/250813 MS
Lab Sample ID: 620-28577-6 MS

Matrix: Water
Lab File ID: 15_Aug_2025 10_50.d

Analysis Method: 9056A
Date Collected: 08/13/2025 15:30

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 10:50

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686095
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	11.73		1.50	0.60
14808-79-8	Sulfate	29.34		1.50	0.50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: 410-235906-G-4 DU

Matrix: Water
Lab File ID: 15_Aug_2025 20_29.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/15/2025 20:29

Con. Extract Vol.:
Dilution Factor: 10

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686927
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	37.46		15.0	6.00
14808-79-8	Sulfate	15.0	U	15.0	5.00

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102IR/250813 DU
Lab Sample ID: 620-28577-6 DU

Matrix: Water
Lab File ID: 15_Aug_2025 10_42.d

Analysis Method: 9056A
Date Collected: 08/13/2025 15:30

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 10:42

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686095
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	9.555		1.50	0.60
14808-79-8	Sulfate	24.94		1.50	0.50

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Instrument ID: 23204 Start Date: 08/11/2025 13:58

Analysis Batch Number: 683875 End Date: 08/11/2025 15:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-683875/1		08/11/2025 13:58	1		IC17-AS14 4(mm)
IC 410-683875/2		08/11/2025 14:06	1	11_Aug_2025 14_06.d	IC17-AS14 4(mm)
IC 410-683875/3		08/11/2025 14:14	1	11_Aug_2025 14_14.d	IC17-AS14 4(mm)
IC 410-683875/4		08/11/2025 14:22	1	11_Aug_2025 14_22.d	IC17-AS14 4(mm)
IC 410-683875/5		08/11/2025 14:30	1	11_Aug_2025 14_30.d	IC17-AS14 4(mm)
IC 410-683875/6		08/11/2025 15:36	1	11_Aug_2025 15_36.d	IC17-AS14 4(mm)
ICV 410-683875/7		08/11/2025 15:44	1	11_Aug_2025 15_44.d	IC17-AS14 4(mm)
ICB 410-683875/8		08/11/2025 15:52	1	11_Aug_2025 15_52.d	IC17-AS14 4(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Instrument ID: 23204 Start Date: 08/15/2025 09:24

Analysis Batch Number: 686095 End Date: 08/15/2025 17:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-686095/1		08/15/2025 09:24	1	15_Aug_2025 09_24.d	IC17-AS14 4(mm)
CCB 410-686095/2		08/15/2025 09:32	1	15_Aug_2025 09_32.d	IC17-AS14 4(mm)
LCS 410-686095/3		08/15/2025 09:40	1	15_Aug_2025 09_40.d	IC17-AS14 4(mm)
LCSD 410-686095/4		08/15/2025 09:48	1	15_Aug_2025 09_48.d	IC17-AS14 4(mm)
MB 410-686095/5		08/15/2025 10:02	1	15_Aug_2025 10_02.d	IC17-AS14 4(mm)
620-28577-4	MW-103I/250813	08/15/2025 10:10	1	15_Aug_2025 10_10.d	IC17-AS14 4(mm)
620-28577-7	FB/250813	08/15/2025 10:18	1	15_Aug_2025 10_18.d	IC17-AS14 4(mm)
620-28577-5	MW-102B/250813	08/15/2025 10:26	1	15_Aug_2025 10_26.d	IC17-AS14 4(mm)
620-28577-6	MW-102IR/250813	08/15/2025 10:34	1	15_Aug_2025 10_34.d	IC17-AS14 4(mm)
620-28577-6 DU	MW-102IR/250813 DU	08/15/2025 10:42	1	15_Aug_2025 10_42.d	IC17-AS14 4(mm)
620-28577-6 MS	MW-102IR/250813 MS	08/15/2025 10:50	1	15_Aug_2025 10_50.d	IC17-AS14 4(mm)
CCV 410-686095/12		08/15/2025 10:58	1	15_Aug_2025 10_58.d	IC17-AS14 4(mm)
CCB 410-686095/13		08/15/2025 11:06	1	15_Aug_2025 11_06.d	IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 11:14	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 11:22	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 11:30	100		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 11:38	10000		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 11:46	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 11:54	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 12:02	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 12:10	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 12:18	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 12:26	10		IC17-AS14 4(mm)
CCV 410-686095/24		08/15/2025 12:34	1		IC17-AS14 4(mm)
CCB 410-686095/25		08/15/2025 12:42	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 12:51	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 12:59	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 13:07	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 13:15	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 13:23	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 13:31	10		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 13:39	10		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 13:47	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 13:55	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 14:03	10		IC17-AS14 4(mm)
CCV 410-686095/36		08/15/2025 14:11	1		IC17-AS14 4(mm)
CCB 410-686095/37		08/15/2025 14:19	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 14:27	100		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 14:59	1		IC17-AS14 4(mm)

9056A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Instrument ID: 23204 Start Date: 08/15/2025 09:24

Analysis Batch Number: 686095 End Date: 08/15/2025 17:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ (QC)		08/15/2025 15:07	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 15:23	10		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 15:31	10		IC17-AS14 4(mm)
CCV 410-686095/48		08/15/2025 15:47	1		IC17-AS14 4(mm)
CCB 410-686095/49		08/15/2025 15:55	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 16:11	1000		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 16:20	50		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 16:28	100000		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 16:36	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 16:44	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 16:52	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 17:00	100		IC17-AS14 4(mm)
CCV 410-686095/58		08/15/2025 17:08	1		IC17-AS14 4(mm)
CCB 410-686095/59		08/15/2025 17:16	1		IC17-AS14 4(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Instrument ID: 23204 Start Date: 08/15/2025 17:32

Analysis Batch Number: 686927 End Date: 08/16/2025 01:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-686927/1		08/15/2025 17:32	1	15_Aug_2025 17_32.d	IC17-AS14 4(mm)
CCB 410-686927/2		08/15/2025 17:40	1	15_Aug_2025 17_40.d	IC17-AS14 4(mm)
LCS 410-686927/3		08/15/2025 17:48	1	15_Aug_2025 17_48.d	IC17-AS14 4(mm)
LCSD 410-686927/4		08/15/2025 17:56	1	15_Aug_2025 17_56.d	IC17-AS14 4(mm)
MB 410-686927/5		08/15/2025 18:04	1	15_Aug_2025 18_04.d	IC17-AS14 4(mm)
CCV 410-686927/6		08/15/2025 18:12	1	15_Aug_2025 18_12.d	IC17-AS14 4(mm)
CCB 410-686927/7		08/15/2025 18:20	1	15_Aug_2025 18_20.d	IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 18:28	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 18:36	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 18:44	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 18:52	25		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 19:00	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 19:08	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 19:16	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 19:24	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 19:32	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 19:40	1		IC17-AS14 4(mm)
CCV 410-686927/18		08/15/2025 19:49	1	15_Aug_2025 19_49.d	IC17-AS14 4(mm)
CCB 410-686927/19		08/15/2025 19:57	1	15_Aug_2025 19_57.d	IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 20:05	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 20:13	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 20:21	10		IC17-AS14 4(mm)
410-235906-G-4 DU		08/15/2025 20:29	10	15_Aug_2025 20_29.d	IC17-AS14 4(mm)
410-235906-G-4 MS		08/15/2025 20:37	10	15_Aug_2025 20_37.d	IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 20:45	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 20:53	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 21:01	100		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 21:09	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 21:17	1		IC17-AS14 4(mm)
CCV 410-686927/30		08/15/2025 21:25	1	15_Aug_2025 21_25.d	IC17-AS14 4(mm)
CCB 410-686927/31		08/15/2025 21:33	1	15_Aug_2025 21_33.d	IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 21:41	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 21:49	100		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 21:57	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 22:05	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 22:13	100		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 22:21	1000		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 22:29	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 22:37	1		IC17-AS14 4(mm)

9056A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Instrument ID: 23204 Start Date: 08/15/2025 17:32

Analysis Batch Number: 686927 End Date: 08/16/2025 01:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ (Client)		08/15/2025 22:45	10		IC17-AS14 4(mm)
620-28577-5	MW-102B/250813	08/15/2025 22:53	5	15_Aug_2025 22_53.d	IC17-AS14 4(mm)
CCV 410-686927/42		08/15/2025 23:01	1	15_Aug_2025 23_01.d	IC17-AS14 4(mm)
CCB 410-686927/43		08/15/2025 23:09	1	15_Aug_2025 23_09.d	IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 23:17	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 23:25	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 23:33	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 23:41	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 23:49	10		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 23:58	10		IC17-AS14 4(mm)
ZZZZZ (QC)		08/16/2025 00:06	10		IC17-AS14 4(mm)
ZZZZZ (QC)		08/16/2025 00:14	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/16/2025 00:22	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/16/2025 00:30	10		IC17-AS14 4(mm)
CCV 410-686927/54		08/16/2025 00:38	1		IC17-AS14 4(mm)
CCB 410-686927/55		08/16/2025 00:46	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/16/2025 00:54	10		IC17-AS14 4(mm)
CCV 410-686927/57		08/16/2025 01:02	1		IC17-AS14 4(mm)
CCB 410-686927/58		08/16/2025 01:10	1		IC17-AS14 4(mm)

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28577-1

SDG No.:

Batch Number: 683875 Batch Start Date: 08/11/25 13:58 Batch Analyst: Ranson, Emily

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	WC_IC_C_Det 00228	WC_IC_QC2 01435			
IC 410-683875/2		9056A			0 mL	0.5 mL				
IC 410-683875/3		9056A			0 mL	2 mL				
IC 410-683875/4		9056A			0 mL	5 mL				
IC 410-683875/5		9056A			0 mL	10 mL				
IC 410-683875/6		9056A			0 mL	15 mL				
ICV 410-683875/7		9056A			0 mL		7.5 mL			
ICB 410-683875/8		9056A			0 mL					

Batch Notes	
Eluent 1 ID	WC_IC_D20KOHW_00026

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28577-1

SDG No.:

Batch Number: 686095 Batch Start Date: 08/15/25 09:24 Batch Analyst: Ranson, Emily

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	WC_IC_QC2 01438			
CCV 410-686095/1		9056A			1 mL	1 mL	7.5 mL			
CCB 410-686095/2		9056A			1 mL	1 mL				
LCS 410-686095/3		9056A			1 mL	1 mL	7.5 mL			
LCSD 410-686095/4		9056A			1 mL	1 mL	7.5 mL			
MB 410-686095/5		9056A			1 mL	1 mL				
620-28577-J-4	MW-103I/250813	9056A	Water	T	1 mL	1 mL				
620-28577-J-7	FB/250813	9056A	Water	T	1 mL	1 mL				
620-28577-U-5	MW-102B/250813	9056A	Water	T	1 mL	1 mL				
620-28577-O-6	MW-102IR/250813	9056A	Water	T	1 mL	1 mL				
620-28577-O-6 DU	MW-102IR/250813	9056A		T	1 mL	1 mL				
620-28577-O-6 MS	MW-102IR/250813	9056A		T	1 mL	1 mL	0.1 mL			
CCV 410-686095/12		9056A			1 mL	1 mL	7.5 mL			
CCB 410-686095/13		9056A			1 mL	1 mL				

Batch Notes	
Eluent 1 ID	WC_IC_D20KOHW_00026

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28577-1

SDG No.:

Batch Number: 686927 Batch Start Date: 08/15/25 17:32 Batch Analyst: Ranson, Emily

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	WC_IC_QC2 01441				
CCV 410-686927/1		9056A			0 mL	7.5 mL				
CCB 410-686927/2		9056A			0 mL					
LCS 410-686927/3		9056A			0 mL	7.5 mL				
LCSD 410-686927/4		9056A			0 mL	7.5 mL				
MB 410-686927/5		9056A			0 mL					
CCV 410-686927/6		9056A			0 mL	7.5 mL				
CCB 410-686927/7		9056A			0 mL					
CCV 410-686927/18		9056A			0 mL	7.5 mL				
CCB 410-686927/19		9056A			0 mL					
410-235906-G-4 DU		9056A		T	0 mL					
410-235906-G-4 MS		9056A		T	0 mL	5 mL				
CCV 410-686927/30		9056A			0 mL	7.5 mL				
CCB 410-686927/31		9056A			0 mL					
620-28577-U-5	MW-102B/250813	9056A	Water	T	0 mL					
CCV 410-686927/42		9056A			0 mL	7.5 mL				
CCB 410-686927/43		9056A			0 mL					

Batch Notes	
Eluent 1 ID	WC_IC_D20KOHW_00026

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.

9056A_ORGFM_28D

Anions, Ion Chromatography

9056A_ORGFM_48H

Anions, Ion Chromatography

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 15_Aug_2025 09_40.d

Lab ID: LCS 410-686094/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Nitrate as N	0.750	0.722	96	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 15_Aug_2025 09_48.d

Lab ID: LCSD 410-686094/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Nitrate as N	0.750	0.723	96	0	20	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 15_Aug_2025 10_50.d

Lab ID: 620-28577-6 MS Client ID: MW-102IR/250813 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Nitrate as N	0.500	2.26	2.768	102	90-110	

Column to be used to flag recovery and RPD values

FORM III 9056A

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Lab File ID: 15_Aug_2025 10_02.d Lab Sample ID: MB 410-686094/5

Matrix: Water Date Extracted:

Instrument ID: 23204 Date Analyzed: 08/15/2025 10:02

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-686094/3	15_Aug_2025 09_40.d	08/15/2025 09:40
	LCSD 410-686094/4	15_Aug_2025 09_48.d	08/15/2025 09:48
MW-103I/250813	620-28577-4	15_Aug_2025 10_10.d	08/15/2025 10:10
FB/250813	620-28577-7	15_Aug_2025 10_18.d	08/15/2025 10:18
MW-102B/250813	620-28577-5	15_Aug_2025 10_26.d	08/15/2025 10:26
MW-102IR/250813	620-28577-6	15_Aug_2025 10_34.d	08/15/2025 10:34
MW-102IR/250813 DU	620-28577-6 DU	15_Aug_2025 10_42.d	08/15/2025 10:42
MW-102IR/250813 MS	620-28577-6 MS	15_Aug_2025 10_50.d	08/15/2025 10:50

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-103I/250813
Lab Sample ID: 620-28577-4

Matrix: Water
Lab File ID: 15_Aug_2025 10_10.d

Analysis Method: 9056A
Date Collected: 08/13/2025 12:35

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 10:10

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686094
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	1.01		0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102B/250813
Lab Sample ID: 620-28577-5

Matrix: Water
Lab File ID: 15_Aug_2025 10_26.d

Analysis Method: 9056A
Date Collected: 08/13/2025 15:10

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 10:26

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686094
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.11	U	0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102IR/250813
Lab Sample ID: 620-28577-6

Matrix: Water
Lab File ID: 15_Aug_2025 10_34.d

Analysis Method: 9056A
Date Collected: 08/13/2025 15:30

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 10:34

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686094
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	2.26		0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID: FB/250813
Lab Sample ID: 620-28577-7

Matrix: Water
Lab File ID: 15_Aug_2025 10_18.d

Analysis Method: 9056A
Date Collected: 08/13/2025 15:00

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 10:18

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686094
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.11	U	0.11	0.050

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1 Analy Batch No.: 683874

SDG No.:

Instrument ID: 23204 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2025 13:58 Calibration End Date: 08/11/2025 15:36 Calibration ID: 75606

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-683874/2	11_Aug_2025 14_06.d
Level 2	IC 410-683874/3	11_Aug_2025 14_14.d
Level 3	IC 410-683874/4	11_Aug_2025 14_22.d
Level 4	IC 410-683874/5	11_Aug_2025 14_30.d
Level 5	IC 410-683874/6	11_Aug_2025 15_36.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Nitrite as N	2.460	2.460	2.460	2.463	2.467						2.210 - 2.710	2.462
Nitrate as N	4.057	4.050	4.043	4.033	4.033						3.807 - 4.307	4.043

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1 Analy Batch No.: 683874

SDG No.:

Instrument ID: 23204 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2025 13:58 Calibration End Date: 08/11/2025 15:36 Calibration ID: 75606

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-683874/2	11_Aug_2025 14_06.d
Level 2	IC 410-683874/3	11_Aug_2025 14_14.d
Level 3	IC 410-683874/4	11_Aug_2025 14_22.d
Level 4	IC 410-683874/5	11_Aug_2025 14_30.d
Level 5	IC 410-683874/6	11_Aug_2025 15_36.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 2	LVL 3	LVL 4		B	M1	M2								
Nitrite as N	18068430 20998406	19295970	20975118	21099723	Lin2	-307755.51	20969761.8				2.8		10.0	0.9990		0.9900
Nitrate as N	21135310 22595228	20013403	21667304	22468654	Lin2	-111778.09	21896410.1				5.0		10.0	0.9980		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
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1 Analy Batch No.: 683874

SDG No.:

Instrument ID: 23204 GC Column: IC17-AS14 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2025 13:58 Calibration End Date: 08/11/2025 15:36 Calibration ID: 75606

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-683874/2	11_Aug_2025 14_06.d
Level 2	IC 410-683874/3	11_Aug_2025 14_14.d
Level 3	IC 410-683874/4	11_Aug_2025 14_22.d
Level 4	IC 410-683874/5	11_Aug_2025 14_30.d
Level 5	IC 410-683874/6	11_Aug_2025 15_36.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Nitrite as N	Lin2	1806843	7718388	20975118	42199446	62995217	0.100	0.400	1.00	2.00	3.00
Nitrate as N	Lin2	2113531	8005361	21667304	44937307	67785683	0.100	0.400	1.00	2.00	3.00

Curve Type Legend:
Lin2 = Linear 1/conc^2

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Lab Sample ID: ICV 410-683874/7 Calibration Date: 08/11/2025 15:44

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 11_Aug_2025 15_44.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrite as N	Lin2		20507045		0.748	0.750	-0.2	10.0
Nitrate as N	Lin2		21050357		0.726	0.750	-3.2	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Lab Sample ID: ICV 410-683874/7
Calibration Date: 08/11/2025 15:44

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 11_Aug_2025 15_44.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrite as N	2.47	2.22	2.72
Nitrate as N	4.06	3.81	4.31

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686094/1 Calibration Date: 08/15/2025 09:24

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 09_24.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrite as N	Lin2		19985219		0.729	0.750	-2.7	10.0
Nitrate as N	Lin2		20926229		0.722	0.750	-3.8	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686094/1
Calibration Date: 08/15/2025 09:24

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 09_24.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrite as N	2.46	2.21	2.71
Nitrate as N	4.05	3.81	4.31

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686094/12 Calibration Date: 08/15/2025 10:58

Instrument ID: 23204 Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm) Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 10_58.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrite as N	Lin2		20004483		0.730	0.750	-2.6	10.0
Nitrate as N	Lin2		20590349		0.710	0.750	-5.3	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Lab Sample ID: CCV 410-686094/12
Calibration Date: 08/15/2025 10:58

Instrument ID: 23204
Calib Start Date: 08/11/2025 13:58

GC Column: IC17-AS14 ID: 4.00(mm)
Calib End Date: 08/11/2025 15:36

Lab File ID: 15_Aug_2025 10_58.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrite as N	2.46	2.21	2.71
Nitrate as N	4.05	3.81	4.31

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-686094/5

Matrix: Water
Lab File ID: 15_Aug_2025 10_02.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 10:02

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686094
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.11	U	0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-686094/2

Matrix: Water
Lab File ID: 15_Aug_2025 09_32.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 09:32

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686094
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.10	U	0.10	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-686094/13

Matrix: Water
Lab File ID: 15_Aug_2025 11_06.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 11:06

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686094
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.10	U	0.10	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: ICB 410-683874/8

Matrix: Water
Lab File ID: 11_Aug_2025 15_52.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/11/2025 15:52

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 683874
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.10	U	0.10	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-686094/3

Matrix: Water
Lab File ID: 15_Aug_2025 09_40.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 09:40

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686094
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.722		0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-686094/4

Matrix: Water
Lab File ID: 15_Aug_2025 09_48.d

Analysis Method: 9056A
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 09:48

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686094
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	0.723		0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102IR/250813 MS
Lab Sample ID: 620-28577-6 MS

Matrix: Water
Lab File ID: 15_Aug_2025 10_50.d

Analysis Method: 9056A
Date Collected: 08/13/2025 15:30

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 10:50

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686094
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	2.768		0.11	0.050

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1

SDG No.:

Client Sample ID: MW-102IR/250813 DU
Lab Sample ID: 620-28577-6 DU

Matrix: Water
Lab File ID: 15_Aug_2025 10_42.d

Analysis Method: 9056A
Date Collected: 08/13/2025 15:30

Extraction Method:
Date Extracted:

Sample wt/vol: 1(mL)
Date Analyzed: 08/15/2025 10:42

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: IC17-AS14 ID: 4(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 686094
Units: mg/L

Preparation Batch No.:
Instrument ID: 23204

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	2.251		0.11	0.050

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Instrument ID: 23204 Start Date: 08/11/2025 13:58

Analysis Batch Number: 683874 End Date: 08/11/2025 15:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-683874/1		08/11/2025 13:58	1		IC17-AS14 4(mm)
IC 410-683874/2		08/11/2025 14:06	1	11_Aug_2025 14_06.d	IC17-AS14 4(mm)
IC 410-683874/3		08/11/2025 14:14	1	11_Aug_2025 14_14.d	IC17-AS14 4(mm)
IC 410-683874/4		08/11/2025 14:22	1	11_Aug_2025 14_22.d	IC17-AS14 4(mm)
IC 410-683874/5		08/11/2025 14:30	1	11_Aug_2025 14_30.d	IC17-AS14 4(mm)
IC 410-683874/6		08/11/2025 15:36	1	11_Aug_2025 15_36.d	IC17-AS14 4(mm)
ICV 410-683874/7		08/11/2025 15:44	1	11_Aug_2025 15_44.d	IC17-AS14 4(mm)
ICB 410-683874/8		08/11/2025 15:52	1	11_Aug_2025 15_52.d	IC17-AS14 4(mm)

9056A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Instrument ID: 23204 Start Date: 08/15/2025 09:24

Analysis Batch Number: 686094 End Date: 08/15/2025 17:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-686094/1		08/15/2025 09:24	1	15_Aug_2025 09_24.d	IC17-AS14 4(mm)
CCB 410-686094/2		08/15/2025 09:32	1	15_Aug_2025 09_32.d	IC17-AS14 4(mm)
LCS 410-686094/3		08/15/2025 09:40	1	15_Aug_2025 09_40.d	IC17-AS14 4(mm)
LCSD 410-686094/4		08/15/2025 09:48	1	15_Aug_2025 09_48.d	IC17-AS14 4(mm)
MB 410-686094/5		08/15/2025 10:02	1	15_Aug_2025 10_02.d	IC17-AS14 4(mm)
620-28577-4	MW-103I/250813	08/15/2025 10:10	1	15_Aug_2025 10_10.d	IC17-AS14 4(mm)
620-28577-7	FB/250813	08/15/2025 10:18	1	15_Aug_2025 10_18.d	IC17-AS14 4(mm)
620-28577-5	MW-102B/250813	08/15/2025 10:26	1	15_Aug_2025 10_26.d	IC17-AS14 4(mm)
620-28577-6	MW-102IR/250813	08/15/2025 10:34	1	15_Aug_2025 10_34.d	IC17-AS14 4(mm)
620-28577-6 DU	MW-102IR/250813 DU	08/15/2025 10:42	1	15_Aug_2025 10_42.d	IC17-AS14 4(mm)
620-28577-6 MS	MW-102IR/250813 MS	08/15/2025 10:50	1	15_Aug_2025 10_50.d	IC17-AS14 4(mm)
CCV 410-686094/12		08/15/2025 10:58	1	15_Aug_2025 10_58.d	IC17-AS14 4(mm)
CCB 410-686094/13		08/15/2025 11:06	1	15_Aug_2025 11_06.d	IC17-AS14 4(mm)
CCV 410-686094/24		08/15/2025 12:34	1		IC17-AS14 4(mm)
CCB 410-686094/25		08/15/2025 12:42	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 13:07	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 13:15	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 13:23	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 13:31	10		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 13:39	10		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 13:47	10		IC17-AS14 4(mm)
CCV 410-686094/36		08/15/2025 14:11	1		IC17-AS14 4(mm)
CCB 410-686094/37		08/15/2025 14:19	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 14:35	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 14:43	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 14:51	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 14:59	1		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 15:07	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 15:15	10		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 15:23	10		IC17-AS14 4(mm)
ZZZZZ (QC)		08/15/2025 15:31	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 15:39	1		IC17-AS14 4(mm)
CCV 410-686094/48		08/15/2025 15:47	1		IC17-AS14 4(mm)
CCB 410-686094/49		08/15/2025 15:55	1		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 16:03	10		IC17-AS14 4(mm)
ZZZZZ (Client)		08/15/2025 16:20	50		IC17-AS14 4(mm)
CCV 410-686094/58		08/15/2025 17:08	1		IC17-AS14 4(mm)
CCB 410-686094/59		08/15/2025 17:16	1		IC17-AS14 4(mm)

9056A

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28577-1

SDG No.:

Batch Number: 683874 Batch Start Date: 08/11/25 13:58 Batch Analyst: Ranson, Emily

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	WC_IC_C_Det 00228	WC_IC_QC2 01435		
IC 410-683874/2		9056A			0 mL	1.0 mL	0.5 mL			
IC 410-683874/3		9056A			0 mL	1.0 mL	2 mL			
IC 410-683874/4		9056A			0 mL	1.0 mL	5 mL			
IC 410-683874/5		9056A			0 mL	1.0 mL	10 mL			
IC 410-683874/6		9056A			0 mL	1.0 mL	15 mL			
ICV 410-683874/7		9056A			0 mL	1.0 mL		7.5 mL		
ICB 410-683874/8		9056A			0 mL					

Batch Notes	
Pipette/Syringe/Dispenser ID	anions
Eluent 1 ID	WC_IC_D20KOHW_00026
Pipette Tip Lot ID	L208595R
Vial Lot Number	430592

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28577-1

SDG No.:

Batch Number: 686094 Batch Start Date: 08/15/25 09:24 Batch Analyst: Ranson, Emily

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	WC_IC_QC2 01438			
CCV 410-686094/1		9056A			1 mL	1 mL	7.5 mL			
CCB 410-686094/2		9056A			1 mL	1 mL				
LCS 410-686094/3		9056A			1 mL	1 mL	7.5 mL			
LCSD 410-686094/4		9056A			1 mL	1 mL	7.5 mL			
MB 410-686094/5		9056A			1 mL	1 mL				
620-28577-J-4	MW-103I/250813	9056A	Water	T	1 mL	1 mL				
620-28577-J-7	FB/250813	9056A	Water	T	1 mL	1 mL				
620-28577-U-5	MW-102B/250813	9056A	Water	T	1 mL	1 mL				
620-28577-O-6	MW-102IR/250813	9056A	Water	T	1 mL	1 mL				
620-28577-O-6 DU	MW-102IR/250813	9056A		T	1 mL	1 mL				
620-28577-O-6 MS	MW-102IR/250813	9056A		T	1 mL	1 mL	0.1 mL			
CCV 410-686094/12		9056A			1 mL	1 mL	7.5 mL			
CCB 410-686094/13		9056A			1 mL	1 mL				

Batch Notes	
Pipette/Syringe/Dispenser ID	anions
Eluent 1 ID	WC_IC_D20KOHW_00026
Pipette Tip Lot ID	L208595R
Vial Lot Number	430592

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 Rhode Island Job Number: 620-28577-1

SDG No.:

Project: ESCO Steel Treaters Project

Client Sample ID	Lab Sample ID
MW-103I/250813	620-28577-4
MW-102B/250813	620-28577-5
MW-102IR/250813	620-28577-6
FB/250813	620-28577-7

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-103I/250813 | Lab Sample ID: 620-28577-4

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG ID.:

Matrix: Water | Date Sampled: 08/13/2025 12:35

Reporting Basis: WET | Date Received: 08/14/2025 11:00

Preparation Batch Number: 52116 | Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	64.7	0.50	0.19	mg/L			1	6010D
7439-95-4	Magnesium	10.3	0.040	0.038	mg/L			1	6010D
7440-09-7	Potassium	2.6	1.0	0.34	mg/L			1	6010D
7440-23-5	Sodium	24.1	1.5	0.28	mg/L			1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-103I/250813
Lab Sample ID: 620-28577-4
Lab Name: Eurofins Rhode Island
Job No.: 620-28577-1
SDG ID.:
Matrix: Water
Date Sampled: 08/13/2025 12:35
Reporting Basis: WET
Date Received: 08/14/2025 11:00
Preparation Batch Number: 52116
Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	0.10	0.10	0.056	mg/L	U		1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-102B/250813 Lab Sample ID: 620-28577-5

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG ID.:

Matrix: Water Date Sampled: 08/13/2025 15:10

Reporting Basis: WET Date Received: 08/14/2025 11:00

Preparation Batch Number: 52116 Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	7.0	0.50	0.19	mg/L			1	6010D
7439-95-4	Magnesium	10.5	0.040	0.038	mg/L			1	6010D
7440-09-7	Potassium	1.1	1.0	0.34	mg/L			1	6010D
7440-23-5	Sodium	57.1	1.5	0.28	mg/L			1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-102B/250813
Lab Sample ID: 620-28577-5
Lab Name: Eurofins Rhode Island
Job No.: 620-28577-1
SDG ID.:
Matrix: Water
Date Sampled: 08/13/2025 15:10
Reporting Basis: WET
Date Received: 08/14/2025 11:00
Preparation Batch Number: 52116
Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	0.10	0.10	0.056	mg/L	U		1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-102IR/250813 | Lab Sample ID: 620-28577-6

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG ID.:

Matrix: Water | Date Sampled: 08/13/2025 15:30

Reporting Basis: WET | Date Received: 08/14/2025 11:00

Preparation Batch Number: 52116 | Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	60.5	0.50	0.19	mg/L			1	6010D
7439-95-4	Magnesium	10.8	0.040	0.038	mg/L			1	6010D
7440-09-7	Potassium	1.3	1.0	0.34	mg/L			1	6010D
7440-23-5	Sodium	40.8	1.5	0.28	mg/L			1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-102IR/250813
Lab Sample ID: 620-28577-6
Lab Name: Eurofins Rhode Island
Job No.: 620-28577-1
SDG ID.:
Matrix: Water
Date Sampled: 08/13/2025 15:30
Reporting Basis: WET
Date Received: 08/14/2025 11:00
Preparation Batch Number: 52116
Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	0.10	0.10	0.056	mg/L	U		1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FB/250813 | Lab Sample ID: 620-28577-7

Lab Name: Eurofins Rhode Island | Job No.: 620-28577-1

SDG ID.:

Matrix: Water | Date Sampled: 08/13/2025 15:00

Reporting Basis: WET | Date Received: 08/14/2025 11:00

Preparation Batch Number: 52116 | Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	0.50	0.50	0.19	mg/L	U		1	6010D
7439-95-4	Magnesium	0.040	0.040	0.038	mg/L	U		1	6010D
7440-09-7	Potassium	1.0	1.0	0.34	mg/L	U		1	6010D
7440-23-5	Sodium	1.5	1.5	0.28	mg/L	U		1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: FB/250813
Lab Sample ID: 620-28577-7
Lab Name: Eurofins Rhode Island
Job No.: 620-28577-1
SDG ID.:
Matrix: Water
Date Sampled: 08/13/2025 15:00
Reporting Basis: WET
Date Received: 08/14/2025 11:00
Preparation Batch Number: 52116
Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	0.10	0.10	0.056	mg/L	U		1	6010D

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

ICV Source: MT_ICP_ICV_00055 Concentration Units: mg/L

CCV Source: MT_ICP_CCV_00046

Analyte	ICV 620-52265/7 08/15/2025 09:16				CCV 620-52265/13 08/15/2025 09:52				CCV 620-52265/18 08/15/2025 11:55			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Calcium	5.02		5.00	100	10.09		10.0	101	9.60		10.0	96
Iron	4.95		5.00	99	9.81		10.0	98	9.18		10.0	92
Magnesium	5.13		5.00	103	10.07		10.0	101	9.85		10.0	99
Potassium	49.24		50.0	98	10.03		10.0	100	9.38		10.0	94
Sodium	5.18		5.00	104	10.01		10.0	100	9.60		10.0	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 Rhode Island Job No.: 620-28577-1

SDG No.:

ICV Source: MT_ICP_ICV_00055 Concentration Units: mg/L

CCV Source: MT_ICP_CCV_00046

Analyte	CCV 620-52265/30 08/15/2025 13:06				CCV 620-52265/43 08/15/2025 18:40							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Calcium	9.57		10.0	96								
Iron	9.14		10.0	91	9.15		10.0	91				
Magnesium	9.77		10.0	98								
Potassium	9.39		10.0	94								
Sodium	9.57		10.0	96								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Method: 6010D Instrument ID: ICAP4

Lab Sample ID: CRI 620-52265/10 Concentration Units: mg/L

CRQL Check Standard Source: MT_ICP_Cal2RL_00040

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Calcium	0.200	0.195	J	97	80-120
Iron	0.100	0.0964	J	96	80-120
Magnesium	0.0200	0.10	U	101	80-120
Potassium	1.00	0.914	J	91	80-120
Sodium	1.50	1.44	J	96	80-120

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 620-52265/9 08/15/2025 09:28		CCB 620-52265/14 08/15/2025 09:58		CCB 620-52265/19 08/15/2025 12:01		CCB 620-52265/31 08/15/2025 13:12	
		Found	C	Found	C	Found	C	Found	C
Calcium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Iron	0.10	0.10	U	0.10	U	0.10	U	0.10	U
Magnesium	0.10	0.10	U	0.10	U	0.10	U	0.10	U
Potassium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Sodium	1.5	1.5	U	1.5	U	1.5	U	1.5	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 620-52265/44 08/15/2025 18:46							
		Found	C	Found	C	Found	C	Found	C
Calcium	1.0								
Iron	0.10	0.10	U						
Magnesium	0.10								
Potassium	1.0								
Sodium	1.5								

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 620-52116/1-A

Instrument Code: ICAP4 Batch No.: 52265

CAS No.	Analyte	Concentration	C	Q	Method
7440-70-2	Calcium	0.50	U		6010D
7439-95-4	Magnesium	0.040	U		6010D
7440-09-7	Potassium	1.0	U		6010D
7440-23-5	Sodium	1.5	U		6010D

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 620-52104/1-B

Instrument Code: ICAP4 Batch No.: 52265

CAS No.	Analyte	Concentration	C	Q	Method
7439-89-6	Iron	0.010	U		6010D

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: ICSA 620-52265/11 Instrument ID: ICAP4

Lab File ID: 20250815_ICAP4.asc ICS Source: MT_ICP_ICSA_00042

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Calcium	**200**	**189**	**94**
Iron	**80.0**	**75.8**	**95**
Magnesium	**200**	**182**	**91**
Potassium		**-0.0266**	
Sodium		**0.0871**	
Aluminum	*200*	*188*	*94*
Antimony		*-0.0021*	
Arsenic		*-0.0007*	
Barium		*0.0005*	
Beryllium		*-0.0007*	
Boron		*0.0048*	
Cadmium		*-0.0033*	
Chromium		*-0.0193*	
Cobalt		*-0.0018*	
Copper		*0.0170*	
Lead		*-0.0023*	
Lithium		*0.0041*	
Manganese		*-0.0015*	
Molybdenum		*-0.0010*	
Nickel		*-0.0071*	
Phosphorus as P		*0.0019*	
Selenium		*-0.0059*	
Silicon		*0.0049*	
Silver		*-0.0047*	
Strontium		*0.0039*	
Sulfur		*0.0160*	
Thallium		*-0.0002*	
Tin		*0.0078*	
Titanium		*-0.0007*	
Vanadium		*0.0045*	
Zinc		*-0.0058*	

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 Rhode Island Job No.: 620-28577-1

SDG No.:

Lab Sample ID: ICSAB 620-52265/12 Instrument ID: ICAP4

Lab File ID: 20250815_ICAP4.asc ICS Source: MT_ICP_ICSAB_00046

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Calcium	**200**	**186**	**93**
Iron	**80.0**	**75.1**	**94**
Magnesium	**200**	**179**	**90**
Potassium		**-0.0357**	
Sodium		**0.110**	
Aluminum	*200*	*187*	*93*
Antimony	*0.300*	*0.296*	*99*
Arsenic	*0.500*	*0.490*	*98*
Barium	*0.250*	*0.217*	*87*
Beryllium	*0.250*	*0.255*	*102*
Boron		*0.0039*	
Cadmium	*0.500*	*0.462*	*92*
Chromium	*0.250*	*0.226*	*90*
Cobalt	*0.250*	*0.230*	*92*
Copper	*0.250*	*0.210*	*84*
Lead	*0.500*	*0.459*	*92*
Lithium		*0.0008*	
Manganese	*0.250*	*0.245*	*98*
Molybdenum		*-0.0008*	
Nickel	*0.500*	*0.463*	*93*
Phosphorus as P		*0.0017*	
Selenium	*0.500*	*0.473*	*95*
Silicon		*0.0105*	
Silver	*0.500*	*0.507*	*101*
Strontium		*0.0038*	
Sulfur		*0.0251*	
Thallium	*0.500*	*0.441*	*88*
Tin		*0.0057*	
Titanium		*-0.0009*	
Vanadium	*0.250*	*0.249*	*100*
Zinc	*0.500*	*0.418*	*84*

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: _____ Lab ID: 620-28600-C-1-C MS

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.: _____

Matrix: Water Concentration Units: mg/L

% Solids: _____

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Calcium	21.14		14.2		4.50	153	75-125	N	6010D
Iron	2.03		0.53		1.50	100	75-125		6010D
Magnesium	31.59		25.6		1.50	397	75-125	4	6010D
Potassium	15.94		1.1		15.0	99	75-125		6010D
Sodium	20.21		13.5		4.50	150	75-125	N	6010D

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

6-IN
DUPLICATES
METALS

Client ID: _____ Lab ID: 620-28600-C-1-B DU

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.: _____

% Solids for Sample: _____ % Solids for Duplicate: _____

Matrix: Water Concentration Units: mg/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Calcium	0.50	14.2		15.11		6		6010D
Iron	0.10	0.53		0.573		8		6010D
Magnesium	0.040	25.6		27.21		6		6010D
Potassium	1.0	1.1		1.21		13		6010D
Sodium	1.5	13.5		14.20		5		6010D

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 620-52116/2-A

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

Sample Matrix: Water LCS Source: MT_ICP_SPIKE_00130

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Calcium	4.50	4.25		94	80	120		6010D
Iron	1.50	1.35		90	80	120		6010D
Magnesium	1.50	1.44		96	80	120		6010D
Potassium	15.0	13.80		92	80	120		6010D
Sodium	4.50	4.19		93	80	120		6010D

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins Rhode Island Job Number: 620-28577-1

SDG Number:

Matrix: Water Instrument ID: ICAP4

Method: 6010D MDL Date: 04/08/2020 15:34

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Calcium	315.8	0.5	0.18664
Magnesium	285.2	0.04	0.03757
Potassium	766.4	1	0.34178
Sodium	589.5	1.5	0.28342

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins Rhode Island Job Number: 620-28577-1

SDG Number:

Matrix: Water Instrument ID: ICAP4

Method: 6010D XMDL Date: 04/08/2020 15:07

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Calcium	315.8	1	0.18664
Magnesium	285.2	0.1	0.03757
Potassium	766.4	1	0.34178
Sodium	589.5	1.5	0.28342

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins Rhode Island Job Number: 620-28577-1

SDG Number:

Matrix: Water Instrument ID: ICAP4

Method: 6010D MDL Date: 04/08/2020 15:34

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Iron	240.4	0.1	0.05623

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins Rhode Island Job Number: 620-28577-1

SDG Number:

Matrix: Water Instrument ID: ICAP4

Method: 6010D XMDL Date: 04/08/2020 15:07

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Iron	240.4	0.1	0.05623

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins Rhode Island Job No: 620-28577-1

SDG No.:

Instrument ID: ICAP4 Date: 04/09/2020 10:45

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Calcium		500	6010D
Iron		500	6010D
Magnesium		100	6010D
Potassium		500	6010D
Sodium		500	6010D

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 620-52116/1-A	08/14/2025 15:34	52116		50	50
LCS 620-52116/2-A	08/14/2025 15:34	52116		50	50
620-28600-C-1-B DU	08/14/2025 15:34	52116		50	50
620-28600-C-1-C MS	08/14/2025 15:34	52116		50	50
620-28577-4	08/14/2025 15:34	52116		50	50
620-28577-5	08/14/2025 15:34	52116		50	50
620-28577-6	08/14/2025 15:34	52116		50	50
620-28577-7	08/14/2025 15:34	52116		50	50
MB 620-52104/1-B	08/14/2025 15:34	52116		50	50
620-28577-4	08/14/2025 15:34	52116		50	50
620-28577-5	08/14/2025 15:34	52116		50	50
620-28577-6	08/14/2025 15:34	52116		50	50
620-28577-7	08/14/2025 15:34	52116		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Instrument ID: ICAP4 Method: 6010D

Start Date: 08/15/2025 08:40 End Date: 08/16/2025 05:45

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ca	Fe	K	Mg	Na															
ICIS 620-52265/1	1		08:40	X	X	X	X	X															
STD2 620-52265/2 IC			08:46	X	X	X	X	X															
STD3 620-52265/3 IC			08:52	X	X	X	X	X															
STD4 620-52265/4 IC			08:58	X	X	X	X	X															
STD5 620-52265/5 IC			09:04	X	X	X	X	X															
STD6 620-52265/6 IC			09:09	X	X	X	X	X															
ICV 620-52265/7	1		09:16	X	X	X	X	X															
ICV 620-52265/8			09:22																				
ICB 620-52265/9	1		09:28	X	X	X	X	X															
CRI 620-52265/10	1		09:34	X	X	X	X	X															
ICSA 620-52265/11	1		09:40	X	X	X	X	X															
ICSAB 620-52265/12	1		09:46	X	X	X	X	X															
CCV 620-52265/13	1		09:52	X	X	X	X	X															
CCB 620-52265/14	1		09:58	X	X	X	X	X															
MB 620-52116/1-A	1	T	11:37	X		X	X	X															
LCS 620-52116/2-A	1	T	11:43	X	X	X	X	X															
ZZZZZZ (Client)			11:49																				
CCV 620-52265/18	1		11:55	X	X	X	X	X															
CCB 620-52265/19	1		12:01	X	X	X	X	X															
620-28600-C-1-B DU	1	T	12:07	X	X	X	X	X															
620-28600-C-1-C MS	1	T	12:13	X	X	X	X	X															
ZZZZZZ (Client)			12:19																				
ZZZZZZ (Client)			12:25																				
ZZZZZZ (Client)			12:31																				
ZZZZZZ (Client)			12:37																				
620-28577-4	1	T	12:42	X		X	X	X															
620-28577-5	1	T	12:48	X		X	X	X															
620-28577-6	1	T	12:54	X		X	X	X															
620-28577-7	1	T	13:00	X		X	X	X															
CCV 620-52265/30	1		13:06	X	X	X	X	X															
CCB 620-52265/31	1		13:12	X	X	X	X	X															
MB 620-52104/1-B	0.1	D	13:18		X																		
620-28577-4	1	D	13:24		X																		
620-28577-5	1	D	13:30		X																		
620-28577-6	1	D	13:36		X																		
620-28577-7	1	D	13:42		X																		
ZZZZZZ (Client)			13:48																				
ZZZZZZ (Client)			13:54																				
ZZZZZZ (Client)			14:00																				
ZZZZZZ (Client)			14:06																				
ZZZZZZ (QC)			14:12																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Instrument ID: ICAP4 Method: 6010D

Start Date: 08/15/2025 08:40 End Date: 08/16/2025 05:45

Lab Sample ID	D/F	Type	Time	Analytes																				
				Ca	Fe	K	Mg	Na																
ZZZZZZ (QC)			18:28																					
CCV 620-52265/43	1		18:40		X																			
CCB 620-52265/44	1		18:46		X																			
ZZZZZZ (Client)			18:52																					
ZZZZZZ (QC)			18:58																					
ZZZZZZ (QC)			19:04																					
ZZZZZZ (Client)			19:10																					
ZZZZZZ (Client)			19:16																					
ZZZZZZ (Client)			19:22																					
CCV 620-52265/51			19:28																					
CCB 620-52265/52			19:34																					
ZZZZZZ (Client)			19:40																					
ZZZZZZ (Client)			19:45																					
ZZZZZZ (Client)			19:51																					
ZZZZZZ (Client)			19:57																					
ZZZZZZ (Client)			20:03																					
ZZZZZZ (Client)			20:09																					
ZZZZZZ (Client)			20:15																					
ZZZZZZ (Client)			20:21																					
ZZZZZZ (Client)			20:27																					
ZZZZZZ (Client)			20:34																					
CCV 620-52265/63			20:40																					
CCB 620-52265/64			20:45																					
ZZZZZZ (Client)			20:51																					
ZZZZZZ (Client)			20:57																					
ZZZZZZ (Client)			21:04																					
ZZZZZZ (Client)			21:10																					
ZZZZZZ (Client)			21:16																					
ZZZZZZ (Client)			21:22																					
ZZZZZZ (QC)			21:28																					
ZZZZZZ (QC)			21:34																					
ZZZZZZ (Client)			21:39																					
ZZZZZZ (QC)			21:45																					
CCV 620-52265/75			21:51																					
CCB 620-52265/76			21:57																					
ZZZZZZ (QC)			22:03																					
ZZZZZZ (Client)			22:09																					
ZZZZZZ (Client)			22:15																					
ZZZZZZ (Client)			22:21																					
ZZZZZZ (Client)			22:27																					
ZZZZZZ (QC)			22:33																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Instrument ID: ICAP4 Method: 6010D

Start Date: 08/15/2025 08:40 End Date: 08/16/2025 05:45

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ca	Fe	K	Mg	Na															
ZZZZZZ (QC)			22:39																				
ZZZZZZ (Client)			22:45																				
ZZZZZZ (QC)			22:51																				
ZZZZZZ (QC)			22:57																				
CCV 620-52265/87			23:03																				
CCB 620-52265/88			23:09																				
ZZZZZZ (QC)			23:15																				
ZZZZZZ (Client)			23:21																				
ZZZZZZ (Client)			23:27																				
ZZZZZZ (Client)			23:33																				
ZZZZZZ (QC)			23:39																				
ZZZZZZ (QC)			23:45																				
ZZZZZZ (QC)			23:52																				
ZZZZZZ (QC)			23:57																				
ZZZZZZ (Client)			00:03																				
ZZZZZZ (Client)			00:09																				
CCV 620-52265/99			00:15																				
CCB 620-52265/100			00:21																				
ZZZZZZ (Client)			00:27																				
ZZZZZZ (Client)			00:33																				
ZZZZZZ (Client)			00:39																				
ZZZZZZ (Client)			00:45																				
ZZZZZZ (QC)			00:51																				
ZZZZZZ (QC)			00:57																				
ZZZZZZ (Client)			01:03																				
ZZZZZZ (Client)			01:09																				
ZZZZZZ (Client)			01:15																				
ZZZZZZ (Client)			01:21																				
CCV 620-52265/111			01:27																				
CCB 620-52265/112			01:33																				
ZZZZZZ (Client)			01:39																				
ZZZZZZ (Client)			01:45																				
ZZZZZZ (Client)			01:51																				
ZZZZZZ (Client)			01:57																				
ZZZZZZ (Client)			02:03																				
ZZZZZZ (Client)			02:09																				
ZZZZZZ (Client)			02:16																				
ZZZZZZ (Client)			02:22																				
ZZZZZZ (Client)			02:28																				
ZZZZZZ (QC)			02:34																				
CCV 620-52265/123			02:40																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Instrument ID: ICAP4 Method: 6010D

Start Date: 08/15/2025 08:40 End Date: 08/16/2025 05:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ca	Fe	K	Mg	Na															
CCB 620-52265/124			02:46																				
ZZZZZZ (QC)			02:52																				
ZZZZZZ (Client)			02:58																				
ZZZZZZ (QC)			03:04																				
ZZZZZZ (QC)			03:10																				
ZZZZZZ (Client)			03:16																				
ZZZZZZ (Client)			03:22																				
ZZZZZZ (Client)			03:28																				
ZZZZZZ (Client)			03:34																				
ZZZZZZ (Client)			03:40																				
ZZZZZZ (Client)			03:46																				
CCV 620-52265/135			03:52																				
CCB 620-52265/136			03:58																				
ZZZZZZ (Client)			04:04																				
ZZZZZZ (Client)			04:10																				
ZZZZZZ (Client)			04:16																				
ZZZZZZ (Client)			04:22																				
ZZZZZZ (Client)			04:28																				
ZZZZZZ (Client)			04:34																				
ZZZZZZ (Client)			04:40																				
ZZZZZZ (Client)			04:46																				
ZZZZZZ (Client)			04:52																				
ZZZZZZ (Client)			04:58																				
CCV 620-52265/147			05:04																				
CCB 620-52265/148			05:10																				
ZZZZZZ (Client)			05:16																				
ZZZZZZ (Client)			05:22																				
ZZZZZZ (QC)			05:27																				
ZZZZZZ (QC)			05:33																				
CCV 620-52265/153			05:39																				
CCB 620-52265/154			05:45																				

Prep Types

D = Dissolved

T = Total/NA

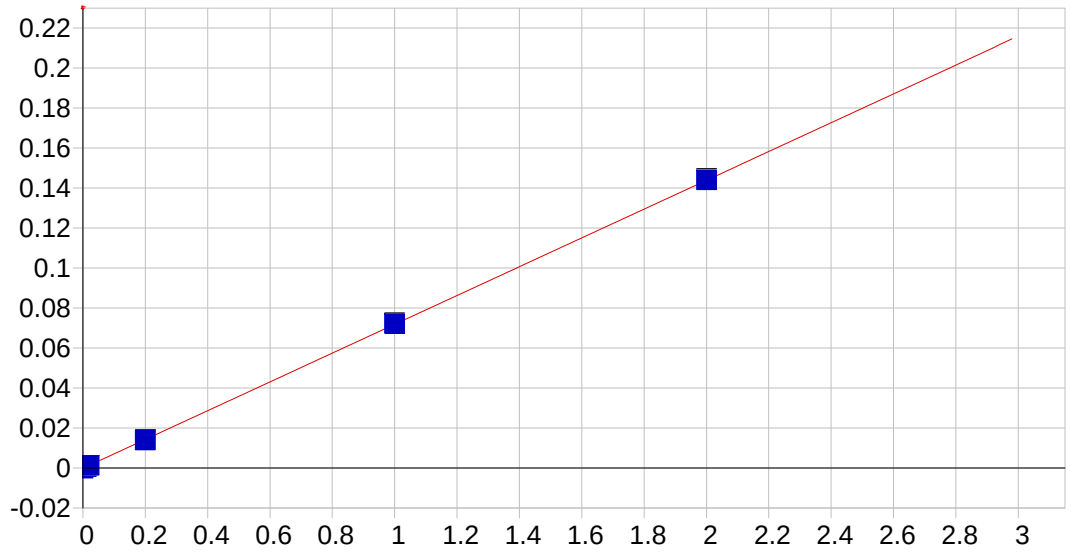
15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.: Analysis Batch No.: 52265

ICP Instrument ID: ICAP4 Start Date: 08/15/2025 End Date: 08/15/2025

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In	Q	Element Y	Q	Element	Q	Element	Q	Element	Q
ICIS 620-52265/1	08:40										
ICV 620-52265/7	09:16	93		100							
ICB 620-52265/9	09:28	103		102							
CRI 620-52265/10	09:34	103		103							
ICSA 620-52265/11	09:40	88		94							
ICSAB 620-52265/12	09:46	86		92							
CCV 620-52265/13	09:52	93		99							
CCB 620-52265/14	09:58	101		101							
MB 620-52116/1-A	11:37	103		104							
LCS 620-52116/2-A	11:43	101		105							
CCV 620-52265/18	11:55	93		100							
CCB 620-52265/19	12:01	101		103							
620-28600-C-1-B DU	12:07	101		104							
620-28600-C-1-C MS	12:13	97		104							
620-28577-4	12:42	95		98							
620-28577-5	12:48	94		100							
620-28577-6	12:54	93		98							
620-28577-7	13:00	101		101							
CCV 620-52265/30	13:06	91		98							
CCB 620-52265/31	13:12	100		101							
MB 620-52104/1-B	13:18	102		103							
620-28577-4	13:24	94		100							
620-28577-5	13:30	95		102							
620-28577-6	13:36	95		101							
620-28577-7	13:42	101		103							
CCV 620-52265/43	18:40	90		101							
CCB 620-52265/44	18:46	100		103							
IS Name on Instrument											

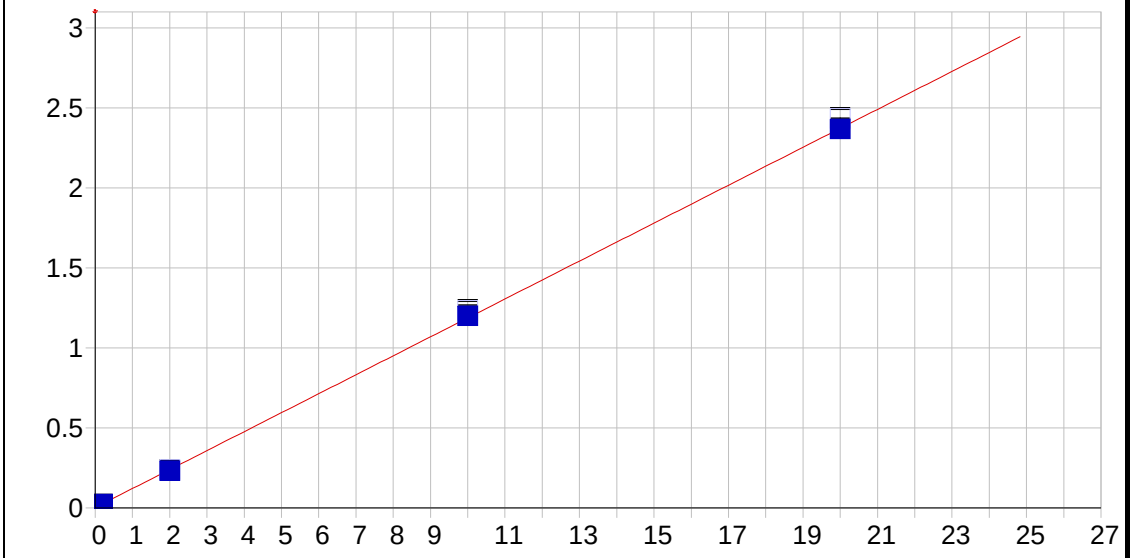


Ag 328.068 {103}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000139	Re-Slope:	1.000000
A1 (Gain):	0.072045	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999971	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.000506		
Predicted MQL:	0.001685		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00014	.000	1
CRL:148480	.01000	.00913	-.001	-8.68	.00052	.000	1
STD3:14768	.02000	.01959	-.000	-2.06	.00127	.000	1
STD4:14768	.20000	.19574	-.004	-2.13	.01399	.000	1
STD5:14768	1.0000	1.0033	.003	.330	.07228	.000	1
STD6:14771	2.0000	2.0022	.002	.112	.14438	.000	1

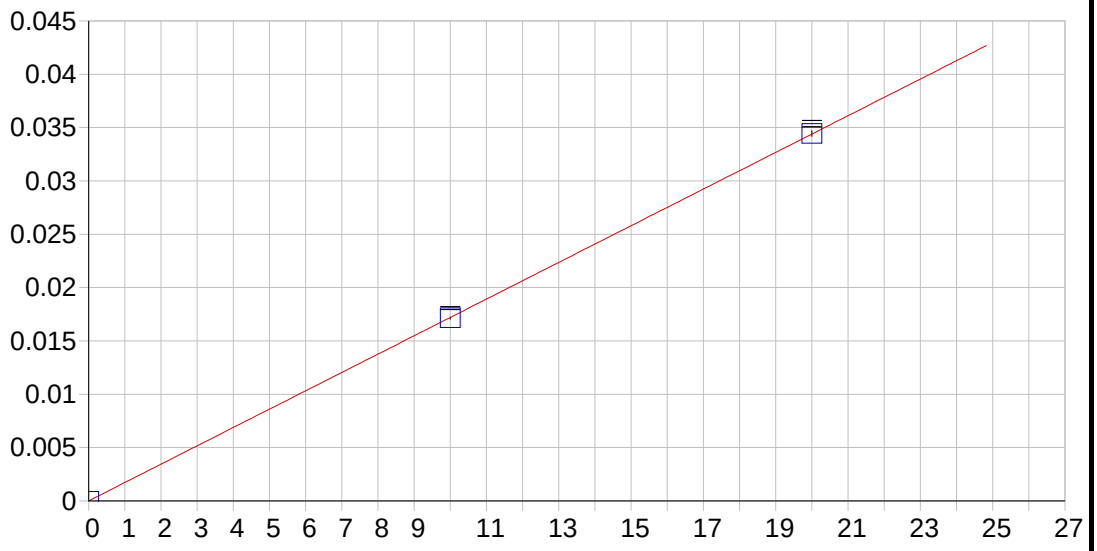


Al 396.152 { 85}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002612	Re-Slope:	1.000000
A1 (Gain):	0.118489	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999914	Status:	OK.
Std Error of Est:	0.000078		
Predicted MDL:	0.000788		
Predicted MQL:	0.002628		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00001	.000	.000	.00261	.000	1
CRL:148480	.05000	.04089	-.009	-18.2	.00752	.000	1
STD3:14768	.20000	.18396	-.016	-8.02	.02506	.000	1
STD4:14768	2.0000	1.9438	-.056	-2.81	.23940	.001	1
STD5:14768	10.000	10.112	.112	1.12	1.2331	.006	1
STD6:14771	20.000	19.969	-.031	-.155	2.4334	.006	1

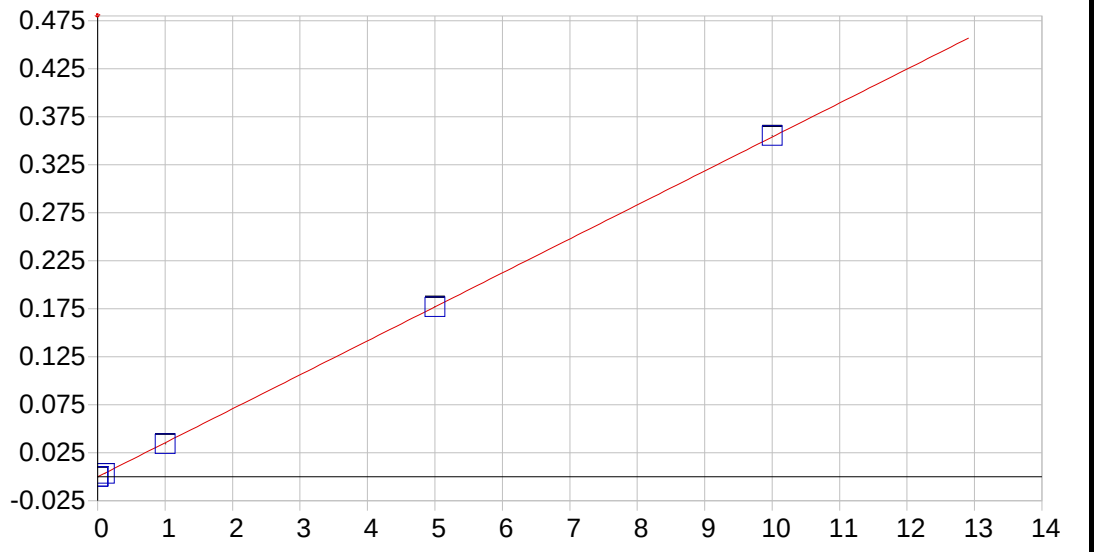


Al 396.152 { 85}2

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000008	Re-Slope:	1.000000
A1 (Gain):	0.001719	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.024988		
Predicted MQL:	0.083293		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00001	.000	.000	.00001	.000	1
STD5:14768	10.000	9.9737	-.026	-.263	.01716	.000	1
STD6:14771	20.000	20.026	.026	.131	.03444	.000	1

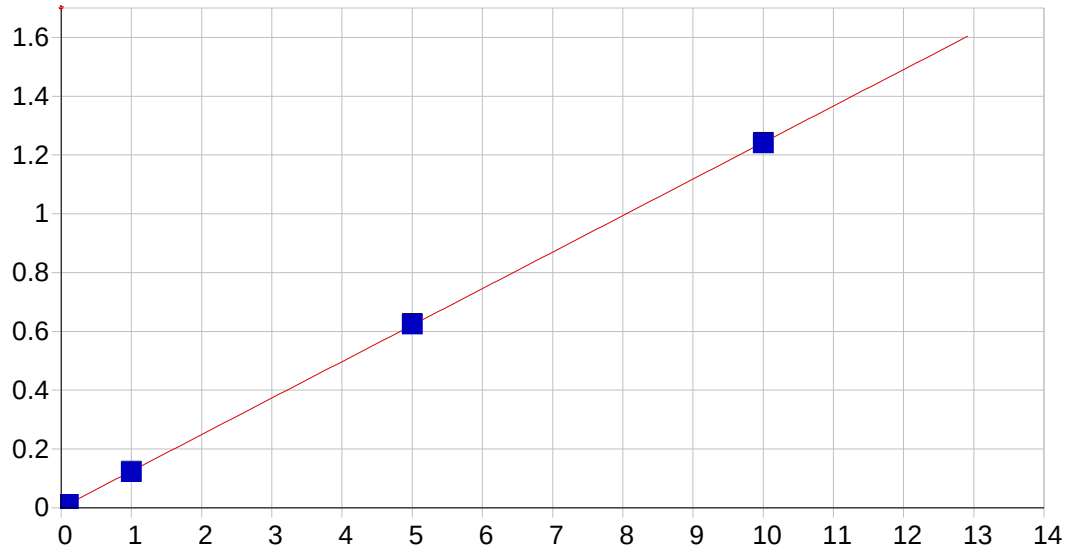


As 189.042 {478}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000013	Re-Slope:	1.000000
A1 (Gain):	0.035388	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.001859		
Predicted MQL:	0.006198		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CRL:148480	.00800	.00642	-.002	-19.8	.00024	.000	1
STD3:14768	.10000	.09221	-.008	-7.79	.00328	.000	1
STD4:14768	1.0000	.96774	-.032	-3.23	.03426	.000	1
STD5:14768	5.0000	5.0050	.005	.099	.17713	.000	1
STD6:14771	10.000	10.037	.037	.367	.35519	.001	1

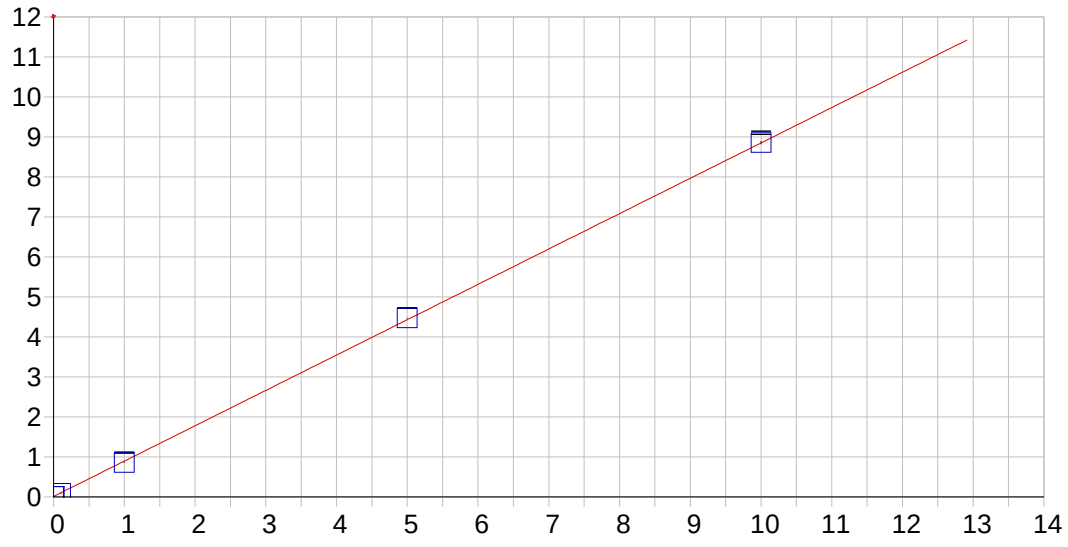


B 208.893 {461}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000666	Re-Slope:	1.000000
A1 (Gain):	0.124146	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	0.000940		
Predicted MQL:	0.003134		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00067	.000	1
CRL:148480	.10000	.09596	-.004	-4.04	.01258	.000	1
STD4:14768	1.0000	.98625	-.014	-1.38	.12294	.001	1
STD5:14768	5.0000	5.0257	.026	.514	.62376	.001	1
STD6:14771	10.000	9.9921	-.008	-.079	1.2395	.002	1

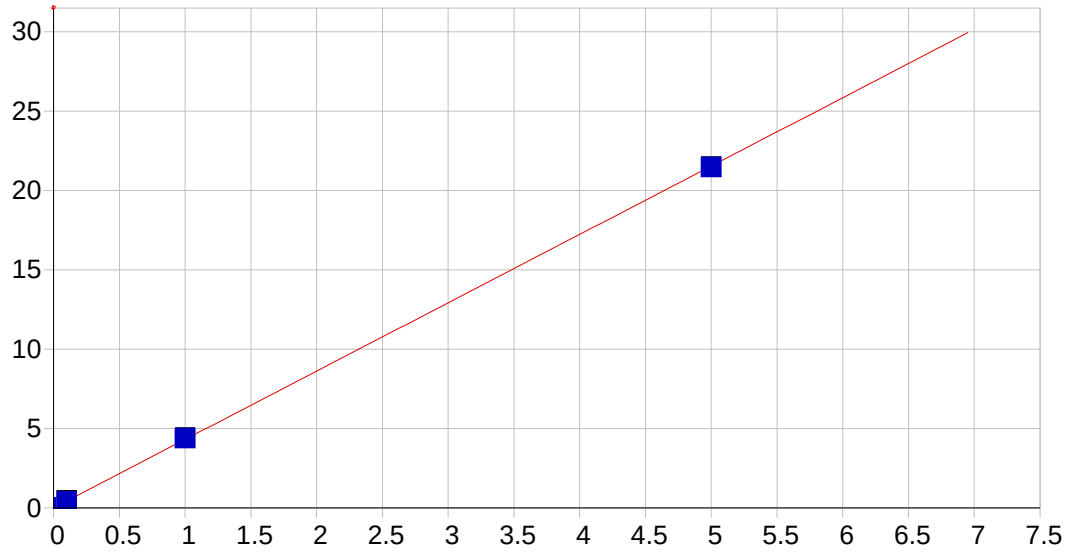


Ba 455.403 { 74}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010998	Re-Slope:	1.000000
A1 (Gain):	0.883826	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999876	Status:	OK.
Std Error of Est:	0.000216		
Predicted MDL:	0.001916		
Predicted MQL:	0.006387		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01100	.001	1
CRL:148480	.01000	.00779	-.002	-22.1	.01788	.001	1
STD3:14768	.10000	.08886	-.011	-11.1	.08953	.001	1
STD4:14768	1.0000	.95769	-.042	-4.23	.85743	.011	1
STD5:14768	5.0000	5.0480	.048	.960	4.4726	.006	1
STD6:14771	10.000	10.008	.008	.076	8.8560	.043	1

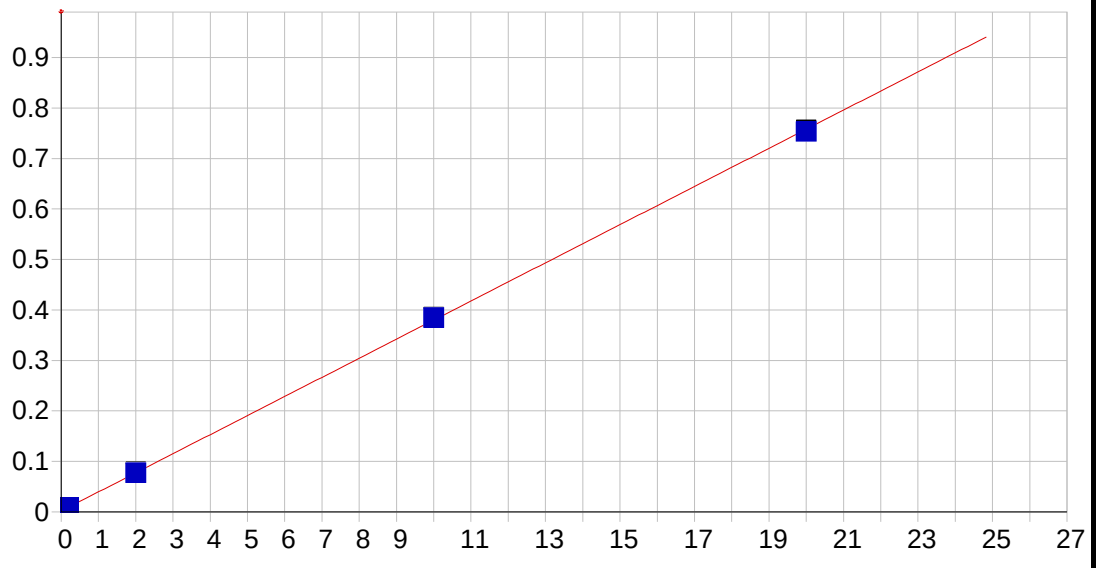


Be 313.042 {108}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005902	Re-Slope:	1.000000
A1 (Gain):	4.307683	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999920	Status:	OK.
Std Error of Est:	0.000348		
Predicted MDL:	0.000014		
Predicted MQL:	0.000045		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00591	.000	1
CRL:148480	.00400	.00256	-.001	-36.0	.01696	.000	1
STD3:14768	.10000	.09895	-.001	-1.05	.43243	.001	1
STD4:14768	1.0000	1.0198	.020	1.98	4.4017	.022	1
STD5:14768	5.0000	4.9827	-.017	-.346	21.484	.006	1

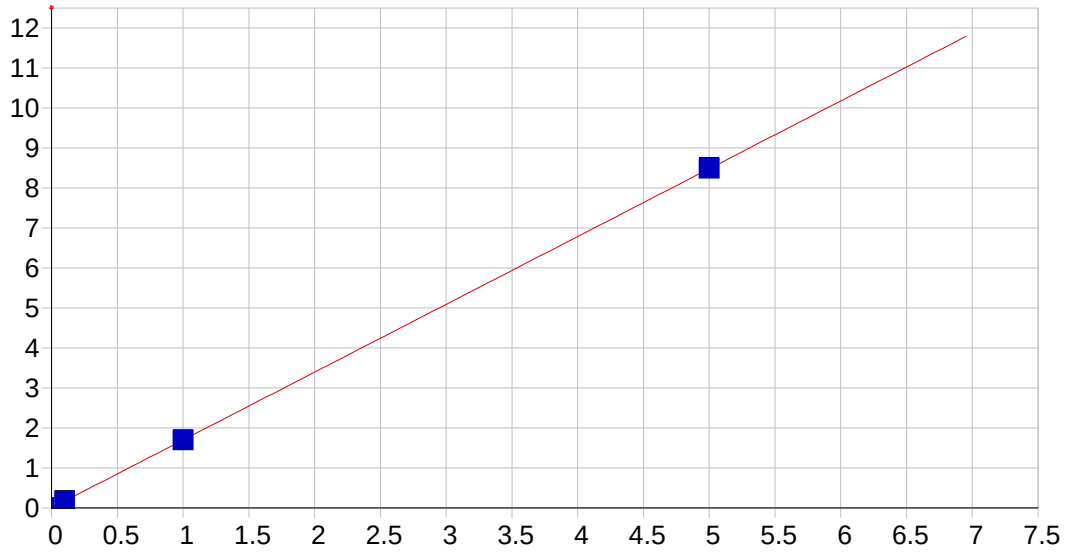


Ca 315.887 {107}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001818	Re-Slope:	1.000000
A1 (Gain):	0.037810	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.012888		
Predicted MQL:	0.042959		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00000	-.000	.000	.00182	.000	1
CRL:148480	.20000	.20089	.001	.447	.00941	.000	1
STD4:14768	2.0000	2.0047	.005	.233	.07768	.001	1
STD5:14768	10.000	10.120	.120	1.20	.38475	.001	1
STD6:14771	20.000	19.875	-.125	-.627	.75389	.002	1

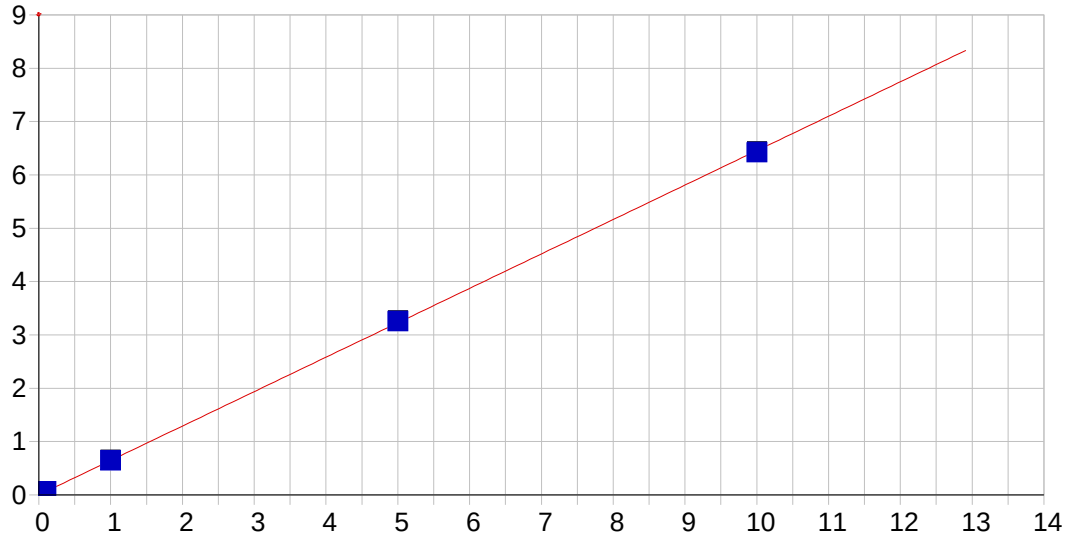


Cd 214.438 {457}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002828	Re-Slope:	1.000000
A1 (Gain):	1.696050	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000104		
Predicted MDL:	0.000079		
Predicted MQL:	0.000264		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00283	.000	1
CRL:148480	.00500	.00356	-.001	-28.9	.00886	.000	1
STD3:14768	.10000	.09873	-.001	-1.27	.17026	.002	1
STD4:14768	1.0000	.99715	-.003	-.285	1.6938	.000	1
STD5:14768	5.0000	5.0056	.006	.111	8.4912	.013	1

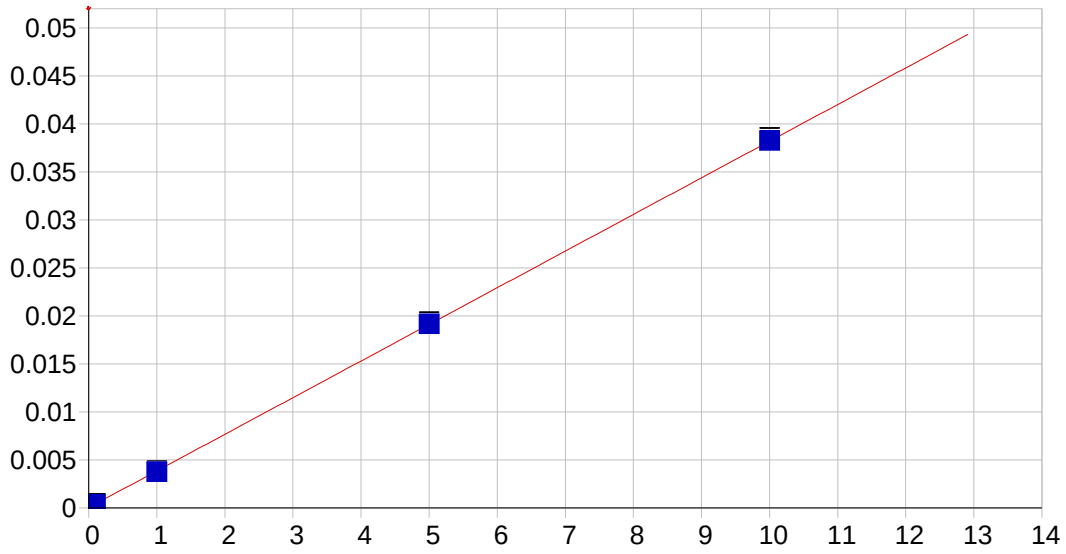


Co 228.616 {447}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000342	Re-Slope:	1.000000
A1 (Gain):	0.645424	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000074		
Predicted MDL:	0.000241		
Predicted MQL:	0.000802		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00034	.000	1
CRL:148480	.01000	.00861	-.001	-13.9	.00590	.000	1
STD3:14768	.10000	.09916	-.001	-.844	.06433	.001	1
STD4:14768	1.0000	1.0024	.002	.236	.64723	.000	1
STD5:14768	5.0000	5.0471	.047	.942	3.2576	.009	1
STD6:14771	10.000	9.9528	-.047	-.472	6.4236	.006	1

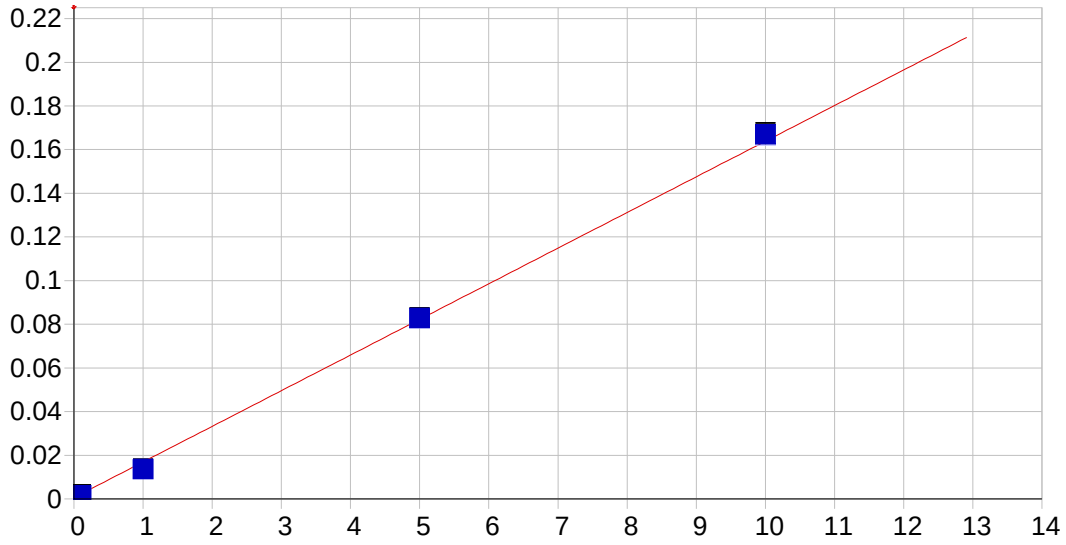


Cr 283.563 {119}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000032	Re-Slope:	1.000000
A1 (Gain):	0.003817	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999961	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.003835		
Predicted MQL:	0.012783		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00003	.000	1
CRL:148480	.01000	.00741	-.003	-25.9	.00006	.000	1
STD3:14768	.10000	.09569	-.004	-4.31	.00040	.000	1
STD4:14768	1.0000	.98118	-.019	-1.88	.00378	.000	1
STD5:14768	5.0000	5.0119	.012	.239	.01917	.000	1
STD6:14771	10.000	10.014	.014	.138	.03827	.000	1

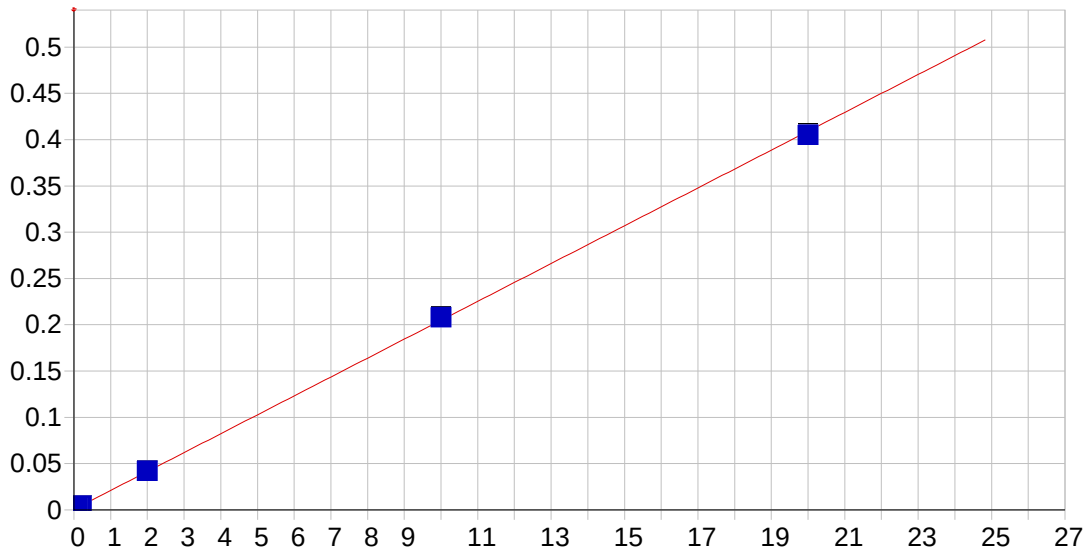


Cu 324.754 {104}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000606	Re-Slope:	1.000000
A1 (Gain):	0.016324	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998379	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.003943		
Predicted MQL:	0.013143		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00001	.000	.000	.00061	.000	1
CRL:148480	.01000	.00630	-.004	-37.0	.00069	.000	1
STD3:14768	.10000	.07305	-.027	-26.9	.00180	.000	1
STD4:14768	1.0000	.80136	-.199	-19.9	.01364	.000	1
STD5:14768	5.0000	5.0392	.039	.785	.08261	.000	1
STD6:14771	10.000	10.190	.190	1.90	.16642	.001	1

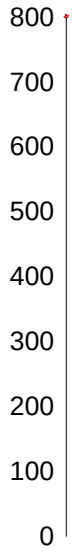


Fe 240.488 {140}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000626	Re-Slope:	1.000000
A1 (Gain):	0.020424	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999920	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.012123		
Predicted MQL:	0.040411		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00063	.000	1
STD4:14768	2.0000	2.0333	.033	1.66	.04215	.000	1
STD3:14768	.20000	.19344	-.007	-3.28	.00458	.000	1
STD5:14768	10.000	10.162	.162	1.62	.20817	.001	1
STD6:14771	20.000	19.812	-.188	-.941	.40527	.001	1
CRL:148480	.10000	.09976	-.000	-.244	.00266	.000	1

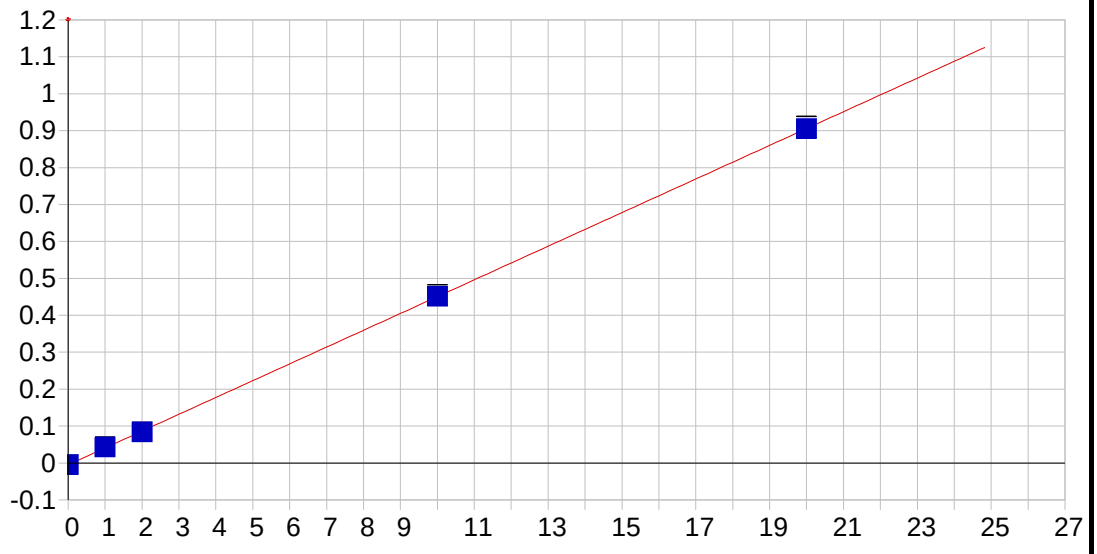


In 230.606 {446}*

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	743.92	3.43	1



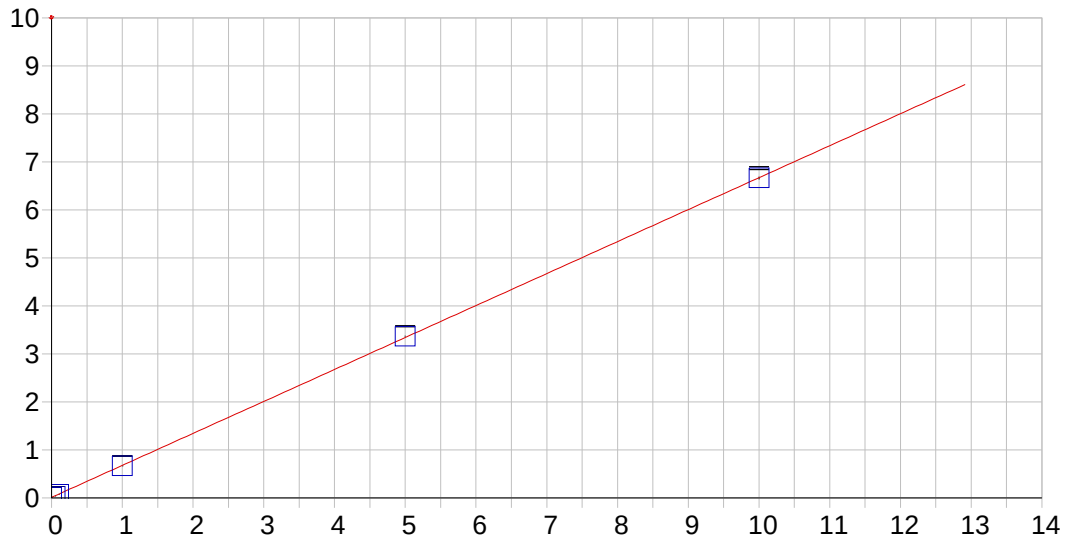
K 766.490 { 44}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.004705	Re-Slope:	1.000000

A1 (Gain):	0.045523	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.001744		
Predicted MDL:	0.061910		
Predicted MQL:	0.206368		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00291	-.003	.000	-.00484	.001	1
CRL:148480	1.0000	1.0414	.041	4.14	.04271	.002	1
STD5:14768	10.000	10.016	.016	.157	.45185	.004	1
STD6:14771	20.000	19.995	-.005	-.025	.90674	.006	1
STD4:14768	2.0000	1.9509	-.049	-2.46	.08423	.002	1

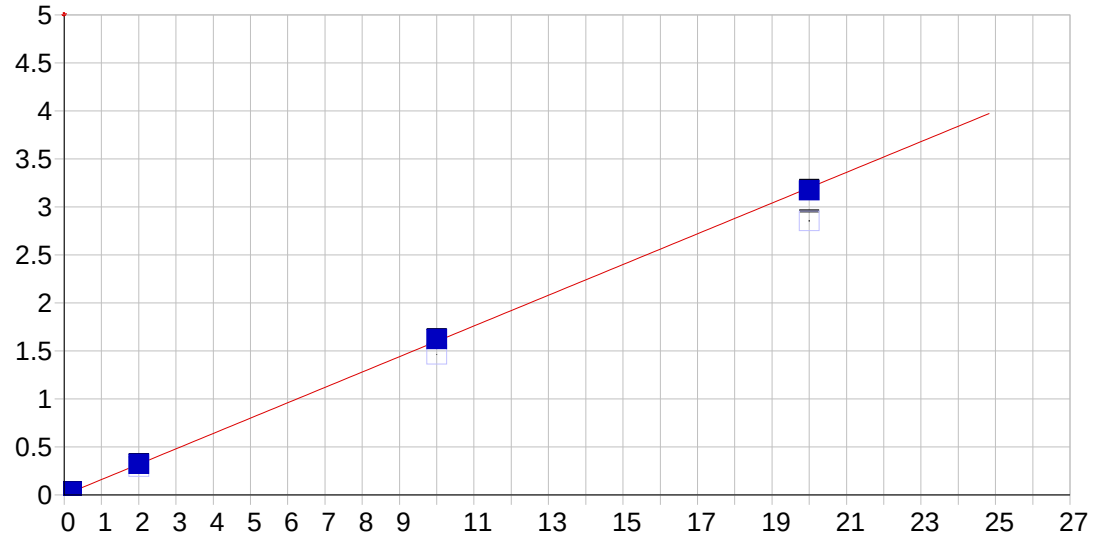


Li 670.784 { 50}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.011901	Re-Slope:	1.000000
A1 (Gain):	0.665989	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999936	Status:	OK.
Std Error of Est:	0.000262		
Predicted MDL:	0.003921		
Predicted MQL:	0.013069		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00001	.000	.000	.01191	.001	1
CRL:148480	.05000	.04440	-.006	-11.2	.04147	.002	1
STD3:14768	.10000	.09086	-.009	-9.14	.07241	.001	1
STD4:14768	1.0000	.98450	-.015	-1.55	.66757	.002	1
STD5:14768	5.0000	5.0414	.041	.828	3.3694	.013	1
STD6:14771	10.000	9.9889	-.011	-.111	6.6644	.028	1

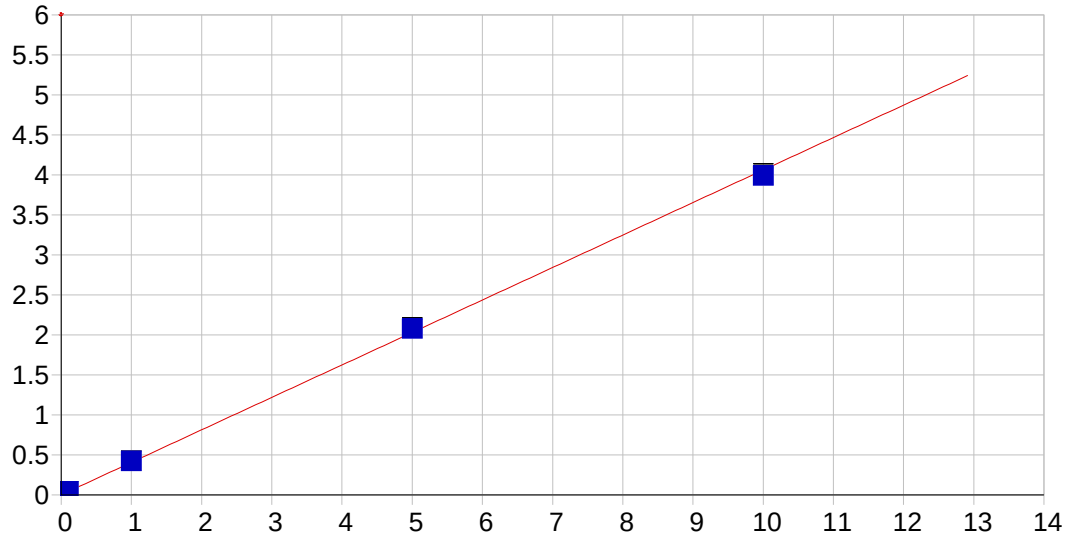


Mg 285.213 {118}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001389	Re-Slope:	1.000000
A1 (Gain):	0.159916	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999925	Status:	OK.
Std Error of Est:	0.000055		
Predicted MDL:	0.002567		
Predicted MQL:	0.008556		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00139	.000	1
CRL:148480	.02000	.01731	-.003	-13.4	.00336	.000	1
STD3:14768	.20000	.19678	-.003	-1.61	.02966	.000	1
STD4:14768	2.0000	2.0186	.019	.929	.29219	.001	1
STD5:14768	10.000	10.145	.145	1.45	1.4637	.003	1
STD6:14771	20.000	19.842	-.158	-.789	2.8545	.009	1

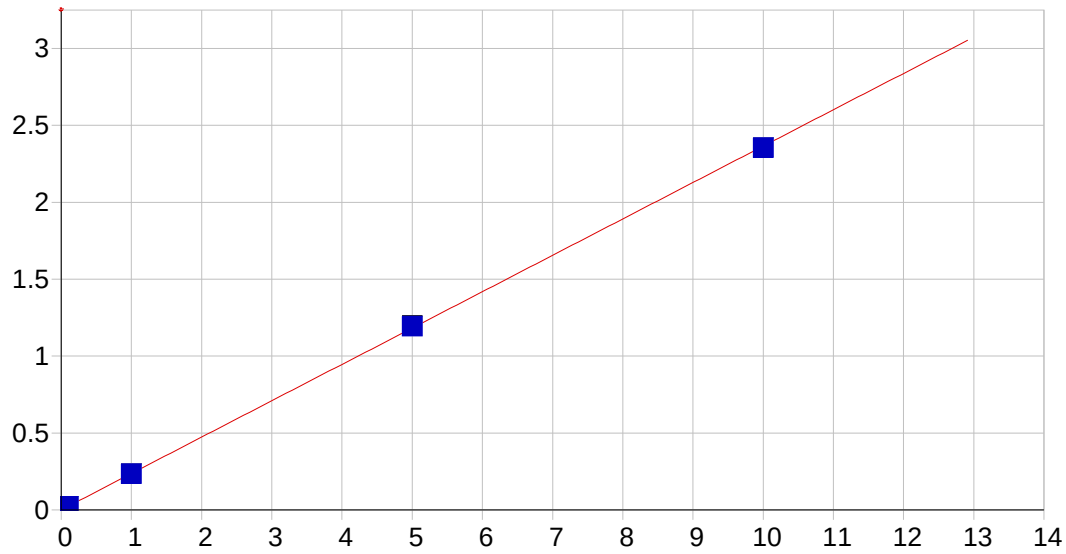


Mn 257.610 {131}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001015	Re-Slope:	1.000000
A1 (Gain):	0.405933	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999733	Status:	OK.
Std Error of Est:	0.000092		
Predicted MDL:	0.000077		
Predicted MQL:	0.000256		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00102	.000	1
CRL:148480	.00400	.00245	-.002	-38.8	.00201	.000	1
STD3:14768	.10000	.10345	.003	3.45	.04301	.000	1
STD4:14768	1.0000	1.0423	.042	4.23	.42413	.001	1
STD5:14768	5.0000	5.1263	.126	2.53	2.0820	.011	1
STD6:14771	10.000	9.8295	-.170	-1.70	3.9912	.026	1

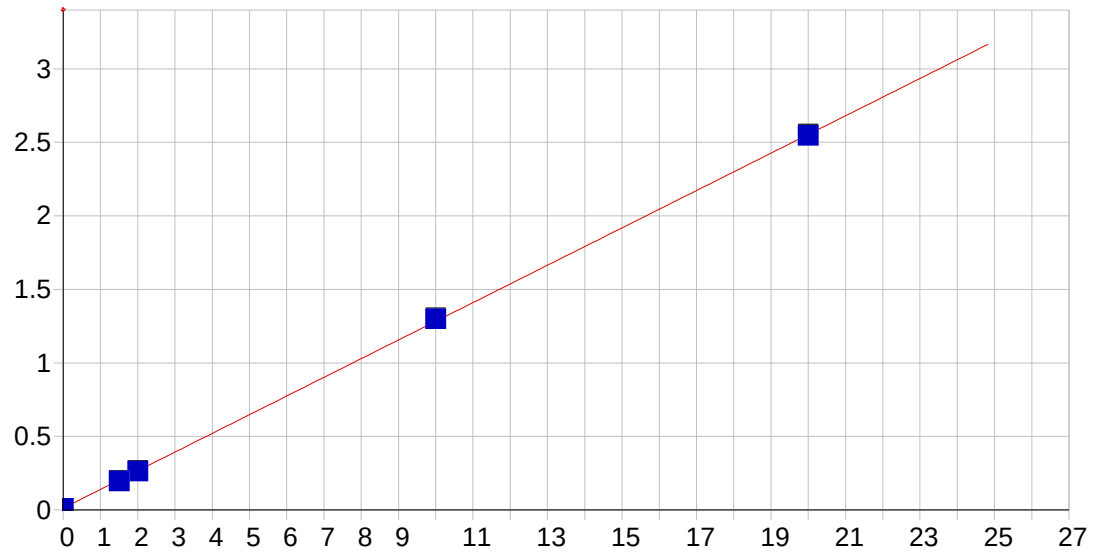


Mo 202.030 {467}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000199	Re-Slope:	1.000000
A1 (Gain):	0.236488	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.000373		
Predicted MQL:	0.001244		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00020	.000	1
CRL:148480	.01000	.00932	-.001	-6.82	.00240	.000	1
STD3:14768	.10000	.09883	-.001	-1.17	.02357	.000	1
STD4:14768	1.0000	.99375	-.006	-.625	.23522	.001	1
STD5:14768	5.0000	5.0521	.052	1.04	1.1950	.001	1
STD6:14771	10.000	9.9560	-.044	-.440	2.3548	.001	1

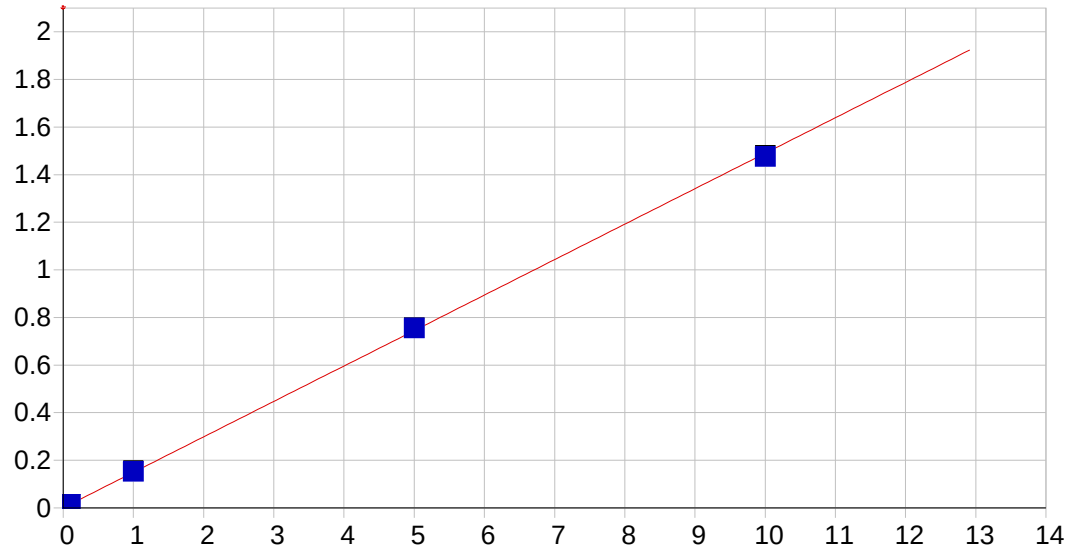


Na 589.592 { 57}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.012226	Re-Slope:	1.000000
A1 (Gain):	0.127070	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999961	Status:	OK.
Std Error of Est:	0.010827		
Predicted MDL:	0.018664		
Predicted MQL:	0.062214		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00339	-.003	.000	.01179	.002	1
STD4:14768	2.0000	1.9824	-.018	-.880	.26431	.002	1
STD5:14768	10.000	10.126	.126	1.26	1.2999	.004	1
STD6:14771	20.000	19.942	-.058	-.289	2.5481	.007	1
CRL:148480	1.5000	1.4527	-.047	-3.16	.19682	.002	1

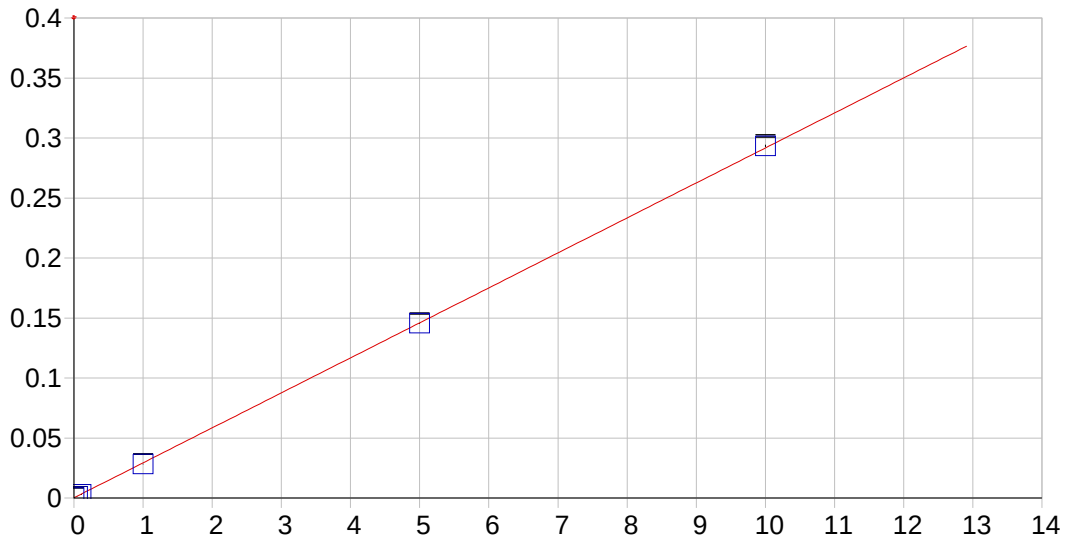


Ni 231.604 {446}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000483	Re-Slope:	1.000000
A1 (Gain):	0.148957	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999904	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.000790		
Predicted MQL:	0.002632		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00048	.000	1
CRL:148480	.01000	.00823	-.002	-17.7	.00171	.000	1
STD3:14768	.10000	.09938	-.001	-.623	.01528	.000	1
STD4:14768	1.0000	1.0286	.029	2.86	.15367	.001	1
STD5:14768	5.0000	5.0708	.071	1.42	.75569	.002	1
STD6:14771	10.000	9.9030	-.097	-.970	1.4753	.005	1



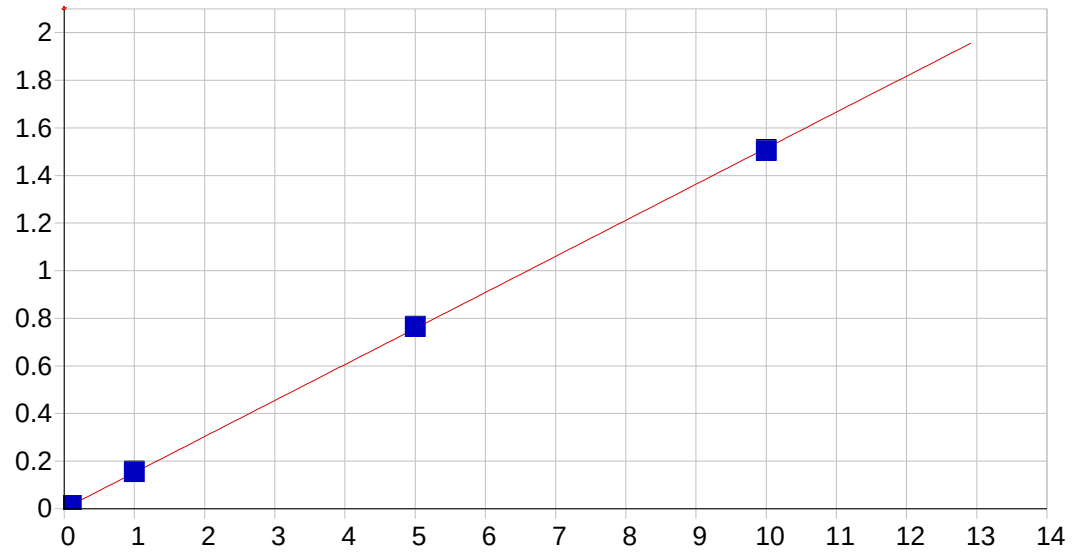
P 178.284 {489}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000163	Re-Slope:	1.000000
A1 (Gain):	0.029154	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999934	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.002027		
Predicted MQL:	0.006755		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00001	.000	.000	.00016	.000	1
CRL:148480	.05000	.04633	-.004	-7.35	.00151	.000	1
STD3:14768	.10000	.09435	-.006	-5.65	.00291	.000	1
STD4:14768	1.0000	.96556	-.034	-3.44	.02831	.000	1
STD5:14768	5.0000	4.9876	-.012	-.249	.14557	.000	1

STD6:14771	10.000	10.056	.056	.562	.29334	.001	1

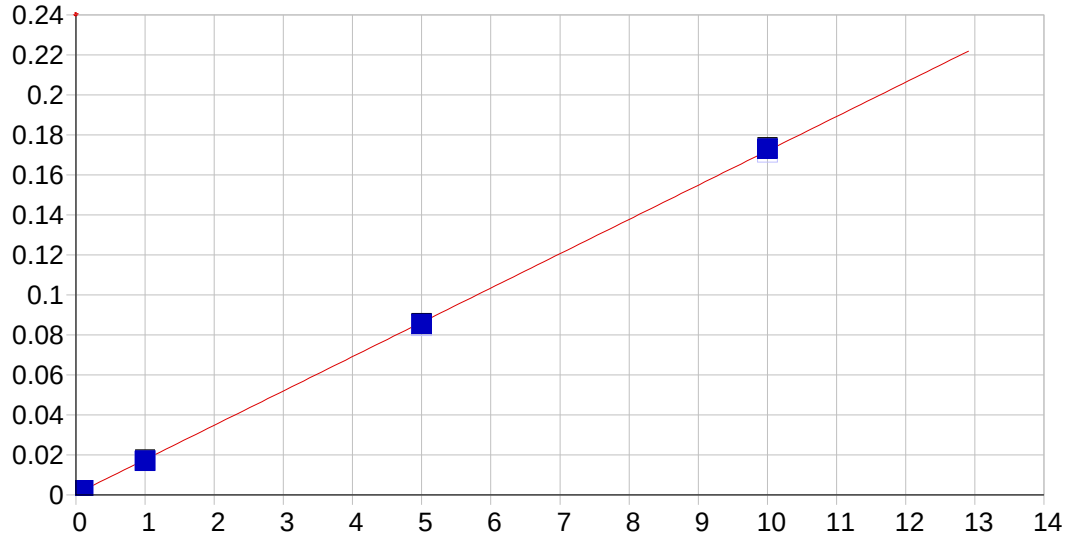


Pb 220.353 {453}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000317	Re-Slope:	1.000000
A1 (Gain):	0.151441	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	0.001296		
Predicted MQL:	0.004321		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00032	.000	1
CRL:148480	.01500	.01258	-.002	-16.1	.00222	.000	1
STD3:14768	.10000	.10026	.000	.263	.01550	.000	1
STD4:14768	1.0000	1.0190	.019	1.90	.15461	.002	1
STD5:14768	5.0000	5.0482	.048	.964	.76469	.001	1
STD6:14771	10.000	9.9350	-.065	-.650	1.5046	.004	1

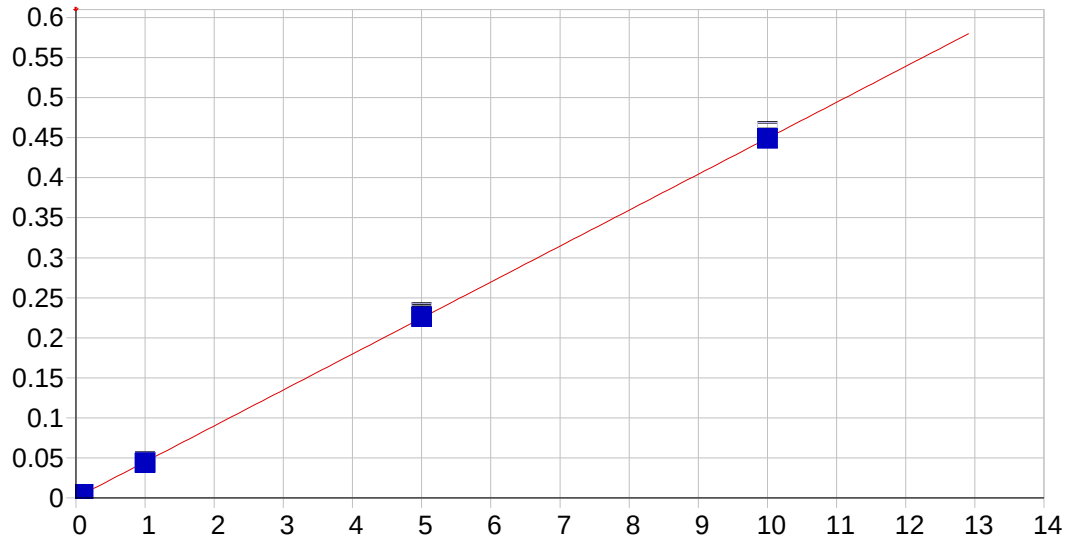


S 182.034 {485}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000538	Re-Slope:	1.000000
A1 (Gain):	0.017150	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999925	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	0.003797		
Predicted MQL:	0.012656		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00000	-.000	.000	.00054	.000	1
STD4:14768	1.0000	.97021	-.030	-2.98	.01697	.000	1
STD5:14768	5.0000	4.9548	-.045	-.904	.08448	.000	1
STD6:14771	10.000	10.067	.067	.671	.17113	.000	1
STD3:14768	.10000	.10791	.008	7.91	.00237	.000	1

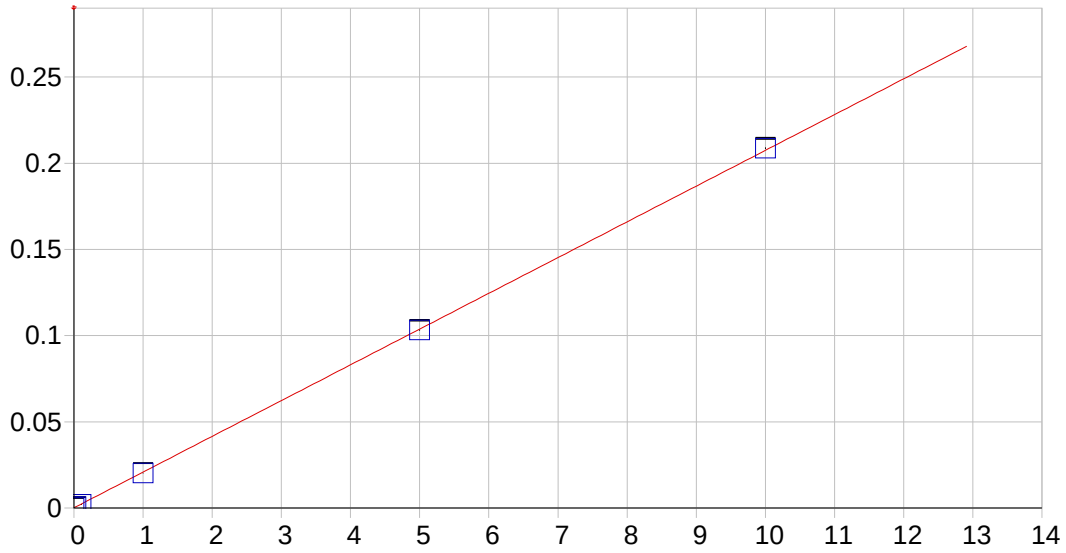


Sb 206.833 {463}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000167	Re-Slope:	1.000000
A1 (Gain):	0.044907	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999971	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.001816		
Predicted MQL:	0.006053		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00000	-.000	.000	.00017	.000	1
CRL:148480	.01200	.01263	.001	5.25	.00074	.000	1
STD3:14768	.10000	.09837	-.002	-1.63	.00466	.000	1
STD4:14768	1.0000	.97459	-.025	-2.54	.04472	.001	1
STD5:14768	5.0000	5.0352	.035	.705	.23021	.001	1
STD6:14771	10.000	9.9912	-.009	-.088	.45670	.001	1



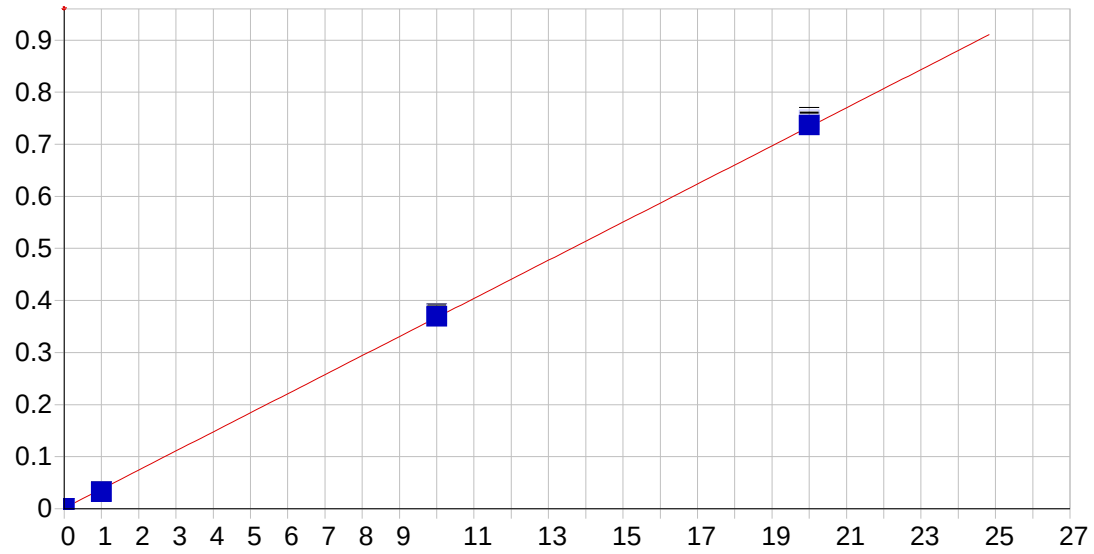
Se 196.090 {472}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000109	Re-Slope:	1.000000
A1 (Gain):	0.020738	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999944	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.003767		
Predicted MQL:	0.012555		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00011	.000	1
CRL:148480	.03000	.02845	-.002	-5.16	.00070	.000	1
STD3:14768	.10000	.09296	-.007	-7.04	.00204	.000	1
STD4:14768	1.0000	.97320	-.027	-2.68	.02029	.000	1
STD5:14768	5.0000	4.9742	-.026	-.515	.10326	.000	1

STD6:14771	10.000	10.061	.061	.611	.20876	.000	1

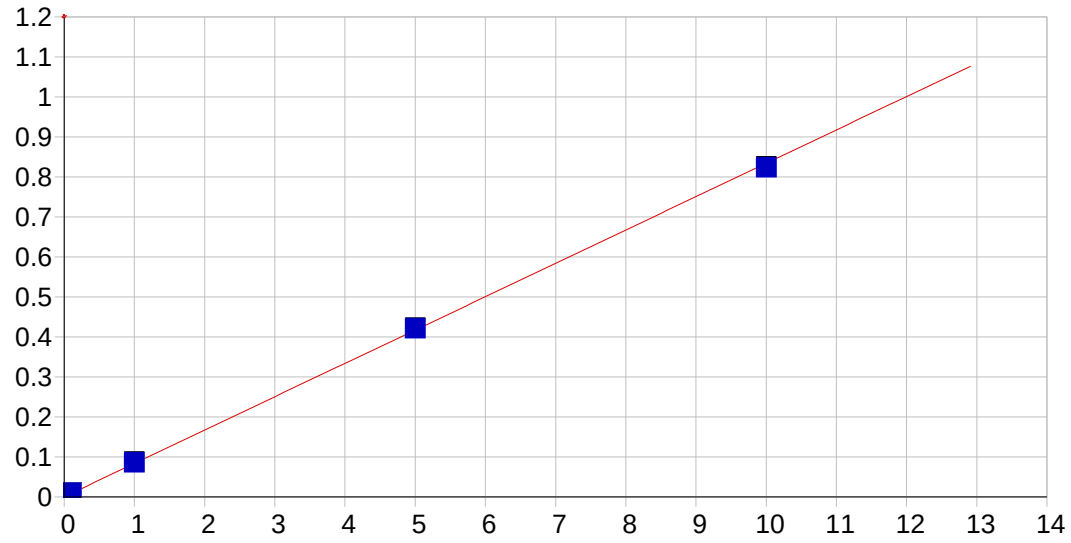


Si 212.412 {459}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001181	Re-Slope:	1.000000
A1 (Gain):	0.036620	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999661	Status:	OK.
Std Error of Est:	0.000240		
Predicted MDL:	0.002921		
Predicted MQL:	0.009736		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00013	.000	.000	.00119	.000	1
CRL:148480	1.0000	.85560	-.144	-14.4	.03252	.000	1
STD5:14768	10.000	10.046	.046	.463	.37400	.001	1
STD6:14771	20.000	20.096	.096	.481	.74695	.004	1

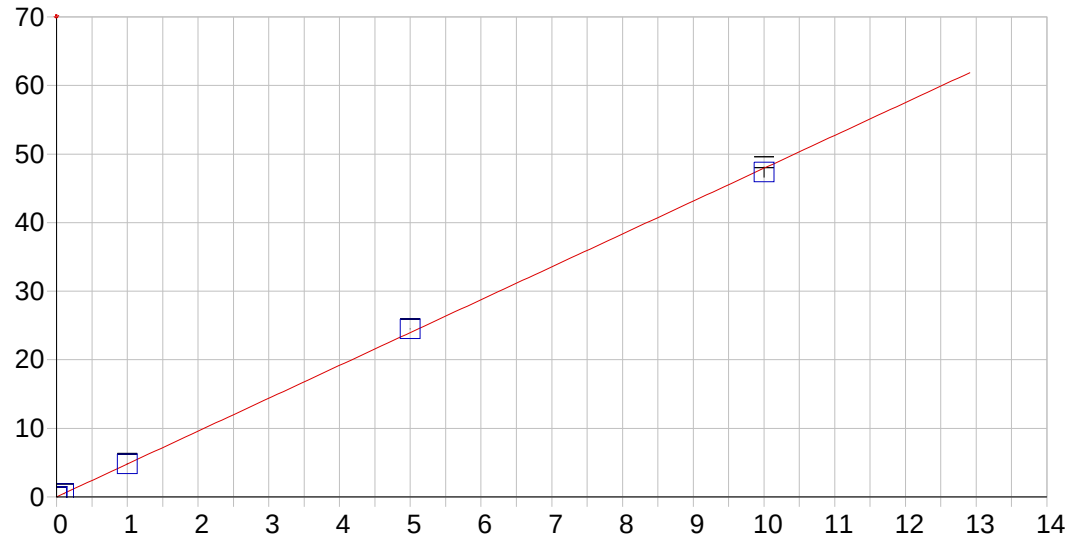


Sn 189.989 {477}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000279	Re-Slope:	1.000000
A1 (Gain):	0.083373	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999687	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.000852		
Predicted MQL:	0.002841		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00001	-.000	.000	.00028	.000	1
CRL:148480	.01000	.01222	.002	22.2	.00130	.000	1
STD3:14768	.10000	.12520	.025	25.2	.01071	.000	1
STD4:14768	1.0000	1.0355	.035	3.55	.08652	.001	1
STD5:14768	5.0000	5.0546	.055	1.09	.42121	.001	1
STD6:14771	10.000	9.8825	-.117	-1.17	.82325	.002	1

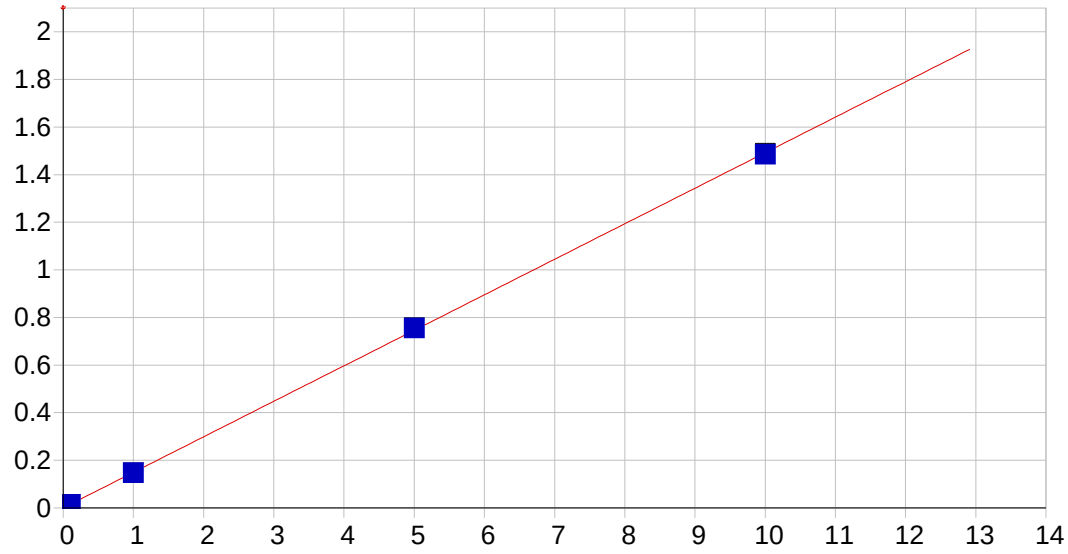


Sr 407.771 { 83}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004543	Re-Slope:	1.000000
A1 (Gain):	4.792497	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999873	Status:	OK.
Std Error of Est:	0.001185		
Predicted MDL:	0.000167		
Predicted MQL:	0.000558		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00455	.000	1
CRL:148480	.01000	.00897	-.001	-10.3	.04753	.000	1
STD3:14768	.10000	.10058	.001	.584	.48659	.002	1
STD4:14768	1.0000	1.0037	.004	.375	4.8150	.066	1
STD5:14768	5.0000	5.1138	.114	2.28	24.512	.054	1
STD6:14771	10.000	9.8829	-.117	-1.17	47.368	.782	1

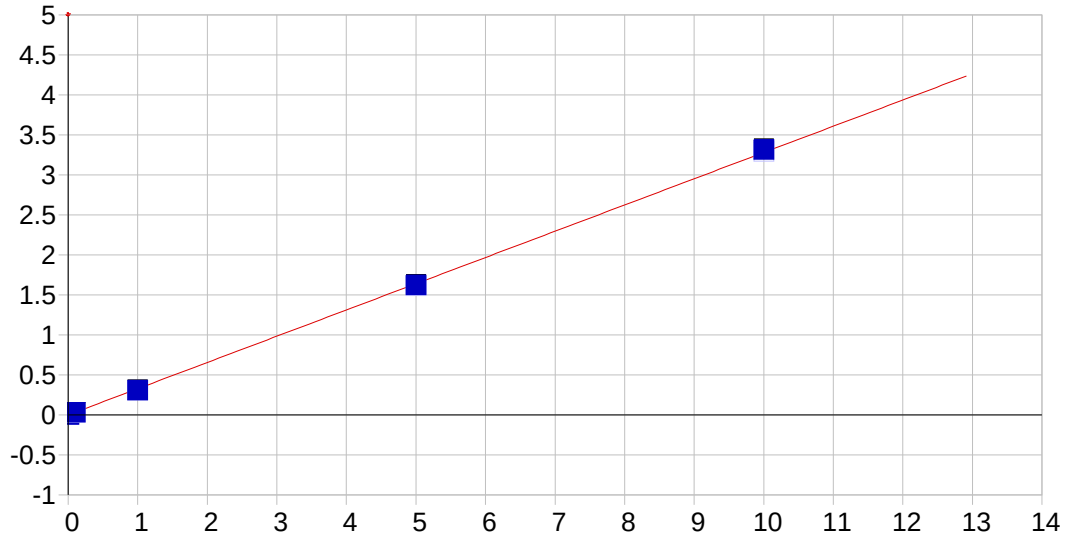


Ti 334.904 {101}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000148	Re-Slope:	1.000000
A1 (Gain):	0.149210	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999961	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.000400		
Predicted MQL:	0.001333		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00015	.000	1
CRL:148480	.01000	.00946	-.001	-5.43	.00156	.000	1
STD3:14768	.10000	.09885	-.001	-1.15	.01490	.000	1
STD4:14768	1.0000	.98595	-.014	-1.40	.14732	.000	1
STD5:14768	5.0000	5.0634	.063	1.27	.75596	.002	1
STD6:14771	10.000	9.9524	-.048	-.476	1.4858	.003	1

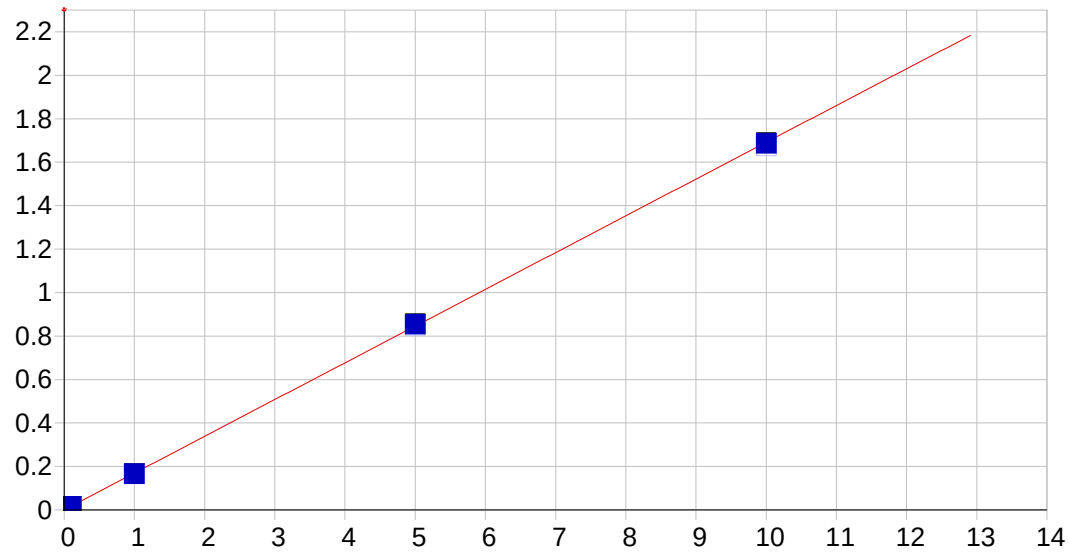


Tl 190.856 {477}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000394	Re-Slope:	1.000000
A1 (Gain):	0.328060	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999835	Status:	OK.
Std Error of Est:	0.000092		
Predicted MDL:	0.001564		
Predicted MQL:	0.005212		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00039	.000	1
CRL:148480	.01000	.01030	.000	2.99	.00296	.000	1
STD3:14768	.10000	.09274	-.007	-7.26	.02981	.000	1
STD4:14768	1.0000	.94430	-.056	-5.57	.30719	.000	1
STD5:14768	5.0000	4.9539	-.046	-.922	1.6138	.005	1
STD6:14771	10.000	10.109	.109	1.09	3.2939	.008	1

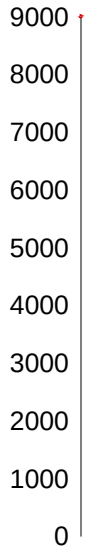


V 292.402 {115}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000247	Re-Slope:	1.000000
A1 (Gain):	0.169114	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	0.000355		
Predicted MQL:	0.001184		

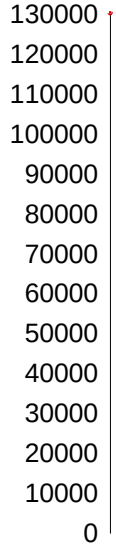
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00025	.000	1
CRL:148480	.01000	.00902	-.001	-9.80	.00176	.000	1
STD3:14768	.10000	.09710	-.003	-2.90	.01654	.000	1
STD4:14768	1.0000	.98067	-.019	-1.93	.16481	.000	1
STD5:14768	5.0000	5.0514	.051	1.03	.84811	.001	1
STD6:14771	10.000	9.9718	-.028	-.282	1.6738	.002	1



Y 224.306 {450}*

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	8437.8	28.6	1

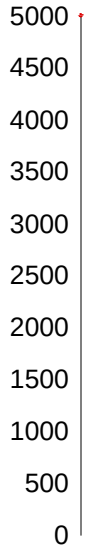


Y 360.073 { 94}*

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	

A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	123460.	119.	1

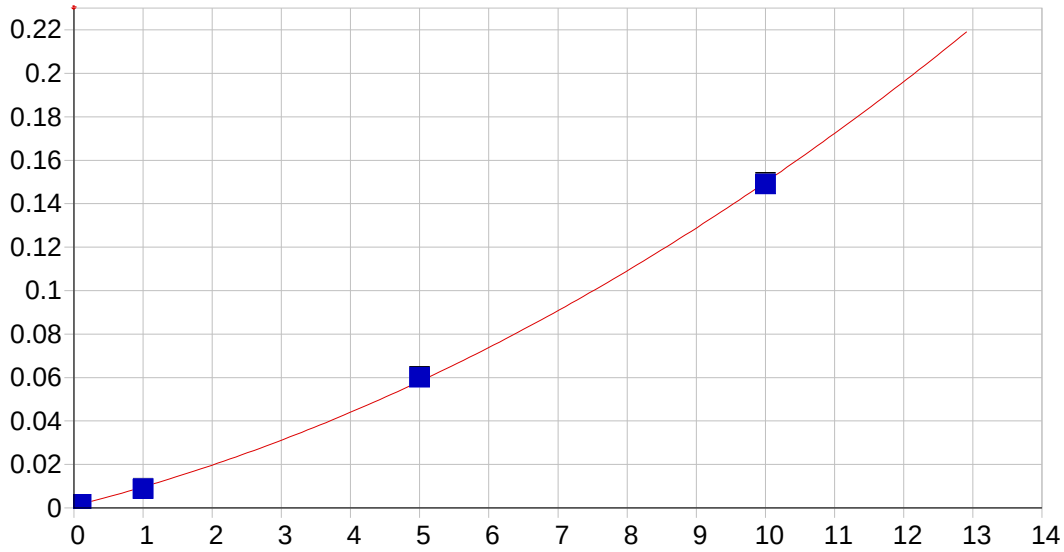


Y 371.030 { 91}*

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	4529.5	33.7	1



Zn 213.856 {457}

Date of Fit:	8/18/2025 8:42:26	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.000908	Re-Slope:	1.000000
A1 (Gain):	0.008030	Y-int:	0.000000
A2 (Curvature):	0.000687		
n (Exponent):	1.000000		
Correlation:	0.999678	Status:	Warning Positive Curvature
Std Error of Est:	0.000006		
Predicted MDL:	0.015248		
Predicted MQL:	0.050826		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00001	.000	.000	.00091	.000	1
CRL:148480	.01000	.00402	-.006	-59.8	.00094	.000	1
STD3:14768	.10000	.08345	-.017	-16.5	.00158	.000	1
STD4:14768	1.0000	.90966	-.090	-9.03	.00878	.000	1
STD5:14768	5.0000	5.1256	.126	2.51	.06011	.000	1
STD6:14771	10.000	9.9606	-.039	-.394	.14902	.001	1

Sample Name: Blank Acquired: 8/15/2025 8:40:17 Type: Cal
Method: 20240718_NewIntStd(v104) Mode: IR Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0000	.0018	.0006	-.0048	.0014	.0118
Stddev	.0000	.0004	.0002	.0007	.0002	.0018
%RSD	152.3	19.66	29.35	15.07	13.50	15.64
#1	.0000	.0019	.0008	-.0045	.0012	.0139
#2	-.0000	.0021	.0005	-.0057	.0014	.0111
#3	.0000	.0014	.0005	-.0043	.0016	.0104

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	743.92	8437.8	123460.	4529.5
Stddev	3.43	28.6	119.	33.7
%RSD	.46058	.33890	.09629	.74316
#1	742.62	8441.0	123370.	4568.2
#2	747.80	8464.7	123590.	4513.7
#3	741.33	8407.7	123410.	4506.7

Sample Name: CRL:148480 Acquired: 8/15/2025 8:46:15 Type: Cal
Method: 20240718_NewIntStd(v104) Mode: IR Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0002	.0094	.0025	.0427	.0034	.1968
Stddev	.0001	.0002	.0002	.0016	.0001	.0019
%RSD	22.97	2.065	5.963	3.860	1.668	.9557
#1	.0002	.0096	.0027	.0441	.0033	.1968
#2	.0003	.0095	.0025	.0431	.0034	.1987
#3	.0002	.0092	.0024	.0409	.0033	.1949

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	768.99	8570.7	125790.	4690.6
Stddev	3.79	20.0	375.	84.1
%RSD	.49265	.23387	.29797	1.7929
#1	767.67	8548.2	125520.	4600.6
#2	773.26	8586.7	125620.	4703.9
#3	766.03	8577.1	126210.	4767.2

Sample Name: STD3:147687 Acquired: 8/15/2025 8:52:13 Type: Cal
Method: 20240718_NewIntStd(v104) Mode: IR Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Fe2404	Mg2852
Units	Cts/S	Cts/S	Cts/S
Avg	.0033	.0044	.0297
Stddev	.0001	.0001	.0001
%RSD	2.256	3.225	.2425
#1	.0034	.0045	.0296
#2	.0033	.0042	.0296
#3	.0032	.0045	.0297

Int. Std.	In2306	Y_2243	Y_3600
Units	Cts/S	Cts/S	Cts/S
Avg	756.04	8567.1	125650.
Stddev	2.90	13.5	301.
%RSD	.38358	.15746	.23942
#1	759.09	8552.1	125470.
#2	753.32	8578.2	125490.
#3	755.72	8571.0	126000.

Int. Std.	Y_3710
Units	Cts/S
Avg	4674.3
Stddev	63.9
%RSD	1.3676
#1	4706.5
#2	4715.7
#3	4600.7

Sample Name: STD4:147688 Acquired: 8/15/2025 8:58:08 Type: Cal
Method: 20240718_NewIntStd(v104) Mode: IR Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0343	.0777	.0405	.0842	.2922	.2643
Stddev	.0001	.0007	.0002	.0016	.0009	.0020
%RSD	.1714	.9068	.4450	1.852	.2985	.7509
#1	.0343	.0782	.0407	.0860	.2923	.2621
#2	.0343	.0769	.0404	.0837	.2930	.2648
#3	.0342	.0779	.0403	.0830	.2913	.2660

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	738.73	8519.6	124640.	4665.2
Stddev	2.39	11.1	172.	81.6
%RSD	.32311	.13026	.13798	1.7485
#1	741.30	8507.5	124470.	4642.3
#2	736.58	8521.7	124820.	4755.8
#3	738.31	8529.4	124630.	4597.6

Sample Name: STD5:147689 Acquired: 8/15/2025 9:04:04 Type: Cal
Method: 20240718_NewIntStd(v104) Mode: IR Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1771	.3848	.2003	.4518	1.464	1.300
Stddev	.0005	.0008	.0007	.0043	.003	.004
%RSD	.2745	.2173	.3378	.9419	.1802	.3386
#1	.1776	.3848	.1998	.4470	1.464	1.300
#2	.1772	.3856	.2010	.4550	1.466	1.304
#3	.1766	.3839	.2000	.4536	1.461	1.295

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	674.87	8227.9	121130.	4569.0
Stddev	1.62	9.5	378.	20.3
%RSD	.23933	.11532	.31211	.44344
#1	675.17	8219.7	121430.	4575.4
#2	673.13	8225.6	121260.	4546.4
#3	676.32	8238.3	120700.	4585.3

Sample Name: STD6:147710 Acquired: 8/15/2025 9:09:57 Type: Cal
Method: 20240718_NewIntStd(v104) Mode: IR Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3552	.7539	.3901	.9067	2.854	2.548
Stddev	.0006	.0021	.0016	.0055	.009	.007
%RSD	.1741	.2833	.4141	.6081	.3061	.2795
#1	.3558	.7563	.3919	.9125	2.864	2.555
#2	.3546	.7523	.3897	.9014	2.848	2.541
#3	.3552	.7531	.3888	.9063	2.851	2.548

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	643.13	8198.5	121610.	4663.0
Stddev	.62	9.8	265.	35.1
%RSD	.09639	.11953	.21759	.75257
#1	643.18	8187.2	121610.	4637.5
#2	642.49	8203.7	121350.	4703.1
#3	643.73	8204.6	121880.	4648.5

Sample Name: ICV 111376 Acquired: 8/15/2025 9:16:09 Type: QC
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.154**	**5.024**	**5.142**	**49.24**	**5.131**	**5.176**
Stddev	.008	.056	.010	.71	.009	.005
%RSD	.1561	1.105	.2004	1.452	.1769	.0885
#1	5.163	5.087	5.144	49.89	5.123	5.181
#2	5.152	5.005	5.131	49.36	5.129	5.171
#3	5.147	4.981	5.152	48.48	5.141	5.176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**690.73**	**8459.9**	**123900.**	**4778.2**
Stddev	4.03	41.3	797.	85.6
%RSD	.58288	.48814	.64308	1.7915
#1	686.19	8415.9	123010.	4711.0
#2	692.16	8466.1	124530.	4749.1
#3	693.86	8497.8	124170.	4874.6

Sample Name: ICV Ag Acquired: 8/15/2025 9:22:04 Type: QC
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208	-.1499	.0509	1.527	.0579	-.1355
Stddev	.0533	.1318	.1705	.556	.0412	.3256
%RSD	256.2	87.91	335.2	36.43	71.21	240.4
#1	.0719	-.0003	.1795	1.467	.1017	-.3041
#2	.0249	-.2005	.1156	1.003	.0521	-.3421
#3	-.0344	-.2490	-.1425	2.111	.0199	.2399
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	771.12	8719.0	126670.	4767.2
Stddev	8.92	18.2	489.	119.8
%RSD	1.1568	.20923	.38639	2.5122
#1	780.92	8727.1	126690.	4695.8
#2	763.46	8698.1	126170.	4905.5
#3	768.99	8731.7	127150.	4700.3

Sample Name: ICB Acquired: 8/15/2025 9:28:04 Type: QC
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0018**	**.0036**	**-.0039**	**.0430**	**-.0037**	**.0142**
Stddev	.0016	.0031	.0089	.0529	.0038	.0127
%RSD	90.99	85.72	229.5	123.2	103.3	88.97
#1	.0001	.0010	-.0128	.0051	-.0056	.0289
#2	-.0028	.0028	-.0039	.1034	.0007	.0065
#3	-.0027	.0071	.0051	.0203	-.0061	.0074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**763.41**	**8625.3**	**125850.**	**4733.2**
Stddev	7.57	19.6	251.	65.5
%RSD	.99174	.22722	.19983	1.3842
#1	758.25	8646.5	125710.	4702.1
#2	772.10	8621.7	125700.	4688.9
#3	759.87	8607.8	126140.	4808.4

Sample Name: CRI 148480 Acquired: 8/15/2025 9:34:04 Type: QC
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082	.1947	.0976	.9136	.0202	1.436
Stddev	.0005	.0104	.0023	.0407	.0004	.007
%RSD	10.75	5.316	2.387	4.460	2.161	.4946
#1	.0086	.2028	.0992	.9491	.0197	1.429
#2	.0077	.1831	.0987	.8691	.0205	1.443
#3	.0084	.1984	.0949	.9225	.0205	1.437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	767.40	8712.8	127360.	4745.7
Stddev	1.81	15.7	213.	22.1
%RSD	.23587	.18065	.16698	.46515
#1	767.65	8716.5	127480.	4768.7
#2	765.48	8726.3	127120.	4724.8
#3	769.08	8695.5	127490.	4743.5

Sample Name: ICSA 146315 Acquired: 8/15/2025 9:40:01 Type: QC
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0007**	**188.9**	**75.76**	**-.0266**	**181.9**	**.0871**
Stddev	.0014	2.3	.88	.0720	1.8	.0097
%RSD	203.0	1.208	1.162	270.6	.9949	11.20
#1	-.0019	189.8	76.02	.0565	183.1	.0843
#2	.0008	186.3	74.78	-.0710	179.8	.0979
#3	-.0010	190.6	76.49	-.0653	182.7	.0790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**652.56**	**7966.9**	**115770.**	**4585.6**
Stddev	6.80	22.7	571.	66.8
%RSD	1.0428	.28523	.49348	1.4559
#1	660.38	7948.8	115130.	4554.5
#2	649.29	7992.4	115920.	4662.2
#3	648.00	7959.5	116240.	4540.1

Sample Name: ICSAB 146308 Acquired: 8/15/2025 9:46:06 Type: QC
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4902	186.4	75.01	-.0357	179.4	.1101
Stddev	.0010	2.1	.89	.0648	1.8	.0003
%RSD	.2068	1.112	1.183	181.4	1.013	.2937
#1	.4895	185.3	74.38	.0328	178.5	.1098
#2	.4914	185.1	74.63	-.0960	178.2	.1101
#3	.4898	188.8	76.02	-.0440	181.5	.1104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	642.86	7803.6	114110.	4552.3
Stddev	2.90	9.0	143.	54.6
%RSD	.45148	.11560	.12542	1.1986
#1	646.14	7802.4	114200.	4588.8
#2	640.64	7813.2	113940.	4578.7
#3	641.78	7795.3	114180.	4489.6

Sample Name: CCV 158349 Acquired: 8/15/2025 9:52:06 Type: QC
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.018**	**10.09**	**10.20**	**10.03**	**10.07**	**10.01**
Stddev	.005	.04	.07	.04	.04	.04
%RSD	.1016	.3935	.6870	.3993	.3775	.4407
#1	5.016	10.12	10.26	9.999	10.11	10.06
#2	5.014	10.11	10.22	10.01	10.05	10.00
#3	5.023	10.05	10.12	10.07	10.04	9.976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**694.30**	**8347.2**	**123540.**	**4627.5**
Stddev	2.70	11.2	230.	23.2
%RSD	.38937	.13414	.18586	.50159
#1	693.60	8351.3	123590.	4600.8
#2	692.01	8334.5	123300.	4639.5
#3	697.28	8355.8	123750.	4642.4

Sample Name: CCB Acquired: 8/15/2025 9:58:00 Type: QC
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	-.0099	-.0004	.1159	-.0060	-.0003
Stddev	.0021	.0037	.0116	.0631	.0013	.0219
%RSD	281.3	37.45	2793.	54.46	21.31	7077.
#1	.0011	-.0063	-.0060	.1888	-.0070	-.0193
#2	-.0003	-.0098	-.0082	.0807	-.0046	.0236
#3	-.0030	-.0137	.0129	.0782	-.0064	-.0053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	753.30	8499.1	125310.	4697.0
Stddev	8.25	14.4	435.	51.4
%RSD	1.0952	.16997	.34725	1.0939
#1	748.53	8485.4	125420.	4699.1
#2	762.82	8497.7	125680.	4644.6
#3	748.54	8514.2	124830.	4747.3

Sample Name: MB 620-52116/1-A Acquired: 8/15/2025 11:37:48 Type: Unk
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.0003**	**-.0002**	**.0001**	**-.0001**	**-.0006**
Stddev	.0000	.0000	.0000	.0006	.0000	.0000
%RSD	78.75	15.26	8.573	722.9	14.67	4.928
#1	-.0000	-.0004	-.0003	.0007	-.0001	-.0005
#2	-.0000	-.0003	-.0002	-.0005	-.0001	-.0006
#3	-.0000	-.0003	-.0002	.0000	-.0001	-.0006

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**765.96**	**8797.0**	**126430.**	**4735.6**
Stddev	.95	16.8	291.	56.5
%RSD	.12385	.19059	.23056	1.1921
#1	764.90	8778.1	126100.	4761.6
#2	766.73	8810.1	126650.	4774.4
#3	766.25	8802.7	126530.	4670.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.96%	104.26%	102.41%	104.55%
Range				

Sample Name: LCS 620-52116/2-A Acquired: 8/15/2025 11:43:48 Type: Unk
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.387**	**4.247**	**1.345**	**13.80**	**1.443**	**4.189**
Stddev	.004	.032	.008	.04	.012	.027
%RSD	.2557	.7636	.6241	.2678	.8458	.6419
#1	1.383	4.214	1.340	13.82	1.451	4.218
#2	1.389	4.247	1.355	13.75	1.429	4.164
#3	1.390	4.279	1.340	13.81	1.448	4.184

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**749.14**	**8866.8**	**127730.**	**4883.8**
Stddev	6.19	48.4	1048.	40.9
%RSD	.82628	.54571	.82025	.83725
#1	743.59	8822.0	126670.	4931.1
#2	748.00	8860.3	127760.	4860.1
#3	755.82	8918.1	128760.	4860.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.70%	105.08%	103.46%	107.82%
Range				

Sample Name: 620-28600-C-1-A Acquired: 8/15/2025 11:49:37 Type: Unk
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	14.24	.5043	1.067	25.63	13.45
Stddev	.0012	.15	.0157	.036	.37	.16
%RSD	374.8	1.068	3.112	3.378	1.426	1.171
#1	.0004	14.42	.5225	1.104	26.03	13.63
#2	-.0009	14.14	.4948	1.063	25.30	13.32
#3	.0014	14.17	.4958	1.033	25.56	13.40

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	759.18	8851.5	128460.	5008.9
Stddev	13.94	18.6	110.	55.2
%RSD	1.8360	.21034	.08588	1.1030
#1	768.80	8872.5	128330.	4948.3
#2	743.19	8836.9	128500.	5056.4
#3	765.54	8845.2	128540.	5022.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.05%	104.90%	104.05%	110.58%
Range				

Sample Name: CCV 158349 Acquired: 8/15/2025 11:55:33 Type: QC
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.764**	**9.599**	W **9.178**	W **9.382**	**9.853**	**9.597**
Stddev	.005	.016	.046	.021	.008	.014
%RSD	.1161	.1647	.4994	.2181	.0846	.1499
#1	4.767	9.609	9.203	9.399	9.862	9.581
#2	4.767	9.581	9.125	9.389	9.852	9.609
#3	4.758	9.607	9.206	9.359	9.845	9.602
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass
Value			10.00	10.00		
Range			-5.000%	-5.000%		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**688.36**	**8476.9**	**123650.**	**4697.6**
Stddev	1.35	8.9	81.	15.4
%RSD	.19677	.10474	.06591	.32869
#1	689.16	8473.0	123620.	4680.6
#2	686.80	8470.6	123590.	4701.2
#3	689.13	8487.0	123750.	4710.9

Sample Name: CCB Acquired: 8/15/2025 12:01:26 Type: QC
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0028	-.0052	-.0033	.0358	-.0021	.0091
Stddev	.0011	.0072	.0074	.0292	.0014	.0095
%RSD	39.01	137.3	226.1	81.52	67.92	104.4
#1	-.0031	-.0071	.0053	.0686	-.0007	-.0001
#2	-.0038	-.0113	-.0080	.0126	-.0036	.0189
#3	-.0016	.0027	-.0071	.0262	-.0021	.0085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	754.61	8680.0	125890.	4690.7
Stddev	3.16	20.7	583.	19.3
%RSD	.41936	.23850	.46308	.41142
#1	756.59	8699.4	125320.	4682.5
#2	756.28	8658.2	126480.	4676.8
#3	750.96	8682.3	125870.	4712.7

Sample Name: 620-28600-C-1-B DU Acquired: 8/15/2025 12:07:26 Type: Unk
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	15.11	.5478	1.210	27.21	14.20
Stddev	.0005	.12	.0152	.038	.20	.18
%RSD	700.6	.7891	2.772	3.128	.7446	1.299
#1	.0005	15.23	.5522	1.232	27.43	14.40
#2	-.0005	15.09	.5603	1.232	27.13	14.15
#3	.0002	15.00	.5309	1.167	27.05	14.04

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	755.02	8779.6	127040.	4970.5
Stddev	1.47	22.6	224.	43.0
%RSD	.19463	.25706	.17656	.86507
#1	753.85	8803.4	127300.	4922.0
#2	754.54	8758.5	126880.	4985.2
#3	756.67	8776.9	126950.	5004.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.49%	104.05%	102.91%	109.73%
Range				

Sample Name: 620-28600-C-1-C MS Acquired: 8/15/2025 12:13:21 Type: Unk
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.485**	**21.14**	**2.026**	**15.94**	**31.59**	**20.21**
Stddev	.006	.40	.023	.02	.79	.48
%RSD	.3833	1.887	1.128	.1483	2.516	2.385
#1	1.490	21.32	2.006	15.94	31.65	20.29
#2	1.479	20.68	2.022	15.92	30.77	19.69
#3	1.486	21.42	2.051	15.97	32.35	20.65

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**721.37**	**8741.8**	**126470.**	**4928.3**
Stddev	3.67	12.9	207.	124.8
%RSD	.50945	.14744	.16369	2.5324
#1	725.46	8753.5	126480.	4902.3
#2	718.36	8743.8	126260.	5064.0
#3	720.27	8728.0	126680.	4818.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.969%	103.60%	102.44%	108.80%
Range				

Sample Name: 620-28577-M-4-A Acquired: 8/15/2025 12:42:59 Type: Unk
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0043**	**64.68**	**-.0071**	**2.639**	**10.30**	**24.14**
Stddev	.0016	1.11	.0053	.026	.18	.53
%RSD	38.57	1.723	74.82	.9737	1.720	2.192
#1	-.0041	65.27	-.0132	2.615	10.38	24.33
#2	-.0060	63.40	-.0054	2.666	10.10	23.54
#3	-.0027	65.38	-.0029	2.637	10.43	24.55

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**705.16**	**8252.9**	**118430.**	**4494.9**
Stddev	5.51	8.9	612.	87.9
%RSD	.78112	.10824	.51692	1.9558
#1	698.81	8243.0	117750.	4436.3
#2	707.98	8260.4	118580.	4596.0
#3	708.69	8255.4	118950.	4452.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.790%	97.809%	95.925%	99.236%
Range				

Sample Name: 620-28577-X-5-A Acquired: 8/15/2025 12:48:55 Type: Unk
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	7.035	.6425	1.107	10.52	57.08
Stddev	.0014	.044	.0112	.043	.12	.65
%RSD	191.3	.6272	1.742	3.853	1.149	1.141
#1	.0007	7.068	.6377	1.136	10.58	57.39
#2	-.0022	6.985	.6553	1.058	10.38	56.33
#3	-.0007	7.052	.6345	1.128	10.60	57.51

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	699.77	8418.8	119550.	4571.7
Stddev	1.14	31.4	604.	56.6
%RSD	.16308	.37279	.50517	1.2382
#1	700.63	8383.0	118870.	4527.4
#2	698.48	8431.9	120030.	4635.4
#3	700.21	8441.5	119750.	4552.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.066%	99.775%	96.837%	100.93%
Range				

Sample Name: 620-28577-R-6-A Acquired: 8/15/2025 12:54:53 Type: Unk
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0016**	**60.46**	**-.0025**	**1.264**	**10.83**	**40.78**
Stddev	.0007	.56	.0086	.034	.10	.44
%RSD	43.58	.9241	350.9	2.676	.9326	1.078
#1	-.0008	61.01	.0026	1.303	10.93	41.23
#2	-.0022	60.48	-.0124	1.245	10.83	40.76
#3	-.0017	59.90	.0025	1.243	10.73	40.35

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**692.77**	**8283.5**	**118040.**	**4483.4**
Stddev	1.31	8.2	354.	36.9
%RSD	.18887	.09949	.30011	.82249
#1	691.60	8283.4	118350.	4442.2
#2	694.18	8291.8	117660.	4494.7
#3	692.52	8275.3	118110.	4513.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.124%	98.171%	95.613%	98.981%
Range				

Sample Name: 620-28577-M-7-A Acquired: 8/15/2025 13:00:49 Type: Unk
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0036	-.0128	-.0185	.0446	-.0037	-.0076
Stddev	.0007	.0077	.0071	.0244	.0023	.0007
%RSD	18.20	60.52	38.36	54.77	61.89	9.377
#1	-.0028	-.0092	-.0105	.0622	-.0017	-.0070
#2	-.0039	-.0075	-.0212	.0167	-.0032	-.0074
#3	-.0040	-.0217	-.0239	.0548	-.0062	-.0084

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	752.11	8513.1	122200.	4542.4
Stddev	4.42	16.9	97.	23.0
%RSD	.58760	.19869	.07911	.50546
#1	755.81	8523.7	122270.	4549.8
#2	753.30	8521.9	122090.	4560.8
#3	747.21	8493.6	122250.	4516.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.10%	100.89%	98.984%	100.28%
Range				

Sample Name: CCV 158349 Acquired: 8/15/2025 13:06:50 Type: QC
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **4.743**	**9.565**	W **9.137**	W **9.390**	**9.771**	**9.565**
Stddev	.011	.037	.013	.083	.012	.003
%RSD	.2268	.3849	.1391	.8862	.1228	.0323
#1	4.753	9.541	9.140	9.487	9.760	9.566
#2	4.745	9.546	9.123	9.342	9.784	9.567
#3	4.731	9.607	9.147	9.343	9.768	9.561
Check ?	Chk Warn	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass
Value	5.000		10.00	10.00		
Range	-5.000%		-5.000%	-5.000%		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**677.05**	**8306.3**	**120660.**	**4540.3**
Stddev	1.71	9.5	248.	24.2
%RSD	.25243	.11492	.20536	.53287
#1	675.10	8297.9	120480.	4564.4
#2	678.29	8304.4	120940.	4516.1
#3	677.76	8316.7	120560.	4540.5

Sample Name: CCB Acquired: 8/15/2025 13:12:42 Type: QC
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0008**	**-.0002**	**.0019**	**-.0002**	**.0030**
Stddev	.0000	.0023	.0006	.0055	.0003	.0023
%RSD	16.33	275.2	349.7	297.6	149.9	77.10
#1	-.0001	.0013	-.0007	.0044	.0001	.0023
#2	-.0001	-.0032	.0005	.0057	-.0002	.0055
#3	-.0001	-.0006	-.0003	-.0045	-.0005	.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**740.82**	**8515.6**	**122630.**	**4539.9**
Stddev	10.92	45.9	234.	50.7
%RSD	1.4737	.53853	.19100	1.1164
#1	734.50	8465.9	122450.	4547.0
#2	753.43	8524.6	122540.	4586.6
#3	734.54	8556.3	122890.	4486.0

Sample Name: MB 620-52104/1-B Acquired: 8/15/2025 13:18:42 Type: Unk
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0010**	**-.0025**	**.0035**	**.0000**	**.0100**
Stddev	.0002	.0007	.0010	.0019	.0001	.0014
%RSD	79.98	68.43	38.38	54.66	187.8	13.55
#1	-.0000	.0006	-.0015	.0057	.0001	.0110
#2	-.0003	.0018	-.0035	.0020	-.0000	.0085
#3	-.0004	.0006	-.0025	.0028	.0001	.0105

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**760.27**	**8692.3**	**124560.**	**4695.8**
Stddev	8.93	23.0	486.	71.5
%RSD	1.1751	.26408	.39034	1.5218
#1	763.78	8718.8	124980.	4613.3
#2	766.91	8680.6	124670.	4737.6
#3	750.11	8677.6	124020.	4736.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.20%	103.02%	100.89%	103.67%
Range				

Sample Name: 620-28577-L-4-B Acquired: 8/15/2025 13:24:41 Type: Unk
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0028	64.35	-.0215	2.604	10.42	24.16
Stddev	.0012	.40	.0027	.078	.08	.14
%RSD	43.58	.6244	12.48	2.995	.7990	.5852
#1	-.0033	63.88	-.0187	2.518	10.32	23.99
#2	-.0014	64.57	-.0240	2.624	10.46	24.24
#3	-.0038	64.58	-.0219	2.670	10.47	24.23

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	702.40	8428.0	120200.	4567.3
Stddev	4.56	12.7	523.	26.2
%RSD	.64858	.15064	.43529	.57394
#1	700.81	8415.7	120190.	4594.9
#2	698.85	8427.2	119690.	4542.8
#3	707.54	8441.1	120730.	4564.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.419%	99.884%	97.366%	100.83%
Range				

Sample Name: 620-28577-W-5-B Acquired: 8/15/2025 13:30:36 Type: Unk
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0019**	**6.904**	**-.0181**	**1.115**	**10.43**	**57.74**
Stddev	.0019	.028	.0119	.035	.14	.92
%RSD	97.89	.4053	65.98	3.125	1.373	1.588
#1	.0002	6.935	-.0288	1.135	10.46	57.93
#2	-.0031	6.881	-.0203	1.075	10.28	56.75
#3	-.0028	6.896	-.0052	1.135	10.56	58.56

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**710.03**	**8572.4**	**120630.**	**4662.7**
Stddev	8.00	5.9	293.	80.8
%RSD	1.1274	.06901	.24270	1.7335
#1	719.22	8565.9	120310.	4656.4
#2	704.59	8577.4	120890.	4746.5
#3	706.28	8574.1	120670.	4585.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.445%	101.60%	97.709%	102.94%
Range				

Sample Name: 620-28577-Q-6-B Acquired: 8/15/2025 13:36:35 Type: Unk
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0018**	**58.04**	**-.0147**	**1.182**	**10.50**	**39.25**
Stddev	.0007	.49	.0054	.015	.07	.32
%RSD	41.56	.8464	36.68	1.251	.7079	.8276
#1	-.0010	58.49	-.0203	1.199	10.57	39.49
#2	-.0024	57.51	-.0096	1.174	10.43	38.88
#3	-.0021	58.11	-.0141	1.172	10.49	39.37

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**708.08**	**8557.6**	**121000.**	**4671.5**
Stddev	3.55	10.3	370.	55.1
%RSD	.50157	.12067	.30585	1.1800
#1	707.06	8569.5	120590.	4609.7
#2	705.16	8551.9	121110.	4715.7
#3	712.03	8551.3	121300.	4689.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.183%	101.42%	98.011%	103.13%
Range				

Sample Name: 620-28577-L-7-B Acquired: 8/15/2025 13:42:31 Type: Unk
Method: 20240718_NewIntStd(v104) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0019**	**.0790**	**-.0218**	**.0476**	**.0243**	**.0223**
Stddev	.0016	.0085	.0071	.0263	.0025	.0145
%RSD	82.55	10.72	32.72	55.41	10.40	65.05
#1	-.0030	.0877	-.0272	.0524	.0270	.0073
#2	-.0027	.0784	-.0244	.0191	.0219	.0362
#3	-.0001	.0708	-.0137	.0711	.0240	.0233

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**752.87**	**8731.9**	**123540.**	**4651.9**
Stddev	9.16	17.6	508.	53.6
%RSD	1.2165	.20142	.41146	1.1512
#1	763.44	8751.0	124080.	4708.1
#2	747.50	8728.3	123470.	4646.1
#3	747.67	8716.4	123070.	4601.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.20%	103.49%	100.07%	102.70%
Range				

Sample Name: LCSSRM 620-52096/2-A Acquired: 8/15/2025 18:28:25 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment: @5

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2766	8.338	12.54	4.294	5.530	.5886
Stddev	.0013	.063	.02	.046	.022	.0154
%RSD	.4761	.7566	.1506	1.066	.3912	2.624
#1	.2752	8.408	12.52	4.312	5.555	.5707
#2	.2778	8.320	12.56	4.328	5.519	.5974
#3	.2768	8.286	12.53	4.242	5.516	.5976

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	717.86	8909.1	122480.	4531.7
Stddev	2.22	17.3	492.	24.9
%RSD	.30982	.19385	.40193	.54908
#1	716.69	8889.2	121930.	4504.1
#2	716.46	8919.7	122880.	4538.4
#3	720.42	8918.4	122640.	4552.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.497%	105.59%	99.213%	100.05%
Range				

Sample Name: CCV 158349 Acquired: 8/15/2025 18:40:18 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.908**	**10.07**	W **9.146**	**10.01**	W **10.53**	**10.42**
Stddev	.004	.03	.045	.12	.04	.01
%RSD	.0732	.2643	.4914	1.196	.3361	.0919
#1	4.904	10.09	9.168	10.10	10.57	10.43
#2	4.910	10.07	9.175	10.05	10.50	10.42
#3	4.910	10.04	9.094	9.874	10.54	10.41
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Pass
Value			10.00		10.00	
Range			-5.000%		5.000%	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**668.35**	**8517.3**	**119440.**	**4430.0**
Stddev	1.39	9.5	33.	32.5
%RSD	.20862	.11113	.02750	.73432
#1	666.74	8520.9	119420.	4418.9
#2	669.07	8524.4	119470.	4404.4
#3	669.23	8506.6	119410.	4466.6

Sample Name: ccb Acquired: 8/15/2025 18:46:09 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**-.0011**	**-.0006**	**.0027**	**-.0003**	**.0017**
Stddev	.0001	.0004	.0005	.0054	.0002	.0008
%RSD	27.96	39.83	85.86	195.3	75.05	44.14
#1	-.0003	-.0016	-.0013	.0012	-.0002	.0011
#2	-.0002	-.0009	-.0003	.0087	-.0001	.0026
#3	-.0002	-.0008	-.0004	-.0017	-.0005	.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**740.53**	**8674.4**	**121510.**	**4446.8**
Stddev	12.55	4.9	184.	91.5
%RSD	1.6950	.05668	.15150	2.0576
#1	727.53	8676.1	121530.	4401.0
#2	752.57	8678.2	121690.	4552.2
#3	741.49	8668.8	121320.	4387.3

Sample Name: 620-28561-E-14-A@2 Acquired: 8/15/2025 18:52:09 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0695	11.14	63.91	8.471	21.99	1.059
Stddev	.0017	.08	.38	.086	.12	.016
%RSD	2.457	.7154	.5872	1.011	.5414	1.513
#1	.0714	11.22	64.34	8.542	22.13	1.044
#2	.0689	11.06	63.78	8.376	21.94	1.059
#3	.0681	11.14	63.63	8.493	21.91	1.076

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	718.11	8815.0	124630.	4627.3
Stddev	7.91	24.2	307.	31.7
%RSD	1.1022	.27473	.24661	.68554
#1	710.31	8787.1	124290.	4590.8
#2	717.88	8827.2	124720.	4642.6
#3	726.14	8830.7	124890.	4648.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.531%	104.47%	100.95%	102.16%
Range				

Sample Name: 620-28561-E-14-B DU Acquired: 8/15/2025 18:58:09 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment: @2

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0963	11.30	63.20	5.997	21.56	1.083
Stddev	.0014	.04	.15	.033	.01	.002
%RSD	1.408	.3978	.2321	.5448	.0248	.1605
#1	.0951	11.26	63.13	6.019	21.57	1.081
#2	.0959	11.30	63.10	5.959	21.56	1.085
#3	.0978	11.35	63.37	6.012	21.56	1.084

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	724.85	8846.7	125100.	4667.1
Stddev	4.67	12.9	443.	3.9
%RSD	.64428	.14527	.35438	.08376
#1	719.63	8835.5	124580.	4668.9
#2	726.26	8843.8	125370.	4669.9
#3	728.64	8860.7	125340.	4662.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.437%	104.85%	101.33%	103.04%
Range				

Sample Name: 620-28561-E-14-C MS Acquired: 8/15/2025 19:04:09 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment: @2

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7982	20.30	70.29	14.82	24.74	4.122
Stddev	.0051	.09	.26	.10	.07	.015
%RSD	.6402	.4363	.3678	.6463	.2675	.3580
#1	.7993	20.24	70.00	14.74	24.71	4.117
#2	.8026	20.40	70.49	14.80	24.82	4.110
#3	.7926	20.25	70.39	14.93	24.70	4.138

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	691.75	8684.4	122970.	4599.7
Stddev	3.37	12.7	314.	31.8
%RSD	.48757	.14678	.25536	.69211
#1	692.57	8685.2	123260.	4628.3
#2	694.64	8696.8	123010.	4605.3
#3	688.04	8671.4	122630.	4565.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.988%	102.92%	99.605%	101.55%
Range				

Sample Name: CCV 158349 Acquired: 8/15/2025 19:28:08 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.766**	**9.719**	W **9.088**	**9.709**	**10.04**	**10.01**
Stddev	.006	.033	.055	.104	.03	.05
%RSD	.1171	.3427	.6010	1.069	.3424	.5422
#1	4.772	9.684	9.146	9.828	10.08	10.07
#2	4.761	9.750	9.038	9.649	10.04	9.986
#3	4.764	9.723	9.078	9.648	10.01	9.973
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value			10.00			
Range			-5.000%			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**679.07**	**8500.4**	**121940.**	**4478.8**
Stddev	1.99	8.6	260.	15.1
%RSD	.29252	.10139	.21350	.33621
#1	677.69	8490.6	121660.	4465.5
#2	678.18	8506.6	121990.	4475.8
#3	681.35	8504.1	122180.	4495.2

Sample Name: CCB Acquired: 8/15/2025 19:34:01 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**-.0004**	**-.0003**	**.0049**	**-.0003**	**.0005**
Stddev	.0001	.0003	.0006	.0038	.0001	.0007
%RSD	27.71	79.17	222.4	77.60	43.66	150.6
#1	-.0002	-.0001	.0002	.0041	-.0002	-.0002
#2	-.0003	-.0008	-.0001	.0015	-.0004	.0012
#3	-.0004	-.0004	-.0009	.0090	-.0003	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**745.92**	**8606.2**	**122680.**	**4407.8**
Stddev	12.24	32.7	364.	46.9
%RSD	1.6411	.37996	.29708	1.0646
#1	732.23	8571.8	122310.	4461.1
#2	749.74	8609.8	123040.	4372.6
#3	755.81	8636.9	122700.	4389.8

Sample Name: 620-28561-E-2-A@2 Acquired: 8/15/2025 20:21:58 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0870	6.745	52.93	4.961	15.65	.7459
Stddev	.0017	.076	.52	.052	.16	.0101
%RSD	1.935	1.132	.9749	1.046	1.049	1.352
#1	.0872	6.790	53.19	5.020	15.79	.7561
#2	.0885	6.657	52.34	4.940	15.47	.7359
#3	.0851	6.788	53.27	4.923	15.68	.7457

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	732.03	8758.0	126310.	4577.8
Stddev	6.86	16.2	478.	40.2
%RSD	.93743	.18449	.37824	.87807
#1	737.55	8759.4	125830.	4595.7
#2	724.35	8741.1	126320.	4605.9
#3	734.19	8773.4	126790.	4531.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.402%	103.79%	102.32%	101.06%
Range				

Sample Name: 620-28561-E-3-A@2 Acquired: 8/15/2025 20:27:59 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0263	2.708	26.05	1.884	9.484	.4081
Stddev	.0013	.010	.07	.061	.013	.0067
%RSD	4.942	.3641	.2798	3.232	.1388	1.645
#1	.0263	2.716	26.01	1.877	9.469	.4153
#2	.0250	2.711	26.14	1.827	9.492	.4070
#3	.0277	2.697	26.01	1.948	9.492	.4020

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	741.04	8767.9	126120.	4548.0
Stddev	4.77	6.6	280.	18.9
%RSD	.64433	.07552	.22208	.41599
#1	740.30	8760.3	125870.	4535.7
#2	746.14	8772.7	126430.	4538.6
#3	736.67	8770.6	126070.	4569.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.613%	103.91%	102.16%	100.41%
Range				

Sample Name: 620-28561-E-4-A@2 Acquired: 8/15/2025 20:34:03 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0795	11.45	53.76	5.217	17.40	.8242
Stddev	.0012	.12	.34	.074	.17	.0250
%RSD	1.501	1.017	.6312	1.425	.9819	3.029
#1	.0809	11.58	54.14	5.302	17.59	.8274
#2	.0791	11.38	53.50	5.166	17.35	.7977
#3	.0786	11.38	53.64	5.182	17.25	.8473

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	724.44	8710.4	124730.	4573.8
Stddev	7.09	19.1	592.	7.1
%RSD	.97893	.21945	.47464	.15575
#1	724.52	8699.8	124050.	4569.8
#2	717.31	8732.5	125000.	4582.0
#3	731.49	8699.0	125150.	4569.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.382%	103.23%	101.03%	100.98%
Range				

Sample Name: CCV 158349 Acquired: 8/15/2025 20:40:04 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.945**	**10.10**	W **9.478**	**10.20**	**10.27**	**10.40**
Stddev	.005	.06	.015	.10	.05	.05
%RSD	.1082	.5545	.1553	.9456	.5084	.4342
#1	4.939	10.04	9.481	10.10	10.22	10.36
#2	4.949	10.15	9.462	10.21	10.32	10.45
#3	4.947	10.09	9.491	10.30	10.26	10.38
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value			10.00			
Range			-5.000%			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**683.78**	**8484.7**	**122030.**	**4423.8**
Stddev	2.03	11.9	515.	22.6
%RSD	.29688	.14018	.42178	.51195
#1	681.45	8482.2	121640.	4443.0
#2	684.74	8474.2	121840.	4398.9
#3	685.15	8497.6	122620.	4429.5

Sample Name: CCB Acquired: 8/15/2025 20:45:57 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0002	-.0013	.0003	-.0004	.0005
Stddev	.0000	.0004	.0011	.0069	.0002	.0019
%RSD	66.65	217.8	85.01	2622.	54.03	364.4
#1	.0001	-.0006	-.0024	.0047	-.0002	-.0014
#2	.0001	.0001	-.0003	.0038	-.0006	.0024
#3	.0000	.0000	-.0011	-.0077	-.0003	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	758.57	8599.6	116260.	4539.9
Stddev	1.85	28.1	13276.	105.0
%RSD	.24438	.32721	11.420	2.3133
#1	758.10	8567.2	100930.	4453.5
#2	760.62	8617.5	123580.	4509.5
#3	757.00	8614.2	124260.	4656.8

Sample Name: 620-28561-E-5-A@2 Acquired: 8/15/2025 20:51:56 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0274	7.420	33.29	2.589	12.03	.5342
Stddev	.0015	.025	.08	.061	.01	.0124
%RSD	5.618	.3434	.2409	2.369	.0668	2.323
#1	.0285	7.419	33.27	2.627	12.04	.5264
#2	.0280	7.395	33.23	2.518	12.03	.5277
#3	.0256	7.446	33.38	2.620	12.03	.5485

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	727.48	8740.2	125500.	4617.4
Stddev	6.84	30.3	434.	16.2
%RSD	.94026	.34626	.34562	.34981
#1	722.07	8705.2	125030.	4626.6
#2	725.20	8756.7	125590.	4626.8
#3	735.17	8758.6	125880.	4598.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.791%	103.58%	101.65%	101.94%
Range				

Sample Name: 620-28561-E-7-A@2 Acquired: 8/15/2025 20:57:59 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0186	4.003	27.20	2.760	10.51	1.196
Stddev	.0011	.067	.13	.009	.12	.006
%RSD	6.071	1.677	.4627	.3113	1.141	.5427
#1	.0188	4.076	27.35	2.768	10.65	1.191
#2	.0174	3.944	27.14	2.751	10.43	1.203
#3	.0197	3.989	27.12	2.761	10.44	1.194

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	745.49	8792.8	126090.	4636.3
Stddev	6.35	4.4	379.	48.9
%RSD	.85243	.05043	.30077	1.0541
#1	739.80	8787.8	125680.	4580.1
#2	744.31	8794.1	126430.	4668.6
#3	752.35	8796.4	126160.	4660.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.21%	104.21%	102.14%	102.36%
Range				

Sample Name: 620-28561-E-8-A@2 Acquired: 8/15/2025 21:04:01 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0291	6.254	29.17	1.875	12.09	1.668
Stddev	.0018	.022	.23	.030	.09	.008
%RSD	6.238	.3535	.7761	1.623	.7643	.5042
#1	.0305	6.258	29.43	1.910	12.20	1.669
#2	.0296	6.230	29.04	1.861	12.04	1.675
#3	.0270	6.274	29.03	1.854	12.04	1.659

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	740.49	8712.2	125480.	4552.7
Stddev	15.72	28.0	86.	49.5
%RSD	2.1225	.32148	.06860	1.0872
#1	722.49	8685.7	125580.	4608.6
#2	747.54	8709.4	125430.	4514.4
#3	751.45	8741.5	125440.	4535.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.540%	103.25%	101.64%	100.51%
Range				

Sample Name: 620-28561-E-9-A@2 Acquired: 8/15/2025 21:10:03 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4311	8.187	70.16	4.969	18.02	.7908
Stddev	.0005	.231	1.97	.139	.46	.0348
%RSD	.1187	2.820	2.805	2.803	2.540	4.402
#1	.4315	8.452	72.43	5.125	18.55	.8280
#2	.4305	8.078	68.98	4.927	17.75	.7854
#3	.4313	8.031	69.07	4.856	17.77	.7590

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	732.04	8763.0	126330.	4588.9
Stddev	8.77	19.2	648.	60.1
%RSD	1.1975	.21895	.51282	1.3097
#1	740.03	8748.2	125580.	4519.6
#2	722.66	8756.2	126690.	4627.6
#3	733.41	8784.7	126710.	4619.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.403%	103.85%	102.33%	101.31%
Range				

Sample Name: 620-28561-E-10-A@2 Acquired: 8/15/2025 21:16:03 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1762	59.88	51.96	5.396	17.88	.9886
Stddev	.0011	.93	.93	.111	.39	.0346
%RSD	.6419	1.555	1.783	2.059	2.193	3.496
#1	.1773	59.20	51.73	5.293	17.66	.9615
#2	.1763	60.94	52.98	5.513	18.34	1.028
#3	.1750	59.50	51.17	5.382	17.66	.9769

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	725.58	8694.5	123990.	4585.1
Stddev	9.79	85.9	3614.	60.4
%RSD	1.3491	.98824	2.9146	1.3182
#1	729.73	8793.5	126380.	4614.4
#2	732.61	8640.3	119830.	4515.6
#3	714.40	8649.5	125760.	4625.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.535%	103.04%	100.43%	101.23%
Range				

Sample Name: 620-28561-E-13-A@2 Acquired: 8/15/2025 21:22:03 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0792	11.62	64.82	5.696	20.31	.9125
Stddev	.0008	.11	.39	.075	.07	.0081
%RSD	.9766	.9339	.5991	1.320	.3676	.8829
#1	.0796	11.60	64.55	5.660	20.27	.9178
#2	.0797	11.73	65.27	5.782	20.40	.9164
#3	.0783	11.52	64.65	5.646	20.27	.9032

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	722.15	8715.4	125570.	4593.4
Stddev	1.81	19.8	1007.	50.8
%RSD	.25074	.22751	.80176	1.1060
#1	722.45	8705.3	126320.	4609.9
#2	720.21	8738.3	125970.	4536.4
#3	723.79	8702.8	124430.	4633.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.074%	103.29%	101.72%	101.41%
Range				

Sample Name: CCV 158349 Acquired: 8/15/2025 21:51:56 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.766**	**9.682**	W **9.181**	**9.934**	**9.799**	**10.04**
Stddev	.013	.116	.043	.094	.073	.07
%RSD	.2767	1.196	.4708	.9426	.7436	.7058
#1	4.781	9.549	9.135	9.827	9.720	9.958
#2	4.759	9.758	9.187	9.971	9.863	10.10
#3	4.757	9.739	9.220	10.00	9.816	10.05
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value			10.00			
Range			-5.000%			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**676.97**	**8331.8**	**121010.**	**4374.2**
Stddev	.81	4.4	290.	43.7
%RSD	.12017	.05249	.23964	.99842
#1	677.07	8327.0	120800.	4423.6
#2	677.73	8332.6	120880.	4340.9
#3	676.11	8335.7	121340.	4358.0

Sample Name: CCB Acquired: 8/15/2025 21:57:48 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0000	-.0009	-.0011	.0008	-.0002	.0009
Stddev	.0001	.0007	.0003	.0064	.0001	.0007
%RSD	485.9	71.92	27.85	805.6	39.12	80.91
#1	.0001	-.0004	-.0013	.0029	-.0002	.0002
#2	.0000	-.0017	-.0012	-.0064	-.0002	.0016
#3	-.0002	-.0007	-.0008	.0058	-.0003	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	759.08	8502.7	122130.	4412.5
Stddev	7.39	18.5	1705.	43.8
%RSD	.97299	.21764	1.3962	.99302
#1	751.23	8481.5	120180.	4381.1
#2	765.90	8515.1	122880.	4394.0
#3	760.11	8511.6	123330.	4462.6

Sample Name: CCV 158349 Acquired: 8/15/2025 23:03:28 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.962**	**10.12**	W **9.495**	W **10.52**	**10.12**	W **10.95**
Stddev	.009	.05	.048	.05	.01	.11
%RSD	.1757	.4774	.5027	.4435	.1329	1.001
#1	4.953	10.16	9.466	10.57	10.13	11.07
#2	4.962	10.13	9.469	10.49	10.13	10.92
#3	4.970	10.07	9.550	10.50	10.10	10.85
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Warn
Value			10.00	10.00		10.00
Range			-5.000%	5.000%		5.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**679.19**	**8303.4**	**120990.**	**4262.9**
Stddev	2.08	20.3	414.	13.0
%RSD	.30606	.24469	.34242	.30587
#1	681.52	8326.4	121430.	4263.7
#2	678.52	8295.6	120930.	4275.5
#3	677.53	8288.0	120610.	4249.5

Sample Name: CCB Acquired: 8/15/2025 23:09:22 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0002**	**-.0006**	**.0078**	**-.0003**	**.0284**
Stddev	.0001	.0022	.0005	.0081	.0002	.0036
%RSD	85.75	1101.	79.96	103.4	73.06	12.74
#1	-.0000	.0019	-.0008	.0062	-.0002	.0324
#2	-.0002	-.0001	-.0010	.0165	-.0006	.0277
#3	-.0002	-.0025	-.0001	.0007	-.0001	.0252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**732.74**	**8418.1**	**121880.**	**4175.4**
Stddev	2.72	15.0	216.	29.7
%RSD	.37066	.17813	.17695	.71124
#1	731.33	8403.6	121790.	4208.0
#2	735.87	8433.6	122130.	4168.2
#3	731.02	8417.0	121730.	4149.9

Sample Name: MB 620-52119/1-A Acquired: 8/15/2025 23:45:57 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.0003**	**.0006**	**.0007**	**.0000**	**.0059**
Stddev	.0000	.0001	.0001	.0008	.0000	.0013
%RSD	68.72	20.45	23.32	107.4	224.2	22.12
#1	-.0000	-.0002	.0005	.0006	-.0000	.0073
#2	-.0000	-.0003	.0005	-.0000	.0000	.0057
#3	-.0000	-.0003	.0007	.0015	-.0000	.0047

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**788.55**	**8822.0**	**131680.**	**4451.9**
Stddev	9.04	56.6	295.	67.2
%RSD	1.1470	.64198	.22425	1.5102
#1	787.18	8764.6	131420.	4426.4
#2	780.26	8823.6	131620.	4528.2
#3	798.20	8877.9	132000.	4401.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	106.00%	104.55%	106.66%	98.286%
Range				

Sample Name: LCSSRM 620-52119/2-A Acquired: 8/15/2025 23:52:00 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment: @5

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2359	6.504	10.93	3.831	4.247	.8029
Stddev	.0013	.031	.05	.074	.002	.0308
%RSD	.5702	.4735	.4412	1.923	.0533	3.831
#1	.2367	6.514	10.94	3.796	4.249	.8364
#2	.2368	6.528	10.88	3.781	4.248	.7965
#3	.2344	6.469	10.98	3.915	4.244	.7759

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	731.30	8558.7	124400.	4285.5
Stddev	5.27	11.4	351.	37.2
%RSD	.72058	.13374	.28200	.86906
#1	736.23	8571.9	124070.	4254.6
#2	725.75	8553.1	124370.	4274.9
#3	731.92	8551.2	124770.	4326.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.304%	101.43%	100.77%	94.611%
Range				

Sample Name: LCS 620-52119/3-A Acquired: 8/15/2025 23:57:56 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.337	4.081	1.307	14.45	1.349	4.514
Stddev	.004	.045	.004	.05	.010	.035
%RSD	.3105	1.100	.3374	.3658	.7331	.7657
#1	1.332	4.105	1.306	14.49	1.345	4.507
#2	1.339	4.109	1.312	14.48	1.360	4.552
#3	1.340	4.030	1.303	14.39	1.342	4.484

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	764.84	8869.0	131960.	4543.5
Stddev	3.17	17.5	528.	109.6
%RSD	.41417	.19782	.39985	2.4114
#1	761.40	8848.9	131390.	4455.1
#2	767.62	8877.0	132430.	4509.2
#3	765.51	8881.1	132080.	4666.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.81%	105.11%	106.89%	100.31%
Range				

Sample Name: CCV 158349 Acquired: 8/16/2025 0:15:44 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.998**	**10.08**	W **9.389**	W **10.77**	**9.981**	W **10.88**
Stddev	.006	.13	.056	.02	.087	.16
%RSD	.1156	1.261	.5991	.2157	.8686	1.441
#1	4.992	9.936	9.331	10.74	9.888	10.70
#2	5.004	10.12	9.393	10.78	9.996	10.94
#3	4.998	10.18	9.443	10.78	10.06	11.00
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Warn
Value			10.00	10.00		10.00
Range			-5.000%	5.000%		5.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**673.82**	**8218.5**	**119720.**	**4116.1**
Stddev	1.82	32.7	615.	59.0
%RSD	.26978	.39760	.51405	1.4332
#1	675.89	8254.2	120420.	4183.1
#2	672.48	8190.1	119460.	4093.4
#3	673.10	8211.0	119270.	4071.8

Sample Name: CCB Acquired: 8/16/2025 0:21:38 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0007**	**-.0008**	**.0097**	**-.0001**	**.0131**
Stddev	.0002	.0006	.0007	.0032	.0001	.0019
%RSD	115.3	89.77	86.39	33.22	83.28	14.30
#1	.0001	-.0014	-.0014	.0077	-.0002	.0135
#2	-.0004	-.0004	-.0001	.0080	-.0001	.0111
#3	-.0003	-.0002	-.0008	.0134	-.0001	.0148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**733.76**	**8355.4**	**121830.**	**4132.0**
Stddev	6.57	23.3	177.	82.2
%RSD	.89490	.27893	.14538	1.9901
#1	726.57	8333.8	121790.	4122.6
#2	735.26	8352.3	121680.	4054.9
#3	739.44	8380.1	122030.	4218.5

Sample Name: 620-28561-E-2-B@2 Acquired: 8/16/2025 0:45:32 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0812	6.606	48.06	4.641	13.83	.8024
Stddev	.0014	.044	.03	.043	.07	.0290
%RSD	1.705	.6723	.0523	.9225	.4790	3.615
#1	.0826	6.573	48.09	4.681	13.78	.8355
#2	.0812	6.657	48.05	4.596	13.90	.7814
#3	.0798	6.589	48.05	4.646	13.80	.7903

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	738.77	8705.7	127560.	4325.2
Stddev	3.83	8.9	336.	12.4
%RSD	.51853	.10254	.26332	.28689
#1	736.85	8695.9	127380.	4322.9
#2	743.18	8713.3	127940.	4314.2
#3	736.27	8708.1	127340.	4338.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.308%	103.18%	103.32%	95.490%
Range				

Sample Name: 620-28561-E-2-C DU Acquired: 8/16/2025 0:51:35 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment: @2

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0843	6.316	52.28	9.613	17.11	.7752
Stddev	.0010	.103	.24	.039	.15	.0143
%RSD	1.175	1.630	.4532	.4038	.8813	1.839
#1	.0849	6.205	52.06	9.570	16.93	.7634
#2	.0848	6.335	52.24	9.643	17.20	.7910
#3	.0832	6.408	52.53	9.628	17.19	.7711

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	726.88	8557.3	125500.	4235.5
Stddev	1.23	19.7	184.	33.4
%RSD	.16867	.23077	.14628	.78763
#1	728.13	8568.4	125470.	4271.3
#2	725.68	8534.5	125690.	4229.9
#3	726.83	8568.9	125330.	4205.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.710%	101.42%	101.65%	93.509%
Range				

Sample Name: 620-28561-E-2-D MS Acquired: 8/16/2025 0:57:38 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment: @2

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6234	10.54	46.26	11.69	14.41	2.914
Stddev	.0006	.09	.22	.03	.05	.007
%RSD	.1042	.8624	.4852	.2883	.3619	.2573
#1	.6227	10.57	46.35	11.70	14.41	2.913
#2	.6239	10.44	46.01	11.71	14.36	2.907
#3	.6237	10.61	46.44	11.65	14.46	2.922

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	726.28	8617.6	126090.	4222.9
Stddev	5.43	30.6	529.	19.4
%RSD	.74828	.35478	.41986	.45859
#1	728.16	8607.0	125480.	4210.4
#2	720.16	8593.7	126340.	4245.2
#3	730.53	8652.0	126440.	4213.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.630%	102.13%	102.13%	93.229%
Range				

Sample Name: 620-28561-E-3-B@2 Acquired: 8/16/2025 1:03:37 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0244	2.988	25.66	1.932	9.161	.4676
Stddev	.0012	.026	.08	.057	.008	.0139
%RSD	4.814	.8566	.2968	2.968	.0856	2.980
#1	.0257	3.007	25.74	1.989	9.153	.4693
#2	.0238	2.959	25.63	1.933	9.160	.4529
#3	.0236	2.999	25.60	1.874	9.169	.4806

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	723.75	8436.0	123270.	4144.6
Stddev	3.70	13.7	305.	57.0
%RSD	.51114	.16206	.24762	1.3758
#1	727.84	8420.2	122920.	4093.5
#2	720.63	8444.4	123440.	4206.1
#3	722.78	8443.5	123460.	4134.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.289%	99.979%	99.853%	91.501%
Range				

Sample Name: 620-28561-E-4-B@2 Acquired: 8/16/2025 1:09:43 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0957	9.166	52.78	5.363	14.50	.9899
Stddev	.0016	.197	1.07	.102	.28	.0337
%RSD	1.641	2.144	2.023	1.896	1.955	3.406
#1	.0966	9.364	54.01	5.478	14.81	1.029
#2	.0967	9.163	52.22	5.286	14.44	.9677
#3	.0939	8.971	52.12	5.325	14.25	.9732

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	738.70	8538.8	125420.	4171.4
Stddev	13.75	41.0	1020.	89.3
%RSD	1.8610	.48032	.81334	2.1400
#1	722.84	8491.5	124250.	4083.2
#2	746.07	8560.7	125870.	4169.1
#3	747.19	8564.3	126140.	4261.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.299%	101.20%	101.59%	92.092%
Range				

Sample Name: 620-28561-E-5-B@2 Acquired: 8/16/2025 1:15:46 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0277	15.11	31.73	2.738	11.19	1.103
Stddev	.0013	.09	.10	.008	.09	.021
%RSD	4.623	.5848	.3135	.2829	.8378	1.936
#1	.0278	15.18	31.81	2.744	11.28	1.105
#2	.0290	15.13	31.62	2.740	11.20	1.081
#3	.0264	15.01	31.74	2.729	11.09	1.124

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	733.40	8433.6	123160.	4154.6
Stddev	10.33	26.5	464.	34.0
%RSD	1.4082	.31447	.37641	.81830
#1	721.64	8403.5	123150.	4116.9
#2	741.03	8443.6	122700.	4164.2
#3	737.51	8453.6	123620.	4182.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.586%	99.950%	99.759%	91.723%
Range				

Sample Name: 620-28561-E-7-B@2 Acquired: 8/16/2025 1:21:50 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0748	7.034	42.15	4.464	11.84	2.595
Stddev	.0012	.021	.16	.035	.07	.013
%RSD	1.611	.2926	.3859	.7893	.5600	.5103
#1	.0744	7.052	41.98	4.462	11.77	2.606
#2	.0761	7.039	42.31	4.501	11.89	2.598
#3	.0738	7.012	42.18	4.430	11.87	2.580

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	728.83	8523.9	126720.	4249.9
Stddev	12.92	37.0	1682.	11.2
%RSD	1.7729	.43425	1.3272	.26381
#1	719.96	8481.9	128660.	4242.5
#2	743.66	8552.0	125660.	4244.4
#3	722.88	8537.7	125850.	4262.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.973%	101.02%	102.65%	93.827%
Range				

Sample Name: CCV 158349 Acquired: 8/16/2025 1:27:51 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.015	10.16	9.526	10.06	9.864	10.13
Stddev	.013	.03	.048	.04	.016	.04
%RSD	.2532	.2761	.5022	.3392	.1652	.3909
#1	5.004	10.14	9.520	10.03	9.882	10.11
#2	5.013	10.16	9.577	10.10	9.862	10.18
#3	5.029	10.19	9.482	10.06	9.849	10.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	660.37	7989.9	118290.	3924.5
Stddev	2.74	35.6	486.	13.6
%RSD	.41431	.44501	.41101	.34638
#1	663.24	8028.0	118720.	3922.2
#2	657.79	7984.2	118390.	3939.1
#3	660.09	7957.5	117760.	3912.2

Sample Name: CCB Acquired: 8/16/2025 1:33:43 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0000	-.0008	-.0000	.0026	-.0004	.0086
Stddev	.0001	.0006	.0006	.0041	.0001	.0007
%RSD	4366.	74.08	7632.	159.3	38.04	7.775
#1	.0000	-.0002	.0000	.0073	-.0004	.0087
#2	.0001	-.0008	-.0006	.0001	-.0004	.0093
#3	-.0001	-.0014	.0005	.0004	-.0002	.0079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	729.43	8085.0	119210.	3937.5
Stddev	13.40	18.0	234.	109.9
%RSD	1.8366	.22301	.19618	2.7907
#1	731.35	8097.2	119450.	3893.2
#2	741.76	8093.6	118980.	3856.7
#3	715.17	8064.3	119210.	4062.7

Sample Name: 620-28561-E-8-B@2 Acquired: 8/16/2025 1:39:44 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0374	7.407	37.65	2.505	13.90	1.877
Stddev	.0011	.010	.03	.044	.02	.010
%RSD	3.035	.1320	.0803	1.746	.1157	.5264
#1	.0386	7.412	37.68	2.550	13.89	1.866
#2	.0364	7.415	37.65	2.504	13.92	1.880
#3	.0372	7.396	37.62	2.462	13.90	1.886

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	735.57	8396.6	124110.	4196.9
Stddev	6.09	15.5	141.	3.6
%RSD	.82755	.18496	.11343	.08531
#1	736.28	8382.9	123990.	4196.4
#2	729.17	8413.5	124080.	4193.6
#3	741.28	8393.3	124260.	4200.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.879%	99.512%	100.53%	92.656%
Range				

Sample Name: 620-28561-E-9-B@2 Acquired: 8/16/2025 1:45:46 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2984	8.538	47.81	5.755	13.45	1.036
Stddev	.0021	.009	.11	.062	.05	.010
%RSD	.6911	.1074	.2270	1.085	.4069	.9332
#1	.3001	8.534	47.80	5.822	13.50	1.034
#2	.2961	8.549	47.71	5.744	13.46	1.028
#3	.2989	8.532	47.93	5.698	13.39	1.047

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	738.46	8505.4	126150.	4200.8
Stddev	9.94	11.9	11.	6.1
%RSD	1.3466	.13932	.00839	.14479
#1	743.02	8500.2	126140.	4198.2
#2	727.06	8497.1	126160.	4196.5
#3	745.31	8519.0	126150.	4207.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.267%	100.80%	102.19%	92.742%
Range				

Sample Name: 620-28561-E-10-B@2 Acquired: 8/16/2025 1:51:49 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2307	24.94	55.92	6.445	16.81	1.080
Stddev	.0018	.11	.25	.074	.10	.009
%RSD	.7843	.4252	.4512	1.151	.5789	.8249
#1	.2328	24.86	55.77	6.524	16.79	1.089
#2	.2294	25.06	56.21	6.376	16.92	1.078
#3	.2300	24.90	55.77	6.434	16.73	1.071

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	762.97	8737.4	130830.	4494.7
Stddev	7.93	38.3	221.	11.0
%RSD	1.0392	.43828	.16914	.24500
#1	754.08	8700.6	130580.	4482.5
#2	765.53	8734.5	131000.	4497.5
#3	769.31	8777.0	130920.	4503.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.56%	103.55%	105.98%	99.230%
Range				

Sample Name: 620-28561-E-13-B@2 Acquired: 8/16/2025 1:57:52 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0724	13.30	62.97	6.972	19.45	1.161
Stddev	.0007	.17	.64	.013	.15	.005
%RSD	1.015	1.299	1.016	.1828	.7645	.4286
#1	.0718	13.48	63.71	6.986	19.62	1.156
#2	.0732	13.14	62.62	6.961	19.35	1.161
#3	.0722	13.27	62.58	6.968	19.37	1.166

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	750.91	8747.0	131320.	4504.5
Stddev	9.20	34.3	633.	45.8
%RSD	1.2251	.39175	.48214	1.0172
#1	741.01	8707.5	130600.	4459.0
#2	752.52	8768.0	131790.	4550.6
#3	759.19	8765.6	131570.	4504.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.94%	103.67%	106.37%	99.448%
Range				

Sample Name: 620-28561-E-14-D@2 Acquired: 8/16/2025 2:03:54 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0477	7.001	42.86	4.413	13.40	.8196
Stddev	.0002	.072	.13	.046	.10	.0136
%RSD	.4898	1.030	.2980	1.049	.7307	1.657
#1	.0477	7.022	42.74	4.393	13.45	.8119
#2	.0475	6.920	42.86	4.381	13.28	.8115
#3	.0480	7.059	42.99	4.467	13.46	.8352

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	770.64	8775.6	131270.	4466.9
Stddev	12.44	13.2	502.	50.4
%RSD	1.6144	.15058	.38265	1.1280
#1	774.93	8766.4	130940.	4461.6
#2	780.36	8790.7	131850.	4519.7
#3	756.62	8769.6	131020.	4419.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.59%	104.00%	106.33%	98.617%
Range				

Sample Name: 620-28561-E-15-A@2 Acquired: 8/16/2025 2:09:57 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0694	16.12	59.46	7.997	18.00	1.456
Stddev	.0033	.08	.39	.048	.10	.017
%RSD	4.798	.5226	.6624	.6015	.5385	1.165
#1	.0704	16.21	59.90	8.051	18.12	1.472
#2	.0721	16.09	59.34	7.981	17.94	1.456
#3	.0656	16.05	59.14	7.958	17.96	1.438

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	746.29	8756.9	131950.	4516.8
Stddev	9.27	36.1	268.	18.8
%RSD	1.2417	.41176	.20293	.41574
#1	741.45	8715.5	131640.	4495.3
#2	740.45	8781.5	132130.	4525.2
#3	756.98	8773.7	132070.	4530.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.32%	103.78%	106.88%	99.719%
Range				

Sample Name: 620-28561-E-16-A@2 Acquired: 8/16/2025 2:16:00 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0160	3.739	19.03	1.972	6.656	.3844
Stddev	.0012	.063	.23	.050	.038	.0053
%RSD	7.320	1.672	1.211	2.524	.5738	1.387
#1	.0151	3.805	19.29	1.995	6.699	.3873
#2	.0173	3.681	18.88	1.915	6.628	.3875
#3	.0156	3.730	18.92	2.007	6.640	.3782

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	778.05	8782.2	132030.	4587.9
Stddev	8.73	25.1	880.	80.5
%RSD	1.1220	.28577	.66629	1.7552
#1	787.93	8758.0	131240.	4497.3
#2	771.39	8780.5	131860.	4651.3
#3	774.83	8808.1	132980.	4615.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	104.59%	104.08%	106.94%	101.29%
Range				

Sample Name: 620-28561-E-20-A@2 Acquired: 8/16/2025 2:22:06 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0292	5.096	39.75	3.944	11.09	5.286
Stddev	.0011	.072	.24	.029	.14	.048
%RSD	3.857	1.413	.6095	.7323	1.306	.9079
#1	.0299	5.179	39.93	3.956	11.23	5.341
#2	.0279	5.064	39.47	3.911	11.09	5.251
#3	.0299	5.046	39.84	3.966	10.94	5.267

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	756.18	8600.3	130170.	4387.4
Stddev	10.47	18.0	143.	65.3
%RSD	1.3842	.20919	.10995	1.4873
#1	749.94	8580.4	130000.	4315.8
#2	750.33	8605.1	130220.	4402.8
#3	768.26	8615.5	130280.	4443.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.65%	101.93%	105.44%	96.861%
Range				

Sample Name: 620-28561-E-21-A@2 Acquired: 8/16/2025 2:28:10 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0321	5.207	29.33	3.300	9.358	.4324
Stddev	.0021	.105	.41	.059	.065	.0163
%RSD	6.508	2.025	1.410	1.784	.6958	3.775
#1	.0333	5.321	29.73	3.367	9.421	.4475
#2	.0333	5.186	29.35	3.258	9.362	.4347
#3	.0297	5.114	28.90	3.275	9.291	.4151

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	776.68	8639.0	131200.	4492.5
Stddev	4.47	21.3	429.	92.1
%RSD	.57533	.24620	.32733	2.0496
#1	776.06	8619.7	130740.	4407.0
#2	772.56	8635.4	131580.	4480.6
#3	781.43	8661.8	131290.	4590.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	104.40%	102.38%	106.28%	99.183%
Range				

Sample Name: MB 620-52120/1-A Acquired: 8/16/2025 2:34:14 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0000	-.0003	.0002	.0006	-.0000	-.0003
Stddev	.0000	.0001	.0001	.0003	.0000	.0002
%RSD	10.04	23.06	57.31	47.21	45.25	44.99
#1	-.0000	-.0004	.0002	.0009	-.0000	-.0003
#2	-.0000	-.0003	.0001	.0007	-.0001	-.0005
#3	-.0000	-.0002	.0002	.0003	-.0000	-.0002

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	820.67	8849.7	137250.	4512.0
Stddev	2.65	37.5	358.	24.1
%RSD	.32240	.42321	.26081	.53326
#1	819.41	8812.7	136880.	4503.6
#2	818.90	8848.9	137600.	4493.3
#3	823.71	8887.6	137270.	4539.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	110.32%	104.88%	111.17%	99.613%
Range				

Sample Name: CCV 158349 Acquired: 8/16/2025 2:40:17 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.981**	**9.888**	W **9.417**	W **10.98**	W **9.417**	W **10.81**
Stddev	.014	.020	.058	.02	.030	.02
%RSD	.2826	.2062	.6190	.2099	.3169	.1620
#1	4.992	9.891	9.350	10.95	9.384	10.82
#2	4.965	9.906	9.457	10.99	9.443	10.79
#3	4.986	9.866	9.445	10.99	9.422	10.82
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Warn	Chk Warn
Value			10.00	10.00	10.00	10.00
Range			-5.000%	5.000%	-5.000%	5.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**700.87**	**8240.9**	**125250.**	**4231.2**
Stddev	3.17	17.2	246.	2.0
%RSD	.45288	.20914	.19627	.04621
#1	697.81	8235.6	125240.	4230.6
#2	704.15	8260.1	125500.	4229.7
#3	700.65	8226.8	125010.	4233.4

Sample Name: CCB Acquired: 8/16/2025 2:46:08 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.0007**	**-.0004**	**.0056**	**-.0001**	**.0030**
Stddev	.0000	.0011	.0015	.0051	.0003	.0014
%RSD	113.6	155.4	410.0	90.03	184.2	45.77
#1	-.0000	-.0019	.0003	.0101	-.0004	.0044
#2	.0000	.0004	.0007	.0067	.0001	.0028
#3	-.0000	-.0008	-.0021	.0001	-.0001	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**771.96**	**8425.9**	**127100.**	**4247.1**
Stddev	8.35	11.7	619.	100.1
%RSD	1.0823	.13847	.48704	2.3562
#1	769.73	8412.4	126390.	4155.0
#2	764.95	8433.3	127540.	4232.7
#3	781.20	8431.9	127370.	4353.6

Sample Name: LCSSRM 620-52120/2-A Acquired: 8/16/2025 2:52:10 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment: @5

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2689	7.495	13.41	4.448	4.623	.5686
Stddev	.0010	.104	.01	.075	.005	.0117
%RSD	.3659	1.387	.0623	1.687	.1093	2.053
#1	.2700	7.443	13.40	4.534	4.619	.5695
#2	.2682	7.428	13.41	4.417	4.621	.5797
#3	.2685	7.615	13.42	4.393	4.628	.5565

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	753.63	8516.5	128820.	4343.7
Stddev	2.79	6.7	136.	45.7
%RSD	.37044	.07878	.10523	1.0517
#1	750.85	8510.0	128660.	4367.4
#2	756.43	8523.4	128870.	4372.7
#3	753.62	8516.1	128920.	4291.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.31%	100.93%	104.34%	95.898%
Range				

Sample Name: 620-28553-F-1-B@2 Acquired: 8/16/2025 2:58:08 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0646	14.90	151.4	15.16	43.47	1.828
Stddev	.0009	.36	3.5	.31	.77	.034
%RSD	1.386	2.399	2.311	2.054	1.778	1.883
#1	.0643	14.51	147.6	14.80	42.64	1.796
#2	.0638	14.99	152.3	15.38	43.61	1.864
#3	.0656	15.22	154.4	15.29	44.16	1.823

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	734.77	8541.9	129540.	4482.6
Stddev	13.56	27.1	527.	91.2
%RSD	1.8450	.31687	.40673	2.0338
#1	729.84	8513.1	128930.	4581.5
#2	724.38	8545.7	129880.	4464.3
#3	750.11	8566.9	129810.	4401.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.771%	101.23%	104.93%	98.963%
Range				

Sample Name: 620-28553-F-1-C DU Acquired: 8/16/2025 3:04:10 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment: @2

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0663	14.53	152.8	14.98	43.51	1.708
Stddev	.0014	.07	.7	.10	.15	.010
%RSD	2.118	.4809	.4893	.6611	.3443	.5969
#1	.0661	14.59	153.5	14.86	43.57	1.707
#2	.0678	14.46	152.0	15.04	43.62	1.698
#3	.0650	14.55	152.9	15.03	43.34	1.719

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	737.29	8561.5	128670.	4465.4
Stddev	10.52	24.8	2445.	30.4
%RSD	1.4274	.28922	1.9005	.68170
#1	729.50	8534.7	129200.	4451.3
#2	749.26	8566.3	126010.	4500.3
#3	733.12	8583.6	130810.	4444.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.110%	101.47%	104.22%	98.583%
Range				

Sample Name: 620-28553-F-1-D MS Acquired: 8/16/2025 3:10:11 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment: @2

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0889	10.90	128.5	11.00	28.16	1.172
Stddev	.0023	.02	.3	.04	.05	.013
%RSD	2.578	.2059	.2420	.3407	.1924	1.138
#1	.0909	10.90	128.5	11.00	28.19	1.176
#2	.0864	10.92	128.7	11.04	28.20	1.183
#3	.0893	10.88	128.1	10.97	28.10	1.157

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	750.11	8620.2	131510.	4418.6
Stddev	1.37	11.8	375.	20.3
%RSD	.18213	.13743	.28487	.46025
#1	751.64	8609.4	131080.	4396.9
#2	749.64	8632.9	131730.	4421.6
#3	749.03	8618.2	131730.	4437.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.83%	102.16%	106.53%	97.551%
Range				

Sample Name: CCV 158349 Acquired: 8/16/2025 3:52:13 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.994**	**9.916**	**9.514**	**10.13**	W **9.298**	W **10.88**
Stddev	.035	.019	.077	.08	.043	.06
%RSD	.6934	.1904	.8104	.7217	.4682	.5084
#1	5.033	9.912	9.585	10.21	9.342	10.93
#2	4.970	9.936	9.527	10.05	9.295	10.88
#3	4.977	9.899	9.432	10.13	9.255	10.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn
Value					10.00	10.00
Range					-5.000%	5.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**710.62**	**8235.8**	**126560.**	**4182.7**
Stddev	5.32	65.0	976.	23.2
%RSD	.74922	.78958	.77079	.55427
#1	704.92	8161.0	125460.	4179.1
#2	715.47	8279.1	126930.	4161.6
#3	711.47	8267.3	127300.	4207.6

Sample Name: CCB Acquired: 8/16/2025 3:58:05 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0002	-.0011	.0055	-.0003	.0048
Stddev	.0002	.0004	.0016	.0027	.0002	.0014
%RSD	287.7	180.7	144.4	48.90	54.45	27.91
#1	.0001	-.0003	.0002	.0052	-.0002	.0063
#2	-.0002	-.0005	-.0028	.0084	-.0006	.0036
#3	-.0002	.0002	-.0006	.0030	-.0003	.0047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	789.26	8426.8	128630.	4256.6
Stddev	9.05	23.5	555.	235.9
%RSD	1.1466	.27942	.43185	5.5424
#1	789.04	8401.0	128960.	3987.6
#2	798.42	8432.5	127990.	4354.0
#3	780.33	8447.0	128940.	4428.3

Sample Name: 620-28612-D-9-A@2 Acquired: 8/16/2025 4:34:18 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0361	6.587	38.65	2.849	11.62	.5362
Stddev	.0008	.054	.11	.098	.06	.0165
%RSD	2.320	.8210	.2860	3.435	.5024	3.081
#1	.0370	6.534	38.60	2.829	11.61	.5443
#2	.0359	6.642	38.78	2.956	11.69	.5470
#3	.0354	6.586	38.58	2.763	11.58	.5171

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	760.94	8453.4	129330.	4235.4
Stddev	6.53	27.1	868.	14.0
%RSD	.85779	.32107	.67097	.33007
#1	755.73	8422.1	129040.	4251.5
#2	768.26	8468.2	128640.	4226.6
#3	758.83	8469.9	130300.	4228.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.29%	100.18%	104.76%	93.507%
Range				

Sample Name: 620-28612-D-10-A@2 Acquired: 8/16/2025 4:40:20 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0227	5.541	24.99	2.855	6.883	.5845
Stddev	.0011	.133	.27	.004	.034	.0120
%RSD	4.802	2.401	1.087	.1512	.4881	2.061
#1	.0240	5.640	25.25	2.858	6.911	.5718
#2	.0220	5.389	24.71	2.857	6.846	.5857
#3	.0223	5.592	25.00	2.850	6.892	.5958

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	788.62	8677.0	133190.	4377.7
Stddev	10.78	22.4	906.	78.2
%RSD	1.3666	.25801	.68035	1.7858
#1	783.75	8652.5	132710.	4329.2
#2	800.97	8696.4	132620.	4467.9
#3	781.13	8682.2	134230.	4336.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	106.01%	102.84%	107.88%	96.647%
Range				

Sample Name: 620-28612-E-30-A@2 Acquired: 8/16/2025 4:46:25 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0345	17.02	100.0	2.420	11.87	.6046
Stddev	.0025	.39	2.3	.112	.29	.0146
%RSD	7.364	2.296	2.266	4.635	2.436	2.417
#1	.0361	17.47	102.6	2.532	12.20	.6210
#2	.0357	16.81	98.71	2.308	11.67	.5929
#3	.0315	16.78	98.68	2.420	11.73	.5998

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	760.88	8341.7	129270.	4274.1
Stddev	6.44	5.2	1127.	20.0
%RSD	.84649	.06255	.87167	.46731
#1	755.67	8343.8	127980.	4252.9
#2	758.90	8335.8	130060.	4292.6
#3	768.08	8345.6	129780.	4276.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.28%	98.861%	104.71%	94.361%
Range				

Sample Name: 620-28612-A-31-A@2 Acquired: 8/16/2025 4:52:21 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0813	16.15	151.8	2.087	10.57	.4920
Stddev	.0008	.08	.6	.057	.06	.0126
%RSD	1.022	.5256	.3886	2.735	.5916	2.565
#1	.0818	16.22	152.3	2.143	10.64	.4777
#2	.0816	16.06	151.1	2.029	10.55	.4964
#3	.0803	16.17	151.9	2.089	10.52	.5018

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	755.37	8370.4	127700.	4285.4
Stddev	3.92	48.5	2241.	39.1
%RSD	.51849	.57903	1.7551	.91330
#1	750.84	8314.8	125120.	4248.2
#2	757.66	8392.3	129220.	4326.2
#3	757.60	8404.0	128740.	4281.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.54%	99.201%	103.43%	94.609%
Range				

Sample Name: 620-28612-E-34-A@2 Acquired: 8/16/2025 4:58:20 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1108	173.3	343.0	6.400	30.66	1.379
Stddev	.0079	.7	1.5	.121	.17	.002
%RSD	7.139	.4038	.4402	1.896	.5461	.1266
#1	.1198	173.4	343.5	6.534	30.78	1.381
#2	.1079	173.9	344.2	6.370	30.73	1.380
#3	.1048	172.5	341.3	6.297	30.47	1.377

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	712.26	7847.4	124830.	4304.0
Stddev	36.75	406.6	1973.	34.8
%RSD	5.1592	5.1815	1.5802	.80871
#1	670.14	7378.3	122560.	4267.9
#2	728.93	8064.9	125840.	4306.9
#3	737.73	8099.1	126100.	4337.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.745%	93.003%	101.12%	95.022%
Range				

Sample Name: CCV 158349 Acquired: 8/16/2025 5:04:14 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.024**	**9.920**	**9.582**	**10.21**	W **9.290**	W **10.93**
Stddev	.028	.029	.066	.16	.051	.07
%RSD	.5479	.2950	.6899	1.428	.5542	.6799
#1	5.054	9.935	9.617	10.31	9.337	10.99
#2	5.002	9.939	9.623	10.29	9.298	10.94
#3	5.014	9.887	9.505	10.02	9.235	10.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn
Value					10.00	10.00
Range					-5.000%	5.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**704.94**	**8164.9**	**125240.**	**4122.9**
Stddev	4.99	36.7	356.	27.1
%RSD	.70836	.44954	.28427	.65622
#1	700.47	8126.2	124920.	4102.5
#2	710.33	8199.1	125160.	4112.5
#3	704.01	8169.5	125620.	4153.6

Sample Name: CCB Acquired: 8/16/2025 5:10:05 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0010	-.0004	-.0031	-.0003	.0039
Stddev	.0001	.0007	.0012	.0040	.0002	.0008
%RSD	274.7	74.54	286.0	132.5	77.07	21.33
#1	.0001	-.0018	.0005	-.0005	-.0003	.0042
#2	-.0000	-.0009	.0000	-.0077	-.0000	.0044
#3	.0000	-.0003	-.0018	-.0009	-.0005	.0029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	766.10	8332.9	126810.	4128.2
Stddev	1.45	10.3	352.	73.4
%RSD	.18981	.12348	.27732	1.7769
#1	766.74	8330.7	126480.	4095.7
#2	767.12	8344.1	126780.	4212.2
#3	764.43	8323.8	127180.	4076.7

Sample Name: 620-28612-E-35-A@2 Acquired: 8/16/2025 5:16:06 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0590	215.7	152.6	8.720	35.75	2.050
Stddev	.0013	4.1	3.0	.162	.63	.063
%RSD	2.171	1.886	1.985	1.858	1.775	3.064
#1	.0593	220.4	156.1	8.904	36.49	2.121
#2	.0602	213.1	150.7	8.654	35.37	2.002
#3	.0576	213.6	151.0	8.601	35.41	2.027

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	701.35	8031.5	124990.	4238.6
Stddev	11.02	59.9	655.	71.4
%RSD	1.5712	.74619	.52443	1.6851
#1	691.92	7963.0	124370.	4156.6
#2	713.47	8056.7	124920.	4286.8
#3	698.67	8074.6	125680.	4272.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.279%	95.184%	101.24%	93.578%
Range				

Sample Name: 620-28612-E-28-A@2 Acquired: 8/16/2025 5:22:03 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1304	38.30	129.6	3.039	15.64	.8653
Stddev	.0012	.11	.3	.042	.06	.0158
%RSD	.9519	.2997	.1943	1.372	.3866	1.829
#1	.1307	38.36	129.9	3.039	15.68	.8768
#2	.1314	38.17	129.4	2.997	15.67	.8719
#3	.1290	38.37	129.5	3.080	15.57	.8472

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	755.68	8345.4	130220.	4313.4
Stddev	7.85	6.6	322.	28.2
%RSD	1.0394	.07875	.24709	.65265
#1	759.52	8340.3	129860.	4301.7
#2	760.88	8343.2	130480.	4345.5
#3	746.65	8352.8	130310.	4292.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.58%	98.905%	105.48%	95.227%
Range				

Sample Name: 620-28612-A-28-A MS Acquired: 8/16/2025 5:27:59 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment: @2

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7758	45.98	123.1	11.56	24.93	3.178
Stddev	.0013	.27	.6	.11	.11	.032
%RSD	.1717	.5951	.4631	.9480	.4489	.9968
#1	.7744	46.29	123.8	11.68	25.06	3.214
#2	.7771	45.80	122.9	11.47	24.87	3.165
#3	.7758	45.84	122.7	11.53	24.86	3.155

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	728.24	8251.4	128080.	4273.9
Stddev	5.90	20.6	816.	30.4
%RSD	.81056	.25005	.63687	.71207
#1	724.75	8229.3	127170.	4240.1
#2	724.92	8254.9	128330.	4299.3
#3	735.06	8270.1	128740.	4282.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.893%	97.792%	103.74%	94.356%
Range				

Sample Name: 620-28612-A-28-B MSD Acquired: 8/16/2025 5:33:59 Type: Unk
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment: @2

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7972	42.87	137.7	11.70	16.65	3.302
Stddev	.0025	.28	1.2	.14	.11	.028
%RSD	.3168	.6553	.8358	1.221	.6652	.8370
#1	.7963	43.18	139.1	11.86	16.77	3.332
#2	.7953	42.65	136.9	11.64	16.55	3.294
#3	.8001	42.76	137.2	11.59	16.63	3.279

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	734.41	8251.0	128930.	4242.4
Stddev	2.84	20.3	250.	19.8
%RSD	.38626	.24635	.19394	.46631
#1	733.90	8227.9	129180.	4220.7
#2	731.87	8258.8	128950.	4246.8
#3	737.47	8266.3	128680.	4259.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.723%	97.786%	104.44%	93.660%
Range				

Sample Name: CCV 158349 Acquired: 8/16/2025 5:39:57 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.054	9.981	9.609	10.21	W 9.297	W 10.99
Stddev	.004	.024	.026	.03	.010	.03
%RSD	.0800	.2385	.2662	.2616	.1113	.2918
#1	5.057	10.01	9.629	10.23	9.309	11.02
#2	5.049	9.963	9.618	10.22	9.293	10.96
#3	5.055	9.972	9.580	10.17	9.289	10.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn
Value					10.00	10.00
Range					-5.000%	5.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	702.04	8110.0	125100.	4118.0
Stddev	.55	13.1	421.	5.4
%RSD	.07783	.16180	.33664	.13059
#1	702.63	8124.5	125560.	4114.6
#2	701.95	8106.5	124750.	4124.2
#3	701.55	8099.0	124990.	4115.1

Sample Name: CCB Acquired: 8/16/2025 5:45:48 Type: QC
Method: 20240718_NewIntStd(v105) Mode: CONC Corr. Factor: 1.000000
User: admin SAMPLE ID: ANALYST: INSTRUMENT: iCAP4
Comment:

Elem	As1890	Ca3158	Fe2404	K_7664	Mg2852	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**-.0013**	**-.0006**	**.0016**	**-.0004**	**.0038**
Stddev	.0001	.0003	.0015	.0022	.0002	.0012
%RSD	20.01	25.66	270.2	140.5	40.65	33.20
#1	-.0004	-.0017	-.0017	.0041	-.0006	.0025
#2	-.0002	-.0011	-.0011	.0004	-.0003	.0037
#3	-.0003	-.0011	.0012	.0002	-.0003	.0050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**777.05**	**8343.8**	**117490.**	**4150.8**
Stddev	12.84	19.0	17552.	48.4
%RSD	1.6521	.22751	14.939	1.1665
#1	770.29	8322.1	97221.	4205.3
#2	769.00	8357.0	127850.	4134.1
#3	791.85	8352.4	127390.	4112.9

METALS BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Batch Number: 52104 Batch Start Date: 08/14/25 11:37 Batch Analyst: Chambers, Joseph P

Batch Method: Filtration Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	Final pH		
MB 620-52104/1		Filtration, 3005A, 6010D			250 mL	250 mL	7 SU	<2 SU		
620-28577-L-4	MW-103I/250813	Filtration, 3005A, 6010D	Water	D	250 mL	250 mL	7 SU	<2 SU		
620-28577-W-5	MW-102B/250813	Filtration, 3005A, 6010D	Water	D	250 mL	250 mL	7 SU	<2 SU		
620-28577-Q-6	MW-102IR/250813	Filtration, 3005A, 6010D	Water	D	250 mL	250 mL	7 SU	<2 SU		
620-28577-L-7	FB/250813	Filtration, 3005A, 6010D	Water	D	125 mL	125 mL	7 SU	<2 SU		

Batch Notes	
Filter ID	F38

Basis	Basis Description
D	Dissolved

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 Rhode Island Job No.: 620-28577-1

SDG No.:

Batch Number: 52116 Batch Start Date: 08/14/25 15:34 Batch Analyst: Costa, Samuel R

Batch Method: 3005A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	Initial pH	InitialAmount	FinalAmount	MT_ICP_SPIKE 00130		
MB 620-52116/1		3005A, 6010D			7 SU	50 mL	50 mL			
LCS 620-52116/2		3005A, 6010D			7 SU	50 mL	50 mL	3 mL		
620-28600-C-1 DU		3005A, 6010D		T	<2 SU	50 mL	50 mL			
620-28600-C-1 MS		3005A, 6010D		T	<2 SU	50 mL	50 mL	3 mL		
620-28577-M-4	MW-103I/250813	3005A, 6010D	Water	T	<2 SU	50 mL	50 mL			
620-28577-X-5	MW-102B/250813	3005A, 6010D	Water	T	<2 SU	50 mL	50 mL			
620-28577-R-6	MW-102IR/250813	3005A, 6010D	Water	T	<2 SU	50 mL	50 mL			
620-28577-M-7	FB/250813	3005A, 6010D	Water	T	<2 SU	50 mL	50 mL			
MB 620-52104/1-A		3005A, 6010D			<2 SU	50 mL	50 mL			
620-28577-L-4-A	MW-103I/250813	3005A, 6010D	Water	D	<2 SU	50 mL	50 mL			
620-28577-W-5-A	MW-102B/250813	3005A, 6010D	Water	D	<2 SU	50 mL	50 mL			
620-28577-Q-6-A	MW-102IR/250813	3005A, 6010D	Water	D	<2 SU	50 mL	50 mL			
620-28577-L-7-A	FB/250813	3005A, 6010D	Water	D	<2 SU	50 mL	50 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Rhode Island Job No.: 620-28577-1

SDG No.:

Batch Number: 52116 Batch Start Date: 08/14/25 15:34 Batch Analyst: Costa, Samuel R

Batch Method: 3005A Batch End Date:

Batch Notes	
pH Indicator ID	410503
Digestion Tube/Cup ID	627911
Pipette/Syringe/Dispenser ID	sb6
Analyst ID - Spike Analyst	way5
Analyst ID - Spike Witness Analyst	ybf9
Sufficient Volume for Batch QC	50
Hydrochloric Acid ID	628206
Nitric Acid ID	628203
Digestion Unit ID	hb1
Thermometer ID	6413
Temperature - Uncorrected - Start	90 Degrees C
Temperature - Corrected - Start	90 Degrees C
Digestion Start Time	08/14/2025 19:28
Digestion End Time	08/15/2025 05:15
Temperature - Uncorrected - End	90 Degrees C
Temperature - Corrected - End	90 Degrees C

Basis	Basis Description
T	Total/NA
D	Dissolved

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 Lancaster Laboratories Environment Testing, LLC Job Number: 620-28577-1

SDG No.:

Project: ESCO Steel Treaters Project

Client Sample ID	Lab Sample ID
MW-103I/250813	620-28577-4
MW-102B/250813	620-28577-5
MW-102IR/250813	620-28577-6
FB/250813	620-28577-7

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-103I/250813 | Lab Sample ID: 620-28577-4

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 620-28577-1

SDG ID.:

Matrix: Water | Date Sampled: 08/13/2025 12:35

Reporting Basis: WET | Date Received: 08/14/2025 11:00

Preparation Batch Number: | Instrument ID: 19153

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Total Alkalinity	256	8.0	2.6	mg/L			1	2320B-2011
7440-44-0	Total Organic Carbon	2.9	1.0	0.50	mg/L			1	5310 C-2014
	Total Inorganic Carbon	41.4	2.0	0.60	mg/L			1	5310 C-2014

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-102B/250813
Lab Sample ID: 620-28577-5
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1
SDG ID.:
Matrix: Water
Date Sampled: 08/13/2025 15:10
Reporting Basis: WET
Date Received: 08/14/2025 11:00
Preparation Batch Number:
Instrument ID: 19153

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Total Alkalinity	184	8.0	2.6	mg/L			1	2320B-2011

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-102IR/250813
Lab Sample ID: 620-28577-6
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1
SDG ID.:
Matrix: Water
Date Sampled: 08/13/2025 15:30
Reporting Basis: WET
Date Received: 08/14/2025 11:00
Preparation Batch Number:
Instrument ID: 19153

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Total Alkalinity	262	8.0	2.6	mg/L			1	2320B-2011
7440-44-0	Total Organic Carbon	2.9	1.0	0.50	mg/L			1	5310 C-2014
	Total Inorganic Carbon	38.1	2.0	0.60	mg/L			1	5310 C-2014

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: FB/250813
Lab Sample ID: 620-28577-7
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 620-28577-1
SDG ID.:
Matrix: Water
Date Sampled: 08/13/2025 15:00
Reporting Basis: WET
Date Received: 08/14/2025 11:00
Preparation Batch Number:
Instrument ID: 19153

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Total Alkalinity	8.0	8.0	2.6	mg/L	U		1	2320B-2011
7440-44-0	Total Organic Carbon	1.0	1.0	0.50	mg/L	U		1	5310 C-2014
	Total Inorganic Carbon	2.0	2.0	0.60	mg/L	U		1	5310 C-2014

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Analyst: DI9Q Batch Start Date: 08/20/2025

Reporting Units: mg/L Analytical Batch No.: 688227

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
111	CCV	04:48	Total Alkalinity	87.81	94.0	93	90-110		WC_Alk_LCS_00027
112	CCB	04:53	Total Alkalinity	8.0				U	
123	CCV	06:02	Total Alkalinity	87.45	94.0	93	90-110		WC_Alk_LCS_00027
124	CCB	06:07	Total Alkalinity	8.0				U	
133	CCV	07:05	Total Alkalinity	87.41	94.0	93	90-110		WC_Alk_LCS_00027
134	CCB	07:10	Total Alkalinity	8.0				U	
140	CCV	07:46	Total Alkalinity	88.69	94.0	94	90-110		WC_Alk_LCS_00027
141	CCB	07:51	Total Alkalinity	8.0				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 Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Analyst: P684 Batch Start Date: 08/19/2025

Reporting Units: mg/L Analytical Batch No.: 688232

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
4	CCV	20:38	Total Organic Carbon	46.97	50.0	94	85-115		WC_TOC_QC_STD_00075
5	CCB	20:58	Total Organic Carbon	1.0				U	
16	CCV	00:37	Total Organic Carbon	23.41	25.0	94	85-115		WC_TOC_QC_STD_00075
17	CCB	00:57	Total Organic Carbon	1.0				U	
28	CCVL	04:35	Total Organic Carbon	4.80	5.00	96			WC_TOC_QC_STD_00075
29	CCB	04:55	Total Organic Carbon	1.0				U	
38	CCV	07:53	Total Organic Carbon	24.08	25.0	96	85-115		WC_TOC_QC_STD_00075
39	CCB	08:13	Total Organic Carbon	1.0				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 Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 688227 Date: 08/20/2025 04:58							
2320B-2011	MB 410-688227/113	Total Alkalinity	8.0	U	mg/L	8.0	1
Batch ID: 688232 Date: 08/19/2025 21:37							
5310 C-2014	MB 410-688232/7	Total Organic Carbon	1.0	U	mg/L	1.0	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 688232 Date: 08/20/2025 03:16											
5310 C-2014	620-28556-E-2	Total Organic Carbon	0.79	J	mg/L						
5310 C-2014	620-28556-E-2 MS	Total Organic Carbon	10.80		mg/L	10.0	100	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 688232 Date: 08/20/2025 02:57								
5310 C-2014		620-28556-E-2	Total Organic Carbon	0.79	mg/L			J
5310 C-2014		620-28556-E-2 DU	Total Organic Carbon	0.735	mg/L	7	15	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 Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 688227 Date: 08/20/2025 05:04											
						LCS Source: WC_Alk_LCS_00025					
2320B-2011	LCS 410-688227/114	Total Alkalinity	176.2		mg/L	189	93	80-110	1	10	
Batch ID: 688232 Date: 08/19/2025 21:18											
						LCS Source: WC_TOC_QC_STD_00075					
5310 C-2014	LCS 410-688232/6	Total Organic Carbon	47.15		mg/L	50.0	94	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 688227 Date: 08/20/2025 05:11											
						LCSD Source: WC_Alk_LCS_00025					
2320B-2011	LCSD 410-688227/115	Total Alkalinity	177.6		mg/L	189	94	80-110	1	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
METHOD REPORTING LIMIT CHECK
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 688232 Date: 08/19/2025 19:19											
						LCS Source: WC_TOC_QC_STD_00075					
5310 C-2014	MRL 410-688232/1	Total Organic Carbon	0.939	J	mg/L	1.00	94	50-150			

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 Lancaster Laboratories Environment Testing, LLC Job Number: 620-28577-1

SDG Number:

Matrix: Water Instrument ID: 19153

Method: 2320B-2011 MDL Date: 06/03/2019 10:35

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Alkalinity		8	2.6

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 620-28577-1

SDG Number:

Matrix: Water Instrument ID: 19153

Method: 2320B-2011 XMDL Date: 06/03/2019 08:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Alkalinity		8	2.6

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 620-28577-1

SDG Number:

Matrix: Water Instrument ID: 8742

Method: 5310 C-2014 MDL Date: 11/29/2018 18:05

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Organic Carbon		1	0.5

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 620-28577-1

SDG Number:

Matrix: Water Instrument ID: 8742

Method: 5310 C-2014 XMDL Date: 11/21/2018 10:17

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Organic Carbon		1	0.5

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 620-28577-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 5310 C-2014 MDL Date: 11/29/2018 18:05

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Inorganic Carbon		2	0.6

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 620-28577-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 5310 C-2014 XMDL Date: 11/21/2018 10:17

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Inorganic Carbon		2	0.6

11-IN
LINEAR RANGES
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No: 620-28577-1

SDG No.:

Instrument ID: 8742 Date: 11/20/2023 16:41

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Total Organic Carbon		100	5310 C-2014

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Instrument ID: 19153 Method: 2320B-2011

Start Date: 08/19/2025 18:57 End Date: 08/20/2025 13:54

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			18:57																				
ZZZZZZ			19:01																				
ZZZZZZ			19:04																				
ZZZZZZ			19:07																				
ZZZZZZ (Client)			19:13																				
ZZZZZZ (Client)			19:17																				
ZZZZZZ (Client)			19:20																				
ZZZZZZ (Client)			19:25																				
ZZZZZZ (Client)			19:28																				
ZZZZZZ (Client)			19:32																				
ZZZZZZ (Client)			19:36																				
ZZZZZZ (Client)			19:40																				
ZZZZZZ			19:44																				
CCV 410-688227/14			19:51																				
CCB 410-688227/15			19:55																				
ZZZZZZ (Client)			19:59																				
ZZZZZZ (Client)			20:02																				
ZZZZZZ (Client)			20:05																				
ZZZZZZ (Client)			20:09																				
ZZZZZZ (Client)			20:13																				
ZZZZZZ (Client)			20:17																				
ZZZZZZ			20:20																				
CCV 410-688227/23			20:27																				
CCB 410-688227/24			20:32																				
ZZZZZZ (QC)			20:36																				
ZZZZZZ			20:40																				
ZZZZZZ			20:43																				
ZZZZZZ (QC)			20:50																				
ZZZZZZ (QC)			20:56																				
ZZZZZZ (Client)			21:02																				
ZZZZZZ (Client)			21:07																				
ZZZZZZ (Client)			21:12																				
ZZZZZZ (Client)			21:16																				
ZZZZZZ (Client)			21:21																				
ZZZZZZ			21:25																				
CCV 410-688227/36			21:31																				
CCB 410-688227/37			21:35																				
ZZZZZZ (Client)			21:41																				
ZZZZZZ (Client)			21:45																				
ZZZZZZ (Client)			21:50																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Instrument ID: 19153 Method: 2320B-2011

Start Date: 08/19/2025 18:57 End Date: 08/20/2025 13:54

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ (Client)			21:56																				
ZZZZZZ (Client)			22:01																				
ZZZZZZ (Client)			22:05																				
ZZZZZZ (Client)			22:11																				
ZZZZZZ (Client)			22:17																				
ZZZZZZ (Client)			22:24																				
ZZZZZZ (Client)			22:29																				
ZZZZZZ			22:33																				
CCV 410-688227/49			22:39																				
CCB 410-688227/50			22:43																				
ZZZZZZ (QC)			22:48																				
ZZZZZZ			22:51																				
ZZZZZZ			22:54																				
ZZZZZZ (QC)			23:01																				
ZZZZZZ (QC)			23:07																				
ZZZZZZ (Client)			23:13																				
ZZZZZZ (Client)			23:19																				
ZZZZZZ (Client)			23:25																				
ZZZZZZ (Client)			23:32																				
ZZZZZZ (Client)			23:39																				
ZZZZZZ			23:42																				
CCV 410-688227/62			23:49																				
CCB 410-688227/63			23:54																				
ZZZZZZ (Client)			00:00																				
ZZZZZZ (Client)			00:06																				
ZZZZZZ (Client)			00:12																				
ZZZZZZ (Client)			00:18																				
ZZZZZZ (Client)			00:24																				
ZZZZZZ (Client)			00:30																				
ZZZZZZ (Client)			00:36																				
ZZZZZZ (Client)			00:42																				
ZZZZZZ (Client)			00:47																				
ZZZZZZ (Client)			00:52																				
ZZZZZZ			00:56																				
ZZZZZZ			01:00																				
ZZZZZZ			01:04																				
CCV 410-688227/77			01:12																				
CCB 410-688227/78			01:18																				
ZZZZZZ (Client)			01:24																				
ZZZZZZ (Client)			01:31																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Instrument ID: 19153 Method: 2320B-2011

Start Date: 08/19/2025 18:57 End Date: 08/20/2025 13:54

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ (Client)			01:43																				
ZZZZZZ (Client)			01:47																				
ZZZZZZ (Client)			01:51																				
ZZZZZZ			01:55																				
CCV 410-688227/85			02:02																				
CCB 410-688227/86			02:08																				
ZZZZZZ (QC)			02:13																				
ZZZZZZ (QC)			02:21																				
ZZZZZZ (QC)			02:27																				
ZZZZZZ (Client)			02:35																				
ZZZZZZ (Client)			02:41																				
ZZZZZZ (Client)			02:47																				
ZZZZZZ (Client)			02:54																				
CCV 410-688227/94			03:02																				
CCB 410-688227/95			03:07																				
ZZZZZZ (Client)			03:13																				
ZZZZZZ (Client)			03:18																				
ZZZZZZ (Client)			03:24																				
ZZZZZZ (Client)			03:31																				
ZZZZZZ (Client)			03:38																				
ZZZZZZ (Client)			03:44																				
ZZZZZZ (Client)			03:50																				
ZZZZZZ (Client)			03:57																				
ZZZZZZ (Client)			04:03																				
ZZZZZZ (Client)			04:11																				
CCV 410-688227/106			04:18																				
CCB 410-688227/107			04:23																				
ZZZZZZ (Client)			04:29																				
ZZZZZZ (Client)			04:34																				
ZZZZZZ (Client)			04:41																				
CCV 410-688227/111	1		04:48	X																			
CCB 410-688227/112	1		04:53	X																			
MB 410-688227/113	1	T	04:58	X																			
LCS 410-688227/114	1	T	05:04	X																			
LCSD 410-688227/115	1	T	05:11	X																			
ZZZZZZ (Client)			05:18																				
ZZZZZZ (Client)			05:24																				
ZZZZZZ (Client)			05:30																				
ZZZZZZ (Client)			05:36																				
ZZZZZZ (Client)			05:43																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Instrument ID: 19153 Method: 2320B-2011

Start Date: 08/19/2025 18:57 End Date: 08/20/2025 13:54

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ (Client)			05:49																				
ZZZZZZ (Client)			05:55																				
CCV 410-688227/123	1		06:02	X																			
CCB 410-688227/124	1		06:07	X																			
ZZZZZZ (Client)			06:13																				
ZZZZZZ (Client)			06:19																				
ZZZZZZ (Client)			06:26																				
ZZZZZZ (Client)			06:32																				
ZZZZZZ (Client)			06:38																				
620-28577-4	1	T	06:44	X																			
620-28577-5	1	T	06:51	X																			
620-28577-6	1	T	06:58	X																			
CCV 410-688227/133	1		07:05	X																			
CCB 410-688227/134	1		07:10	X																			
620-28577-7	1	T	07:15	X																			
ZZZZZZ (Client)			07:20																				
ZZZZZZ (Client)			07:27																				
ZZZZZZ (Client)			07:33																				
ZZZZZZ (Client)			07:39																				
CCV 410-688227/140	1		07:46	X																			
CCB 410-688227/141	1		07:51	X																			
ZZZZZZ (QC)			07:56																				
ZZZZZZ (QC)			08:03																				
ZZZZZZ (QC)			08:10																				
ZZZZZZ (Client)			08:17																				
ZZZZZZ (Client)			08:27																				
ZZZZZZ (Client)			08:36																				
ZZZZZZ (Client)			08:44																				
ZZZZZZ (Client)			08:52																				
ZZZZZZ (Client)			09:01																				
ZZZZZZ (Client)			09:08																				
CCV 410-688227/152			09:15																				
CCB 410-688227/153			09:20																				
ZZZZZZ (Client)			09:29																				
ZZZZZZ (Client)			09:38																				
ZZZZZZ (Client)			09:48																				
ZZZZZZ (Client)			12:01																				
ZZZZZZ (Client)			12:23																				
ZZZZZZ (Client)			12:32																				
ZZZZZZ (Client)			12:43																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Instrument ID: 19153 Method: 2320B-2011

Start Date: 08/19/2025 18:57 End Date: 08/20/2025 13:54

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ (Client)			12:49																				
ZZZZZZ (Client)			12:56																				
ZZZZZZ (Client)			13:05																				
CCV 410-688227/164			13:12																				
CCB 410-688227/165			13:27																				
ZZZZZZ			13:43																				
ZZZZZZ			13:49																				
ZZZZZZ			13:54																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Instrument ID: 8742 Method: 5310 C-2014

Start Date: 08/19/2025 19:19 End Date: 08/20/2025 13:52

Lab Sample ID	D / F	Type	Time	Analytes																			
				TOC																			
MRL 410-688232/1	1	T	19:19	X																			
ZZZZZZ (Client)			19:39																				
ZZZZZZ			19:58																				
CCV 410-688232/4	1		20:38	X																			
CCB 410-688232/5	1		20:58	X																			
LCS 410-688232/6	1	T	21:18	X																			
MB 410-688232/7	1	T	21:37	X																			
ZZZZZZ (Client)			21:57																				
ZZZZZZ (QC)			22:18																				
ZZZZZZ (QC)			22:38																				
ZZZZZZ (Client)			22:59																				
ZZZZZZ (Client)			23:18																				
ZZZZZZ (Client)			23:38																				
ZZZZZZ (Client)			23:58																				
ZZZZZZ (Client)			00:18																				
CCV 410-688232/16	1		00:37	X																			
CCB 410-688232/17	1		00:57	X																			
ZZZZZZ (Client)			01:17																				
ZZZZZZ (Client)			01:37																				
ZZZZZZ (Client)			01:57																				
ZZZZZZ (Client)			02:17																				
ZZZZZZ (Client)			02:36																				
620-28556-E-2 DU	1	T	02:57	X																			
620-28556-E-2 MS	1	T	03:16	X																			
ZZZZZZ (Client)			03:37																				
ZZZZZZ (Client)			03:56																				
ZZZZZZ (Client)			04:16																				
CCVL 410-688232/28	1		04:35	X																			
CCB 410-688232/29	1		04:55	X																			
ZZZZZZ (Client)			05:15																				
620-28577-4	1	T	05:35	X																			
620-28577-6	1	T	05:55	X																			
620-28577-7	1	T	06:14	X																			
ZZZZZZ (Client)			06:34																				
ZZZZZZ (Client)			06:53																				
ZZZZZZ (QC)			07:14																				
ZZZZZZ (QC)			07:33																				
CCV 410-688232/38	1		07:53	X																			
CCB 410-688232/39	1		08:13	X																			
ZZZZZZ (Client)			08:34																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Instrument ID: 8742 Method: 5310 C-2014

Start Date: 08/19/2025 19:19 End Date: 08/20/2025 13:52

Lab Sample ID	D / F	Type	Time	Analytes																			
				TOC																			
ZZZZZZ (QC)			08:54																				
ZZZZZZ (QC)			09:15																				
ZZZZZZ (Client)			09:34																				
ZZZZZZ (Client)			09:54																				
ZZZZZZ (Client)			10:14																				
ZZZZZZ (Client)			10:34																				
ZZZZZZ (Client)			10:54																				
ZZZZZZ (Client)			11:13																				
ZZZZZZ (Client)			11:34																				
CCV 410-688232/50			11:54																				
CCB 410-688232/51			12:13																				
ZZZZZZ (Client)			12:33																				
ZZZZZZ (Client)			12:53																				
ZZZZZZ (Client)			13:12																				
ZZZZZZ (QC)			13:32																				
ZZZZZZ (QC)			13:52																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 620-28577-1

SDG No.:

Instrument ID: NOEQUIP Method: 5310 C-2014

Start Date: 08/19/2025 14:47 End Date: 08/20/2025 06:14

Lab Sample ID	D / F	Type	Time	Analytes																			
				TIC																			
ZZZZZZ (Client)			14:47																				
ZZZZZZ (Client)			15:08																				
ZZZZZZ (Client)			21:57																				
ZZZZZZ (Client)			22:59																				
ZZZZZZ (Client)			23:18																				
ZZZZZZ (Client)			23:38																				
ZZZZZZ (Client)			23:58																				
ZZZZZZ (Client)			00:18																				
620-28577-4	1	T	05:35	X																			
620-28577-6	1	T	05:55	X																			
620-28577-7	1	T	06:14	X																			

Prep Types
T = Total/NA

General Chemistry Raw Data Report

Job ID: 620-28577-1

Batch: 688387 **Analyst Initials: P684**

Method: 5310 C-2014 **Instrument: NONE**

Lab Sample ID: 620-28577-A-4 **Analysis Date: Aug 20, 2025 05:35**

Analyte	Detector	Dilution	Raw Result	Unit
Total Inorganic Carbon	None	1	41.4	mg/L

Lab Sample ID: 620-28577-A-6 **Analysis Date: Aug 20, 2025 05:55**

Analyte	Detector	Dilution	Raw Result	Unit
Total Inorganic Carbon	None	1	38.1	mg/L

Lab Sample ID: 620-28577-A-7 **Analysis Date: Aug 20, 2025 06:14**

Analyte	Detector	Dilution	Raw Result	Unit
Total Inorganic Carbon	None	1	0	mg/L

MANTECH INC.

Water Analysis Historical Data Report

Run Number 15372 **Order Number** 20250819-3

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	Alk4.5	Alk8.3	Alk4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
Tap	8/19/2025	6:57 PM	23.31	-1.00	7.54	.00	253.10	253.10	.00	.00	5.83	.00	-1.00	-1.00	148.58	-1.00	-1.00	-1.00	-1.00
ICVpH	8/19/2025	7:01 PM	23.51	-1.00	6.99	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	534.44	-1.00	-1.00	-1.00	-1.00
LCSpH	8/19/2025	7:04 PM	23.43	-1.00	6.98	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	764.64	-1.00	-1.00	-1.00	-1.00
LCSDpH	8/19/2025	7:07 PM	23.43	-1.00	6.97	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	971.55	-1.00	-1.00	-1.00	-1.00
410-237256-Q-1	8/19/2025	7:13 PM	23.44	-1.00	6.69	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	1,249.28	-1.00	-1.00	-1.00	-1.00
410-237371-W-1	8/19/2025	7:17 PM	23.47	-1.00	7.26	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	1,479.98	-1.00	-1.00	-1.00	-1.00
410-237371-D-2	8/19/2025	7:20 PM	23.57	-1.00	7.01	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	1,710.81	-1.00	-1.00	-1.00	-1.00
410-237338-K-1	8/19/2025	7:25 PM	23.52	-1.00	6.74	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	1,971.39	-1.00	-1.00	-1.00	-1.00
410-237367-R-1	8/19/2025	7:28 PM	23.57	-1.00	8.03	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	2,201.92	-1.00	-1.00	-1.00	-1.00
410-237627-P-8	8/19/2025	7:32 PM	23.57	-1.00	6.67	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	2,415.33	-1.00	-1.00	-1.00	-1.00
410-237394-D-1	8/19/2025	7:36 PM	23.56	-1.00	6.79	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	2,645.55	-1.00	-1.00	-1.00	-1.00
630-118693-G-1	8/19/2025	7:40 PM	23.25	-1.00	6.81	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	2,875.98	-1.00	-1.00	-1.00	-1.00
ccvpH	8/19/2025	7:44 PM	22.95	-1.00	6.98	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	3,106.56	-1.00	-1.00	-1.00	-1.00
CCV	8/19/2025	7:51 PM	22.00	-1.00	10.12	40.12	84.91	4.67	80.24	.00	1.96	.92	-1.00	-1.00	3,336.53	-1.00	-1.00	-1.00	-1.00
CCB	8/19/2025	7:55 PM	23.28	-1.00	4.31	.00	-.34	-.34	.00	.00	.00	.00	.01	-1.00	3,748.34	-1.00	-1.00	-1.00	-1.00
630-118693-G-2	8/19/2025	7:59 PM	23.51	-1.00	6.83	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	4,014.02	-1.00	-1.00	-1.00	-1.00
410-237400-T-2	8/19/2025	8:02 PM	23.38	-1.00	8.37	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	4,245.25	-1.00	-1.00	-1.00	-1.00
320-124329-E-1	8/19/2025	8:05 PM	23.44	-1.00	8.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	4,427.75	-1.00	-1.00	-1.00	-1.00
410-236398-B-2-F	8/19/2025	8:09 PM	23.46	-1.00	6.86	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	4,625.16	-1.00	-1.00	-1.00	-1.00
410-236398-B-1-E	8/19/2025	8:13 PM	23.49	-1.00	7.77	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	4,855.36	-1.00	-1.00	-1.00	-1.00
410-237198-B-1-L	8/19/2025	8:17 PM	23.52	-1.00	10.68	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	5,085.69	-1.00	-1.00	-1.00	-1.00
ccvpH	8/19/2025	8:20 PM	23.36	-1.00	6.98	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	5,310.64	-1.00	-1.00	-1.00	-1.00
CCV	8/19/2025	8:27 PM	22.81	-1.00	10.09	39.70	86.69	7.29	79.40	.00	2.00	.91	-1.00	-1.00	5,541.44	-1.00	-1.00	-1.00	-1.00
CCB	8/19/2025	8:32 PM	23.06	-1.00	4.43	.00	-.76	-.76	.00	.00	.00	.00	.02	-1.00	5,939.56	-1.00	-1.00	-1.00	-1.00
MB	8/19/2025	8:36 PM	23.22	-1.00	4.23	.00	-.01	-.01	.00	.00	.00	.00	.00	-1.00	6,216.91	-1.00	-1.00	-1.00	-1.00
LCSpH	8/19/2025	8:40 PM	23.25	-1.00	6.98	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	6,482.61	-1.00	-1.00	-1.00	-1.00
LCSDpH	8/19/2025	8:43 PM	23.30	-1.00	6.97	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	6,710.67	-1.00	-1.00	-1.00	-1.00

Run Number 15372 **Order Number** 20250819-3

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	Alk4.5	Alk8.3	Alk4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
LCS	8/19/2025	8:50 PM	23.44	-1.00	10.24	84.17	175.06	6.71	168.35	.00	4.03	1.94	-1.00	-1.00	3,900.16	-1.00	-1.00	-1.00	-1.00
LCSD	8/19/2025	8:56 PM	23.49	-1.00	10.28	84.91	176.22	6.41	169.81	.00	4.06	1.96	-1.00	-1.00	7,302.97	-1.00	-1.00	-1.00	-1.00
630-118623-T-8	8/19/2025	9:02 PM	23.49	-1.00	5.51	.00	.69	.69	.00	.00	.03	.00	.04	-1.00	7,690.22	-1.00	-1.00	-1.00	-1.00
630-118623-T-5	8/19/2025	9:07 PM	23.43	-1.00	5.27	.00	.22	.22	.00	.00	.02	.00	.03	-1.00	3,013.83	-1.00	-1.00	-1.00	-1.00
630-118623-T-7	8/19/2025	9:12 PM	23.38	-1.00	5.31	.00	.22	.22	.00	.00	.02	.00	.03	-1.00	3,314.20	-1.00	-1.00	-1.00	-1.00
630-118623-T-10	8/19/2025	9:16 PM	23.38	-1.00	4.51	.00	-.56	-.56	.00	.00	.00	.00	.01	-1.00	3,614.75	-1.00	-1.00	-1.00	-1.00
630-118623-T-4	8/19/2025	9:21 PM	23.36	-1.00	5.20	.00	.20	.20	.00	.00	.02	.00	.03	-1.00	3,892.02	-1.00	-1.00	-1.00	-1.00
ccvpH	8/19/2025	9:25 PM	23.31	-1.00	6.98	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	9,192.70	-1.00	-1.00	-1.00	-1.00
CCV	8/19/2025	9:31 PM	23.25	-1.00	9.97	37.04	86.01	11.93	74.08	.00	1.98	.85	-1.00	-1.00	9,414.06	-1.00	-1.00	-1.00	-1.00
CCB	8/19/2025	9:35 PM	23.49	-1.00	4.18	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	9,791.67	-1.00	-1.00	-1.00	-1.00
630-118623-T-6	8/19/2025	9:41 PM	23.59	-1.00	5.14	.00	.21	.21	.00	.00	.02	.00	.03	-1.00	10,045.6	-1.00	-1.00	-1.00	-1.00
630-118623-T-9	8/19/2025	9:45 PM	23.51	-1.00	4.96	.00	-.05	-.05	.00	.00	.01	.00	.02	-1.00	10,345.6	-1.00	-1.00	-1.00	-1.00
630-118623-T-3	8/19/2025	9:50 PM	23.46	-1.00	5.24	.00	.22	.22	.00	.00	.02	.00	.03	-1.00	10,634.1	-1.00	-1.00	-1.00	-1.00
630-118623-T-2	8/19/2025	9:56 PM	23.46	-1.00	5.13	.00	.28	.28	.00	.00	.02	.00	.03	-1.00	10,934.3	-1.00	-1.00	-1.00	-1.00
630-118623-T-1	8/19/2025	10:01 PM	23.46	-1.00	5.12	.00	.10	.10	.00	.00	.02	.00	.03	-1.00	11,246.3	-1.00	-1.00	-1.00	-1.00
410-237227-H-1	8/19/2025	10:05 PM	23.44	-1.00	4.46	.00	-.60	-.60	.00	.00	.00	.00	.01	-1.00	11,546.8	-1.00	-1.00	-1.00	-1.00
410-237428-L-1	8/19/2025	10:11 PM	23.44	-1.00	7.12	.00	43.93	43.93	.00	.00	1.01	.00	-1.00	-1.00	11,824.2	-1.00	-1.00	-1.00	-1.00
410-237725-C-1	8/19/2025	10:17 PM	23.43	-1.00	7.25	.00	72.85	72.85	.00	.00	1.68	.00	-1.00	-1.00	12,184.0	-1.00	-1.00	-1.00	-1.00
410-237810-C-1	8/19/2025	10:24 PM	23.43	-1.00	7.24	.00	74.27	74.27	.00	.00	1.71	.00	-1.00	-1.00	12,542.0	-1.00	-1.00	-1.00	-1.00
410-237669-H-1	8/19/2025	10:29 PM	23.51	-1.00	4.80	.00	-.30	-.30	.00	.00	.01	.00	.03	-1.00	12,943.4	-1.00	-1.00	-1.00	-1.00
ccvpH	8/19/2025	10:33 PM	23.59	-1.00	6.98	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	13,244.0	-1.00	-1.00	-1.00	-1.00
CCV	8/19/2025	10:39 PM	23.44	-1.00	9.94	35.82	85.90	14.25	71.65	.00	1.98	.83	-1.00	-1.00	13,474.6	-1.00	-1.00	-1.00	-1.00
CCB	8/19/2025	10:43 PM	23.46	-1.00	4.24	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	13,860.3	-1.00	-1.00	-1.00	-1.00
MB	8/19/2025	10:48 PM	23.41	-1.00	4.12	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	14,113.9	-1.00	-1.00	-1.00	-1.00
LCSpH	8/19/2025	10:51 PM	23.38	-1.00	6.98	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	14,367.4	-1.00	-1.00	-1.00	-1.00
LCSDpH	8/19/2025	10:54 PM	23.31	-1.00	6.97	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	14,581.5	-1.00	-1.00	-1.00	-1.00
LCS	8/19/2025	11:01 PM	23.27	-1.00	10.17	81.50	176.12	13.13	162.99	.00	4.06	1.88	-1.00	-1.00	14,771.1	-1.00	-1.00	-1.00	-1.00
LCSD	8/19/2025	11:07 PM	23.31	-1.00	10.20	82.41	175.99	11.17	164.82	.00	4.06	1.90	-1.00	-1.00	15,162.8	-1.00	-1.00	-1.00	-1.00
630-118522-G-1	8/19/2025	11:13 PM	23.43	-1.00	7.51	.00	142.72	142.72	.00	.00	3.29	.00	-1.00	-1.00	15,541.1	-1.00	-1.00	-1.00	-1.00
630-118631-D-1	8/19/2025	11:19 PM	23.56	-1.00	7.20	.00	63.06	63.06	.00	.00	1.45	.00	-1.00	-1.00	15,919.1	-1.00	-1.00	-1.00	-1.00
410-237516-C-1	8/19/2025	11:25 PM	23.62	-1.00	7.92	.00	195.71	195.71	.00	.00	4.51	.00	-1.00	-1.00	16,281.4	-1.00	-1.00	-1.00	-1.00

Run Number 15372 **Order Number** 20250819-3

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	Alk4.5	Alk8.3	Alk4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
410-237516-C-2	8/19/2025	11:32 PM	23.59	-1.00	7.76	.00	117.27	117.27	.00	.00	2.70	.00	-1.00	-1.00	6,619.8	-1.00	-1.00	-1.00	-1.00
630-118271-I-1	8/19/2025	11:39 PM	23.52	-1.00	6.90	.00	217.61	217.61	.00	.00	5.01	.00	-1.00	-1.00	7,008.7	-1.00	-1.00	-1.00	-1.00
ccvpH	8/19/2025	11:42 PM	23.52	-1.00	6.98	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	7,430.8	-1.00	-1.00	-1.00	-1.00
CCV	8/19/2025	11:49 PM	23.39	-1.00	9.92	34.65	86.53	17.24	69.29	.00	1.99	.80	-1.00	-1.00	7,661.7	-1.00	-1.00	-1.00	-1.00
CCB	8/19/2025	11:54 PM	23.44	-1.00	4.28	.00	-.21	-.21	.00	.00	.00	.00	.00	-1.00	8,061.2	-1.00	-1.00	-1.00	-1.00
630-118578-C-1	8/20/2025	12:00 AM	23.38	-1.00	6.89	.00	15.12	15.12	.00	.00	.37	.00	.40	-1.00	8,327.0	-1.00	-1.00	-1.00	-1.00
410-237611-H-1	8/20/2025	12:06 AM	23.38	-1.00	7.80	.00	110.47	110.47	.00	.00	2.55	.00	-1.00	-1.00	8,702.4	-1.00	-1.00	-1.00	-1.00
410-237611-H-2	8/20/2025	12:12 AM	23.38	-1.00	7.65	.00	93.90	93.90	.00	.00	2.16	.00	-1.00	-1.00	9,091.8	-1.00	-1.00	-1.00	-1.00
410-237421-AE-1	8/20/2025	12:18 AM	23.51	-1.00	5.74	.00	.73	.73	.00	.00	.04	.00	.07	-1.00	9,418.1	-1.00	-1.00	-1.00	-1.00
410-236125-Y-1	8/20/2025	12:24 AM	23.65	-1.00	6.06	.00	103.08	103.08	.00	.00	2.38	.00	-1.00	-1.00	9,789.3	-1.00	-1.00	-1.00	-1.00
410-236117-Y-1	8/20/2025	12:30 AM	23.57	-1.00	7.41	.00	74.31	74.31	.00	.00	1.71	.00	-1.00	-1.00	0,146.8	-1.00	-1.00	-1.00	-1.00
410-236113-Y-1	8/20/2025	12:36 AM	23.54	-1.00	6.32	.00	81.40	81.40	.00	.00	1.88	.00	-1.00	-1.00	0,525.9	-1.00	-1.00	-1.00	-1.00
410-236115-Y-1	8/20/2025	12:42 AM	23.52	-1.00	6.30	.00	105.69	105.69	.00	.00	2.44	.00	-1.00	-1.00	0,883.6	-1.00	-1.00	-1.00	-1.00
410-236126-Y-1	8/20/2025	12:47 AM	23.51	-1.00	5.36	.00	11.82	11.82	.00	.00	.46	.00	.64	-1.00	1,231.5	-1.00	-1.00	-1.00	-1.00
410-236120-Y-1	8/20/2025	12:52 AM	23.44	-1.00	5.06	.00	20.70	20.70	.00	.00	.48	.00	-1.00	-1.00	1,537.3	-1.00	-1.00	-1.00	-1.00
ccvpH	8/20/2025	12:56 AM	23.43	-1.00	7.15	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	1,856.0	-1.00	-1.00	-1.00	-1.00
ccvpH	8/20/2025	1:00 AM	23.43	-1.00	7.09	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	2,087.3	-1.00	-1.00	-1.00	-1.00
ccvpH	8/20/2025	1:04 AM	23.49	-1.00	7.06	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	2,318.7	-1.00	-1.00	-1.00	-1.00
CCV	8/20/2025	1:12 AM	23.56	-1.00	10.15	32.85	87.96	22.27	65.70	.00	2.03	.76	-1.00	-1.00	2,550.5	-1.00	-1.00	-1.00	-1.00
CCB	8/20/2025	1:18 AM	23.68	-1.00	5.36	.00	-.65	-.65	.00	.00	.04	.00	.10	-1.00	3,022.8	-1.00	-1.00	-1.00	-1.00
410-237106-H-3	8/20/2025	1:24 AM	23.62	-1.00	5.73	.00	.18	.18	.00	.00	.05	.00	.09	-1.00	3,369.9	-1.00	-1.00	-1.00	-1.00
410-237106-K-3	8/20/2025	1:31 AM	23.59	-1.00	9.53	3.91	11.59	3.77	7.82	.00	.30	.09	.34	-1.00	3,729.0	-1.00	-1.00	-1.00	-1.00
410-237109-E-6^5	8/20/2025	1:43 AM	23.52	-1.00	7.84	.00	1,276.90	1,276.90	.00	.00	29.42	.00	-1.00	-1.00	4,205.1	-1.00	-1.00	-1.00	-1.00
410-237630-G-1^10	8/20/2025	1:47 AM	23.59	-1.00	2.92	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	4,889.9	-1.00	-1.00	-1.00	-1.00
410-237630-G-1	8/20/2025	1:51 AM	23.54	-1.00	2.38	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	5,144.0	-1.00	-1.00	-1.00	-1.00
ccvpH	8/20/2025	1:55 AM	23.44	-1.00	7.29	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	5,398.0	-1.00	-1.00	-1.00	-1.00
CCV	8/20/2025	2:02 AM	23.41	-1.00	10.37	31.59	87.77	24.59	63.18	.00	2.02	.73	-1.00	-1.00	5,629.4	-1.00	-1.00	-1.00	-1.00
CCB	8/20/2025	2:08 AM	23.51	-1.00	5.03	.00	-1.26	-1.26	.00	.00	.04	.00	.11	-1.00	6,055.4	-1.00	-1.00	-1.00	-1.00
MB	8/20/2025	2:13 AM	23.57	-1.00	4.64	.00	-1.91	-1.91	.00	.00	.01	.00	.07	-1.00	6,391.9	-1.00	-1.00	-1.00	-1.00
LCS	8/20/2025	2:21 AM	23.54	-1.00	10.39	75.01	176.54	26.52	150.02	.00	4.07	1.73	-1.00	-1.00	6,693.2	-1.00	-1.00	-1.00	-1.00
LCSD	8/20/2025	2:27 AM	23.46	-1.00	10.37	76.70	178.75	25.34	153.41	.00	4.12	1.77	-1.00	-1.00	7,139.0	-1.00	-1.00	-1.00	-1.00

Run Number 15372 **Order Number** 20250819-3

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	Alk4.5	Alk8.3	Alk4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
410-236915-T-4	8/20/2025	2:35 AM	23.44	-1.00	7.51	.00	402.58	402.58	.00	.00	9.28	.00	-1.00	-1.00	7,545.8	-1.00	-1.00	-1.00	-1.00
630-118271-F-2	8/20/2025	2:41 AM	23.44	-1.00	6.78	.00	18.19	18.19	.00	.00	.46	.00	.50	-1.00	8,007.0	-1.00	-1.00	-1.00	-1.00
630-118283-E-1	8/20/2025	2:47 AM	23.36	-1.00	7.47	.00	141.28	141.28	.00	.00	3.26	.00	-1.00	-1.00	8,370.7	-1.00	-1.00	-1.00	-1.00
410-237323-O-6	8/20/2025	2:54 AM	23.36	-1.00	8.05	.00	414.69	414.69	.00	.00	9.56	.00	-1.00	-1.00	8,738.6	-1.00	-1.00	-1.00	-1.00
CCV	8/20/2025	3:02 AM	23.35	-1.00	10.05	30.34	87.65	26.97	60.68	.00	2.02	.70	-1.00	-1.00	9,175.5	-1.00	-1.00	-1.00	-1.00
CCB	8/20/2025	3:07 AM	23.39	-1.00	4.72	.00	-.98	-.98	.00	.00	.02	.00	.05	-1.00	9,612.2	-1.00	-1.00	-1.00	-1.00
410-236191-H-23	8/20/2025	3:13 AM	23.43	-1.00	5.39	.00	-.02	-.02	.00	.00	.03	.00	.06	-1.00	9,925.3	-1.00	-1.00	-1.00	-1.00
410-237312-AP-1	8/20/2025	3:18 AM	23.52	-1.00	7.32	.00	49.55	49.55	.00	.00	1.14	.00	-1.00	-1.00	0,261.9	-1.00	-1.00	-1.00	-1.00
410-237312-AP-2	8/20/2025	3:24 AM	23.51	-1.00	7.83	.00	87.70	87.70	.00	.00	2.02	.00	-1.00	-1.00	0,612.6	-1.00	-1.00	-1.00	-1.00
410-237323-O-5	8/20/2025	3:31 AM	23.46	-1.00	7.54	.00	228.40	228.40	.00	.00	5.26	.00	-1.00	-1.00	0,953.0	-1.00	-1.00	-1.00	-1.00
410-236191-H-15	8/20/2025	3:38 AM	23.41	-1.00	7.84	.00	116.27	116.27	.00	.00	2.68	.00	-1.00	-1.00	1,384.6	-1.00	-1.00	-1.00	-1.00
410-236191-H-17	8/20/2025	3:44 AM	23.36	-1.00	7.96	.00	154.08	154.08	.00	.00	3.55	.00	-1.00	-1.00	1,774.1	-1.00	-1.00	-1.00	-1.00
410-236191-H-13	8/20/2025	3:50 AM	23.36	-1.00	7.84	.00	118.97	118.97	.00	.00	2.74	.00	-1.00	-1.00	2,161.8	-1.00	-1.00	-1.00	-1.00
410-236191-H-7	8/20/2025	3:57 AM	23.35	-1.00	7.85	.00	114.21	114.21	.00	.00	2.63	.00	-1.00	-1.00	2,539.6	-1.00	-1.00	-1.00	-1.00
410-236191-H-19	8/20/2025	4:03 AM	23.35	-1.00	7.91	.00	142.39	142.39	.00	.00	3.28	.00	-1.00	-1.00	2,903.1	-1.00	-1.00	-1.00	-1.00
410-236915-T-2	8/20/2025	4:11 AM	23.38	-1.00	7.32	.00	501.01	501.01	.00	.00	11.54	.00	-1.00	-1.00	3,290.9	-1.00	-1.00	-1.00	-1.00
CCV	8/20/2025	4:18 AM	23.44	-1.00	9.96	29.06	87.77	29.65	58.13	.00	2.02	.67	-1.00	-1.00	3,772.4	-1.00	-1.00	-1.00	-1.00
CCB	8/20/2025	4:23 AM	23.43	-1.00	4.67	.00	-1.00	-1.00	.00	.00	.01	.00	.04	-1.00	4,209.3	-1.00	-1.00	-1.00	-1.00
620-28596-L-1	8/20/2025	4:29 AM	23.44	-1.00	6.77	.00	39.45	39.45	.00	.00	.91	.00	-1.00	-1.00	4,510.9	-1.00	-1.00	-1.00	-1.00
620-28596-L-2	8/20/2025	4:34 AM	23.36	-1.00	6.56	.00	33.61	33.61	.00	.00	.77	.00	-1.00	-1.00	4,849.2	-1.00	-1.00	-1.00	-1.00
630-118517-H-1	8/20/2025	4:41 AM	23.28	-1.00	7.49	.00	121.09	121.09	.00	.00	2.79	.00	-1.00	-1.00	5,178.0	-1.00	-1.00	-1.00	-1.00
CCV	8/20/2025	4:48 AM	23.27	-1.00	9.94	29.08	87.81	29.65	58.16	.00	2.02	.67	-1.00	-1.00	5,555.9	-1.00	-1.00	-1.00	-1.00
CCB	8/20/2025	4:53 AM	23.30	-1.00	4.62	.00	-1.03	-1.03	.00	.00	.01	.00	.04	-1.00	5,992.5	-1.00	-1.00	-1.00	-1.00
MB	8/20/2025	4:58 AM	23.25	-1.00	4.44	.00	-.91	-.91	.00	.00	.00	.00	.02	-1.00	6,294.0	-1.00	-1.00	-1.00	-1.00
LCS	8/20/2025	5:04 AM	23.25	-1.00	10.19	73.26	176.23	29.70	146.53	.00	4.06	1.69	-1.00	-1.00	6,571.9	-1.00	-1.00	-1.00	-1.00
LCSD	8/20/2025	5:11 AM	23.30	-1.00	10.17	73.29	177.64	31.07	146.58	.00	4.09	1.69	-1.00	-1.00	6,960.5	-1.00	-1.00	-1.00	-1.00
410-237158-R-20	8/20/2025	5:18 AM	23.36	-1.00	7.03	.00	221.80	221.80	.00	.00	5.11	.00	-1.00	-1.00	7,349.2	-1.00	-1.00	-1.00	-1.00
410-237158-P-22	8/20/2025	5:24 AM	23.43	-1.00	7.26	.00	267.51	267.51	.00	.00	6.16	.00	-1.00	-1.00	7,762.1	-1.00	-1.00	-1.00	-1.00
410-237158-P-23	8/20/2025	5:30 AM	23.49	-1.00	6.93	.00	223.62	223.62	.00	.00	5.15	.00	-1.00	-1.00	8,140.5	-1.00	-1.00	-1.00	-1.00
410-237158-R-19	8/20/2025	5:36 AM	23.39	-1.00	6.98	.00	172.59	172.59	.00	.00	3.98	.00	-1.00	-1.00	8,498.5	-1.00	-1.00	-1.00	-1.00
410-237158-P-21	8/20/2025	5:43 AM	23.33	-1.00	7.33	.00	290.66	290.66	.00	.00	6.70	.00	-1.00	-1.00	8,856.7	-1.00	-1.00	-1.00	-1.00

Run Number 15372 **Order Number** 20250819-3

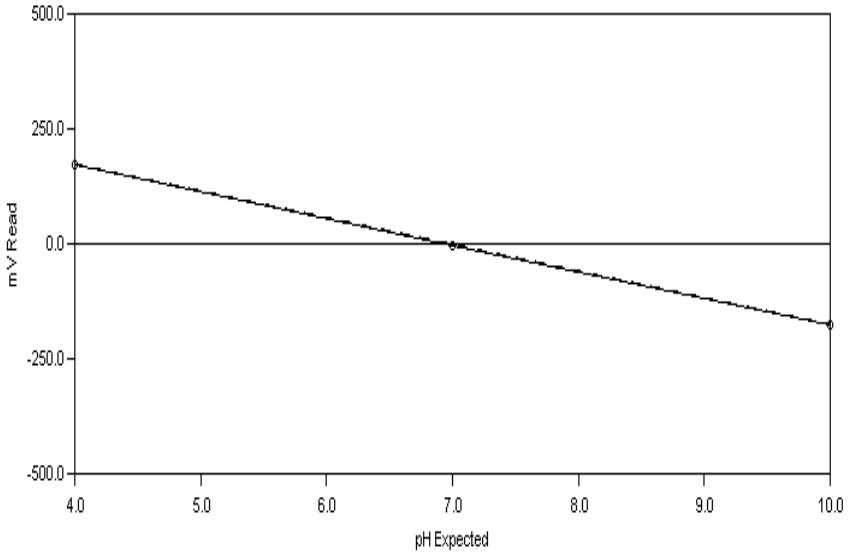
SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	Alk4.5	Alk8.3	Alk4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
410-237158-V-17	8/20/2025	5:49 AM	23.30	-1.00	6.89	.00	228.60	228.60	.00	.00	5.27	.00	-1.00	-1.00	9,279.1	-1.00	-1.00	-1.00	-1.00
410-237158-S-18	8/20/2025	5:55 AM	23.28	-1.00	6.85	.00	228.33	228.33	.00	.00	5.26	.00	-1.00	-1.00	9,647.3	-1.00	-1.00	-1.00	-1.00
CCV	8/20/2025	6:02 AM	23.30	-1.00	9.88	27.65	87.45	32.15	55.29	.00	2.01	.64	-1.00	-1.00	0,015.5	-1.00	-1.00	-1.00	-1.00
CCB	8/20/2025	6:07 AM	23.30	-1.00	4.61	.00	-1.01	-1.01	.00	.00	.01	.00	.03	-1.00	0,452.5	-1.00	-1.00	-1.00	-1.00
410-237158-R-16	8/20/2025	6:13 AM	23.33	-1.00	6.68	.00	45.62	45.62	.00	.00	1.05	.00	-1.00	-1.00	0,753.9	-1.00	-1.00	-1.00	-1.00
410-237158-Q-33	8/20/2025	6:19 AM	23.36	-1.00	6.84	.00	184.81	184.81	.00	.00	4.26	.00	-1.00	-1.00	1,102.8	-1.00	-1.00	-1.00	-1.00
410-237158-S-34	8/20/2025	6:26 AM	23.36	-1.00	6.93	.00	230.27	230.27	.00	.00	5.31	.00	-1.00	-1.00	1,451.8	-1.00	-1.00	-1.00	-1.00
410-237158-S-15	8/20/2025	6:32 AM	23.46	-1.00	6.94	.00	26.96	26.96	.00	.00	.62	.00	-1.00	-1.00	1,854.0	-1.00	-1.00	-1.00	-1.00
630-118580-J-2	8/20/2025	6:38 AM	23.39	-1.00	7.42	.00	93.97	93.97	.00	.00	2.17	.00	-1.00	-1.00	2,214.1	-1.00	-1.00	-1.00	-1.00
620-28577-N-4	8/20/2025	6:44 AM	23.31	-1.00	7.49	.00	255.70	255.70	.00	.00	5.89	.00	-1.00	-1.00	2,582.3	-1.00	-1.00	-1.00	-1.00
620-28577-Y-5	8/20/2025	6:51 AM	23.30	-1.00	8.32	.43	184.04	183.18	.86	.00	4.24	.01	-1.00	-1.00	2,970.5	-1.00	-1.00	-1.00	-1.00
620-28577-S-6	8/20/2025	6:58 AM	23.28	-1.00	7.61	.00	261.79	261.79	.00	.00	6.03	.00	-1.00	-1.00	3,377.8	-1.00	-1.00	-1.00	-1.00
CCV	8/20/2025	7:05 AM	23.27	-1.00	9.86	27.27	87.41	32.87	54.54	.00	2.01	.63	-1.00	-1.00	3,766.0	-1.00	-1.00	-1.00	-1.00
CCB	8/20/2025	7:10 AM	23.28	-1.00	4.67	.00	-.80	-.80	.00	.00	.01	.00	.04	-1.00	4,193.1	-1.00	-1.00	-1.00	-1.00
620-28577-P-7	8/20/2025	7:15 AM	23.27	-1.00	4.51	.00	-1.18	-1.18	.00	.00	.00	.00	.03	-1.00	4,495.0	-1.00	-1.00	-1.00	-1.00
410-237323-X-1	8/20/2025	7:20 AM	23.28	-1.00	4.64	.00	-.81	-.81	.00	.00	.01	.00	.03	-1.00	4,785.1	-1.00	-1.00	-1.00	-1.00
410-237298-U-2	8/20/2025	7:27 AM	23.33	-1.00	7.43	.00	411.75	411.75	.00	.00	9.49	.00	-1.00	-1.00	5,087.0	-1.00	-1.00	-1.00	-1.00
410-237298-U-1	8/20/2025	7:33 AM	23.46	-1.00	7.34	.00	212.70	212.70	.00	.00	4.90	.00	-1.00	-1.00	5,550.2	-1.00	-1.00	-1.00	-1.00
410-237298-U-3	8/20/2025	7:39 AM	23.36	-1.00	8.11	.00	161.56	161.56	.00	.00	3.72	.00	-1.00	-1.00	5,908.5	-1.00	-1.00	-1.00	-1.00
CCV	8/20/2025	7:46 AM	23.36	-1.00	9.84	27.17	88.69	34.34	54.34	.00	2.04	.63	-1.00	-1.00	6,258.1	-1.00	-1.00	-1.00	-1.00
CCB	8/20/2025	7:51 AM	23.31	-1.00	4.76	.00	-.66	-.66	.00	.00	.01	.00	.04	-1.00	6,685.2	-1.00	-1.00	-1.00	-1.00
MB	8/20/2025	7:56 AM	23.31	-1.00	4.51	.00	-1.13	-1.13	.00	.00	.00	.00	.03	-1.00	6,986.7	-1.00	-1.00	-1.00	-1.00
LCS	8/20/2025	8:03 AM	23.31	-1.00	10.10	69.59	177.30	38.13	139.17	.00	4.09	1.60	-1.00	-1.00	7,276.6	-1.00	-1.00	-1.00	-1.00
LCSD	8/20/2025	8:10 AM	23.35	-1.00	10.08	69.63	178.28	39.03	139.25	.00	4.11	1.60	-1.00	-1.00	7,665.4	-1.00	-1.00	-1.00	-1.00
410-237113-J-4^5	8/20/2025	8:17 AM	23.43	-1.00	7.62	.00	430.49	430.49	.00	.00	9.92	.00	-1.00	-1.00	8,088.8	-1.00	-1.00	-1.00	-1.00
410-237109-H-3^5	8/20/2025	8:27 AM	23.47	-1.00	7.86	.00	936.09	936.09	.00	.00	21.57	.00	-1.00	-1.00	8,516.7	-1.00	-1.00	-1.00	-1.00
410-237107-C-1^5	8/20/2025	8:36 AM	23.52	-1.00	7.85	.00	654.73	654.73	.00	.00	15.09	.00	-1.00	-1.00	9,126.4	-1.00	-1.00	-1.00	-1.00
410-237109-H-5^5	8/20/2025	8:44 AM	23.68	-1.00	7.75	.00	722.07	722.07	.00	.00	16.64	.00	-1.00	-1.00	9,668.3	-1.00	-1.00	-1.00	-1.00
410-237123-F-1^5	8/20/2025	8:52 AM	23.65	-1.00	7.81	.00	366.99	366.99	.00	.00	8.46	.00	-1.00	-1.00	0,174.3	-1.00	-1.00	-1.00	-1.00
410-237123-A-4^5	8/20/2025	9:01 AM	23.57	-1.00	7.91	.00	950.14	950.14	.00	.00	21.89	.00	-1.00	-1.00	0,636.3	-1.00	-1.00	-1.00	-1.00
410-237113-J-3^5	8/20/2025	9:08 AM	23.57	-1.00	7.82	.00	324.39	324.39	.00	.00	7.47	.00	-1.00	-1.00	1,155.3	-1.00	-1.00	-1.00	-1.00

Run Number 15372 **Order Number** 20250819-3

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	Alk4.5	Alk8.3	Alk4.2	Total Hardness	HDML	Ammonia	NH3mV	Fluoride	FmV
CCV	8/20/2025	9:15 AM	23.51	-1.00	9.77	26.51	89.56	36.55	53.01	.00	2.06	.61	-1.00	-1.00	1,607.4	-1.00	-1.00	-1.00	-1.00
CCB	8/20/2025	9:20 AM	23.56	-1.00	4.90	.00	-.41	-.41	.00	.00	.01	.00	.04	-1.00	1,997.8	-1.00	-1.00	-1.00	-1.00
410-237107-D-2^5	8/20/2025	9:29 AM	23.56	-1.00	7.68	.00	753.30	753.30	.00	.00	17.36	.00	-1.00	-1.00	2,311.3	-1.00	-1.00	-1.00	-1.00
410-237113-I-6^5	8/20/2025	9:38 AM	23.59	-1.00	7.77	.00	828.09	828.09	.00	.00	19.08	.00	-1.00	-1.00	2,872.0	-1.00	-1.00	-1.00	-1.00
410-237113-I-5^5	8/20/2025	9:48 AM	23.65	-1.00	7.61	.00	784.99	784.99	.00	.00	18.09	.00	-1.00	-1.00	3,408.0	-1.00	-1.00	-1.00	-1.00
410-237109-I-7^5	8/20/2025	12:01 PM	23.68	-1.00	7.84	28.98	1,229.90	1,171.94	57.96	.00	28.34	.67	-1.00	-1.00	3,968.9	-1.00	-1.00	-1.00	-1.00
410-237109-I-2^5	8/20/2025	12:23 PM	23.75	-1.00	7.83	.00	922.97	922.97	.00	.00	21.27	.00	-1.00	-1.00	1,961.5	-1.00	-1.00	-1.00	-1.00
410-237109-H-4^5	8/20/2025	12:32 PM	23.62	-1.00	7.84	.00	723.13	723.13	.00	.00	16.66	.00	-1.00	-1.00	3,280.5	-1.00	-1.00	-1.00	-1.00
410-237109-I-1^5	8/20/2025	12:43 PM	23.60	-1.00	7.80	.00	1,058.39	1,058.39	.00	.00	24.39	.00	-1.00	-1.00	3,831.1	-1.00	-1.00	-1.00	-1.00
410-237113-I-2^5	8/20/2025	12:49 PM	23.62	-1.00	7.52	.00	304.68	304.68	.00	.00	7.02	.00	-1.00	-1.00	4,469.1	-1.00	-1.00	-1.00	-1.00
410-237113-J-1^5	8/20/2025	12:56 PM	23.44	-1.00	7.70	.00	280.82	280.82	.00	.00	6.47	.00	-1.00	-1.00	4,877.1	-1.00	-1.00	-1.00	-1.00
410-237123-F-3^5	8/20/2025	1:05 PM	23.49	-1.00	7.88	.00	628.62	628.62	.00	.00	14.48	.00	-1.00	-1.00	5,275.4	-1.00	-1.00	-1.00	-1.00
CCV	8/20/2025	1:12 PM	23.60	-1.00	9.57	21.55	90.25	47.16	43.10	.00	2.08	.50	-1.00	-1.00	5,795.7	-1.00	-1.00	-1.00	-1.00
CCB	8/20/2025	1:27 PM	24.07	-1.00	4.94	.00	6.29	6.29	.00	.00	.19	.00	.24	-1.00	181.94	-1.00	-1.00	-1.00	-1.00
CCB	8/20/2025	1:43 PM	23.65	-1.00	6.50	.00	11.60	11.60	.00	.00	.30	.00	.33	-1.00	183.70	-1.00	-1.00	-1.00	-1.00
CCB	8/20/2025	1:49 PM	23.64	-1.00	4.75	.00	-.42	-.42	.00	.00	.01	.00	.04	-1.00	538.30	-1.00	-1.00	-1.00	-1.00
CCB	8/20/2025	1:54 PM	23.67	-1.00	4.70	.00	-.55	-.55	.00	.00	.01	.00	.03	-1.00	841.16	-1.00	-1.00	-1.00	-1.00

Calibration Report

Calibration Record # 7374



Calibration Settings

Calibration ID	PH	Date	08/19/2025	
Channel	1	Time	1:05 PM	
Probe Type	pH	Temperature	296.66 K	23.51 C
Probe ID	PH ELECTRODE	Analysis Type	Single Line Fit	

Calibration Results

Slope	-58.002	CorrCoeff	1.0000
Intercept	-2.037	Equation:	Y = (-58.002) X + (-2.037)

Calibration Validity **True** Operator

	Result	Minimum	Maximum
Slope	-58.002	-60.00	-54.00
Intercept	-2.037	-100.00	100.00
Correlation Coefficient	1.0000	0.99	1.00

Note: "True" means the calibration was within the specified ranges
"False" means the calibration was NOT within the specified ranges

Calibration Data	Standard	Reading
	4.00	172.72
	7.00	-3.54
	10.00	-175.29

Method:	5310C_TC, SM5310_TC
Analyte:	Total Carbon
Calibration Date and Time:	8/18/2025 1822
Run Name:	25230TCCALG07
Instrument:	26070
RF:	0.1493
Volume:	1
Offset/RB area	7024

Curve Type: Linear

CAL PT	Xi = True Value	Units	Area Ct	Corrected Area Ct (Area Ct - Offset/RB area)	X'I = Measured Value	Percent Error (X'i - (Xi / Xi)) x 100	Criteria	Pass/Fail
1	1	mg/L	12829	5805	0.87	-13%	50%	PASS
2	10	mg/L	74021	66997	10.00	0%	10%	PASS
3	25	mg/L	173808	166784	24.90	0%	10%	PASS
4	50	mg/L	345508	338484	50.54	1%	10%	PASS
5	75	mg/L	507037	500013	74.65	0%	10%	PASS

Calculation spreadsheet based off of NELAC Calculation Spreadsheet https://nelac-institute.org/news.php?id=2847

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Cust ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	1	METHOD BLANK	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	QC Blank	1 : 1	00000000	TC	6 297	0.000	0.000	0	0.00	
3	2	TC-RW	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	7 075	0.000	0.000	0	0.00	
4	3	TC-Std#1-1.000 PPM	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	12 829	1.000	1.000	0	0.00	
5	4	TC-Std#2-10.000 PPM	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	74 021	10.000	10.000	0	0.00	
6	5	TC-Std#3-25.000 PPM	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	173 808	25.000	25.000	0	0.00	
7	6	TC-Std#4-50.000 PPM	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	345 508	50.000	50.000	0	0.00	
8	7	TC-Std#5-75.000 PPM	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Std	1 : 1	00000000	TC	507 037	75.000	75.000	0	0.00	
9	8	RINSE	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	7 945	0.138	0.138	0	0.00	Pass
10	9	ICV	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	176 833	25.358	25.357	0	0.00	Pass
11	10	ICB	1	1	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	6 164	0.000	0.000	0	0.00	Pass

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 By: TOC

Date Approved: By:

Sample Results

Spl #: 1 Sample ID : METHOD BLANK Type : QC Blank Date: 08/18/2025 Status:
Vial #: 1 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	4:22 pm	-	-	-	6 297	0.000	0.000
		Avg.	-	-	-	6 297	0.000	0.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 3 Sample ID : TC-RW Type : Std Date: 08/18/2025 Status:
Vial #: 2 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	5:36 pm	-	-	-	7 075	0.000	0.000
		Avg.	-	-	-	7 075	0.000	0.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 4 Sample ID : TC-Std#1-1.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 3 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	5:48 pm	-	-	-	12 829	1.000	1.000
		Avg.	-	-	-	12 829	1.000	1.000
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 By: TOC

Date Approved: By:

Spl #: 5 Sample ID : TC-Std#2-10.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 4 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	5:56 pm	-	-	-	74 021	10.000	10.000
		Avg.	-	-	-	74 021	10.000	10.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 6 Sample ID : TC-Std#3-25.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 5 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:04 pm	-	-	-	173 808	25.000	25.000
		Avg.	-	-	-	173 808	25.000	25.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 7 Sample ID : TC-Std#4-50.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 6 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:12 pm	-	-	-	345 508	50.000	50.000
		Avg.	-	-	-	345 508	50.000	50.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 8 Sample ID : TC-Std#5-75.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 7 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:22 pm	-	-	-	507 037	75.000	75.000
		Avg.	-	-	-	507 037	75.000	75.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 9 Sample ID : RINSE Type : Sample Date: 08/18/2025 Status: Pass
Vial #: 8 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:33 pm	-	-	-	7 945	0.138	0.138
		Avg.	-	-	-	7 945	0.138	0.138
		Std.Dev.						
		% RSD.				0.00		

Spl #: 10 Sample ID : ICV Type : Sample Date: 08/18/2025 Status: Pass
Vial #: 9 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:41 pm	-	-	-	176 833	25.358	25.357
		Avg.	-	-	-	176 833	25.358	25.357
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Spl #:	11	**Sample ID :**	ICB	**Type :**	Sample	**Date:**	08/18/2025	**Status:**	Pass
Vial #:	10	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	6:49 pm	-	-	-	6 164	0.000	0.000
		Avg.	-	-	-	6 164	0.000	0.000
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Method Summary

Method Details

Method Name:	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM
Date Created:	02/06/2024
Time Created:	6:01
Created By:	TOC

Analysis Mode: TC Only

Sparging Mode:	n/a
Pre-Acid Volume (mL):	n/a
Sparge Time (mm:ss):	n/a

Volumes

Sample Volume (mL):	1.000
Acid Volume (mL):	0.000
Persulfate Volume (mL):	2.500

Other

SysPressure:	20.00

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1

Times

	React	Detect
TIC	02:30	04:00
TOC	03:00	04:00

Temp

	React	Detect
TIC	70	70
TOC	98	98

Outlier Removal Criteria

Enabled:	No
Additional Replicates:	1
Max. % RSD.	10.00

Rinses

Rinse Volume (mL):	15.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Max. Std. Dev. 100 Use Modified Oxidant: No

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Mode

Primary Mode:	TC
User for ALL Modes:	Enabled

Calibration Pass/Fail Criteria

Parameter	Enabled	Low	High	Failure
R² (ugC/K-cts)	Yes	0.1000	0.3000	Continue
	Yes	0.950	1.000	Continue
Offset (area) (cts)	No	-	-	-
Offset (mass) (ugC)	No	-	-	-
QC Blank(cts)	No	-	-	-

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10.00	Re-run	Continue
QC #1	0.000	10.00	Re-run	Continue
QC #2	0.000	10.00	Re-run	Continue
QC #3	0.000	10.00	Re-run	Continue
QC #4	0.000	10.00	Re-run	Continue
SST	0.000	15.00	Abort	Abort

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TC
Date Calibrated:	07/25/2025
Time Calibrated:	6:39 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.5674
R2:	0.9986
R:	0.9993
QC Blank(cts):	0
Offset (cts):	6470
Offset (ugC):	-3.671
Reagent Blank (cts):	3 164
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

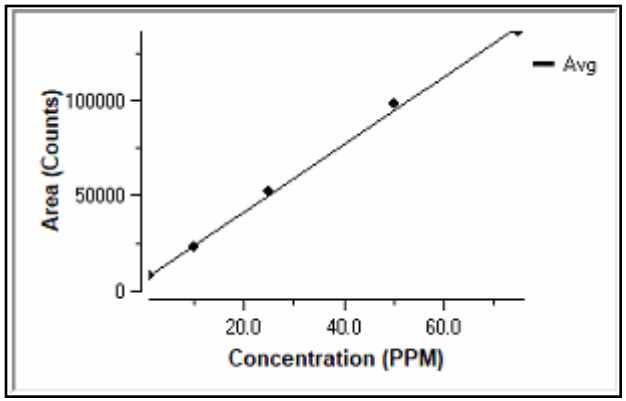
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TC
Date Calibrated:	08/18/2025
Time Calibrated:	6:22 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.1493
R2:	0.9999
R:	1.0000
QC Blank(cts):	0
Offset (cts):	7024
Offset (ugC):	-1.049
Reagent Blank (cts):	2 598
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

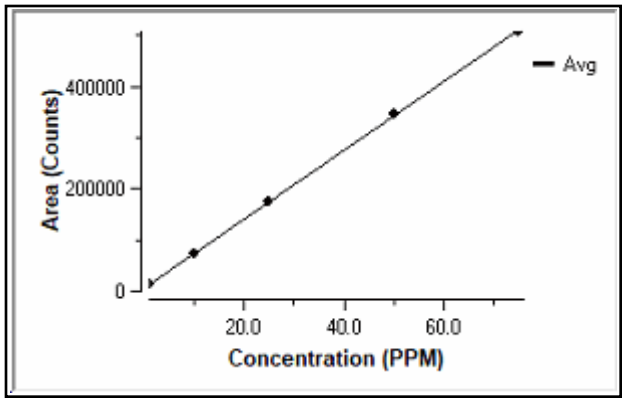
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Cust ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	-	Clean Up	2	2	DefaultCleanUpMethod	Clean Up	1 : 1	00000000	TC	60 910	0.000	0.000	13 334	21.89	
2	1	MRL	3	3	LLTOC JULY 21 21 - Jul 21, 2021; 01-45-27 PM	Sample	1 : 1	00000000	TOC	11 542	1.710	0.855	329	2.85	Pass
3	2	100 CHECK	3	3	LLTOC JULY 21 21 - Jul 21, 2021; 01-45-27 PM	Sample	1 : 1	00000000	TOC	528 266	198.475	99.238	14 123	2.67	RANGE
4	3	CO CHECK	3	3	LLTOC JULY 21 21 - Jul 21, 2021; 01-45-27 PM	Sample	1 : 1	00000000	TOC	6 070	0.000	0.000	582	9.59	Pass
5	4	25 TIC CHECK	3	3	LLTOC JULY 21 21 - Jul 21, 2021; 01-45-27 PM	Sample	1 : 1	00000000	TOC	143 188	51.840	25.920	3 151	2.20	Pass
6	5	CCV	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	176 692	25.337	25.337	2 463	1.39	Pass
7	6	CCB	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	4 478	0.000	0.000	1 558	34.78	Pass
8	7	LCS	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	175 727	25.193	25.193	5 596	3.18	Pass
9	8	MB	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	4 208	0.000	0.000	1 283	30.48	Pass
10	9	620-28495-f-3	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	142 674	20.257	20.257	4 705	3.30	Pass
11	10	620-28495-g-3 DU	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	141 832	20.131	20.131	4 623	3.26	Pass
12	11	620-28495-g-3 MS	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	165 618	23.683	23.683	1 618	0.98	Pass
13	12	620-28495-f-4	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	5 511	0.004	0.004	1 392	25.26	Pass
14	13	860-108645-d-1	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	172 786	24.754	24.754	9 916	5.74	Pass
15	14	620-28538-f-4	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	296 940	43.294	43.294	14 647	4.93	Pass
16	15	620-28538-q-5	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	187 232	26.911	26.911	2 163	1.15	Pass
17	16	620-28538-f-7	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	86 730	11.903	11.903	6 562	7.57	Pass
18	17	CCV	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	173 985	24.933	24.933	5 357	3.08	Pass
19	18	CCB	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	4 098	0.000	0.000	1 206	29.43	Pass
20	19	620-28538-f-8	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	277 729	40.425	40.425	17 468	6.29	Pass
21	20	620-28538-f-9	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	5 212	0.000	0.000	1 104	21.19	Pass
22	21	620-28577-g-4	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	303 444	44.265	44.265	14 722	4.85	Pass
23	22	620-28577-f-7	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	5 292	0.000	0.000	1 266	23.92	Pass

24	23	620-28577-j-6	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	281 653	41.011	41.011	12 147	4.31	Pass
25	24	620-28577-k-6 DU	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	300 793	43.869	43.869	5 894	1.96	Pass
26	25	620-28577-k-6 MS	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	243 405	35.299	35.299	11 089	4.56	Pass
27	26	MDL	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	11 444	0.660	0.660	1 401	12.25	Pass
28	27	CCV	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	166 456	23.808	23.808	2 357	1.42	Pass
29	28	CCB	3	3	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM	Sample	1 : 1	00000000	TC	4 493	0.000	0.000	1 292	28.76	Pass

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Sample Results

Spl #: 1 **Sample ID :** Clean Up **Type :** Clean Up **Date:** 08/19/2025 **Status:**
Vial #: - **Method :** DefaultCleanUpMethod **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	10:19 am	-	-	-	51 481	0.000	0.000
2	08/19/2025	10:26 am	-	-	-	70 338	0.000	0.000
		Avg.	-	-	-	60 910	0.000	0.000
		Std.Dev.						
		% RSD.				21.89		

Spl #: 2 **Sample ID :** MRL **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 1 **Method :** LLTOC JULY 21 21 - Jul 21, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	10:35 am	-	-	-	11 717	1.777	0.888
2	08/19/2025	10:43 am	-	-	-	11 747	1.788	0.894
3	08/19/2025	10:52 am	-	-	-	11 162	1.565	0.783
		Avg.	-	-	-	11 542	1.710	0.855
		Std.Dev.						
		% RSD.				2.85		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 3 **Sample ID :** 100 CHECK **Type :** Sample **Date:** 08/19/2025 **Status:** RANGE
Vial #: 2 **Method :** LLTOC JULY 21 21 - Jul 21, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:02 am	-	-	-	542 925	204.057	102.029
2	08/19/2025	11:11 am	-	-	-	514 748	193.328	96.664
3	08/19/2025	11:20 am	-	-	-	527 123	198.040	99.020
		Avg.	-	-	-	528 266	198.475	99.238
		Std.Dev.						
		% RSD.				2.67		

Spl #: 4 **Sample ID :** CO CHECK **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 3 **Method :** LLTOC JULY 21 21 - Jul 21, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:29 am	-	-	-	6 740	0.000	0.000
2	08/19/2025	11:37 am	-	-	-	5 690	0.000	0.000
3	08/19/2025	11:45 am	-	-	-	5 779	0.000	0.000
		Avg.	-	-	-	6 070	0.000	0.000
		Std.Dev.						
		% RSD.				9.59		

Spl #: 5 **Sample ID :** 25 TIC CHECK **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 4 **Method :** LLTOC JULY 21 21 - Jul 21, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:55 am	-	-	-	140 371	50.767	25.384
2	08/19/2025	12:03 pm	-	-	-	146 591	53.136	26.568
3	08/19/2025	12:11 pm	-	-	-	142 600	51.616	25.807
		Avg.	-	-	-	143 188	51.840	25.920
		Std.Dev.						
		% RSD.				2.20		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 6 **Sample ID :** CCV **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 5 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	12:19 pm	-	-	-	178 562	25.616	25.616
2	08/19/2025	12:26 pm	-	-	-	177 614	25.475	25.475
3	08/19/2025	12:33 pm	-	-	-	173 901	24.920	24.920
		Avg.	-	-	-	176 692	25.337	25.337
		Std.Dev.						
		% RSD.				1.39		

Spl #: 7 **Sample ID :** CCB **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 6 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	12:41 pm	-	-	-	6 276	0.000	0.000
2	08/19/2025	12:48 pm	-	-	-	3 540	0.000	0.000
3	08/19/2025	12:54 pm	-	-	-	3 617	0.000	0.000
		Avg.	-	-	-	4 478	0.000	0.000
		Std.Dev.						
		% RSD.				34.78		

Spl #: 8 **Sample ID :** LCS **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 7 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	1:02 pm	-	-	-	181 212	26.012	26.012
2	08/19/2025	1:09 pm	-	-	-	170 027	24.342	24.342
3	08/19/2025	1:16 pm	-	-	-	175 944	25.225	25.225
		Avg.	-	-	-	175 727	25.193	25.193
		Std.Dev.						
		% RSD.				3.18		

Spl #: 9 **Sample ID :** MB **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 8 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	1:24 pm	-	-	-	5 687	0.000	0.000
2	08/19/2025	1:31 pm	-	-	-	3 400	0.000	0.000
3	08/19/2025	1:37 pm	-	-	-	3 536	0.000	0.000
		Avg.	-	-	-	4 208	0.000	0.000
		Std.Dev.						
		% RSD.				30.48		

Spl #: 10 **Sample ID :** 620-28495-f-3 **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 9 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	1:45 pm	-	-	-	141 586	20.094	20.094
2	08/19/2025	1:51 pm	-	-	-	147 827	21.026	21.026
3	08/19/2025	1:58 pm	-	-	-	138 608	19.650	19.650
		Avg.	-	-	-	142 674	20.257	20.257
		Std.Dev.						
		% RSD.				3.30		

Spl #:	11	**Sample ID :**	620-28495-g-3 DU	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	10	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	2:06 pm	-	-	-	146 682	20.855	20.855
2	08/19/2025	2:12 pm	-	-	-	137 476	19.481	19.481
3	08/19/2025	2:18 pm	-	-	-	141 339	20.058	20.058
		Avg.	-	-	-	141 832	20.131	20.131
		Std.Dev.						
		% RSD.				3.26		

Spl #:	12	**Sample ID :**	620-28495-g-3 MS	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	11	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	2:26 pm	-	-	-	167 407	23.950	23.950
2	08/19/2025	2:33 pm	-	-	-	164 257	23.480	23.480
3	08/19/2025	2:39 pm	-	-	-	165 190	23.619	23.619
		Avg.	-	-	-	165 618	23.683	23.683
		Std.Dev.						
		% RSD.				0.98		

Spl #: 13 Sample ID : 620-28495-f-4 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 12 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	2:47 pm	-	-	-	7 111	0.013	0.012
2	08/19/2025	2:54 pm	-	-	-	4 852	0.000	0.000
3	08/19/2025	3:00 pm	-	-	-	4 572	0.000	0.000
		Avg.	-	-	-	5 511	0.004	0.004
		Std.Dev.						
		% RSD.				25.26		

Spl #: 14 Sample ID : 860-108645-d-1 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 13 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	3:08 pm	-	-	-	162 975	23.288	23.288
2	08/19/2025	3:14 pm	-	-	-	182 803	26.250	26.250
3	08/19/2025	3:20 pm	-	-	-	172 579	24.723	24.723
		Avg.	-	-	-	172 786	24.754	24.754
		Std.Dev.						
		% RSD.				5.74		

Spl #: 15 Sample ID : 620-28538-f-4 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 14 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	3:28 pm	-	-	-	280 349	40.816	40.816
2	08/19/2025	3:35 pm	-	-	-	302 393	44.108	44.108
3	08/19/2025	3:41 pm	-	-	-	308 078	44.957	44.957
		Avg.	-	-	-	296 940	43.294	43.294
		Std.Dev.						
		% RSD.				4.93		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	16	**Sample ID :**	620-28538-q-5	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	15	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	3:49 pm	-	-	-	184 754	26.541	26.541
2	08/19/2025	3:55 pm	-	-	-	188 206	27.056	27.056
3	08/19/2025	4:01 pm	-	-	-	188 737	27.136	27.136
		Avg.	-	-	-	187 232	26.911	26.911
		Std.Dev.						
		% RSD.				1.15		

Spl #:	17	**Sample ID :**	620-28538-f-7	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	16	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	4:09 pm	-	-	-	94 262	13.027	13.027
2	08/19/2025	4:15 pm	-	-	-	83 686	11.448	11.448
3	08/19/2025	4:22 pm	-	-	-	82 243	11.233	11.233
		Avg.	-	-	-	86 730	11.903	11.903
		Std.Dev.						
		% RSD.				7.57		

Spl #:	18	**Sample ID :**	CCV	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	17	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	4:30 pm	-	-	-	167 827	24.013	24.013
2	08/19/2025	4:37 pm	-	-	-	177 564	25.467	25.467
3	08/19/2025	4:43 pm	-	-	-	176 565	25.318	25.318
		Avg.	-	-	-	173 985	24.933	24.933
		Std.Dev.						
		% RSD.				3.08		

Spl #:	19	**Sample ID :**	CCB	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	18	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	4:51 pm	-	-	-	5 471	0.000	0.000
2	08/19/2025	4:58 pm	-	-	-	3 615	0.000	0.000
3	08/19/2025	5:05 pm	-	-	-	3 209	0.000	0.000
		Avg.	-	-	-	4 098	0.000	0.000
		Std.Dev.						
		% RSD.				29.43		

Spl #:	20	**Sample ID :**	620-28538-f-8	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	19	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	5:13 pm	-	-	-	270 175	39.297	39.297
2	08/19/2025	5:19 pm	-	-	-	297 703	43.408	43.408
3	08/19/2025	5:25 pm	-	-	-	265 308	38.570	38.570
		Avg.	-	-	-	277 729	40.425	40.425
		Std.Dev.						
		% RSD.				6.29		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	21	**Sample ID :**	620-28538-f-9	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	20	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	5:33 pm	-	-	-	6 476	0.000	0.000
2	08/19/2025	5:39 pm	-	-	-	4 726	0.000	0.000
3	08/19/2025	5:46 pm	-	-	-	4 433	0.000	0.000
		Avg.	-	-	-	5 212	0.000	0.000
		Std.Dev.						
		% RSD.				21.19		

Spl #:	22	**Sample ID :**	620-28577-g-4	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	21	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	5:53 pm	-	-	-	294 995	43.003	43.003
2	08/19/2025	6:00 pm	-	-	-	294 893	42.988	42.988
3	08/19/2025	6:06 pm	-	-	-	320 444	46.804	46.804
		Avg.	-	-	-	303 444	44.265	44.265
		Std.Dev.						
		% RSD.				4.85		

Spl #: 23 Sample ID : 620-28577-f-7 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 22 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	6:14 pm	-	-	-	6 743	0.000	0.000
2	08/19/2025	6:20 pm	-	-	-	4 717	0.000	0.000
3	08/19/2025	6:26 pm	-	-	-	4 415	0.000	0.000
		Avg.	-	-	-	5 292	0.000	0.000
		Std.Dev.						
		% RSD.				23.92		

Spl #: 24 Sample ID : 620-28577-j-6 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 23 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	6:34 pm	-	-	-	285 855	41.638	41.638
2	08/19/2025	6:40 pm	-	-	-	291 141	42.428	42.428
3	08/19/2025	6:47 pm	-	-	-	267 962	38.967	38.967
		Avg.	-	-	-	281 653	41.011	41.011
		Std.Dev.						
		% RSD.				4.31		

Spl #: 25 Sample ID : 620-28577-k-6 DU Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 24 Method : LLTC FEB 6 24 - Feb 06, 2024; 06 Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	6:54 pm	-	-	-	297 981	43.449	43.449
2	08/19/2025	7:01 pm	-	-	-	296 831	43.277	43.277
3	08/19/2025	7:07 pm	-	-	-	307 566	44.881	44.881
		Avg.	-	-	-	300 793	43.869	43.869
		Std.Dev.						
		% RSD.				1.96		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	26	**Sample ID :**	620-28577-k-6 MS	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	25	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	7:15 pm	-	-	-	245 152	35.560	35.560
2	08/19/2025	7:21 pm	-	-	-	231 545	33.528	33.528
3	08/19/2025	7:27 pm	-	-	-	253 516	36.809	36.809
		Avg.	-	-	-	243 405	35.299	35.299
		Std.Dev.						
		% RSD.				4.56		

Spl #:	27	**Sample ID :**	MDL	**Type :**	Sample	**Date:**	08/19/2025	**Status:**	Pass
Vial #:	26	**Method :**	LLTC FEB 6 24 - Feb 06, 2024; 06	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	7:35 pm	-	-	-	13 032	0.897	0.897
2	08/19/2025	7:42 pm	-	-	-	10 917	0.581	0.581
3	08/19/2025	7:48 pm	-	-	-	10 382	0.502	0.502
		Avg.	-	-	-	11 444	0.660	0.660
		Std.Dev.						
		% RSD.				12.25		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 28 **Sample ID :** CCV **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 27 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	7:57 pm	-	-	-	166 785	23.857	23.857
2	08/19/2025	8:03 pm	-	-	-	163 953	23.435	23.435
3	08/19/2025	8:10 pm	-	-	-	168 631	24.133	24.133
		Avg.	-	-	-	166 456	23.808	23.808
		Std.Dev.						
		% RSD.				1.42		

Spl #: 29 **Sample ID :** CCB **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 28 **Method :** LLTC FEB 6 24 - Feb 06, 2024; 06 **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	8:18 pm	-	-	-	5 715	0.000	0.000
2	08/19/2025	8:25 pm	-	-	-	4 625	0.000	0.000
3	08/19/2025	8:31 pm	-	-	-	3 140	0.000	0.000
		Avg.	-	-	-	4 493	0.000	0.000
		Std.Dev.						
		% RSD.				28.76		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Method Summary

Method Details

Method Name:	LLTC FEB 6 24 - Feb 06, 2024; 06-02-35 AM
Date Created:	02/06/2024
Time Created:	6:01
Created By:	TOC

Analysis Mode: TC Only

Sparging Mode:	n/a
Pre-Acid Volume (mL):	n/a
Sparge Time (mm:ss):	n/a

Volumes

Sample Volume (mL):	1.000
Acid Volume (mL):	0.000
Persulfate Volume (mL):	2.500

Other

SysPressure:	20.00

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1

Times

	React	Detect
TIC	02:30	04:00
TOC	03:00	04:00

Temp

	React	Detect
TIC	70	70
TOC	98	98

Outlier Removal Criteria

Enabled:	No
Additional Replicates:	1
Max. % RSD.	10.00

Rinses

Rinse Volume (mL):	15.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Max. Std. Dev. 100 Use Modified Oxidant: No

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Mode

Primary Mode:	TC
User for ALL Modes:	Enabled

Calibration Pass/Fail Criteria

Parameter	Enabled	Low	High	Failure
R² (ugC/K-cts)	Yes	0.1000	0.3000	Continue
	Yes	0.950	1.000	Continue
Offset (area) (cts)	No	-	-	-
Offset (mass) (ugC)	No	-	-	-
QC Blank(cts)	No	-	-	-

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10.00	Re-run	Continue
QC #1	0.000	10.00	Re-run	Continue
QC #2	0.000	10.00	Re-run	Continue
QC #3	0.000	10.00	Re-run	Continue
QC #4	0.000	10.00	Re-run	Continue
SST	0.000	15.00	Abort	Abort

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TC
Date Calibrated:	08/18/2025
Time Calibrated:	6:22 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.1493
R2:	0.9999
R:	1.0000
QC Blank(cts):	0
Offset (cts):	7024
Offset (ugC):	-1.049
Reagent Blank (cts):	2 598
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

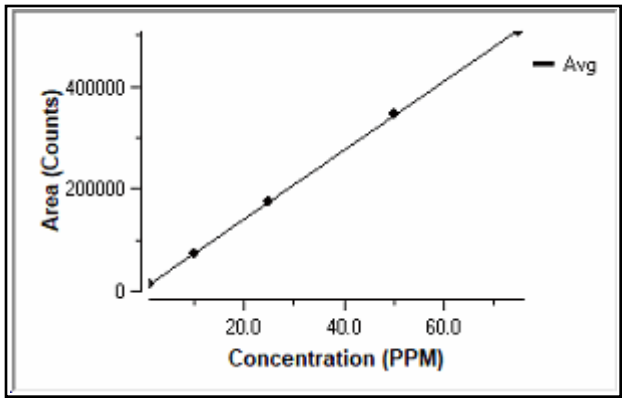
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Method Summary

Method Details

Method Name:	LLTOC JULY 21 21 - Jul 21, 2021; 01-45-27 PM
Date Created:	07/21/2021
Time Created:	13:51
Created By:	toc

Analysis Mode: NPOC Only

Sparging Mode:	Internal
Pre-Acid Volume (mL):	1.000
Sparge Time (mm:ss):	02:00

Volumes

Sample Volume (mL):	2.000
Acid Volume (mL):	0.500
Persulfate Volume (mL):	2.500

Other

SysPressure:	20.00

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1

Times

	React	Detect
TIC	01:30	03:00
TOC	02:00	03:00

Temp

	React	Detect
TIC	70	70
TOC	98	98

Outlier Removal Criteria

Enabled:	No
Additional Replicates:	1
Max. % RSD.	10.00

Rinses

Rinse Volume (mL):	15.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Max. Std. Dev. 100 Use Modified Oxidant: No

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Mode

Primary Mode:	TOC
User for ALL Modes:	Enabled

Calibration Pass/Fail Criteria

Parameter	Enabled	Low	High	Failure
R² (ugC/K-cts)	Yes	0.1000	0.3000	Continue
	Yes	0.950	1.000	Continue
Offset (area) (cts)	No	-	-	-
Offset (mass) (ugC)	No	-	-	-
QC Blank(cts)	No	-	-	-

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10.00	Re-run	Continue
QC #1	0.000	10.00	Re-run	Continue
QC #2	0.000	10.00	Re-run	Continue
QC #3	0.000	10.00	Re-run	Continue
QC #4	0.000	10.00	Re-run	Continue
SST	0.000	15.00	Abort	Abort

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TOC
Date Calibrated:	07/24/2025
Time Calibrated:	3:50 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.3808
R2:	0.9991
R:	0.9995
QC Blank(cts):	0
Offset (cts):	7052
Offset (ugC):	-2.685
Reagent Blank (cts):	3 058
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		2
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

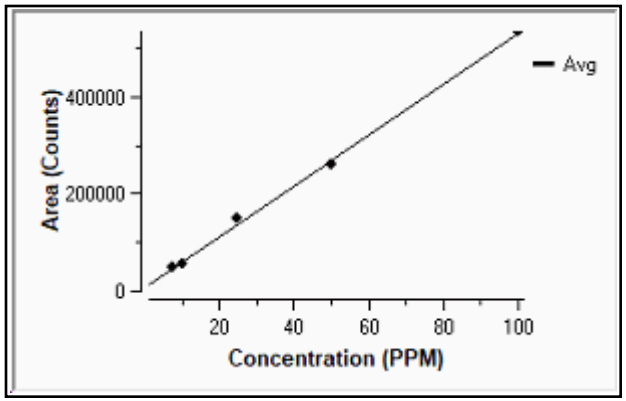
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

Method:	5310C/9060/415.1
Analyte:	Total Organic Carbon
Calibration Date and Time:	8/18/2025 1753
Run Name:	25230CALG03
Instrument:	80742
RF:	0.4535
Volume:	2
Offset/RB area	992

Curve Type: Linear

CAL PT	Xi = True Value	Units	Area Ct	Corrected Area Ct (Area Ct - Offset/RB area)	X'I = Measured Value	Percent Error (X'i - (Xi / Xi)) x 100	Criteria	Pass/Fail
1	1	mg/L	6166	5174	1.17	17.3%	50%	PASS
2	7.5	mg/L	33542	32550	7.38	-1.6%	10%	PASS
3	10	mg/L	43006	42014	9.53	-4.7%	10%	PASS
4	25	mg/L	112747	111755	25.34	1.4%	10%	PASS
5	50	mg/L	220497	219505	49.77	-0.5%	10%	PASS
6	100	mg/L	442383	441391	100.09	0.1%	10%	PASS

Calculation spreadsheet based off of NELAC Calculation Spreadsheet https://nelac-institute.org/news.php?id=2847

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Cust ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	-	Clean Up	2	2	DefaultCleanUpMethod	Clean Up	1 : 1	00000000	TC	30 413	0.000	0.000	177	0.58	
2	1	RINSE	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	2 216	0.506	0.252	0	0.00	Pass
3	2	METHOD BLANK	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	QC Blank	1 : 1	00000000	TOC	1 655	0.000	0.000	0	0.00	
5	3	TOC-RW	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	1 980	0.000	0.000	0	0.00	
6	4	TOC-Std#1-1.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	6 166	2.000	1.000	0	0.00	
7	5	TOC-Std#2-7.500 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	33 542	15.000	7.500	0	0.00	
8	6	TOC-Std#3-10.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	43 006	20.000	10.000	0	0.00	
9	7	TOC-Std#4-25.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	112 747	50.000	25.000	0	0.00	
10	8	TOC-Std#5-50.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	220 497	100.000	50.000	0	0.00	
11	9	TOC-Std#6-100.000 PPM	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Std	1 : 1	00000000	TOC	442 383	200.000	100.000	0	0.00	
12	10	RINSE	2	2	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	2 194	0.545	0.273	1 033	47.09	Pass
13	11	ICV	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	112 752	50.682	25.341	0	0.00	Pass
14	12	ICB	1	1	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 769	0.353	0.176	0	0.00	Pass

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Sample Results

Spl #: 1 **Sample ID :** Clean Up **Type :** Clean Up **Date:** 08/18/2025 **Status:**
Vial #: - **Method :** DefaultCleanUpMethod **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/18/2025	3:51 pm	-	-	-	30 538	0.000	0.000
2	08/18/2025	3:55 pm	-	-	-	30 288	0.000	0.000
		Avg.	-	-	-	30 413	0.000	0.000
		Std.Dev.						
		% RSD.				0.58		

Spl #: 2 **Sample ID :** RINSE **Type :** Sample **Date:** 08/18/2025 **Status:** Pass
Vial #: 1 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	4:02 pm	-	-	-	2 216	0.506	0.252
		Avg.	-	-	-	2 216	0.506	0.252
		Std.Dev.						
		% RSD.				0.00		

Spl #: 3 **Sample ID :** METHOD BLANK **Type :** QC Blank **Date:** 08/18/2025 **Status:**
Vial #: 2 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	4:09 pm	-	-	-	1 655	0.000	0.000
		Avg.	-	-	-	1 655	0.000	0.000
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 By: TOC

Date Approved: By:

Spl #: 5 Sample ID : TOC-RW Type : Std Date: 08/18/2025 Status:
Vial #: 3 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	4:46 pm	-	-	-	1 980	0.000	0.000
		Avg.	-	-	-	1 980	0.000	0.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 6 Sample ID : TOC-Std#1-1.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 4 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	4:56 pm	-	-	-	6 166	2.000	1.000
		Avg.	-	-	-	6 166	2.000	1.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 7 Sample ID : TOC-Std#2-7.500 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 5 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:04 pm	-	-	-	33 542	15.000	7.500
		Avg.	-	-	-	33 542	15.000	7.500
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 By: TOC

Date Approved: By:

Spl #: 8 Sample ID : TOC-Std#3-10.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 6 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:13 pm	-	-	-	43 006	20.000	10.000
		Avg.	-	-	-	43 006	20.000	10.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 9 Sample ID : TOC-Std#4-25.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 7 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:21 pm	-	-	-	112 747	50.000	25.000
		Avg.	-	-	-	112 747	50.000	25.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 10 Sample ID : TOC-Std#5-50.000 PPM Type : Std Date: 08/18/2025 Status:
Vial #: 8 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:30 pm	-	-	-	220 497	100.000	50.000
		Avg.	-	-	-	220 497	100.000	50.000
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Spl #: 11 **Sample ID :** TOC-Std#6-100.000 PPM **Type :** Std **Date:** 08/18/2025 **Status:**
Vial #: 9 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:38 pm	-	-	-	442 383	200.000	100.000
		Avg.	-	-	-	442 383	200.000	100.000
		Std.Dev.						
		% RSD.				0.00		

Spl #: 12 **Sample ID :** RINSE **Type :** Sample **Date:** 08/18/2025 **Status:** Pass
Vial #: 10 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	5:48 pm	-	-	-	1 463	0.214	0.107
2	08/18/2025	5:54 pm	-	-	-	2 924	0.876	0.438
		Avg.	-	-	-	2 194	0.545	0.273
		Std.Dev.						
		% RSD.				47.09		

Spl #: 13 **Sample ID :** ICV **Type :** Sample **Date:** 08/18/2025 **Status:** Pass
Vial #: 11 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	6:03 pm	-	-	-	112 752	50.682	25.341
		Avg.	-	-	-	112 752	50.682	25.341
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Spl #:	14	**Sample ID :**	ICB	**Type :**	Sample	**Date:**	08/18/2025	**Status:**	Pass
Vial #:	12	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/18/2025	6:10 pm	-	-	-	1 769	0.353	0.176
		Avg.	-	-	-	1 769	0.353	0.176
		Std.Dev.						
		% RSD.				0.00		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Method Summary

Method Details

Method Name:	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM
Date Created:	03/10/2021
Time Created:	11:46
Created By:	toc

Analysis Mode: NPOC Only

Sparging Mode:	Internal
Pre-Acid Volume (mL):	1.000
Sparge Time (mm:ss):	02:00

Volumes

Sample Volume (mL):	2.000
Acid Volume (mL):	0.500
Persulfate Volume (mL):	2.500

Other

SysPressure:	20.00

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1

Times

	React	Detect
TIC	01:30	03:00
TOC	02:00	03:00

Temp

	React	Detect
TIC	70	70
TOC	98	98

Outlier Removal Criteria

Enabled:	No
Additional Replicates:	1
Max. % RSD.	10.00

Rinses

Rinse Volume (mL):	15.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Max. Std. Dev. 100 Use Modified Oxidant: No

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Mode

Primary Mode:	TOC
User for ALL Modes:	Enabled

Calibration Pass/Fail Criteria

Parameter	Enabled	Low	High	Failure
R² (ugC/K-cts)	Yes	0.1000	0.3000	Continue
	Yes	0.950	1.000	Continue
Offset (area) (cts)	No	-	-	-
Offset (mass) (ugC)	No	-	-	-
QC Blank(cts)	No	-	-	-

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10.00	Re-run	Continue
QC #1	0.000	10.00	Re-run	Continue
QC #2	0.000	10.00	Re-run	Continue
QC #3	0.000	10.00	Re-run	Continue
QC #4	0.000	10.00	Re-run	Continue
SST	0.000	15.00	Abort	Abort

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TOC
Date Calibrated:	07/17/2025
Time Calibrated:	2:24 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.4641
R2:	0.9999
R:	0.9999
QC Blank(cts):	0
Offset (cts):	1126
Offset (ugC):	-0.523
Reagent Blank (cts):	562
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

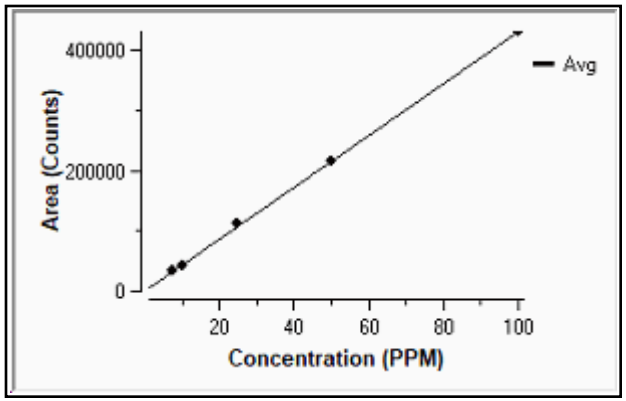
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/19/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TOC
Date Calibrated:	08/18/2025
Time Calibrated:	5:38 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.4535
R2:	0.9999
R:	1.0000
QC Blank(cts):	0
Offset (cts):	992
Offset (ugC):	-0.450
Reagent Blank (cts):	1 282
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

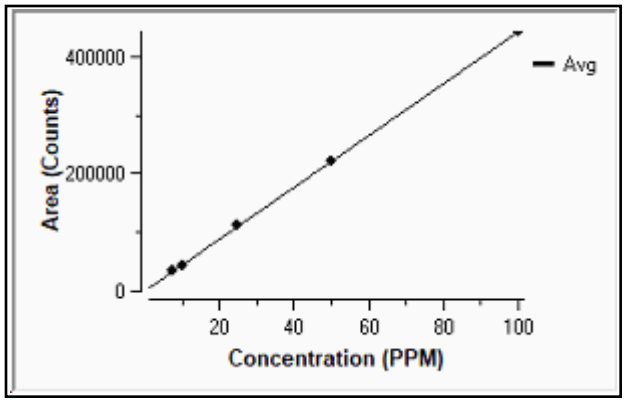
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Cust ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	-	Clean Up	2	2	DefaultCleanUpMethod	Clean Up	1 : 1	00000000	TC	19 048	0.000	0.000	36	0.19	
2	1	MRL	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 133	1.878	0.939	156	3.04	Pass
3	2	100 CHECK	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	431 911	195.418	97.709	6 563	1.52	Pass
4	3	CO CHECK	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 960	0.439	0.220	150	7.65	Pass
5	4	25 TIC CHECK	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	106 101	47.666	23.833	1 902	1.79	Pass
6	5	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	208 126	93.934	46.967	1 381	0.66	Pass
7	6	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 734	0.337	0.168	263	15.17	Pass
8	7	LCS	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	208 950	94.307	47.154	2 390	1.14	Pass
9	8	MB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 571	0.263	0.132	394	25.07	Pass
10	9	620-28495-d-3	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	43 346	19.207	9.604	1 078	2.49	Pass
11	10	620-28495-e-3 DU	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	44 098	19.548	9.774	1 131	2.57	Pass
12	11	620-28495-e-3 MS	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	88 011	39.462	19.731	1 506	1.71	Pass
13	12	620-28538-d-4	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	25 906	11.298	5.649	935	3.61	Pass
14	13	620-28538-o-5	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	16 579	7.069	3.534	301	1.82	Pass
15	14	620-28538-d-7	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	11 203	4.631	2.315	553	4.94	Pass
16	15	620-28538-d-8	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	26 494	11.565	5.783	829	3.13	Pass
17	16	620-28538-d-9	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	2 612	0.735	0.367	269	10.29	Pass
18	17	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	104 257	46.830	23.415	1 720	1.65	Pass
19	18	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 656	0.301	0.151	399	24.08	Pass
20	19	620-28555-d-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 473	2.032	1.016	144	2.64	Pass
21	20	620-28555-d-4	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 410	2.004	1.002	242	4.47	Pass
22	21	620-28555-d-6	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	8 386	3.353	1.677	119	1.42	Pass
23	22	620-28555-d-8	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	13 618	5.726	2.863	305	2.24	Pass

24	23	620-28556-d-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 478	1.581	0.791	191	4.25	Pass
25	24	620-28556-e-2 DU	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 231	1.469	0.735	167	3.95	Pass
26	25	620-28556-e-2 MS	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	48 627	21.602	10.801	550	1.13	Pass
27	26	620-28556-d-4	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 032	1.378	0.689	253	6.28	Pass
28	27	620-28556-d-6	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 192	1.451	0.725	162	3.86	Pass
29	28	620-28556-d-8	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	6 126	2.328	1.164	175	2.86	Pass
30	29	CCVL	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	22 165	9.602	4.801	148	0.67	Pass
31	30	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 467	0.215	0.108	182	12.42	Pass
32	31	410-235982-d-22^50	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	98 275	44.117	22.059	2 662	2.71	Pass
33	32	620-28577-d-4	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	13 710	5.767	2.883	302	2.20	Pass
34	33	620-28577-h-6	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	13 922	5.864	2.932	211	1.52	Pass
35	34	620-28577-d-7	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 842	0.386	0.193	142	7.71	Pass
36	35	410-234907-h-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	6 316	2.414	1.207	125	1.98	Pass
37	36	410-234907-h-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	11 884	4.939	2.470	150	1.26	Pass
38	37	LCS	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	227 232	102.598	51.299	2 308	1.02	Pass
39	38	MB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 460	0.212	0.106	302	20.68	Pass
40	39	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	107 189	48.159	24.079	571	0.53	Pass
41	40	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 420	0.194	0.097	235	16.58	Pass
42	41	410-236298-g-3^10	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	95 113	42.683	21.342	1 417	1.49	Pass
43	42	410-236298-h-3 DU^10	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	104 958	47.148	23.573	1 623	1.55	Pass
44	43	410-236298-h-3 MS^10	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	135 302	60.908	30.454	2 089	1.54	Pass
45	44	410-236298-g-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 796	0.364	0.182	237	13.23	Pass
46	45	410-236298-g-4^25	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	41 152	18.212	9.106	606	1.47	Pass
47	46	410-236320-a-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 551	2.068	1.034	157	2.83	Pass
48	47	410-236320-a-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	4 524	1.602	0.801	27	0.59	Pass

49	48	410-236320-a-3	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	5 359	1.980	0.990	120	2.23	Pass
50	49	410-236683-a-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	38 459	16.991	8.496	795	2.07	Pass
51	50	410-236741-b-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	18 276	7.838	3.919	728	3.99	Pass
52	51	CCV	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	210 964	95.220	47.611	1 722	0.82	Pass
53	52	CCB	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	1 718	0.329	0.164	357	20.79	Pass
54	53	410-236750-b-1	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	11 386	4.714	2.357	183	1.61	Pass
55	54	410-236750-b-2	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	6 992	2.721	1.361	198	2.83	Pass
56	55	680-266382-g-5	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	3 711	1.233	0.616	28	0.74	Pass
57	56	680-266382-G-5 ms	3	3	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM	Sample	1 : 1	00000000	TOC	49 137	21.833	10.917	697	1.42	Pass

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Sample Results

Spl #: 1 **Sample ID :** Clean Up **Type :** Clean Up **Date:** 08/19/2025 **Status:**
Vial #: - **Method :** DefaultCleanUpMethod **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TC Area (cts)	TC Mass (ugC)	TC Conc (PPM)
1	08/19/2025	7:08 pm	-	-	-	19 074	0.000	0.000
2	08/19/2025	7:12 pm	-	-	-	19 023	0.000	0.000
		Avg.	-	-	-	19 048	0.000	0.000
		Std.Dev.						
		% RSD.				0.19		

Spl #: 2 **Sample ID :** MRL **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 1 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	7:19 pm	-	-	-	5 186	1.902	0.951
2	08/19/2025	7:24 pm	-	-	-	4 957	1.798	0.899
3	08/19/2025	7:30 pm	-	-	-	5 254	1.933	0.967
		Avg.	-	-	-	5 133	1.878	0.939
		Std.Dev.						
		% RSD.				3.04		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 3 **Sample ID :** 100 CHECK **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 2 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	7:39 pm	-	-	-	427 795	193.552	96.776
2	08/19/2025	7:45 pm	-	-	-	439 480	198.851	99.425
3	08/19/2025	7:51 pm	-	-	-	428 458	193.852	96.926
		Avg.	-	-	-	431 911	195.418	97.709
		Std.Dev.						
		% RSD.				1.52		

Spl #: 4 **Sample ID :** CO CHECK **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 3 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	7:58 pm	-	-	-	1 787	0.360	0.180
2	08/19/2025	8:04 pm	-	-	-	2 049	0.479	0.240
3	08/19/2025	8:10 pm	-	-	-	2 044	0.477	0.239
		Avg.	-	-	-	1 960	0.439	0.220
		Std.Dev.						
		% RSD.				7.65		

Spl #: 5 **Sample ID :** 25 TIC CHECK **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 4 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	8:19 pm	-	-	-	104 035	46.729	23.365
2	08/19/2025	8:24 pm	-	-	-	107 782	48.428	24.214
3	08/19/2025	8:30 pm	-	-	-	106 486	47.841	23.920
		Avg.	-	-	-	106 101	47.666	23.833
		Std.Dev.						
		% RSD.				1.79		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 6 **Sample ID :** CCV **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 5 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	8:38 pm	-	-	-	207 476	93.639	46.819
2	08/19/2025	8:44 pm	-	-	-	207 191	93.509	46.755
3	08/19/2025	8:49 pm	-	-	-	209 712	94.653	47.326
		Avg.	-	-	-	208 126	93.934	46.967
		Std.Dev.						
		% RSD.				0.66		

Spl #: 7 **Sample ID :** CCB **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 6 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	8:58 pm	-	-	-	1 556	0.256	0.128
2	08/19/2025	9:03 pm	-	-	-	2 036	0.474	0.237
3	08/19/2025	9:09 pm	-	-	-	1 610	0.280	0.140
		Avg.	-	-	-	1 734	0.337	0.168
		Std.Dev.						
		% RSD.				15.17		

Spl #: 8 Sample ID : LCS Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 7 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	9:18 pm	-	-	-	207 471	93.637	46.818
2	08/19/2025	9:24 pm	-	-	-	207 671	93.727	46.864
3	08/19/2025	9:29 pm	-	-	-	211 706	95.557	47.779
		Avg.	-	-	-	208 950	94.307	47.154
		Std.Dev.						
		% RSD.				1.14		

Spl #: 9 Sample ID : MB Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 8 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	9:37 pm	-	-	-	1 244	0.114	0.057
2	08/19/2025	9:43 pm	-	-	-	2 008	0.461	0.231
3	08/19/2025	9:49 pm	-	-	-	1 462	0.213	0.107
		Avg.	-	-	-	1 571	0.263	0.132
		Std.Dev.						
		% RSD.				25.07		

Spl #: 10 Sample ID : 620-28495-d-3 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 9 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	9:57 pm	-	-	-	42 765	18.944	9.472
2	08/19/2025	10:03 pm	-	-	-	42 682	18.906	9.453
3	08/19/2025	10:09 pm	-	-	-	44 589	19.771	9.886
		Avg.	-	-	-	43 346	19.207	9.604
		Std.Dev.						
		% RSD.				2.49		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 11 **Sample ID :** 620-28495-e-3 DU **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 10 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	10:18 pm	-	-	-	43 086	19.089	9.545
2	08/19/2025	10:23 pm	-	-	-	45 319	20.102	10.051
3	08/19/2025	10:29 pm	-	-	-	43 889	19.454	9.727
		Avg.	-	-	-	44 098	19.548	9.774
		Std.Dev.						
		% RSD.				2.57		

Spl #: 12 **Sample ID :** 620-28495-e-3 MS **Type :** Sample **Date:** 08/19/2025 **Status:** Pass
Vial #: 11 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	10:38 pm	-	-	-	87 731	39.335	19.668
2	08/19/2025	10:44 pm	-	-	-	86 664	38.852	19.426
3	08/19/2025	10:49 pm	-	-	-	89 637	40.200	20.100
		Avg.	-	-	-	88 011	39.462	19.731
		Std.Dev.						
		% RSD.				1.71		

Spl #: 13 Sample ID : 620-28538-d-4 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 12 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	10:59 pm	-	-	-	25 020	10.896	5.448
2	08/19/2025	11:04 pm	-	-	-	26 884	11.742	5.871
3	08/19/2025	11:10 pm	-	-	-	25 813	11.256	5.628
		Avg.	-	-	-	25 906	11.298	5.649
		Std.Dev.						
		% RSD.				3.61		

Spl #: 14 Sample ID : 620-28538-o-5 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 13 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:18 pm	-	-	-	16 276	6.931	3.466
2	08/19/2025	11:24 pm	-	-	-	16 582	7.070	3.535
3	08/19/2025	11:29 pm	-	-	-	16 879	7.205	3.602
		Avg.	-	-	-	16 579	7.069	3.534
		Std.Dev.						
		% RSD.				1.82		

Spl #: 15 Sample ID : 620-28538-d-7 Type : Sample Date: 08/19/2025 Status: Pass
Vial #: 14 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:38 pm	-	-	-	10 568	4.343	2.171
2	08/19/2025	11:44 pm	-	-	-	11 582	4.803	2.401
3	08/19/2025	11:50 pm	-	-	-	11 459	4.746	2.373
		Avg.	-	-	-	11 203	4.631	2.315
		Std.Dev.						
		% RSD.				4.94		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 16 **Sample ID :** 620-28538-d-8 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 15 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/19/2025	11:58 pm	-	-	-	26 292	11.473	5.737
2	08/20/2025	12:04 am	-	-	-	25 785	11.243	5.622
3	08/20/2025	12:09 am	-	-	-	27 406	11.978	5.989
		Avg.	-	-	-	26 494	11.565	5.783
		Std.Dev.						
		% RSD.				3.13		

Spl #: 17 **Sample ID :** 620-28538-d-9 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 16 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:18 am	-	-	-	2 665	0.759	0.379
2	08/20/2025	12:23 am	-	-	-	2 851	0.843	0.422
3	08/20/2025	12:29 am	-	-	-	2 321	0.603	0.301
		Avg.	-	-	-	2 612	0.735	0.367
		Std.Dev.						
		% RSD.				10.29		

Spl #: 18 Sample ID : CCV Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 17 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:37 am	-	-	-	103 067	46.290	23.145
2	08/20/2025	12:43 am	-	-	-	103 474	46.475	23.237
3	08/20/2025	12:49 am	-	-	-	106 230	47.725	23.862
		Avg.	-	-	-	104 257	46.830	23.415
		Std.Dev.						
		% RSD.				1.65		

Spl #: 19 Sample ID : CCB Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 18 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:57 am	-	-	-	1 378	0.175	0.088
2	08/20/2025	1:03 am	-	-	-	2 113	0.509	0.254
3	08/20/2025	1:09 am	-	-	-	1 478	0.220	0.110
		Avg.	-	-	-	1 656	0.301	0.151
		Std.Dev.						
		% RSD.				24.08		

Spl #: 20 Sample ID : 620-28555-d-2 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 19 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	1:17 am	-	-	-	5 533	2.059	1.030
2	08/20/2025	1:23 am	-	-	-	5 309	1.958	0.979
3	08/20/2025	1:28 am	-	-	-	5 578	2.080	1.039
		Avg.	-	-	-	5 473	2.032	1.016
		Std.Dev.						
		% RSD.				2.64		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 21 **Sample ID :** 620-28555-d-4 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 20 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	1:37 am	-	-	-	5 203	1.909	0.955
2	08/20/2025	1:43 am	-	-	-	5 676	2.124	1.062
3	08/20/2025	1:48 am	-	-	-	5 352	1.977	0.989
		Avg.	-	-	-	5 410	2.004	1.002
		Std.Dev.						
		% RSD.				4.47		

Spl #: 22 **Sample ID :** 620-28555-d-6 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 21 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	1:57 am	-	-	-	8 507	3.408	1.704
2	08/20/2025	2:02 am	-	-	-	8 268	3.300	1.650
3	08/20/2025	2:08 am	-	-	-	8 382	3.351	1.676
		Avg.	-	-	-	8 386	3.353	1.677
		Std.Dev.						
		% RSD.				1.42		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 23 **Sample ID :** 620-28555-d-8 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 22 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	2:17 am	-	-	-	13 284	5.574	2.787
2	08/20/2025	2:22 am	-	-	-	13 881	5.845	2.923
3	08/20/2025	2:28 am	-	-	-	13 690	5.758	2.879
		Avg.	-	-	-	13 618	5.726	2.863
		Std.Dev.						
		% RSD.				2.24		

Spl #: 24 **Sample ID :** 620-28556-d-2 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 23 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	2:36 am	-	-	-	4 474	1.579	0.790
2	08/20/2025	2:42 am	-	-	-	4 290	1.496	0.748
3	08/20/2025	2:48 am	-	-	-	4 671	1.668	0.834
		Avg.	-	-	-	4 478	1.581	0.791
		Std.Dev.						
		% RSD.				4.25		

Spl #: 25 **Sample ID :** 620-28556-e-2 DU **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 24 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	2:57 am	-	-	-	4 042	1.383	0.692
2	08/20/2025	3:02 am	-	-	-	4 297	1.499	0.749
3	08/20/2025	3:08 am	-	-	-	4 356	1.525	0.763
		Avg.	-	-	-	4 231	1.469	0.735
		Std.Dev.						
		% RSD.				3.95		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	26	**Sample ID :**	620-28556-e-2 MS	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	25	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	3:16 am	-	-	-	48 252	21.432	10.716
2	08/20/2025	3:22 am	-	-	-	48 372	21.486	10.743
3	08/20/2025	3:28 am	-	-	-	49 259	21.889	10.944
		Avg.	-	-	-	48 627	21.602	10.801
		Std.Dev.						
		% RSD.				1.13		

Spl #:	27	**Sample ID :**	620-28556-d-4	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	26	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	3:37 am	-	-	-	3 811	1.278	0.639
2	08/20/2025	3:42 am	-	-	-	4 308	1.504	0.752
3	08/20/2025	3:48 am	-	-	-	3 976	1.353	0.677
		Avg.	-	-	-	4 032	1.378	0.689
		Std.Dev.						
		% RSD.				6.28		

Spl #: 28 Sample ID : 620-28556-d-6 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 27 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	3:56 am	-	-	-	4 221	1.464	0.732
2	08/20/2025	4:02 am	-	-	-	4 017	1.372	0.686
3	08/20/2025	4:07 am	-	-	-	4 336	1.517	0.758
		Avg.	-	-	-	4 192	1.451	0.725
		Std.Dev.						
		% RSD.				3.86		

Spl #: 29 Sample ID : 620-28556-d-8 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 28 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	4:16 am	-	-	-	5 929	2.239	1.120
2	08/20/2025	4:21 am	-	-	-	6 265	2.391	1.196
3	08/20/2025	4:27 am	-	-	-	6 184	2.355	1.177
		Avg.	-	-	-	6 126	2.328	1.164
		Std.Dev.						
		% RSD.				2.86		

Spl #: 30 Sample ID : CCVL Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 29 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	4:35 am	-	-	-	22 077	9.562	4.781
2	08/20/2025	4:41 am	-	-	-	22 081	9.564	4.781
3	08/20/2025	4:46 am	-	-	-	22 336	9.679	4.840
		Avg.	-	-	-	22 165	9.602	4.801
		Std.Dev.						
		% RSD.				0.67		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 31 **Sample ID :** CCB **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 30 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	4:55 am	-	-	-	1 319	0.148	0.074
2	08/20/2025	5:01 am	-	-	-	1 670	0.308	0.154
3	08/20/2025	5:06 am	-	-	-	1 410	0.190	0.095
		Avg.	-	-	-	1 467	0.215	0.108
		Std.Dev.						
		% RSD.				12.42		

Spl #: 32 **Sample ID :** 410-235982-d-22^50 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 31 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	5:15 am	-	-	-	98 556	44.244	22.122
2	08/20/2025	5:21 am	-	-	-	95 484	42.851	21.426
3	08/20/2025	5:27 am	-	-	-	100 786	45.256	22.628
		Avg.	-	-	-	98 275	44.117	22.059
		Std.Dev.						
		% RSD.				2.71		

Spl #: 33 Sample ID : 620-28577-d-4 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 32 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	5:35 am	-	-	-	13 364	5.611	2.805
2	08/20/2025	5:41 am	-	-	-	13 839	5.826	2.912
3	08/20/2025	5:47 am	-	-	-	13 926	5.865	2.933
		Avg.	-	-	-	13 710	5.767	2.883
		Std.Dev.						
		% RSD.				2.20		

Spl #: 34 Sample ID : 620-28577-h-6 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 33 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	5:55 am	-	-	-	13 678	5.753	2.877
2	08/20/2025	6:00 am	-	-	-	14 060	5.926	2.963
3	08/20/2025	6:06 am	-	-	-	14 027	5.911	2.956
		Avg.	-	-	-	13 922	5.864	2.932
		Std.Dev.						
		% RSD.				1.52		

Spl #: 35 Sample ID : 620-28577-d-7 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 34 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	6:14 am	-	-	-	1 823	0.377	0.188
2	08/20/2025	6:20 am	-	-	-	1 993	0.454	0.227
3	08/20/2025	6:25 am	-	-	-	1 711	0.326	0.163
		Avg.	-	-	-	1 842	0.386	0.193
		Std.Dev.						
		% RSD.				7.71		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 36 **Sample ID :** 410-234907-h-1 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 35 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	6:34 am	-	-	-	6 225	2.373	1.187
2	08/20/2025	6:39 am	-	-	-	6 264	2.391	1.195
3	08/20/2025	6:45 am	-	-	-	6 458	2.479	1.239
		Avg.	-	-	-	6 316	2.414	1.207
		Std.Dev.						
		% RSD.				1.98		

Spl #: 37 **Sample ID :** 410-234907-h-2 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 36 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	6:53 am	-	-	-	11 739	4.874	2.437
2	08/20/2025	6:59 am	-	-	-	11 874	4.935	2.467
3	08/20/2025	7:05 am	-	-	-	12 039	5.010	2.505
		Avg.	-	-	-	11 884	4.939	2.470
		Std.Dev.						
		% RSD.				1.26		

Spl #: 38 Sample ID : LCS Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 37 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	7:14 am	-	-	-	228 639	103.236	51.618
2	08/20/2025	7:20 am	-	-	-	224 568	101.390	50.695
3	08/20/2025	7:25 am	-	-	-	228 488	103.168	51.584
		Avg.	-	-	-	227 232	102.598	51.299
		Std.Dev.						
		% RSD.				1.02		

Spl #: 39 Sample ID : MB Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 38 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	7:33 am	-	-	-	1 219	0.103	0.051
2	08/20/2025	7:39 am	-	-	-	1 799	0.366	0.183
3	08/20/2025	7:45 am	-	-	-	1 363	0.168	0.084
		Avg.	-	-	-	1 460	0.212	0.106
		Std.Dev.						
		% RSD.				20.68		

Spl #: 40 Sample ID : CCV Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 39 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	7:53 am	-	-	-	106 711	47.943	23.971
2	08/20/2025	7:59 am	-	-	-	107 035	48.090	24.045
3	08/20/2025	8:05 am	-	-	-	107 821	48.446	24.222
		Avg.	-	-	-	107 189	48.159	24.079
		Std.Dev.						
		% RSD.				0.53		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	41	**Sample ID :**	CCB	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	40	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	8:13 am	-	-	-	1 258	0.121	0.060
2	08/20/2025	8:19 am	-	-	-	1 690	0.317	0.158
3	08/20/2025	8:24 am	-	-	-	1 312	0.145	0.073
		Avg.	-	-	-	1 420	0.194	0.097
		Std.Dev.						
		% RSD.				16.58		

Spl #:	42	**Sample ID :**	410-236298-g-3^10	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	41	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	8:34 am	-	-	-	94 280	42.305	21.153
2	08/20/2025	8:39 am	-	-	-	94 310	42.319	21.160
3	08/20/2025	8:45 am	-	-	-	96 750	43.425	21.713
		Avg.	-	-	-	95 113	42.683	21.342
		Std.Dev.						
		% RSD.				1.49		

Spl #: 43 Sample ID : 410-236298-h-3 DU^10 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 42 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	8:54 am	-	-	-	103 183	46.343	23.171
2	08/20/2025	9:00 am	-	-	-	106 367	47.787	23.893
3	08/20/2025	9:06 am	-	-	-	105 325	47.314	23.656
		Avg.	-	-	-	104 958	47.148	23.573
		Std.Dev.						
		% RSD.				1.55		

Spl #: 44 Sample ID : 410-236298-h-3 MS^10 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 43 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	9:15 am	-	-	-	134 285	60.447	30.224
2	08/20/2025	9:21 am	-	-	-	133 915	60.280	30.140
3	08/20/2025	9:26 am	-	-	-	137 704	61.998	30.998
		Avg.	-	-	-	135 302	60.908	30.454
		Std.Dev.						
		% RSD.				1.54		

Spl #: 45 Sample ID : 410-236298-g-1 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 44 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	9:34 am	-	-	-	1 926	0.424	0.212
2	08/20/2025	9:40 am	-	-	-	1 939	0.430	0.215
3	08/20/2025	9:45 am	-	-	-	1 521	0.240	0.120
		Avg.	-	-	-	1 796	0.364	0.182
		Std.Dev.						
		% RSD.				13.23		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	46	**Sample ID :**	410-236298-g-4^25	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	45	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	9:54 am	-	-	-	41 303	18.281	9.140
2	08/20/2025	10:00 am	-	-	-	40 486	17.910	8.955
3	08/20/2025	10:05 am	-	-	-	41 669	18.447	9.223
		Avg.	-	-	-	41 152	18.212	9.106
		Std.Dev.						
		% RSD.				1.47		

Spl #:	47	**Sample ID :**	410-236320-a-1	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	46	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	10:14 am	-	-	-	5 448	2.021	1.011
2	08/20/2025	10:20 am	-	-	-	5 733	2.150	1.075
3	08/20/2025	10:26 am	-	-	-	5 473	2.032	1.016
		Avg.	-	-	-	5 551	2.068	1.034
		Std.Dev.						
		% RSD.				2.83		

Spl #: 48 Sample ID : 410-236320-a-2 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 47 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	10:34 am	-	-	-	4 518	1.599	0.800
2	08/20/2025	10:40 am	-	-	-	4 500	1.591	0.796
3	08/20/2025	10:45 am	-	-	-	4 553	1.615	0.808
		Avg.	-	-	-	4 524	1.602	0.801
		Std.Dev.						
		% RSD.				0.59		

Spl #: 49 Sample ID : 410-236320-a-3 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 48 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	10:54 am	-	-	-	5 273	1.941	0.971
2	08/20/2025	10:59 am	-	-	-	5 495	2.042	1.021
3	08/20/2025	11:05 am	-	-	-	5 308	1.957	0.979
		Avg.	-	-	-	5 359	1.980	0.990
		Std.Dev.						
		% RSD.				2.23		

Spl #: 50 Sample ID : 410-236683-a-1 Type : Sample Date: 08/20/2025 Status: Pass
Vial #: 49 Method : LLTOC MAR1021 - Mar 10, 2021; Dilution : 1 : 1 Customer ID: 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	11:13 am	-	-	-	37 997	16.781	8.391
2	08/20/2025	11:19 am	-	-	-	38 003	16.784	8.392
3	08/20/2025	11:25 am	-	-	-	39 378	17.408	8.704
		Avg.	-	-	-	38 459	16.991	8.496
		Std.Dev.						
		% RSD.				2.07		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 51 **Sample ID :** 410-236741-b-1 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 50 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	11:34 am	-	-	-	17 692	7.573	3.787
2	08/20/2025	11:39 am	-	-	-	19 092	8.208	4.104
3	08/20/2025	11:45 am	-	-	-	18 043	7.733	3.866
		Avg.	-	-	-	18 276	7.838	3.919
		Std.Dev.						
		% RSD.				3.99		

Spl #: 52 **Sample ID :** CCV **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 51 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	11:54 am	-	-	-	211 296	95.371	47.686
2	08/20/2025	12:00 pm	-	-	-	209 100	94.375	47.188
3	08/20/2025	12:05 pm	-	-	-	212 496	95.915	47.958
		Avg.	-	-	-	210 964	95.220	47.611
		Std.Dev.						
		% RSD.				0.82		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #: 53 **Sample ID :** CCB **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 52 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:13 pm	-	-	-	1 501	0.231	0.115
2	08/20/2025	12:19 pm	-	-	-	2 130	0.516	0.258
3	08/20/2025	12:25 pm	-	-	-	1 523	0.241	0.120
		Avg.	-	-	-	1 718	0.329	0.164
		Std.Dev.						
		% RSD.				20.79		

Spl #: 54 **Sample ID :** 410-236750-b-1 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 53 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:33 pm	-	-	-	11 384	4.713	2.356
2	08/20/2025	12:39 pm	-	-	-	11 204	4.631	2.315
3	08/20/2025	12:44 pm	-	-	-	11 570	4.797	2.399
		Avg.	-	-	-	11 386	4.714	2.357
		Std.Dev.						
		% RSD.				1.61		

Spl #: 55 **Sample ID :** 410-236750-b-2 **Type :** Sample **Date:** 08/20/2025 **Status:** Pass
Vial #: 54 **Method :** LLTOC MAR1021 - Mar 10, 2021; **Dilution :** 1 : 1 **Customer ID:** 00000000

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	12:53 pm	-	-	-	6 812	2.639	1.320
2	08/20/2025	12:58 pm	-	-	-	7 203	2.817	1.408
3	08/20/2025	1:04 pm	-	-	-	6 961	2.707	1.354
		Avg.	-	-	-	6 992	2.721	1.361
		Std.Dev.						
		% RSD.				2.83		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Spl #:	56	**Sample ID :**	680-266382-g-5	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	55	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	1:12 pm	-	-	-	3 705	1.230	0.615
2	08/20/2025	1:18 pm	-	-	-	3 686	1.222	0.611
3	08/20/2025	1:23 pm	-	-	-	3 741	1.246	0.623
		Avg.	-	-	-	3 711	1.233	0.616
		Std.Dev.						
		% RSD.				0.74		

Spl #:	57	**Sample ID :**	680-266382-G-5 ms	**Type :**	Sample	**Date:**	08/20/2025	**Status:**	Pass
Vial #:	56	**Method :**	LLTOC MAR1021 - Mar 10, 2021;	**Dilution :**	1 : 1	**Customer ID:**	00000000		

Rep #	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	08/20/2025	1:32 pm	-	-	-	48 454	21.524	10.762
2	08/20/2025	1:37 pm	-	-	-	49 847	22.155	11.078
3	08/20/2025	1:43 pm	-	-	-	49 109	21.821	10.910
		Avg.	-	-	-	49 137	21.833	10.917
		Std.Dev.						
		% RSD.				1.42		

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Method Summary

Method Details

Method Name:	LLTOC MAR1021 - Mar 10, 2021; 11-44-44 AM
Date Created:	03/10/2021
Time Created:	11:46
Created By:	toc

Analysis Mode: NPOC Only

Sparging Mode:	Internal
Pre-Acid Volume (mL):	1.000
Sparge Time (mm:ss):	02:00

Volumes

Sample Volume (mL):	2.000
Acid Volume (mL):	0.500
Persulfate Volume (mL):	2.500

Other

SysPressure:	20.00

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1

Times

	React	Detect
TIC	01:30	03:00
TOC	02:00	03:00

Temp

	React	Detect
TIC	70	70
TOC	98	98

Outlier Removal Criteria

Enabled:	No
Additional Replicates:	1
Max. % RSD.	10.00

Rinses

Rinse Volume (mL):	15.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Max. Std. Dev. 100 Use Modified Oxidant: No

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Mode

Primary Mode:	TOC
User for ALL Modes:	Enabled

Calibration Pass/Fail Criteria

Parameter	Enabled	Low	High	Failure
R² (ugC/K-cts)	Yes	0.1000	0.3000	Continue
	Yes	0.950	1.000	Continue
Offset (area) (cts)	No	-	-	-
Offset (mass) (ugC)	No	-	-	-
QC Blank(cts)	No	-	-	-

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10.00	Re-run	Continue
QC #1	0.000	10.00	Re-run	Continue
QC #2	0.000	10.00	Re-run	Continue
QC #3	0.000	10.00	Re-run	Continue
QC #4	0.000	10.00	Re-run	Continue
SST	0.000	15.00	Abort	Abort

OI Corporation
151 Graham Rd
College Station, TX
77845
USA

Date Prepared: 08/20/2025 **By:** TOC

Date Approved: **By:**

Calibration Details

Calibration Mode:	TOC
Date Calibrated:	08/18/2025
Time Calibrated:	5:38 pm
Calibrated By:	toc
RF (ugC/k-cts):	0.4535
R2:	0.9999
R:	1.0000
QC Blank(cts):	0
Offset (cts):	992
Offset (ugC):	-0.450
Reagent Blank (cts):	1 282
Units of Measure:	PPM->mg/L C

Calibration Settings

Stock Conc. For Dilutions:	(PPM)	1 000.000
# of Reagent Blanks:		3
EFC Enabled:		No
Total Flowrate w/EFC:		50 ml/min
Check Standards:		Subtract Offset
Samples:		Substract Offset
Regression type:		Unweighted Linear

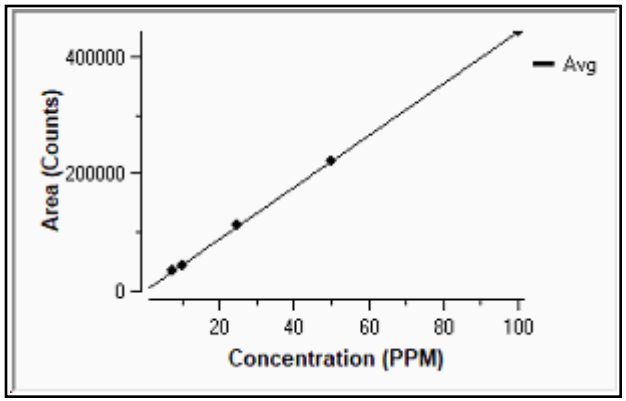
Calculations:

$$Concentration = \frac{\frac{RF}{1000} \times Area}{volume}$$

Samples: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RB}$

CHK Stds: $Area = Area_{Peak} - Area_{Offset}$ *or* $Area = Area_{Peak} - Area_{RW}$

QC Samples: $Area = Area_{Peak} - Area_{QCBlank}$



$$y = m \times x + b$$

$y \Rightarrow Area$ $\quad m \Rightarrow \frac{1000}{RF \times volume}$ $\quad b \Rightarrow 0$

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28577-1

SDG No.:

Batch Number: 688227 Batch Start Date: 08/19/25 18:57 Batch Analyst: Bolf, Jeremy

Batch Method: 2320B-2011 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	CalcMsg	WC_Alk_LCS 00025	WC_Alk_LCS 00027			
CCV 410-688227/111		2320B-2011			InitialAmount is blank		# mL			
CCB 410-688227/112		2320B-2011			InitialAmount is blank					
MB 410-688227/113		2320B-2011			InitialAmount is blank					
LCS 410-688227/114		2320B-2011			InitialAmount is blank	# mL				
LCSD 410-688227/115		2320B-2011			InitialAmount is blank	# mL				
CCV 410-688227/123		2320B-2011			InitialAmount is blank		# mL			
CCB 410-688227/124		2320B-2011			InitialAmount is blank					
620-28577-N-4	MW-103I/250813	2320B-2011	Water	T	InitialAmount is blank					
620-28577-Y-5	MW-102B/250813	2320B-2011	Water	T	InitialAmount is blank					
620-28577-S-6	MW-102IR/250813	2320B-2011	Water	T	InitialAmount is blank					
CCV 410-688227/133		2320B-2011			InitialAmount is blank		# mL			
CCB 410-688227/134		2320B-2011			InitialAmount is blank					
620-28577-P-7	FB/250813	2320B-2011	Water	T	InitialAmount is blank					
CCV 410-688227/140		2320B-2011			InitialAmount is blank		# mL			
CCB 410-688227/141		2320B-2011			InitialAmount is blank					

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 Lancaster Laboratorie Job No.: 620-28577-1

SDG No.:

Batch Number: 688227 Batch Start Date: 08/19/25 18:57 Batch Analyst: Bolf, Jeremy

Batch Method: 2320B-2011 Batch End Date:

Batch Notes	
Nominal Amount Used	25 mL
pH Meter ID	19153
Acid ID	8158428
Normality of First Titrant	0.0217 N
Titrant Standardization Date	07/31/2025
pH Buffer 1 ID	7077197
pH Buffer 2 ID	7077207
pH Buffer 3 ID	7077221

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 Lancaster Laboratorie Job No.: 620-28577-1

SDG No.:

Batch Number: 688231 Batch Start Date: 08/19/25 10:35 Batch Analyst: Cornelius, Ashlynn M

Batch Method: 5310 C-2014 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	WC_TIC_QC 00067	WC_TOC_QC_STD 00075		
MRL 410-688231/1		5310 C-2014			100 mL	100 mL		0.2 mL		
CCV 410-688231/4		5310 C-2014			200 mL	200 mL	5 mL	5 mL		
LCS 410-688231/6		5310 C-2014			200 mL	200 mL	5 mL	5 mL		
CCV 410-688231/16		5310 C-2014			200 mL	200 mL	5 mL	5 mL		
620-28577-K-6 MS	MW-102IR/250813	5310 C-2014		T	25 mL	25 mL	0.25 mL	0.25 mL		
CCV 410-688231/26		5310 C-2014			200 mL	200 mL	5 mL	5 mL		

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 620-28577-1

SDG No.:

Batch Number: 688232 Batch Start Date: 08/19/25 19:19 Batch Analyst: Cornelius, Ashlynn M

Batch Method: 5310 C-2014 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Res1&2RPD	RPDOK	WC_TOC_QC_STD 00075	
MRL 410-688232/1		5310 C-2014			100 mL	100 mL	6 %	TOC Pass	0.2 mL	
CCV 410-688232/4		5310 C-2014			500 mL	500 mL	0 %	TOC Pass	50 mL	
CCB 410-688232/5		5310 C-2014					60 %	TOC Fail		
LCS 410-688232/6		5310 C-2014			500 mL	500 mL	0 %	TOC Pass	50 mL	
MB 410-688232/7		5310 C-2014					121 %	TOC Fail		
CCV 410-688232/16		5310 C-2014			500 mL	500 mL	0 %	TOC Pass	25 mL	
CCB 410-688232/17		5310 C-2014					97 %	TOC Fail		
620-28556-E-2 DU		5310 C-2014		T			8 %	TOC Pass		
620-28556-E-2 MS		5310 C-2014		T	25 mL	25 mL	0 %	TOC Pass	0.5 mL	
CCVL 410-688232/28		5310 C-2014			500 mL	500 mL	0 %	TOC Pass	5 mL	
CCB 410-688232/29		5310 C-2014					70 %	TOC Fail		
620-28577-D-4	MW-103I/250813	5310 C-2014	Water	T			4 %	TOC Pass		
620-28577-H-6	MW-102IR/250813	5310 C-2014	Water	T			3 %	TOC Pass		
620-28577-D-7	FB/250813	5310 C-2014	Water	T			19 %	TOC Fail		
CCV 410-688232/38		5310 C-2014			500 mL	500 mL	0 %	TOC Pass	25 mL	
CCB 410-688232/39		5310 C-2014					90 %	TOC Fail		

Batch Notes	
Phosphoric Acid ID	7867358
Sodium Persulfate ID	7867359
Pipette/Syringe/Dispenser ID	TOC
Vial Lot Number	2816
Pipette Tip Lot ID	K199109P

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 Lancaster Laboratorie Job No.: 620-28577-1

SDG No.:

Batch Number: 688232 Batch Start Date: 08/19/25 19:19 Batch Analyst: Cornelius, Ashlynn M

Batch Method: 5310 C-2014 Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Subcontract Data

Shipping and Receiving Documents

Eurofins Rhode Island
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018 Fax 413-506-3830

Chain of Custody Record

Albany 28577 #224

eurofins | Environment Testing

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No
	KW/JC/NM	Scott, Krishnan F		620-26652-4191 1
Client Contact: Mr Patrick Sommer & Kyle Walker	Phone	E-Mail: Krishnan Scott@et.eurofinsus com	State of Origin	Page: ~~Page 1 of 5~~ 1 of 1
Company: Ramboll Americas Engineering Solutions	PWSID			Job #
Address: ~~100 Pearl Street, East Tower, Third Floor~~	Due Date Requested:			
City: ~~Hartford~~ 101 Carnegie Ctr Ste 200	TAT Requested (days): Std			
State, Zip: ~~CT, 06103~~ Princeton, NJ 08540	Compliance Project: Δ Yes Δ No			
Phone: jsanares@ramboll.com	PO #: 1690000663			
Email: psommer@ramboll.com & kwalker@ramboll.com	WO #:			
Project Name: ESCO Steel Treaters Project	Project #: 62002339			
Site	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
N - None
D - HNO3
AA - PhosphorAc
Other:

Samples to be shipped to Eurofins Rhode Island

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Volatile Organic Compounds (GC/MS)	2320B - Total Alkalinity	9056A_ORGFM_28D, 9056A_ORGFM_48H	8270D_SIM_MS_ID - 1,4-Dioxane	6010D - Dissolved Iron (ICP-Trace) - Lab Filter	6010D - Total Ca, Mg, Na and K (ICP-Trace)	SM5310_TC_TIC - Total Inorganic Carbon (TIC)	5310C - Total Organic Carbon	Total Number of containers	Special Instructions/Note:
				Preservation Code:			A	N	N	N	N	D	N	AA		
1 MW-17/250811	8/11/25	1550	G	Water			X								3	
2 MW-19/250813	8/13/25	1035	G	Water			X								3	
3 MW-18/250813	8/13/25	1140	G	Water			X								3	
4 MW-103I/250813	8/13/25	1235	G	Water			X	X	X	X	X	X	X	X	13	
5 MW-102B/250813	8/13/25	1310	G	Water			X	X	X	X	X	X			9	
6 MW-102IR/250813	8/13/25	1530	G	Water			X	X	X	X	X	X	X	X	13	
7 FB/250813	8/13/25	1500	G	Water			X	X	X	X	X	X	X	X	13	
8 TB/250813	8/13/25	-	TB	Water			X								2	
				Water												
				Water												
				Water												

620-28577 COC

SNC 8/13/25

Page 1 of 2

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
Jacqueline Hagmüller	8/13/25 1653	Ramboll	John Vuk Kosh	8/13/25 1653	EETN
John Vuk Kosh	8/13/25 1700	EETN	Fedex		
Fedex			Nathan H.	8/14/25 400	ERI

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 1.8 +0.2 = 2.0°C #6 iced

Ver. 10/10/2024

28574

ORIGIN ID:DSVA (518) 438-8140
TIM KNOLLMEYER
TESTAMERICA LAB INC
25 KRAFT AVE

ALBANY, NY 12205
UNITED STATES US

SHIP DATE: 13AUG25
ACTWGT: 53.45 LB
CAD: 0930656/CAFE3908
DIMS: 26x15x14 IN

BILL RECIPIENT

TO **SAMPLE RECEIPT**
EUROFINS ENV NEW ENGLAND
646 CAMP AVENUE

NORTH KINGSTOWN RI 02852
(413) 789-9016
REF: RAMBOLL ESCO STEEL TROY

Soil

SHCC4/AR55/FF28

FedEx Express

J25102411140 1av

TRK# 0201 **4561 8694 5789**

THU - 14 AUG 10:30A
PRIORITY OVERNIGHT

ED NCOA

02852
RI-US **PVD**

Part # 156148-434 MTW EXP 01/26

Eurofins Rhode Island
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018 Fax: 413-506-3830

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Scott, Krishnan F	Carrier Tracking No(s): N/A	COC No: 620-23501.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Krishnan.Scott@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New York		Job #: 620-28577-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 8/20/2025			Preservation Codes: -
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: ESCO Steel Treaters Project	Project #: 62002339			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	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)	SM5310_TC_TICTotal Inorganic Carbon (TIC)	5310CTotal Organic Carbon	9056A_ORGFM_48HNitrate (IC)	9056A_ORGFM_28DChloride and Sulfate (IC)	2320BTotal Alkalinity	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
MW-103I/250813 (620-28577-4)	8/13/25	12:35 Eastern	G	Water			X	X	X	X	X	6	
MW-102B/250813 (620-28577-5)	8/13/25	15:10 Eastern	G	Water					X	X	X	2	
MW-102IR/250813 (620-28577-6)	8/13/25	15:30 Eastern	G	Water			X	X	X	X	X	6	
FB/250813 (620-28577-7)	8/13/25	15:00 Eastern	G	Water			X	X	X	X	X	6	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification: Unconfirmed	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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Matthew H.	8/14/25 1546	ERI		8/14/25 2230	ERI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/15/25 0030	ERI			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				8-15-25 0030	FEDEX

Custody Seals Intact: ☐ Yes ☒ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		I: 1.0 C: 1.0

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 620-28577-1

Login Number: 28577
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins Rhode Island

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 620-28577-1

Login Number: 28577
List Number: 2
Creator: Hottle, Steffanie

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 08/15/25 02:12 AM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Walker
Ramboll Americas Engineering Solutions
101 Carnegie Center
Suite 200
Princeton, New Jersey 08540

Generated 8/22/2025 6:55:07 PM

JOB DESCRIPTION

ESCO Steel Treaters Project

JOB NUMBER

620-28577-1

Eurofins Rhode Island
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

Generated
8/22/2025 6:55:07 PM

Authorized for release by
Michael Chang, Project Manager II
Michael.Chang@et.eurofinsus.com
Designee for
Krishnan Scott, Project Manager I
Krishnan.Scott@et.eurofinsus.com
(401)267-4375

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 6
Detection Summary 8
Client Sample Results 11
Surrogate Summary 29
Isotope Dilution Summary 30
QC Sample Results 31
QC Association Summary 57
Lab Chronicle 60
Certification Summary 63
Method Summary 65
Sample Summary 66
Chain of Custody 67
Receipt Checklists 70

Definitions/Glossary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28577-1
Project/Site: ESCO Steel Treaters Project

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
B	The analyte was found in an associated blank, as well as in the sample.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
U	Analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
*	MS or MSD is outside acceptance limits.
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J	Sample result is greater than the MDL but below the CRDL
U	Indicates analyzed for but not detected.

Glossary

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

Glossary (Continued)

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

Job Narrative
620-28577-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 8/14/2025 11:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

GC/MS VOA
Method 8260C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 620-52249 recovered outside control limits for the following analytes: Bromodichloromethane, Carbon tetrachloride, 2,2-Dichloropropane and 1,1,1-Trichloroethane. These analytes were biased high in the LCS and were not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The large number of analytes included in the continuing calibration verification ((CCVIS 620-52249/3)) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased low): Naphthalene. Affected analytes (biased high): Carbon tetrachloride, 1,1,1-Trichloroethane, 2,2-Dichloropropane, Bromodichloromethane, m,p-Xylene, Styrene, o-Xylene, and 1,2,4-Trimethylbenzene.

Method 8260C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 620-52339 recovered outside control limits for the following analytes: Bromodichloromethane, Carbon tetrachloride and 1,1,1-Trichloroethane. These analytes were biased high in the LCS and were not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The large number of analytes included in the continuing calibration verification ((CCVIS 620-52339/3)) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased low): Naphthalene. Affected analytes (biased high): Carbon tetrachloride, 1,1,1-Trichloroethane, 2,2-Dichloropropane, and Dichlorobromomethane.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 620-52457 recovered outside in-house control limits for the following analytes: 1,2-Dichlorobenzene, 1,4-Dichlorobenzene, 1,1-Dichloroethane and Toluene. These analytes were biased low in the LCSD but recovered within 70-130%. According to 8260C requirements, analytes are allowed to recover outside in-house control limits as long as recovery is within the method limit of 70-130%; therefore, the data have been reported.

Method 8260C: The large number of analytes included in the continuing calibration verification ((CCVIS 620-52457/3)) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria.Affected analytes (biased low): Acrylonitrile, Bromodichloromethane, Carbon disulfide, 1,2-Dichloroethane, Tetrahydrofuran, Ethyl ether, di-Isopropyl ether and trans-1,4-Dichloro-2-butene.

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 620-52540 recovered outside control limits for the following analyte: Chloroethane.

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-52540 recovered outside control limits for the following analyte: Chloroethane, which has been identified as a poor performing analyte when analyzed using this method.

According to 8260C requirements, poor performers are allowed to recover within 50-150%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-52540 recovered outside control limits for the following analytes: 1,1,2-Trichlorotrifluoroethane (Freon 113) and Trichlorofluoromethane (Freon 11). These analytes were biased high in the LCS and were not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The large number of analytes included in the continuing calibration verification ((CCVIS 620-52540/3)) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased low): Acrylonitrile, Tetrahydrofuran and di-Isopropyl ether.

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

GC/MS Semi VOA
Method 8270D_SIM_MS_ID: The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: MW-103I/250813 (620-28577-4). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

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

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

Metals
Method 6010D: The matrix spike (MS) recoveries for preparation batch 620-52116 and analytical batch 620-52265 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010D - Dissolved: The matrix spike (MS) recoveries for preparation batch 620-52116 and analytical batch 620-52265 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28577-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: MW-17/250811 — Lab Sample ID: 620-28577-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.5	J	10	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	2.2		1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	97		1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	3.3		1.0	0.19	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	0.94	J *	1.0	0.33	ug/L	1		8260C	Total/NA
Vinyl chloride	10		1.0	0.26	ug/L	1		8260C	Total/NA
Trichloroethene - DL	220		10	3.6	ug/L	10		8260C	Total/NA

Client Sample ID: MW-19/250813 — Lab Sample ID: 620-28577-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	5.3	*	1.0	0.36	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.54	J	1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	80		1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	0.43	J	1.0	0.19	ug/L	1		8260C	Total/NA
Tetrachloroethene	5.2		1.0	0.36	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	41		1.0	0.33	ug/L	1		8260C	Total/NA
Trichloroethene	80		1.0	0.36	ug/L	1		8260C	Total/NA
Vinyl chloride	0.39	J	1.0	0.26	ug/L	1		8260C	Total/NA

Client Sample ID: MW-18/250813 — Lab Sample ID: 620-28577-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.7	J	10	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	13		1.0	0.36	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	23		1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	95		1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.0		1.0	0.19	ug/L	1		8260C	Total/NA
Tetrachloroethene	45		1.0	0.36	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	330		50	17	ug/L	50		8260C	Total/NA
Trichloroethene - DL	1700		50	18	ug/L	50		8260C	Total/NA

Client Sample ID: MW-103I/250813 — Lab Sample ID: 620-28577-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.4	J	10	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	13		1.0	0.36	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	6.5		1.0	0.34	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	0.74	J	1.0	0.19	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.3		1.0	0.36	ug/L	1		8260C	Total/NA
Vinyl chloride	5.1		1.0	0.26	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	100		10	3.0	ug/L	10		8260C	Total/NA
Trichloroethene - DL	83		10	3.6	ug/L	10		8260C	Total/NA
1,4-Dioxane	1.8		0.20	0.19	ug/L	1		8270D SIM ID	Total/NA
Chloride	6.14		1.50	0.60	mg/L	1		9056A	Total/NA
Nitrate as N	1.01		0.11	0.050	mg/L	1		9056A	Total/NA
Sulfate	16.5		1.50	0.50	mg/L	1		9056A	Total/NA
Calcium	64.7		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	10.3		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	2.6		1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	24.1		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	256		8.0	2.6	mg/L	1		2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-103I/250813 (Continued) — Lab Sample ID: 620-28577-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	2.9		1.0	0.50	mg/L	1		5310 C-2014	Total/NA
Total Inorganic Carbon	41.4		2.0	0.60	mg/L	1		5310 C-2014	Total/NA

Client Sample ID: MW-102B/250813 — Lab Sample ID: 620-28577-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.8	J	10	0.90	ug/L	1		8260C	Total/NA
Benzene	0.85	J	1.0	0.25	ug/L	1		8260C	Total/NA
Chloroethane	4.6		2.0	0.41	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	2.1		1.0	0.36	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.71	J	1.0	0.34	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.8		1.0	0.19	ug/L	1		8260C	Total/NA
Toluene	0.62	J	1.0	0.28	ug/L	1		8260C	Total/NA
Trichloroethene	3.7		1.0	0.36	ug/L	1		8260C	Total/NA
Vinyl chloride	25		1.0	0.26	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	150		10	3.0	ug/L	10		8260C	Total/NA
1,4-Dioxane	53		2.0	1.9	ug/L	10		8270D SIM ID	Total/NA
Chloride	18.4		7.50	3.00	mg/L	5		9056A	Total/NA
Calcium	7.0		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	10.5		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	1.1		1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	57.1		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	184		8.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: MW-102IR/250813 — Lab Sample ID: 620-28577-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.8	J B	10	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	0.70	J *	1.0	0.36	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	2.1		1.0	0.34	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.9		1.0	0.19	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.45	J	1.0	0.36	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	2.7		1.0	0.33	ug/L	1		8260C	Total/NA
Vinyl chloride	17		1.0	0.26	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	120		10	3.0	ug/L	10		8260C	Total/NA
Trichloroethene - DL	260		10	3.6	ug/L	10		8260C	Total/NA
1,4-Dioxane	15		0.20	0.19	ug/L	1		8270D SIM ID	Total/NA
Chloride	9.59		1.50	0.60	mg/L	1		9056A	Total/NA
Nitrate as N	2.26		0.11	0.050	mg/L	1		9056A	Total/NA
Sulfate	25.0		1.50	0.50	mg/L	1		9056A	Total/NA
Calcium	60.5		0.50	0.19	mg/L	1		6010D	Total/NA
Magnesium	10.8		0.040	0.038	mg/L	1		6010D	Total/NA
Potassium	1.3		1.0	0.34	mg/L	1		6010D	Total/NA
Sodium	40.8		1.5	0.28	mg/L	1		6010D	Total/NA
Total Alkalinity	262		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Organic Carbon	2.9		1.0	0.50	mg/L	1		5310 C-2014	Total/NA
Total Inorganic Carbon	38.1		2.0	0.60	mg/L	1		5310 C-2014	Total/NA

Client Sample ID: FB/250813 — Lab Sample ID: 620-28577-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.3	J	10	0.90	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28577-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: TB/250813
Lab Sample ID: 620-28577-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.5	J	10	0.90	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28577-1

Client Sample ID: MW-17/250811

Date Collected: 08/11/25 15:50
Date Received: 08/14/25 11:00

Lab Sample ID: 620-28577-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/18/25 15:06	1
Acetone	**4.5**	**J**	10	0.90	ug/L			08/18/25 15:06	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/18/25 15:06	1
Benzene	1.0	U	1.0	0.25	ug/L			08/18/25 15:06	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/18/25 15:06	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/18/25 15:06	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/18/25 15:06	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/18/25 15:06	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/18/25 15:06	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/18/25 15:06	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 15:06	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 15:06	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 15:06	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/18/25 15:06	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/18/25 15:06	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/18/25 15:06	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/18/25 15:06	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/18/25 15:06	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/18/25 15:06	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/18/25 15:06	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/18/25 15:06	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/18/25 15:06	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/18/25 15:06	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/18/25 15:06	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/18/25 15:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/18/25 15:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/18/25 15:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/18/25 15:06	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/18/25 15:06	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/18/25 15:06	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/18/25 15:06	1
1,1-Dichloroethene	**2.2**		1.0	0.34	ug/L			08/18/25 15:06	1
cis-1,2-Dichloroethene	**97**		1.0	0.30	ug/L			08/18/25 15:06	1
trans-1,2-Dichloroethene	**3.3**		1.0	0.19	ug/L			08/18/25 15:06	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/18/25 15:06	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/18/25 15:06	1
2,2-Dichloropropane	1.0	U *	1.0	0.49	ug/L			08/18/25 15:06	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/18/25 15:06	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/18/25 15:06	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/18/25 15:06	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 15:06	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/18/25 15:06	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/18/25 15:06	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/18/25 15:06	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/18/25 15:06	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 15:06	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/18/25 15:06	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/18/25 15:06	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/18/25 15:06	1

Client Sample ID: MW-17/250811
Lab Sample ID: 620-28577-1
Date Collected: 08/11/25 15:50
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 15:06	1
Styrene	1.0	U	1.0	0.42	ug/L			08/18/25 15:06	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/18/25 15:06	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/18/25 15:06	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/18/25 15:06	1
Toluene	1.0	U	1.0	0.28	ug/L			08/18/25 15:06	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/18/25 15:06	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/18/25 15:06	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/18/25 15:06	1
1,1,1-Trichloroethane	**0.94**	**J ***	1.0	0.33	ug/L			08/18/25 15:06	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/18/25 15:06	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/18/25 15:06	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/18/25 15:06	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/18/25 15:06	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 15:06	1
Vinyl chloride	**10**		1.0	0.26	ug/L			08/18/25 15:06	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/18/25 15:06	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/18/25 15:06	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/18/25 15:06	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/18/25 15:06	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 15:06	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/18/25 15:06	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 15:06	1
tert-Butanol	10	U	10	8.5	ug/L			08/18/25 15:06	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/18/25 15:06	1
Ethanol	200	U	200	9.1	ug/L			08/18/25 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/18/25 15:06*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/18/25 15:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*08/18/25 15:06*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*08/18/25 15:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**220**		10	3.6	ug/L			08/21/25 22:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/21/25 22:23*	*10*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/21/25 22:23*	*10*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/21/25 22:23*	*10*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*08/21/25 22:23*	*10*

Client Sample ID: MW-19/250813
Lab Sample ID: 620-28577-2
Date Collected: 08/13/25 10:35
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/21/25 01:15	1

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28577-1

Client Sample ID: MW-19/250813
Date Collected: 08/13/25 10:35
Date Received: 08/14/25 11:00

Lab Sample ID: 620-28577-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.90	ug/L			08/21/25 01:15	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/21/25 01:15	1
Benzene	1.0	U	1.0	0.25	ug/L			08/21/25 01:15	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/21/25 01:15	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/21/25 01:15	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/21/25 01:15	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/21/25 01:15	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/21/25 01:15	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/21/25 01:15	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/21/25 01:15	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/21/25 01:15	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/21/25 01:15	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/21/25 01:15	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/21/25 01:15	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/21/25 01:15	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/21/25 01:15	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/21/25 01:15	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/21/25 01:15	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/21/25 01:15	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/21/25 01:15	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/21/25 01:15	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/21/25 01:15	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/21/25 01:15	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/21/25 01:15	1
1,2-Dichlorobenzene	1.0	U *	1.0	0.48	ug/L			08/21/25 01:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/21/25 01:15	1
1,4-Dichlorobenzene	1.0	U *	1.0	0.49	ug/L			08/21/25 01:15	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/21/25 01:15	1
1,1-Dichloroethane	**5.3**	*	1.0	0.36	ug/L			08/21/25 01:15	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/21/25 01:15	1
1,1-Dichloroethene	**0.54**	J	1.0	0.34	ug/L			08/21/25 01:15	1
cis-1,2-Dichloroethene	**80**		1.0	0.30	ug/L			08/21/25 01:15	1
trans-1,2-Dichloroethene	**0.43**	J	1.0	0.19	ug/L			08/21/25 01:15	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/21/25 01:15	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/21/25 01:15	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/21/25 01:15	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/21/25 01:15	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/21/25 01:15	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/21/25 01:15	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/21/25 01:15	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/21/25 01:15	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/21/25 01:15	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/21/25 01:15	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/21/25 01:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 01:15	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/21/25 01:15	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/21/25 01:15	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/21/25 01:15	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/21/25 01:15	1

Client Sample ID: MW-19/250813
Lab Sample ID: 620-28577-2
Date Collected: 08/13/25 10:35
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.42	ug/L			08/21/25 01:15	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/21/25 01:15	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/21/25 01:15	1
Tetrachloroethene	**5.2**		1.0	0.36	ug/L			08/21/25 01:15	1
Toluene	1.0	U *	1.0	0.28	ug/L			08/21/25 01:15	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/21/25 01:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/21/25 01:15	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/21/25 01:15	1
1,1,1-Trichloroethane	**41**		1.0	0.33	ug/L			08/21/25 01:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/21/25 01:15	1
Trichloroethene	**80**		1.0	0.36	ug/L			08/21/25 01:15	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/21/25 01:15	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/21/25 01:15	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/21/25 01:15	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/21/25 01:15	1
Vinyl chloride	**0.39**	**J**	1.0	0.26	ug/L			08/21/25 01:15	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/21/25 01:15	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/21/25 01:15	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/21/25 01:15	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/21/25 01:15	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 01:15	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/21/25 01:15	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 01:15	1
tert-Butanol	10	U	10	8.5	ug/L			08/21/25 01:15	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/21/25 01:15	1
Ethanol	200	U	200	9.1	ug/L			08/21/25 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/21/25 01:15*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/21/25 01:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*08/21/25 01:15*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*08/21/25 01:15*	*1*

Client Sample ID: MW-18/250813
Lab Sample ID: 620-28577-3
Date Collected: 08/13/25 11:40
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/18/25 15:52	1
Acetone	**4.7**	**J**	10	0.90	ug/L			08/18/25 15:52	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/18/25 15:52	1
Benzene	1.0	U	1.0	0.25	ug/L			08/18/25 15:52	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/18/25 15:52	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/18/25 15:52	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/18/25 15:52	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/18/25 15:52	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/18/25 15:52	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/18/25 15:52	1

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28577-1

Client Sample ID: MW-18/250813
Date Collected: 08/13/25 11:40
Date Received: 08/14/25 11:00

Lab Sample ID: 620-28577-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 15:52	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 15:52	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 15:52	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/18/25 15:52	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/18/25 15:52	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/18/25 15:52	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/18/25 15:52	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/18/25 15:52	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/18/25 15:52	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/18/25 15:52	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/18/25 15:52	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/18/25 15:52	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/18/25 15:52	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/18/25 15:52	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/18/25 15:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/18/25 15:52	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/18/25 15:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/18/25 15:52	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/18/25 15:52	1
1,1-Dichloroethane	**13**		1.0	0.36	ug/L			08/18/25 15:52	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/18/25 15:52	1
1,1-Dichloroethene	**23**		1.0	0.34	ug/L			08/18/25 15:52	1
cis-1,2-Dichloroethene	**95**		1.0	0.30	ug/L			08/18/25 15:52	1
trans-1,2-Dichloroethene	**1.0**		1.0	0.19	ug/L			08/18/25 15:52	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/18/25 15:52	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/18/25 15:52	1
2,2-Dichloropropane	1.0	U *	1.0	0.49	ug/L			08/18/25 15:52	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/18/25 15:52	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/18/25 15:52	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/18/25 15:52	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 15:52	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/18/25 15:52	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/18/25 15:52	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/18/25 15:52	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/18/25 15:52	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 15:52	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/18/25 15:52	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/18/25 15:52	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/18/25 15:52	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 15:52	1
Styrene	1.0	U	1.0	0.42	ug/L			08/18/25 15:52	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/18/25 15:52	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/18/25 15:52	1
Tetrachloroethene	**45**		1.0	0.36	ug/L			08/18/25 15:52	1
Toluene	1.0	U	1.0	0.28	ug/L			08/18/25 15:52	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/18/25 15:52	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/18/25 15:52	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/18/25 15:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/18/25 15:52	1

Client Sample ID: MW-18/250813
Lab Sample ID: 620-28577-3
Date Collected: 08/13/25 11:40
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/18/25 15:52	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/18/25 15:52	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/18/25 15:52	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 15:52	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/18/25 15:52	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/18/25 15:52	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/18/25 15:52	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/18/25 15:52	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/18/25 15:52	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 15:52	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/18/25 15:52	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 15:52	1
tert-Butanol	10	U	10	8.5	ug/L			08/18/25 15:52	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/18/25 15:52	1
Ethanol	200	U	200	9.1	ug/L			08/18/25 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/18/25 15:52*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/18/25 15:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*08/18/25 15:52*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/18/25 15:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**330**		50	17	ug/L			08/21/25 22:50	50
Trichloroethene	**1700**		50	18	ug/L			08/21/25 22:50	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/21/25 22:50*	*50*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/21/25 22:50*	*50*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/21/25 22:50*	*50*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*08/21/25 22:50*	*50*

Client Sample ID: MW-103I/250813
Lab Sample ID: 620-28577-4
Date Collected: 08/13/25 12:35
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/18/25 16:15	1
Acetone	**4.4**	**J**	10	0.90	ug/L			08/18/25 16:15	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/18/25 16:15	1
Benzene	1.0	U	1.0	0.25	ug/L			08/18/25 16:15	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/18/25 16:15	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/18/25 16:15	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/18/25 16:15	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/18/25 16:15	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/18/25 16:15	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/18/25 16:15	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 16:15	1

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28577-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: MW-103I/250813
Lab Sample ID: 620-28577-4
Date Collected: 08/13/25 12:35
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 16:15	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 16:15	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/18/25 16:15	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/18/25 16:15	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/18/25 16:15	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/18/25 16:15	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/18/25 16:15	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/18/25 16:15	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/18/25 16:15	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/18/25 16:15	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/18/25 16:15	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/18/25 16:15	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/18/25 16:15	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/18/25 16:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/18/25 16:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/18/25 16:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/18/25 16:15	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/18/25 16:15	1
1,1-Dichloroethane	**13**		1.0	0.36	ug/L			08/18/25 16:15	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/18/25 16:15	1
1,1-Dichloroethene	**6.5**		1.0	0.34	ug/L			08/18/25 16:15	1
trans-1,2-Dichloroethene	**0.74**	**J**	1.0	0.19	ug/L			08/18/25 16:15	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/18/25 16:15	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/18/25 16:15	1
2,2-Dichloropropane	1.0	U *	1.0	0.49	ug/L			08/18/25 16:15	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/18/25 16:15	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/18/25 16:15	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/18/25 16:15	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 16:15	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/18/25 16:15	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/18/25 16:15	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/18/25 16:15	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/18/25 16:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 16:15	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/18/25 16:15	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/18/25 16:15	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/18/25 16:15	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 16:15	1
Styrene	1.0	U	1.0	0.42	ug/L			08/18/25 16:15	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/18/25 16:15	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/18/25 16:15	1
Tetrachloroethene	**1.3**		1.0	0.36	ug/L			08/18/25 16:15	1
Toluene	1.0	U	1.0	0.28	ug/L			08/18/25 16:15	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/18/25 16:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/18/25 16:15	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/18/25 16:15	1
1,1,1-Trichloroethane	1.0	U *	1.0	0.33	ug/L			08/18/25 16:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/18/25 16:15	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/18/25 16:15	1

Client Sample ID: MW-103I/250813
Lab Sample ID: 620-28577-4

Date Collected: 08/13/25 12:35
Matrix: Water

Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/18/25 16:15	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/18/25 16:15	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 16:15	1
Vinyl chloride	**5.1**		1.0	0.26	ug/L			08/18/25 16:15	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/18/25 16:15	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/18/25 16:15	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/18/25 16:15	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/18/25 16:15	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 16:15	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/18/25 16:15	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 16:15	1
tert-Butanol	10	U	10	8.5	ug/L			08/18/25 16:15	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/18/25 16:15	1
Ethanol	200	U	200	9.1	ug/L			08/18/25 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/18/25 16:15*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/18/25 16:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*08/18/25 16:15*	*1*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*08/18/25 16:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**100**		10	3.0	ug/L			08/19/25 16:45	10
Trichloroethene	**83**		10	3.6	ug/L			08/19/25 16:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*08/19/25 16:45*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/19/25 16:45*	*10*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*08/19/25 16:45*	*10*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/19/25 16:45*	*10*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.8**		0.20	0.19	ug/L		08/18/25 18:42	08/20/25 15:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*9*	*	*10 - 150*	*08/18/25 18:42*	*08/20/25 15:09*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.14**		1.50	0.60	mg/L			08/15/25 10:10	1
Nitrate as N	**1.01**		0.11	0.050	mg/L			08/15/25 10:10	1
Sulfate	**16.5**		1.50	0.50	mg/L			08/15/25 10:10	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**64.7**		0.50	0.19	mg/L		08/14/25 15:34	08/15/25 12:42	1
Magnesium	**10.3**		0.040	0.038	mg/L		08/14/25 15:34	08/15/25 12:42	1
Potassium	**2.6**		1.0	0.34	mg/L		08/14/25 15:34	08/15/25 12:42	1
Sodium	**24.1**		1.5	0.28	mg/L		08/14/25 15:34	08/15/25 12:42	1

Client Sample ID: MW-103I/250813
Lab Sample ID: 620-28577-4
Date Collected: 08/13/25 12:35
Matrix: Water
Date Received: 08/14/25 11:00

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/14/25 15:34	08/15/25 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	**256**		8.0	2.6	mg/L			08/20/25 06:44	1
Total Organic Carbon (SM 5310 C-2014)	**2.9**		1.0	0.50	mg/L			08/20/25 05:35	1
Total Inorganic Carbon (SM 5310 C-2014)	**41.4**		2.0	0.60	mg/L			08/20/25 05:35	1

Client Sample ID: MW-102B/250813
Lab Sample ID: 620-28577-5
Date Collected: 08/13/25 15:10
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/18/25 16:37	1
Acetone	**7.8**	**J**	10	0.90	ug/L			08/18/25 16:37	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/18/25 16:37	1
Benzene	**0.85**	**J**	1.0	0.25	ug/L			08/18/25 16:37	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/18/25 16:37	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/18/25 16:37	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/18/25 16:37	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/18/25 16:37	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/18/25 16:37	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/18/25 16:37	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 16:37	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 16:37	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 16:37	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/18/25 16:37	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/18/25 16:37	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/18/25 16:37	1
Chloroethane	**4.6**		2.0	0.41	ug/L			08/18/25 16:37	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/18/25 16:37	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/18/25 16:37	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/18/25 16:37	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/18/25 16:37	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/18/25 16:37	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/18/25 16:37	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/18/25 16:37	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/18/25 16:37	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/18/25 16:37	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/18/25 16:37	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/18/25 16:37	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/18/25 16:37	1
1,1-Dichloroethane	**2.1**		1.0	0.36	ug/L			08/18/25 16:37	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/18/25 16:37	1
1,1-Dichloroethene	**0.71**	**J**	1.0	0.34	ug/L			08/18/25 16:37	1
trans-1,2-Dichloroethene	**1.8**		1.0	0.19	ug/L			08/18/25 16:37	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/18/25 16:37	1

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28577-1

Client Sample ID: MW-102B/250813
Date Collected: 08/13/25 15:10
Date Received: 08/14/25 11:00

Lab Sample ID: 620-28577-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/18/25 16:37	1
2,2-Dichloropropane	1.0	U *	1.0	0.49	ug/L			08/18/25 16:37	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/18/25 16:37	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/18/25 16:37	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/18/25 16:37	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 16:37	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/18/25 16:37	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/18/25 16:37	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/18/25 16:37	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/18/25 16:37	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 16:37	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/18/25 16:37	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/18/25 16:37	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/18/25 16:37	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 16:37	1
Styrene	1.0	U	1.0	0.42	ug/L			08/18/25 16:37	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/18/25 16:37	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/18/25 16:37	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/18/25 16:37	1
Toluene	**0.62**	**J**	1.0	0.28	ug/L			08/18/25 16:37	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/18/25 16:37	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/18/25 16:37	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/18/25 16:37	1
1,1,1-Trichloroethane	1.0	U *	1.0	0.33	ug/L			08/18/25 16:37	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/18/25 16:37	1
Trichloroethene	**3.7**		1.0	0.36	ug/L			08/18/25 16:37	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/18/25 16:37	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/18/25 16:37	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/18/25 16:37	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 16:37	1
Vinyl chloride	**25**		1.0	0.26	ug/L			08/18/25 16:37	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/18/25 16:37	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/18/25 16:37	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/18/25 16:37	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/18/25 16:37	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 16:37	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/18/25 16:37	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 16:37	1
tert-Butanol	10	U	10	8.5	ug/L			08/18/25 16:37	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/18/25 16:37	1
Ethanol	200	U	200	9.1	ug/L			08/18/25 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/18/25 16:37*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/18/25 16:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*08/18/25 16:37*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*08/18/25 16:37*	*1*

Client Sample ID: MW-102B/250813
Lab Sample ID: 620-28577-5
Date Collected: 08/13/25 15:10
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**150**		10	3.0	ug/L			08/19/25 17:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/19/25 17:08*	*10*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/19/25 17:08*	*10*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/19/25 17:08*	*10*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/19/25 17:08*	*10*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**53**		2.0	1.9	ug/L		08/18/25 18:42	08/20/25 16:36	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*11*		*10 - 150*	*08/18/25 18:42*	*08/20/25 16:36*	*10*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.4**		7.50	3.00	mg/L			08/15/25 22:53	5
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/15/25 10:26	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/15/25 10:26	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**7.0**		0.50	0.19	mg/L		08/14/25 15:34	08/15/25 12:48	1
Magnesium	**10.5**		0.040	0.038	mg/L		08/14/25 15:34	08/15/25 12:48	1
Potassium	**1.1**		1.0	0.34	mg/L		08/14/25 15:34	08/15/25 12:48	1
Sodium	**57.1**		1.5	0.28	mg/L		08/14/25 15:34	08/15/25 12:48	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/14/25 15:34	08/15/25 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	**184**		8.0	2.6	mg/L			08/20/25 06:51	1

Client Sample ID: MW-102IR/250813
Lab Sample ID: 620-28577-6
Date Collected: 08/13/25 15:30
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/21/25 01:42	1
Acetone	**4.8**	**J B**	10	0.90	ug/L			08/21/25 01:42	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/21/25 01:42	1
Benzene	1.0	U	1.0	0.25	ug/L			08/21/25 01:42	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/21/25 01:42	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/21/25 01:42	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/21/25 01:42	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/21/25 01:42	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/21/25 01:42	1

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28577-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: MW-102IR/250813
Lab Sample ID: 620-28577-6
Date Collected: 08/13/25 15:30
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/21/25 01:42	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/21/25 01:42	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/21/25 01:42	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/21/25 01:42	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/21/25 01:42	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/21/25 01:42	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/21/25 01:42	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/21/25 01:42	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/21/25 01:42	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/21/25 01:42	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/21/25 01:42	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/21/25 01:42	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/21/25 01:42	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/21/25 01:42	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/21/25 01:42	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/21/25 01:42	1
1,2-Dichlorobenzene	1.0	U *	1.0	0.48	ug/L			08/21/25 01:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/21/25 01:42	1
1,4-Dichlorobenzene	1.0	U *	1.0	0.49	ug/L			08/21/25 01:42	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/21/25 01:42	1
1,1-Dichloroethane	**0.70**	**J ***	1.0	0.36	ug/L			08/21/25 01:42	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/21/25 01:42	1
1,1-Dichloroethene	**2.1**		1.0	0.34	ug/L			08/21/25 01:42	1
trans-1,2-Dichloroethene	**1.9**		1.0	0.19	ug/L			08/21/25 01:42	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/21/25 01:42	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/21/25 01:42	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/21/25 01:42	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/21/25 01:42	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/21/25 01:42	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/21/25 01:42	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/21/25 01:42	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/21/25 01:42	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/21/25 01:42	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/21/25 01:42	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/21/25 01:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 01:42	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/21/25 01:42	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/21/25 01:42	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/21/25 01:42	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/21/25 01:42	1
Styrene	1.0	U	1.0	0.42	ug/L			08/21/25 01:42	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/21/25 01:42	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/21/25 01:42	1
Tetrachloroethene	**0.45**	**J**	1.0	0.36	ug/L			08/21/25 01:42	1
Toluene	1.0	U *	1.0	0.28	ug/L			08/21/25 01:42	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/21/25 01:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/21/25 01:42	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/21/25 01:42	1
1,1,1-Trichloroethane	**2.7**		1.0	0.33	ug/L			08/21/25 01:42	1

Client Sample ID: MW-102IR/250813
Lab Sample ID: 620-28577-6
Date Collected: 08/13/25 15:30
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/21/25 01:42	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/21/25 01:42	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/21/25 01:42	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/21/25 01:42	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/21/25 01:42	1
Vinyl chloride	**17**		1.0	0.26	ug/L			08/21/25 01:42	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/21/25 01:42	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/21/25 01:42	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/21/25 01:42	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/21/25 01:42	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 01:42	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/21/25 01:42	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 01:42	1
tert-Butanol	10	U	10	8.5	ug/L			08/21/25 01:42	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/21/25 01:42	1
Ethanol	200	U	200	9.1	ug/L			08/21/25 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/21/25 01:42*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/21/25 01:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*08/21/25 01:42*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*08/21/25 01:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**120**		10	3.0	ug/L			08/19/25 17:31	10
Trichloroethene	**260**		10	3.6	ug/L			08/19/25 17:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/19/25 17:31*	*10*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/19/25 17:31*	*10*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*08/19/25 17:31*	*10*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/19/25 17:31*	*10*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**15**		0.20	0.19	ug/L		08/18/25 18:42	08/20/25 16:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*11*		*10 - 150*	*08/18/25 18:42*	*08/20/25 16:02*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.59**		1.50	0.60	mg/L			08/15/25 10:34	1
Nitrate as N	**2.26**		0.11	0.050	mg/L			08/15/25 10:34	1
Sulfate	**25.0**		1.50	0.50	mg/L			08/15/25 10:34	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**60.5**		0.50	0.19	mg/L		08/14/25 15:34	08/15/25 12:54	1
Magnesium	**10.8**		0.040	0.038	mg/L		08/14/25 15:34	08/15/25 12:54	1
Potassium	**1.3**		1.0	0.34	mg/L		08/14/25 15:34	08/15/25 12:54	1

Client Sample ID: MW-102IR/250813
Lab Sample ID: 620-28577-6
Date Collected: 08/13/25 15:30
Matrix: Water
Date Received: 08/14/25 11:00

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**40.8**		1.5	0.28	mg/L		08/14/25 15:34	08/15/25 12:54	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/14/25 15:34	08/15/25 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	**262**		8.0	2.6	mg/L			08/20/25 06:58	1
Total Organic Carbon (SM 5310 C-2014)	**2.9**		1.0	0.50	mg/L			08/20/25 05:55	1
Total Inorganic Carbon (SM 5310 C-2014)	**38.1**		2.0	0.60	mg/L			08/20/25 05:55	1

Client Sample ID: FB/250813
Lab Sample ID: 620-28577-7
Date Collected: 08/13/25 15:00
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/18/25 17:23	1
Acetone	**4.3**	**J**	10	0.90	ug/L			08/18/25 17:23	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/18/25 17:23	1
Benzene	1.0	U	1.0	0.25	ug/L			08/18/25 17:23	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/18/25 17:23	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/18/25 17:23	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/18/25 17:23	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/18/25 17:23	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/18/25 17:23	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/18/25 17:23	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 17:23	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 17:23	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 17:23	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/18/25 17:23	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/18/25 17:23	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/18/25 17:23	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/18/25 17:23	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/18/25 17:23	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/18/25 17:23	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/18/25 17:23	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/18/25 17:23	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/18/25 17:23	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/18/25 17:23	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/18/25 17:23	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/18/25 17:23	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/18/25 17:23	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/18/25 17:23	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/18/25 17:23	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/18/25 17:23	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/18/25 17:23	1

Client Sample ID: FB/250813

Date Collected: 08/13/25 15:00
Date Received: 08/14/25 11:00

Lab Sample ID: 620-28577-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/18/25 17:23	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/18/25 17:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/18/25 17:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/18/25 17:23	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/18/25 17:23	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/18/25 17:23	1
2,2-Dichloropropane	1.0	U *	1.0	0.49	ug/L			08/18/25 17:23	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/18/25 17:23	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/18/25 17:23	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/18/25 17:23	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 17:23	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/18/25 17:23	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/18/25 17:23	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/18/25 17:23	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/18/25 17:23	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 17:23	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/18/25 17:23	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/18/25 17:23	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/18/25 17:23	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 17:23	1
Styrene	1.0	U	1.0	0.42	ug/L			08/18/25 17:23	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/18/25 17:23	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/18/25 17:23	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/18/25 17:23	1
Toluene	1.0	U	1.0	0.28	ug/L			08/18/25 17:23	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/18/25 17:23	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/18/25 17:23	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/18/25 17:23	1
1,1,1-Trichloroethane	1.0	U *	1.0	0.33	ug/L			08/18/25 17:23	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/18/25 17:23	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/18/25 17:23	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/18/25 17:23	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/18/25 17:23	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/18/25 17:23	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 17:23	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/18/25 17:23	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/18/25 17:23	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/18/25 17:23	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/18/25 17:23	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/18/25 17:23	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 17:23	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/18/25 17:23	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 17:23	1
tert-Butanol	10	U	10	8.5	ug/L			08/18/25 17:23	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/18/25 17:23	1
Ethanol	200	U	200	9.1	ug/L			08/18/25 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/18/25 17:23*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/18/25 17:23*	*1*

Client Sample ID: FB/250813
Lab Sample ID: 620-28577-7
Date Collected: 08/13/25 15:00
Matrix: Water
Date Received: 08/14/25 11:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*08/18/25 17:23*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/18/25 17:23*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.19	U	0.19	0.18	ug/L		08/18/25 18:42	08/20/25 16:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*13*		*10 - 150*	*08/18/25 18:42*	*08/20/25 16:19*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.50	U	1.50	0.60	mg/L			08/15/25 10:18	1
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/15/25 10:18	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/15/25 10:18	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.50	U	0.50	0.19	mg/L		08/14/25 15:34	08/15/25 13:00	1
Magnesium	0.040	U	0.040	0.038	mg/L		08/14/25 15:34	08/15/25 13:00	1
Potassium	1.0	U	1.0	0.34	mg/L		08/14/25 15:34	08/15/25 13:00	1
Sodium	1.5	U	1.5	0.28	mg/L		08/14/25 15:34	08/15/25 13:00	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10	U	0.10	0.056	mg/L		08/14/25 15:34	08/15/25 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B-2011)	8.0	U	8.0	2.6	mg/L			08/20/25 07:15	1
Total Organic Carbon (SM 5310 C-2014)	1.0	U	1.0	0.50	mg/L			08/20/25 06:14	1
Total Inorganic Carbon (SM 5310 C-2014)	2.0	U	2.0	0.60	mg/L			08/20/25 06:14	1

Client Sample ID: TB/250813
Lab Sample ID: 620-28577-8
Date Collected: 08/13/25 00:00
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/18/25 12:25	1
Acetone	**2.5**	**J**	10	0.90	ug/L			08/18/25 12:25	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/18/25 12:25	1
Benzene	1.0	U	1.0	0.25	ug/L			08/18/25 12:25	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/18/25 12:25	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/18/25 12:25	1
Bromodichloromethane	0.50	U *	0.50	0.33	ug/L			08/18/25 12:25	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/18/25 12:25	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/18/25 12:25	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/18/25 12:25	1

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28577-1

Client Sample ID: TB/250813
Date Collected: 08/13/25 00:00
Date Received: 08/14/25 11:00

Lab Sample ID: 620-28577-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 12:25	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 12:25	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 12:25	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/18/25 12:25	1
Carbon tetrachloride	1.0	U *	1.0	0.25	ug/L			08/18/25 12:25	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/18/25 12:25	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/18/25 12:25	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/18/25 12:25	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/18/25 12:25	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/18/25 12:25	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/18/25 12:25	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/18/25 12:25	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/18/25 12:25	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/18/25 12:25	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/18/25 12:25	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/18/25 12:25	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/18/25 12:25	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/18/25 12:25	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/18/25 12:25	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/18/25 12:25	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/18/25 12:25	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/18/25 12:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/18/25 12:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/18/25 12:25	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/18/25 12:25	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/18/25 12:25	1
2,2-Dichloropropane	1.0	U *	1.0	0.49	ug/L			08/18/25 12:25	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/18/25 12:25	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/18/25 12:25	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/18/25 12:25	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 12:25	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/18/25 12:25	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/18/25 12:25	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/18/25 12:25	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/18/25 12:25	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 12:25	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/18/25 12:25	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/18/25 12:25	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/18/25 12:25	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 12:25	1
Styrene	1.0	U	1.0	0.42	ug/L			08/18/25 12:25	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/18/25 12:25	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/18/25 12:25	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/18/25 12:25	1
Toluene	1.0	U	1.0	0.28	ug/L			08/18/25 12:25	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/18/25 12:25	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/18/25 12:25	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/18/25 12:25	1
1,1,1-Trichloroethane	1.0	U *	1.0	0.33	ug/L			08/18/25 12:25	1

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28577-1
Project/Site: ESCO Steel Treaters Project

Client Sample ID: TB/250813
Lab Sample ID: 620-28577-8
Date Collected: 08/13/25 00:00
Matrix: Water
Date Received: 08/14/25 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/18/25 12:25	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/18/25 12:25	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/18/25 12:25	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/18/25 12:25	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/18/25 12:25	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 12:25	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/18/25 12:25	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/18/25 12:25	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/18/25 12:25	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/18/25 12:25	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/18/25 12:25	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 12:25	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/18/25 12:25	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 12:25	1
tert-Butanol	10	U	10	8.5	ug/L			08/18/25 12:25	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/18/25 12:25	1
Ethanol	200	U	200	9.1	ug/L			08/18/25 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/18/25 12:25*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/18/25 12:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*08/18/25 12:25*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/18/25 12:25*	*1*

Surrogate Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28577-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-28577-1	MW-17/250811	100	100	113	112
620-28577-1 - DL	MW-17/250811	99	99	110	107
620-28577-2	MW-19/250813	98	100	103	106
620-28577-3	MW-18/250813	99	98	113	111
620-28577-3 - DL	MW-18/250813	98	100	110	107
620-28577-4	MW-103I/250813	100	100	112	113
620-28577-4 - DL	MW-103I/250813	101	101	112	111
620-28577-5	MW-102B/250813	99	100	109	110
620-28577-5 - DL	MW-102B/250813	99	99	110	111
620-28577-6 - DL	MW-102IR/250813	99	100	111	109
620-28577-6	MW-102IR/250813	100	99	105	106
620-28577-7	FB/250813	100	100	111	111
620-28577-8	TB/250813	100	100	111	111
LCS 620-52249/4	Lab Control Sample	102	102	103	107
LCS 620-52339/4	Lab Control Sample	100	102	99	103
LCS 620-52457/4	Lab Control Sample	102	101	96	101
LCS 620-52540/4	Lab Control Sample	104	101	101	104
LCSD 620-52249/5	Lab Control Sample Dup	103	103	104	107
LCSD 620-52339/5	Lab Control Sample Dup	100	102	99	105
LCSD 620-52457/5	Lab Control Sample Dup	102	100	98	103
LCSD 620-52540/5	Lab Control Sample Dup	104	100	101	103
MB 620-52249/7	Method Blank	99	98	109	109
MB 620-52339/7	Method Blank	99	96	102	105
MB 620-52457/7	Method Blank	100	100	104	101
MB 620-52540/7	Method Blank	99	100	107	104

Surrogate Legend

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

Isotope Dilution Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28577-1
Project/Site: ESCO Steel Treaters Project

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

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

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DXE (10-150)						
620-28577-4	MW-103I/250813	9 *						
620-28577-5	MW-102B/250813	11						
620-28577-6	MW-102IR/250813	11						
620-28577-7	FB/250813	13						
LCS 620-52299/2-A	Lab Control Sample	12						
LCSD 620-52299/3-A	Lab Control Sample Dup	12						
MB 620-52299/1-A	Method Blank	14						

Surrogate Legend

DXE = 1,4-Dioxane-d8

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

Lab Sample ID: MB 620-52249/7
Matrix: Water
Analysis Batch: 52249

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/18/25 12:02	1
Acetone	10	U	10	0.90	ug/L			08/18/25 12:02	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/18/25 12:02	1
Benzene	1.0	U	1.0	0.25	ug/L			08/18/25 12:02	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/18/25 12:02	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/18/25 12:02	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/18/25 12:02	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/18/25 12:02	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/18/25 12:02	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/18/25 12:02	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 12:02	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 12:02	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/18/25 12:02	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/18/25 12:02	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/18/25 12:02	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/18/25 12:02	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/18/25 12:02	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/18/25 12:02	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/18/25 12:02	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/18/25 12:02	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/18/25 12:02	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/18/25 12:02	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/18/25 12:02	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/18/25 12:02	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/18/25 12:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/18/25 12:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/18/25 12:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/18/25 12:02	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/18/25 12:02	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/18/25 12:02	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/18/25 12:02	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/18/25 12:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/18/25 12:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/18/25 12:02	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/18/25 12:02	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/18/25 12:02	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/18/25 12:02	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/18/25 12:02	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/18/25 12:02	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/18/25 12:02	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 12:02	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/18/25 12:02	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/18/25 12:02	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/18/25 12:02	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/18/25 12:02	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 12:02	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/18/25 12:02	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/18/25 12:02	1

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

Lab Sample ID: MB 620-52249/7
Matrix: Water
Analysis Batch: 52249

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	2.0	U	2.0	0.70	ug/L			08/18/25 12:02	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/18/25 12:02	1
Styrene	1.0	U	1.0	0.42	ug/L			08/18/25 12:02	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/18/25 12:02	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/18/25 12:02	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/18/25 12:02	1
Toluene	1.0	U	1.0	0.28	ug/L			08/18/25 12:02	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/18/25 12:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/18/25 12:02	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/18/25 12:02	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/18/25 12:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/18/25 12:02	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/18/25 12:02	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/18/25 12:02	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/18/25 12:02	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/18/25 12:02	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/18/25 12:02	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/18/25 12:02	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/18/25 12:02	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/18/25 12:02	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/18/25 12:02	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/18/25 12:02	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 12:02	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/18/25 12:02	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/18/25 12:02	1
tert-Butanol	10	U	10	8.5	ug/L			08/18/25 12:02	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/18/25 12:02	1
Ethanol	200	U	200	9.1	ug/L			08/18/25 12:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/18/25 12:02*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/18/25 12:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*08/18/25 12:02*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/18/25 12:02*	*1*

Lab Sample ID: LCS 620-52249/4
Matrix: Water
Analysis Batch: 52249

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-Trichlorotrifluoroethane (Freon 113)	20.0	20.9		ug/L		104	72 - 120
Acetone	20.0	22.0		ug/L		110	19 - 144
Acrylonitrile	20.0	20.9		ug/L		104	67 - 141
Benzene	20.0	19.8		ug/L		99	82 - 120
Bromobenzene	20.0	21.9		ug/L		110	80 - 115
Bromochloromethane	20.0	21.7		ug/L		108	84 - 119
Bromodichloromethane	20.0	26.0	*	ug/L		130	77 - 118
Bromoform	20.0	23.0		ug/L		115	68 - 130

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

Lab Sample ID: LCS 620-52249/4
Matrix: Water
Analysis Batch: 52249

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	14.9		ug/L		75	27 - 151
2-Butanone (MEK)	20.0	21.6		ug/L		108	32 - 126
n-Butylbenzene	20.0	23.1		ug/L		115	81 - 129
sec-Butylbenzene	20.0	23.1		ug/L		115	81 - 124
tert-Butylbenzene	20.0	23.8		ug/L		119	80 - 128
Carbon disulfide	20.0	18.9		ug/L		94	67 - 136
Carbon tetrachloride	20.0	50.7	*	ug/L		254	70 - 129
Chlorobenzene	20.0	20.7		ug/L		104	82 - 112
Chloroethane	20.0	19.9		ug/L		100	47 - 142
Chloroform	20.0	21.9		ug/L		110	77 - 126
Chloromethane	20.0	14.6		ug/L		73	26 - 159
2-Chlorotoluene	20.0	22.6		ug/L		113	82 - 122
4-Chlorotoluene	20.0	22.6		ug/L		113	79 - 123
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/L		100	64 - 117
Dibromochloromethane	20.0	21.2		ug/L		106	71 - 126
1,2-Dibromoethane (EDB)	20.0	22.4		ug/L		112	83 - 122
Dibromomethane	20.0	21.9		ug/L		110	83 - 117
1,2-Dichlorobenzene	20.0	20.7		ug/L		103	87 - 118
1,3-Dichlorobenzene	20.0	21.5		ug/L		107	83 - 122
1,4-Dichlorobenzene	20.0	20.1		ug/L		100	81 - 115
Dichlorodifluoromethane (Freon 12)	20.0	10.8		ug/L		54	21 - 147
1,1-Dichloroethane	20.0	20.3		ug/L		102	84 - 122
1,2-Dichloroethane	20.0	21.0		ug/L		105	69 - 121
1,1-Dichloroethene	20.0	20.0		ug/L		100	83 - 123
cis-1,2-Dichloroethene	20.0	21.5		ug/L		108	85 - 122
trans-1,2-Dichloroethene	20.0	20.1		ug/L		100	84 - 123
1,2-Dichloropropane	20.0	20.7		ug/L		104	80 - 124
1,3-Dichloropropane	20.0	21.4		ug/L		107	80 - 118
2,2-Dichloropropane	20.0	26.0	*	ug/L		130	74 - 125
1,1-Dichloropropene	20.0	21.5		ug/L		108	76 - 120
cis-1,3-Dichloropropene	20.0	23.0		ug/L		115	76 - 125
trans-1,3-Dichloropropene	20.0	23.0		ug/L		115	77 - 132
Ethylbenzene	20.0	23.0		ug/L		115	85 - 116
Hexachlorobutadiene	20.0	19.7		ug/L		99	70 - 127
2-Hexanone (MBK)	20.0	20.6		ug/L		103	40 - 130
Isopropylbenzene	20.0	21.8		ug/L		109	78 - 122
4-Isopropyltoluene	20.0	23.2		ug/L		116	80 - 121
Methyl tert-butyl ether	20.0	21.3		ug/L		106	72 - 126
4-Methyl-2-pentanone (MIBK)	20.0	18.0		ug/L		90	59 - 130
Methylene Chloride	20.0	20.2		ug/L		101	77 - 124
Naphthalene	20.0	16.4		ug/L		82	57 - 133
N-Propylbenzene	20.0	21.6		ug/L		108	86 - 124
Styrene	20.0	24.1		ug/L		121	80 - 121
1,1,1,2-Tetrachloroethane	20.0	22.3		ug/L		111	81 - 113
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	74 - 115
Tetrachloroethene	20.0	22.1		ug/L		111	78 - 124
Toluene	20.0	21.2		ug/L		106	83 - 114
1,2,3-Trichlorobenzene	20.0	19.0		ug/L		95	73 - 128

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

Lab Sample ID: LCS 620-52249/4
Matrix: Water
Analysis Batch: 52249

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	20.0	20.6		ug/L		103	74 - 128
1,3,5-Trichlorobenzene	20.0	20.6		ug/L		103	81 - 124
1,1,1-Trichloroethane	20.0	27.9	*	ug/L		140	76 - 124
1,1,2-Trichloroethane	20.0	21.5		ug/L		107	83 - 120
Trichloroethene	20.0	21.2		ug/L		106	79 - 113
Trichlorofluoromethane (Freon 11)	20.0	18.7		ug/L		93	68 - 130
1,2,3-Trichloropropane	20.0	21.0		ug/L		105	74 - 116
1,2,4-Trimethylbenzene	20.0	23.8		ug/L		119	83 - 121
1,3,5-Trimethylbenzene	20.0	23.6		ug/L		118	82 - 125
Vinyl chloride	20.0	17.2		ug/L		86	49 - 145
m,p-Xylene	20.0	24.5		ug/L		123	82 - 128
o-Xylene	20.0	23.8		ug/L		119	83 - 122
Tetrahydrofuran	20.0	19.4		ug/L		97	59 - 134
Ethyl ether	20.0	19.3		ug/L		96	74 - 119
Tert-amyl methyl ether	20.0	20.3		ug/L		101	70 - 122
Ethyl tert-butyl ether	20.0	21.5		ug/L		107	72 - 122
di-Isopropyl ether	20.0	20.7		ug/L		103	66 - 130
tert-Butanol	200	207		ug/L		104	60 - 146
trans-1,4-Dichloro-2-butene	20.0	21.1		ug/L		105	57 - 146
Ethanol	400	463		ug/L		116	53 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 620-52249/5
Matrix: Water
Analysis Batch: 52249

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
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	21.1		ug/L		106	72 - 120	1	20
Acetone	20.0	18.7		ug/L		94	19 - 144	16	20
Acrylonitrile	20.0	20.4		ug/L		102	67 - 141	2	20
Benzene	20.0	19.9		ug/L		99	82 - 120	0	20
Bromobenzene	20.0	21.9		ug/L		109	80 - 115	0	20
Bromochloromethane	20.0	21.8		ug/L		109	84 - 119	1	20
Bromodichloromethane	20.0	25.4	*	ug/L		127	77 - 118	2	20
Bromoform	20.0	22.9		ug/L		115	68 - 130	1	20
Bromomethane	20.0	15.7		ug/L		78	27 - 151	5	20
2-Butanone (MEK)	20.0	19.9		ug/L		99	32 - 126	8	20
n-Butylbenzene	20.0	23.2		ug/L		116	81 - 129	1	20
sec-Butylbenzene	20.0	23.1		ug/L		115	81 - 124	0	20
tert-Butylbenzene	20.0	23.8		ug/L		119	80 - 128	0	20
Carbon disulfide	20.0	18.7		ug/L		94	67 - 136	1	20
Carbon tetrachloride	20.0	50.3	*	ug/L		252	70 - 129	1	20

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

Lab Sample ID: LCSD 620-52249/5
Matrix: Water
Analysis Batch: 52249

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
Chlorobenzene	20.0	20.8		ug/L		104	82 - 112	0	20
Chloroethane	20.0	20.3		ug/L		102	47 - 142	2	20
Chloroform	20.0	21.8		ug/L		109	77 - 126	1	20
Chloromethane	20.0	14.5		ug/L		72	26 - 159	1	20
2-Chlorotoluene	20.0	22.5		ug/L		112	82 - 122	1	20
4-Chlorotoluene	20.0	22.8		ug/L		114	79 - 123	1	20
1,2-Dibromo-3-Chloropropane	20.0	19.3		ug/L		97	64 - 117	3	20
Dibromochloromethane	20.0	21.5		ug/L		107	71 - 126	1	20
1,2-Dibromoethane (EDB)	20.0	22.3		ug/L		112	83 - 122	0	20
Dibromomethane	20.0	21.9		ug/L		109	83 - 117	0	20
1,2-Dichlorobenzene	20.0	21.1		ug/L		105	87 - 118	2	20
1,3-Dichlorobenzene	20.0	21.5		ug/L		107	83 - 122	0	20
1,4-Dichlorobenzene	20.0	19.9		ug/L		100	81 - 115	1	20
Dichlorodifluoromethane (Freon 12)	20.0	10.7		ug/L		53	21 - 147	1	20
1,1-Dichloroethane	20.0	20.5		ug/L		103	84 - 122	1	20
1,2-Dichloroethane	20.0	21.2		ug/L		106	69 - 121	1	20
1,1-Dichloroethene	20.0	20.4		ug/L		102	83 - 123	2	20
cis-1,2-Dichloroethene	20.0	21.4		ug/L		107	85 - 122	1	20
trans-1,2-Dichloroethene	20.0	20.8		ug/L		104	84 - 123	3	20
1,2-Dichloropropane	20.0	20.9		ug/L		104	80 - 124	1	20
1,3-Dichloropropane	20.0	21.6		ug/L		108	80 - 118	1	20
2,2-Dichloropropane	20.0	25.5	*	ug/L		127	74 - 125	2	20
1,1-Dichloropropene	20.0	21.9		ug/L		109	76 - 120	2	20
cis-1,3-Dichloropropene	20.0	23.2		ug/L		116	76 - 125	1	20
trans-1,3-Dichloropropene	20.0	23.0		ug/L		115	77 - 132	0	20
Ethylbenzene	20.0	23.1		ug/L		115	85 - 116	0	20
Hexachlorobutadiene	20.0	20.2		ug/L		101	70 - 127	2	20
2-Hexanone (MBK)	20.0	18.1		ug/L		90	40 - 130	13	20
Isopropylbenzene	20.0	21.6		ug/L		108	78 - 122	1	20
4-Isopropyltoluene	20.0	23.1		ug/L		115	80 - 121	1	20
Methyl tert-butyl ether	20.0	22.0		ug/L		110	72 - 126	3	20
4-Methyl-2-pentanone (MIBK)	20.0	17.4		ug/L		87	59 - 130	3	20
Methylene Chloride	20.0	20.0		ug/L		100	77 - 124	1	20
Naphthalene	20.0	16.5		ug/L		83	57 - 133	1	20
N-Propylbenzene	20.0	21.3		ug/L		107	86 - 124	1	20
Styrene	20.0	23.9		ug/L		120	80 - 121	1	20
1,1,1,2-Tetrachloroethane	20.0	22.5		ug/L		112	81 - 113	1	20
1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		104	74 - 115	2	20
Tetrachloroethene	20.0	22.4		ug/L		112	78 - 124	1	20
Toluene	20.0	21.3		ug/L		107	83 - 114	1	20
1,2,3-Trichlorobenzene	20.0	19.5		ug/L		97	73 - 128	2	20
1,2,4-Trichlorobenzene	20.0	21.0		ug/L		105	74 - 128	2	20
1,3,5-Trichlorobenzene	20.0	20.8		ug/L		104	81 - 124	1	20
1,1,1-Trichloroethane	20.0	28.4	*	ug/L		142	76 - 124	2	20
1,1,2-Trichloroethane	20.0	21.5		ug/L		108	83 - 120	0	20
Trichloroethene	20.0	22.0		ug/L		110	79 - 113	4	20
Trichlorofluoromethane (Freon 11)	20.0	21.0		ug/L		105	68 - 130	12	20

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

Lab Sample ID: LCSD 620-52249/5
Matrix: Water
Analysis Batch: 52249

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
1,2,3-Trichloropropane			20.0	20.8		ug/L		104	74 - 116	1	20
1,2,4-Trimethylbenzene			20.0	23.7		ug/L		119	83 - 121	0	20
1,3,5-Trimethylbenzene			20.0	23.6		ug/L		118	82 - 125	0	20
Vinyl chloride			20.0	16.9		ug/L		85	49 - 145	1	20
m,p-Xylene			20.0	24.5		ug/L		123	82 - 128	0	20
o-Xylene			20.0	23.9		ug/L		120	83 - 122	1	20
Tetrahydrofuran			20.0	18.8		ug/L		94	59 - 134	3	20
Ethyl ether			20.0	19.6		ug/L		98	74 - 119	2	20
Tert-amyl methyl ether			20.0	20.5		ug/L		102	70 - 122	1	20
Ethyl tert-butyl ether			20.0	21.8		ug/L		109	72 - 122	2	20
di-Isopropyl ether			20.0	20.5		ug/L		102	66 - 130	1	20
tert-Butanol			200	184		ug/L		92	60 - 146	12	20
trans-1,4-Dichloro-2-butene			20.0	20.5		ug/L		103	57 - 146	3	20
Ethanol			400	428		ug/L		107	53 - 150	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 620-52339/7
Matrix: Water
Analysis Batch: 52339

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/19/25 14:16	1
Acetone	3.06	J	10	0.90	ug/L			08/19/25 14:16	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/19/25 14:16	1
Benzene	1.0	U	1.0	0.25	ug/L			08/19/25 14:16	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/19/25 14:16	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/19/25 14:16	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/19/25 14:16	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/19/25 14:16	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/19/25 14:16	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/19/25 14:16	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/19/25 14:16	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/19/25 14:16	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/19/25 14:16	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/19/25 14:16	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/19/25 14:16	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/19/25 14:16	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/19/25 14:16	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/19/25 14:16	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/19/25 14:16	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/19/25 14:16	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/19/25 14:16	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/19/25 14:16	1

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

Lab Sample ID: MB 620-52339/7
Matrix: Water
Analysis Batch: 52339

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/19/25 14:16	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/19/25 14:16	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/19/25 14:16	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/19/25 14:16	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/19/25 14:16	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/19/25 14:16	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/19/25 14:16	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/19/25 14:16	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/19/25 14:16	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/19/25 14:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/19/25 14:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/19/25 14:16	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/19/25 14:16	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/19/25 14:16	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/19/25 14:16	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/19/25 14:16	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/19/25 14:16	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/19/25 14:16	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/19/25 14:16	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/19/25 14:16	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/19/25 14:16	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/19/25 14:16	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/19/25 14:16	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/19/25 14:16	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/19/25 14:16	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/19/25 14:16	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/19/25 14:16	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/19/25 14:16	1
Styrene	1.0	U	1.0	0.42	ug/L			08/19/25 14:16	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/19/25 14:16	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/19/25 14:16	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/19/25 14:16	1
Toluene	1.0	U	1.0	0.28	ug/L			08/19/25 14:16	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/19/25 14:16	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/19/25 14:16	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/19/25 14:16	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/19/25 14:16	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/19/25 14:16	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/19/25 14:16	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/19/25 14:16	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/19/25 14:16	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/19/25 14:16	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/19/25 14:16	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/19/25 14:16	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/19/25 14:16	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/19/25 14:16	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/19/25 14:16	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/19/25 14:16	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/19/25 14:16	1

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

Lab Sample ID: MB 620-52339/7
Matrix: Water
Analysis Batch: 52339

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/19/25 14:16	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/19/25 14:16	1
tert-Butanol	10	U	10	8.5	ug/L			08/19/25 14:16	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/19/25 14:16	1
Ethanol	200	U	200	9.1	ug/L			08/19/25 14:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/19/25 14:16*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*08/19/25 14:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*08/19/25 14:16*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*08/19/25 14:16*	*1*

Lab Sample ID: LCS 620-52339/4
Matrix: Water
Analysis Batch: 52339

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-Trichlorotrifluoroethane (Freon 113)	20.0	22.2		ug/L		111	72 - 120
Acetone	20.0	15.8		ug/L		79	19 - 144
Acrylonitrile	20.0	21.4		ug/L		107	67 - 141
Benzene	20.0	20.8		ug/L		104	82 - 120
Bromobenzene	20.0	21.7		ug/L		108	80 - 115
Bromochloromethane	20.0	22.7		ug/L		113	84 - 119
Bromodichloromethane	20.0	24.9	*	ug/L		124	77 - 118
Bromoform	20.0	21.6		ug/L		108	68 - 130
Bromomethane	20.0	16.9		ug/L		85	27 - 151
2-Butanone (MEK)	20.0	17.6		ug/L		88	32 - 126
n-Butylbenzene	20.0	22.6		ug/L		113	81 - 129
sec-Butylbenzene	20.0	22.4		ug/L		112	81 - 124
tert-Butylbenzene	20.0	23.0		ug/L		115	80 - 128
Carbon disulfide	20.0	21.7		ug/L		108	67 - 136
Carbon tetrachloride	20.0	49.6	*	ug/L		248	70 - 129
Chlorobenzene	20.0	20.7		ug/L		104	82 - 112
Chloroethane	20.0	19.8		ug/L		99	47 - 142
Chloroform	20.0	21.5		ug/L		108	77 - 126
Chloromethane	20.0	15.6		ug/L		78	26 - 159
2-Chlorotoluene	20.0	22.1		ug/L		111	82 - 122
4-Chlorotoluene	20.0	22.1		ug/L		111	79 - 123
1,2-Dibromo-3-Chloropropane	20.0	18.3		ug/L		91	64 - 117
Dibromochloromethane	20.0	20.4		ug/L		102	71 - 126
1,2-Dibromoethane (EDB)	20.0	22.1		ug/L		111	83 - 122
Dibromomethane	20.0	21.5		ug/L		107	83 - 117
1,2-Dichlorobenzene	20.0	20.7		ug/L		104	87 - 118
1,3-Dichlorobenzene	20.0	20.9		ug/L		105	83 - 122
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	81 - 115
Dichlorodifluoromethane (Freon 12)	20.0	21.5		ug/L		107	21 - 147
1,1-Dichloroethane	20.0	21.0		ug/L		105	84 - 122

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

Lab Sample ID: LCS 620-52339/4
Matrix: Water
Analysis Batch: 52339

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	20.0	20.4		ug/L		102	69 - 121
1,1-Dichloroethene	20.0	22.2		ug/L		111	83 - 123
cis-1,2-Dichloroethene	20.0	22.1		ug/L		110	85 - 122
trans-1,2-Dichloroethene	20.0	21.8		ug/L		109	84 - 123
1,2-Dichloropropane	20.0	21.3		ug/L		106	80 - 124
1,3-Dichloropropane	20.0	21.0		ug/L		105	80 - 118
2,2-Dichloropropane	20.0	25.0		ug/L		125	74 - 125
1,1-Dichloropropene	20.0	22.9		ug/L		114	76 - 120
cis-1,3-Dichloropropene	20.0	22.5		ug/L		113	76 - 125
trans-1,3-Dichloropropene	20.0	21.8		ug/L		109	77 - 132
Ethylbenzene	20.0	23.1		ug/L		116	85 - 116
Hexachlorobutadiene	20.0	18.8		ug/L		94	70 - 127
2-Hexanone (MBK)	20.0	15.2		ug/L		76	40 - 130
Isopropylbenzene	20.0	21.0		ug/L		105	78 - 122
4-Isopropyltoluene	20.0	22.8		ug/L		114	80 - 121
Methyl tert-butyl ether	20.0	22.6		ug/L		113	72 - 126
4-Methyl-2-pentanone (MIBK)	20.0	16.1		ug/L		80	59 - 130
Methylene Chloride	20.0	21.0		ug/L		105	77 - 124
Naphthalene	20.0	15.2		ug/L		76	57 - 133
N-Propylbenzene	20.0	21.2		ug/L		106	86 - 124
Styrene	20.0	24.0		ug/L		120	80 - 121
1,1,1,2-Tetrachloroethane	20.0	21.7		ug/L		108	81 - 113
1,1,2,2-Tetrachloroethane	20.0	19.3		ug/L		96	74 - 115
Tetrachloroethene	20.0	22.6		ug/L		113	78 - 124
Toluene	20.0	21.8		ug/L		109	83 - 114
1,2,3-Trichlorobenzene	20.0	18.1		ug/L		90	73 - 128
1,2,4-Trichlorobenzene	20.0	19.6		ug/L		98	74 - 128
1,3,5-Trichlorobenzene	20.0	20.4		ug/L		102	81 - 124
1,1,1-Trichloroethane	20.0	26.7	*	ug/L		133	76 - 124
1,1,2-Trichloroethane	20.0	21.1		ug/L		105	83 - 120
Trichloroethene	20.0	22.2		ug/L		111	79 - 113
Trichlorofluoromethane (Freon 11)	20.0	21.9		ug/L		110	68 - 130
1,2,3-Trichloropropane	20.0	19.7		ug/L		98	74 - 116
1,2,4-Trimethylbenzene	20.0	22.7		ug/L		114	83 - 121
1,3,5-Trimethylbenzene	20.0	23.2		ug/L		116	82 - 125
Vinyl chloride	20.0	20.0		ug/L		100	49 - 145
m,p-Xylene	20.0	24.0		ug/L		120	82 - 128
o-Xylene	20.0	23.3		ug/L		117	83 - 122
Tetrahydrofuran	20.0	20.4		ug/L		102	59 - 134
Ethyl ether	20.0	21.2		ug/L		106	74 - 119
Tert-amyl methyl ether	20.0	20.4		ug/L		102	70 - 122
Ethyl tert-butyl ether	20.0	22.0		ug/L		110	72 - 122
di-Isopropyl ether	20.0	21.1		ug/L		106	66 - 130
tert-Butanol	200	207		ug/L		103	60 - 146
trans-1,4-Dichloro-2-butene	20.0	18.5		ug/L		93	57 - 146
Ethanol	400	427		ug/L		107	53 - 150

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

Lab Sample ID: LCS 620-52339/4
Matrix: Water
Analysis Batch: 52339

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 620-52339/5
Matrix: Water
Analysis Batch: 52339

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
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	22.0		ug/L		110	72 - 120	1	20
Acetone			20.0	14.9		ug/L		75	19 - 144	6	20
Acrylonitrile			20.0	21.1		ug/L		106	67 - 141	1	20
Benzene			20.0	20.7		ug/L		104	82 - 120	1	20
Bromobenzene			20.0	21.5		ug/L		107	80 - 115	1	20
Bromochloromethane			20.0	22.3		ug/L		111	84 - 119	2	20
Bromodichloromethane			20.0	24.1	*	ug/L		121	77 - 118	3	20
Bromoform			20.0	22.0		ug/L		110	68 - 130	2	20
Bromomethane			20.0	18.8		ug/L		94	27 - 151	10	20
2-Butanone (MEK)			20.0	15.8		ug/L		79	32 - 126	11	20
n-Butylbenzene			20.0	21.9		ug/L		110	81 - 129	3	20
sec-Butylbenzene			20.0	22.1		ug/L		110	81 - 124	1	20
tert-Butylbenzene			20.0	22.9		ug/L		114	80 - 128	0	20
Carbon disulfide			20.0	21.3		ug/L		106	67 - 136	2	20
Carbon tetrachloride			20.0	50.7	*	ug/L		253	70 - 129	2	20
Chlorobenzene			20.0	20.7		ug/L		103	82 - 112	0	20
Chloroethane			20.0	20.5		ug/L		103	47 - 142	4	20
Chloroform			20.0	21.4		ug/L		107	77 - 126	1	20
Chloromethane			20.0	15.2		ug/L		76	26 - 159	3	20
2-Chlorotoluene			20.0	22.1		ug/L		111	82 - 122	0	20
4-Chlorotoluene			20.0	21.8		ug/L		109	79 - 123	1	20
1,2-Dibromo-3-Chloropropane			20.0	18.1		ug/L		90	64 - 117	1	20
Dibromochloromethane			20.0	20.3		ug/L		102	71 - 126	0	20
1,2-Dibromoethane (EDB)			20.0	21.7		ug/L		109	83 - 122	2	20
Dibromomethane			20.0	21.6		ug/L		108	83 - 117	1	20
1,2-Dichlorobenzene			20.0	20.5		ug/L		103	87 - 118	1	20
1,3-Dichlorobenzene			20.0	21.1		ug/L		105	83 - 122	1	20
1,4-Dichlorobenzene			20.0	19.9		ug/L		100	81 - 115	0	20
Dichlorodifluoromethane (Freon 12)			20.0	20.8		ug/L		104	21 - 147	3	20
1,1-Dichloroethane			20.0	20.7		ug/L		104	84 - 122	1	20
1,2-Dichloroethane			20.0	20.4		ug/L		102	69 - 121	0	20
1,1-Dichloroethene			20.0	22.0		ug/L		110	83 - 123	1	20
cis-1,2-Dichloroethene			20.0	22.5		ug/L		112	85 - 122	2	20
trans-1,2-Dichloroethene			20.0	21.6		ug/L		108	84 - 123	1	20
1,2-Dichloropropane			20.0	20.9		ug/L		104	80 - 124	2	20
1,3-Dichloropropane			20.0	20.7		ug/L		104	80 - 118	2	20
2,2-Dichloropropane			20.0	24.5		ug/L		123	74 - 125	2	20

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

Lab Sample ID: LCSD 620-52339/5
Matrix: Water
Analysis Batch: 52339

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
1,1-Dichloropropene			20.0	22.4		ug/L		112	76 - 120	2	20
cis-1,3-Dichloropropene			20.0	22.3		ug/L		111	76 - 125	1	20
trans-1,3-Dichloropropene			20.0	21.8		ug/L		109	77 - 132	0	20
Ethylbenzene			20.0	22.8		ug/L		114	85 - 116	1	20
Hexachlorobutadiene			20.0	18.9		ug/L		95	70 - 127	1	20
2-Hexanone (MBK)			20.0	14.3		ug/L		71	40 - 130	6	20
Isopropylbenzene			20.0	20.8		ug/L		104	78 - 122	1	20
4-Isopropyltoluene			20.0	22.3		ug/L		112	80 - 121	2	20
Methyl tert-butyl ether			20.0	22.7		ug/L		114	72 - 126	0	20
4-Methyl-2-pentanone (MIBK)			20.0	15.3		ug/L		76	59 - 130	5	20
Methylene Chloride			20.0	21.3		ug/L		106	77 - 124	1	20
Naphthalene			20.0	16.0		ug/L		80	57 - 133	5	20
N-Propylbenzene			20.0	21.0		ug/L		105	86 - 124	1	20
Styrene			20.0	23.3		ug/L		117	80 - 121	3	20
1,1,1,2-Tetrachloroethane			20.0	21.7		ug/L		108	81 - 113	0	20
1,1,2,2-Tetrachloroethane			20.0	19.7		ug/L		98	74 - 115	2	20
Tetrachloroethene			20.0	22.2		ug/L		111	78 - 124	2	20
Toluene			20.0	21.3		ug/L		107	83 - 114	2	20
1,2,3-Trichlorobenzene			20.0	18.9		ug/L		95	73 - 128	5	20
1,2,4-Trichlorobenzene			20.0	20.6		ug/L		103	74 - 128	5	20
1,3,5-Trichlorobenzene			20.0	20.5		ug/L		102	81 - 124	0	20
1,1,1-Trichloroethane			20.0	26.4	*	ug/L		132	76 - 124	1	20
1,1,2-Trichloroethane			20.0	20.8		ug/L		104	83 - 120	1	20
Trichloroethene			20.0	21.4		ug/L		107	79 - 113	4	20
Trichlorofluoromethane (Freon 11)			20.0	21.5		ug/L		107	68 - 130	2	20
1,2,3-Trichloropropane			20.0	19.7		ug/L		98	74 - 116	0	20
1,2,4-Trimethylbenzene			20.0	22.9		ug/L		114	83 - 121	1	20
1,3,5-Trimethylbenzene			20.0	23.1		ug/L		116	82 - 125	0	20
Vinyl chloride			20.0	19.7		ug/L		98	49 - 145	2	20
m,p-Xylene			20.0	23.5		ug/L		118	82 - 128	2	20
o-Xylene			20.0	23.0		ug/L		115	83 - 122	1	20
Tetrahydrofuran			20.0	20.1		ug/L		100	59 - 134	1	20
Ethyl ether			20.0	20.9		ug/L		105	74 - 119	1	20
Tert-amyl methyl ether			20.0	20.1		ug/L		100	70 - 122	2	20
Ethyl tert-butyl ether			20.0	22.0		ug/L		110	72 - 122	0	20
di-Isopropyl ether			20.0	21.3		ug/L		106	66 - 130	1	20
tert-Butanol			200	199		ug/L		99	60 - 146	4	20
trans-1,4-Dichloro-2-butene			20.0	18.4		ug/L		92	57 - 146	1	20
Ethanol			400	464		ug/L		116	53 - 150	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*

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

Lab Sample ID: MB 620-52457/7
Matrix: Water
Analysis Batch: 52457

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/20/25 21:43	1
Acetone	3.91	J	10	0.90	ug/L			08/20/25 21:43	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/20/25 21:43	1
Benzene	1.0	U	1.0	0.25	ug/L			08/20/25 21:43	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/20/25 21:43	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/20/25 21:43	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/20/25 21:43	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/20/25 21:43	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/20/25 21:43	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/20/25 21:43	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/20/25 21:43	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/20/25 21:43	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/20/25 21:43	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/20/25 21:43	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/20/25 21:43	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/20/25 21:43	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/20/25 21:43	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/20/25 21:43	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/20/25 21:43	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/20/25 21:43	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/20/25 21:43	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/20/25 21:43	1
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/20/25 21:43	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/20/25 21:43	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/20/25 21:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/20/25 21:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/20/25 21:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/20/25 21:43	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/20/25 21:43	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/20/25 21:43	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/20/25 21:43	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/20/25 21:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/20/25 21:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/20/25 21:43	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/20/25 21:43	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/20/25 21:43	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/20/25 21:43	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/20/25 21:43	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/20/25 21:43	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/20/25 21:43	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/20/25 21:43	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/20/25 21:43	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/20/25 21:43	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/20/25 21:43	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/20/25 21:43	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/20/25 21:43	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/20/25 21:43	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/20/25 21:43	1

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

Lab Sample ID: MB 620-52457/7
Matrix: Water
Analysis Batch: 52457

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	2.0	U	2.0	0.70	ug/L			08/20/25 21:43	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/20/25 21:43	1
Styrene	1.0	U	1.0	0.42	ug/L			08/20/25 21:43	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/20/25 21:43	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/20/25 21:43	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/20/25 21:43	1
Toluene	1.0	U	1.0	0.28	ug/L			08/20/25 21:43	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/20/25 21:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/20/25 21:43	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/20/25 21:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/20/25 21:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/20/25 21:43	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/20/25 21:43	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/20/25 21:43	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/20/25 21:43	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/20/25 21:43	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/20/25 21:43	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/20/25 21:43	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/20/25 21:43	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/20/25 21:43	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/20/25 21:43	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/20/25 21:43	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/20/25 21:43	1
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/20/25 21:43	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/20/25 21:43	1
tert-Butanol	10	U	10	8.5	ug/L			08/20/25 21:43	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/20/25 21:43	1
Ethanol	200	U	200	9.1	ug/L			08/20/25 21:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/20/25 21:43*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/20/25 21:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*08/20/25 21:43*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*08/20/25 21:43*	*1*

Lab Sample ID: LCS 620-52457/4
Matrix: Water
Analysis Batch: 52457

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-Trichlorotrifluoroethane (Freon 113)	20.0	20.6		ug/L		103	72 - 120
Acetone	20.0	19.1		ug/L		96	19 - 144
Acrylonitrile	20.0	15.8		ug/L		79	67 - 141
Benzene	20.0	17.8		ug/L		89	82 - 120
Bromobenzene	20.0	19.1		ug/L		95	80 - 115
Bromochloromethane	20.0	18.0		ug/L		90	84 - 119
Bromodichloromethane	20.0	16.6		ug/L		83	77 - 118
Bromoform	20.0	20.0		ug/L		100	68 - 130

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

Lab Sample ID: LCS 620-52457/4
Matrix: Water
Analysis Batch: 52457

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	17.7		ug/L		89	27 - 151
2-Butanone (MEK)	20.0	14.7		ug/L		73	32 - 126
n-Butylbenzene	20.0	18.4		ug/L		92	81 - 129
sec-Butylbenzene	20.0	20.8		ug/L		104	81 - 124
tert-Butylbenzene	20.0	20.7		ug/L		103	80 - 128
Carbon disulfide	20.0	16.8		ug/L		84	67 - 136
Carbon tetrachloride	20.0	19.4		ug/L		97	70 - 129
Chlorobenzene	20.0	18.3		ug/L		92	82 - 112
Chloroethane	20.0	22.1		ug/L		111	47 - 142
Chloroform	20.0	18.3		ug/L		91	77 - 126
Chloromethane	20.0	14.6		ug/L		73	26 - 159
2-Chlorotoluene	20.0	19.8		ug/L		99	82 - 122
4-Chlorotoluene	20.0	19.1		ug/L		95	79 - 123
1,2-Dibromo-3-Chloropropane	20.0	17.9		ug/L		89	64 - 117
Dibromochloromethane	20.0	17.0		ug/L		85	71 - 126
1,2-Dibromoethane (EDB)	20.0	19.3		ug/L		96	83 - 122
Dibromomethane	20.0	18.1		ug/L		91	83 - 117
1,2-Dichlorobenzene	20.0	18.9		ug/L		95	87 - 118
1,3-Dichlorobenzene	20.0	19.2		ug/L		96	83 - 122
1,4-Dichlorobenzene	20.0	17.3		ug/L		86	81 - 115
Dichlorodifluoromethane (Freon 12)	20.0	18.0		ug/L		90	21 - 147
1,1-Dichloroethane	20.0	17.7		ug/L		88	84 - 122
1,2-Dichloroethane	20.0	16.1		ug/L		80	69 - 121
1,1-Dichloroethene	20.0	18.4		ug/L		92	83 - 123
cis-1,2-Dichloroethene	20.0	18.8		ug/L		94	85 - 122
trans-1,2-Dichloroethene	20.0	19.5		ug/L		98	84 - 123
1,2-Dichloropropane	20.0	17.7		ug/L		89	80 - 124
1,3-Dichloropropane	20.0	18.2		ug/L		91	80 - 118
2,2-Dichloropropane	20.0	20.8		ug/L		104	74 - 125
1,1-Dichloropropene	20.0	20.1		ug/L		101	76 - 120
cis-1,3-Dichloropropene	20.0	17.0		ug/L		85	76 - 125
trans-1,3-Dichloropropene	20.0	19.8		ug/L		99	77 - 132
Ethylbenzene	20.0	18.6		ug/L		93	85 - 116
Hexachlorobutadiene	20.0	22.2		ug/L		111	70 - 127
2-Hexanone (MBK)	20.0	16.6		ug/L		83	40 - 130
Isopropylbenzene	20.0	20.2		ug/L		101	78 - 122
4-Isopropyltoluene	20.0	17.9		ug/L		89	80 - 121
Methyl tert-butyl ether	20.0	21.6		ug/L		108	72 - 126
4-Methyl-2-pentanone (MIBK)	20.0	14.9		ug/L		74	59 - 130
Methylene Chloride	20.0	18.5		ug/L		93	77 - 124
Naphthalene	20.0	18.6		ug/L		93	57 - 133
N-Propylbenzene	20.0	19.7		ug/L		99	86 - 124
Styrene	20.0	18.0		ug/L		90	80 - 121
1,1,1,2-Tetrachloroethane	20.0	19.3		ug/L		96	81 - 113
1,1,2,2-Tetrachloroethane	20.0	17.2		ug/L		86	74 - 115
Tetrachloroethene	20.0	20.1		ug/L		101	78 - 124
Toluene	20.0	17.6		ug/L		88	83 - 114
1,2,3-Trichlorobenzene	20.0	20.6		ug/L		103	73 - 128

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

Lab Sample ID: LCS 620-52457/4
Matrix: Water
Analysis Batch: 52457

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	20.0	18.2		ug/L		91	74 - 128
1,3,5-Trichlorobenzene	20.0	20.9		ug/L		104	81 - 124
1,1,1-Trichloroethane	20.0	19.5		ug/L		97	76 - 124
1,1,2-Trichloroethane	20.0	18.3		ug/L		92	83 - 120
Trichloroethene	20.0	17.4		ug/L		87	79 - 113
Trichlorofluoromethane (Freon 11)	20.0	21.8		ug/L		109	68 - 130
1,2,3-Trichloropropane	20.0	18.2		ug/L		91	74 - 116
1,2,4-Trimethylbenzene	20.0	18.4		ug/L		92	83 - 121
1,3,5-Trimethylbenzene	20.0	19.7		ug/L		98	82 - 125
Vinyl chloride	20.0	17.8		ug/L		89	49 - 145
m,p-Xylene	40.0	39.8		ug/L		99	82 - 128
o-Xylene	20.0	19.4		ug/L		97	83 - 122
Tetrahydrofuran	20.0	14.8		ug/L		74	59 - 134
Ethyl ether	20.0	16.2		ug/L		81	74 - 119
Tert-amyl methyl ether	20.0	21.8		ug/L		109	70 - 122
Ethyl tert-butyl ether	20.0	18.4		ug/L		92	72 - 122
di-Isopropyl ether	20.0	15.1		ug/L		75	66 - 130
tert-Butanol	200	209		ug/L		104	60 - 146
trans-1,4-Dichloro-2-butene	20.0	15.1		ug/L		76	57 - 146
Ethanol	400	294		ug/L		74	53 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 620-52457/5
Matrix: Water
Analysis Batch: 52457

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
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.7		ug/L		94	72 - 120	10	20
Acetone	20.0	15.7		ug/L		79	19 - 144	19	20
Acrylonitrile	20.0	16.1		ug/L		80	67 - 141	2	20
Benzene	20.0	16.6		ug/L		83	82 - 120	7	20
Bromobenzene	20.0	17.6		ug/L		88	80 - 115	8	20
Bromochloromethane	20.0	17.3		ug/L		87	84 - 119	4	20
Bromodichloromethane	20.0	15.7		ug/L		78	77 - 118	6	20
Bromoform	20.0	18.5		ug/L		93	68 - 130	8	20
Bromomethane	20.0	17.2		ug/L		86	27 - 151	3	20
2-Butanone (MEK)	20.0	13.2		ug/L		66	32 - 126	11	20
n-Butylbenzene	20.0	16.3		ug/L		81	81 - 129	12	20
sec-Butylbenzene	20.0	18.6		ug/L		93	81 - 124	11	20
tert-Butylbenzene	20.0	18.8		ug/L		94	80 - 128	10	20
Carbon disulfide	20.0	15.3		ug/L		76	67 - 136	9	20
Carbon tetrachloride	20.0	18.0		ug/L		90	70 - 129	8	20

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

Lab Sample ID: LCSD 620-52457/5
Matrix: Water
Analysis Batch: 52457

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
Chlorobenzene	20.0	16.9		ug/L		84	82 - 112	8	20
Chloroethane	20.0	18.3		ug/L		91	47 - 142	19	20
Chloroform	20.0	16.9		ug/L		85	77 - 126	8	20
Chloromethane	20.0	13.4		ug/L		67	26 - 159	9	20
2-Chlorotoluene	20.0	18.1		ug/L		90	82 - 122	9	20
4-Chlorotoluene	20.0	17.6		ug/L		88	79 - 123	8	20
1,2-Dibromo-3-Chloropropane	20.0	17.2		ug/L		86	64 - 117	4	20
Dibromochloromethane	20.0	16.1		ug/L		81	71 - 126	5	20
1,2-Dibromoethane (EDB)	20.0	18.4		ug/L		92	83 - 122	5	20
Dibromomethane	20.0	17.4		ug/L		87	83 - 117	4	20
1,2-Dichlorobenzene	20.0	17.2	*	ug/L		86	87 - 118	9	20
1,3-Dichlorobenzene	20.0	17.8		ug/L		89	83 - 122	8	20
1,4-Dichlorobenzene	20.0	15.7	*	ug/L		79	81 - 115	9	20
Dichlorodifluoromethane (Freon 12)	20.0	15.9		ug/L		80	21 - 147	13	20
1,1-Dichloroethane	20.0	16.6	*	ug/L		83	84 - 122	6	20
1,2-Dichloroethane	20.0	15.0		ug/L		75	69 - 121	7	20
1,1-Dichloroethene	20.0	16.8		ug/L		84	83 - 123	9	20
cis-1,2-Dichloroethene	20.0	17.7		ug/L		88	85 - 122	6	20
trans-1,2-Dichloroethene	20.0	17.8		ug/L		89	84 - 123	9	20
1,2-Dichloropropane	20.0	16.9		ug/L		84	80 - 124	5	20
1,3-Dichloropropane	20.0	17.2		ug/L		86	80 - 118	6	20
2,2-Dichloropropane	20.0	19.0		ug/L		95	74 - 125	9	20
1,1-Dichloropropene	20.0	18.1		ug/L		90	76 - 120	11	20
cis-1,3-Dichloropropene	20.0	16.3		ug/L		81	76 - 125	5	20
trans-1,3-Dichloropropene	20.0	18.5		ug/L		92	77 - 132	7	20
Ethylbenzene	20.0	16.9		ug/L		85	85 - 116	9	20
Hexachlorobutadiene	20.0	19.1		ug/L		96	70 - 127	15	20
2-Hexanone (MBK)	20.0	15.5		ug/L		77	40 - 130	7	20
Isopropylbenzene	20.0	18.1		ug/L		91	78 - 122	11	20
4-Isopropyltoluene	20.0	15.9		ug/L		80	80 - 121	11	20
Methyl tert-butyl ether	20.0	20.5		ug/L		102	72 - 126	6	20
4-Methyl-2-pentanone (MIBK)	20.0	14.2		ug/L		71	59 - 130	4	20
Methylene Chloride	20.0	17.6		ug/L		88	77 - 124	5	20
Naphthalene	20.0	17.0		ug/L		85	57 - 133	9	20
N-Propylbenzene	20.0	17.9		ug/L		89	86 - 124	10	20
Styrene	20.0	16.6		ug/L		83	80 - 121	8	20
1,1,1,2-Tetrachloroethane	20.0	17.7		ug/L		88	81 - 113	9	20
1,1,2,2-Tetrachloroethane	20.0	16.4		ug/L		82	74 - 115	5	20
Tetrachloroethene	20.0	18.2		ug/L		91	78 - 124	10	20
Toluene	20.0	16.4	*	ug/L		82	83 - 114	8	20
1,2,3-Trichlorobenzene	20.0	18.7		ug/L		94	73 - 128	9	20
1,2,4-Trichlorobenzene	20.0	16.6		ug/L		83	74 - 128	9	20
1,3,5-Trichlorobenzene	20.0	19.0		ug/L		95	81 - 124	9	20
1,1,1-Trichloroethane	20.0	18.1		ug/L		91	76 - 124	7	20
1,1,2-Trichloroethane	20.0	17.5		ug/L		87	83 - 120	5	20
Trichloroethene	20.0	16.2		ug/L		81	79 - 113	7	20
Trichlorofluoromethane (Freon 11)	20.0	19.6		ug/L		98	68 - 130	11	20

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

Lab Sample ID: LCSD 620-52457/5
Matrix: Water
Analysis Batch: 52457

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
1,2,3-Trichloropropane			20.0	17.1		ug/L		86	74 - 116	6	20
1,2,4-Trimethylbenzene			20.0	16.7		ug/L		83	83 - 121	10	20
1,3,5-Trimethylbenzene			20.0	17.7		ug/L		89	82 - 125	10	20
Vinyl chloride			20.0	16.2		ug/L		81	49 - 145	9	20
m,p-Xylene			40.0	36.6		ug/L		92	82 - 128	8	20
o-Xylene			20.0	17.9		ug/L		89	83 - 122	8	20
Tetrahydrofuran			20.0	14.6		ug/L		73	59 - 134	1	20
Ethyl ether			20.0	15.9		ug/L		80	74 - 119	2	20
Tert-amyl methyl ether			20.0	20.8		ug/L		104	70 - 122	5	20
Ethyl tert-butyl ether			20.0	17.4		ug/L		87	72 - 122	6	20
di-Isopropyl ether			20.0	14.3		ug/L		71	66 - 130	6	20
tert-Butanol			200	209		ug/L		105	60 - 146	0	20
trans-1,4-Dichloro-2-butene			20.0	14.3		ug/L		72	57 - 146	5	20
Ethanol			400	269		ug/L		67	53 - 150	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 620-52540/7
Matrix: Water
Analysis Batch: 52540

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0	U	1.0	0.20	ug/L			08/21/25 20:10	1
Acetone	10	U	10	0.90	ug/L			08/21/25 20:10	1
Acrylonitrile	1.0	U	1.0	0.36	ug/L			08/21/25 20:10	1
Benzene	1.0	U	1.0	0.25	ug/L			08/21/25 20:10	1
Bromobenzene	1.0	U	1.0	0.40	ug/L			08/21/25 20:10	1
Bromochloromethane	1.0	U	1.0	0.39	ug/L			08/21/25 20:10	1
Bromodichloromethane	0.50	U	0.50	0.33	ug/L			08/21/25 20:10	1
Bromoform	1.0	U	1.0	0.45	ug/L			08/21/25 20:10	1
Bromomethane	2.0	U	2.0	0.63	ug/L			08/21/25 20:10	1
2-Butanone (MEK)	2.0	U	2.0	0.58	ug/L			08/21/25 20:10	1
n-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/21/25 20:10	1
sec-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/21/25 20:10	1
tert-Butylbenzene	1.0	U	1.0	0.40	ug/L			08/21/25 20:10	1
Carbon disulfide	2.0	U	2.0	0.44	ug/L			08/21/25 20:10	1
Carbon tetrachloride	1.0	U	1.0	0.25	ug/L			08/21/25 20:10	1
Chlorobenzene	1.0	U	1.0	0.42	ug/L			08/21/25 20:10	1
Chloroethane	2.0	U	2.0	0.41	ug/L			08/21/25 20:10	1
Chloroform	1.0	U	1.0	0.30	ug/L			08/21/25 20:10	1
Chloromethane	2.0	U	2.0	0.49	ug/L			08/21/25 20:10	1
2-Chlorotoluene	1.0	U	1.0	0.43	ug/L			08/21/25 20:10	1
4-Chlorotoluene	1.0	U	1.0	0.42	ug/L			08/21/25 20:10	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.51	ug/L			08/21/25 20:10	1

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

Lab Sample ID: MB 620-52540/7
Matrix: Water
Analysis Batch: 52540

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	0.50	U	0.50	0.33	ug/L			08/21/25 20:10	1
1,2-Dibromoethane (EDB)	0.50	U	0.50	0.34	ug/L			08/21/25 20:10	1
Dibromomethane	1.0	U	1.0	0.36	ug/L			08/21/25 20:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.48	ug/L			08/21/25 20:10	1
1,3-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			08/21/25 20:10	1
1,4-Dichlorobenzene	1.0	U	1.0	0.49	ug/L			08/21/25 20:10	1
Dichlorodifluoromethane (Freon 12)	2.0	U	2.0	0.29	ug/L			08/21/25 20:10	1
1,1-Dichloroethane	1.0	U	1.0	0.36	ug/L			08/21/25 20:10	1
1,2-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/21/25 20:10	1
1,1-Dichloroethene	1.0	U	1.0	0.34	ug/L			08/21/25 20:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			08/21/25 20:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/21/25 20:10	1
1,2-Dichloropropane	1.0	U	1.0	0.36	ug/L			08/21/25 20:10	1
1,3-Dichloropropane	1.0	U	1.0	0.32	ug/L			08/21/25 20:10	1
2,2-Dichloropropane	1.0	U	1.0	0.49	ug/L			08/21/25 20:10	1
1,1-Dichloropropene	1.0	U	1.0	0.29	ug/L			08/21/25 20:10	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.30	ug/L			08/21/25 20:10	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.37	ug/L			08/21/25 20:10	1
Ethylbenzene	1.0	U	1.0	0.36	ug/L			08/21/25 20:10	1
Hexachlorobutadiene	1.0	U	1.0	0.24	ug/L			08/21/25 20:10	1
2-Hexanone (MBK)	2.0	U	2.0	0.69	ug/L			08/21/25 20:10	1
Isopropylbenzene	1.0	U	1.0	0.38	ug/L			08/21/25 20:10	1
4-Isopropyltoluene	1.0	U	1.0	0.43	ug/L			08/21/25 20:10	1
Methyl tert-butyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 20:10	1
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0	0.35	ug/L			08/21/25 20:10	1
Methylene Chloride	2.0	U	2.0	0.54	ug/L			08/21/25 20:10	1
Naphthalene	2.0	U	2.0	0.70	ug/L			08/21/25 20:10	1
N-Propylbenzene	1.0	U	1.0	0.36	ug/L			08/21/25 20:10	1
Styrene	1.0	U	1.0	0.42	ug/L			08/21/25 20:10	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/21/25 20:10	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.46	ug/L			08/21/25 20:10	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/21/25 20:10	1
Toluene	1.0	U	1.0	0.28	ug/L			08/21/25 20:10	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.74	ug/L			08/21/25 20:10	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.70	ug/L			08/21/25 20:10	1
1,3,5-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			08/21/25 20:10	1
1,1,1-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/21/25 20:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			08/21/25 20:10	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/21/25 20:10	1
Trichlorofluoromethane (Freon 11)	1.0	U	1.0	0.23	ug/L			08/21/25 20:10	1
1,2,3-Trichloropropane	1.0	U	1.0	0.51	ug/L			08/21/25 20:10	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.46	ug/L			08/21/25 20:10	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.45	ug/L			08/21/25 20:10	1
Vinyl chloride	1.0	U	1.0	0.26	ug/L			08/21/25 20:10	1
m,p-Xylene	1.0	U	1.0	0.78	ug/L			08/21/25 20:10	1
o-Xylene	1.0	U	1.0	0.43	ug/L			08/21/25 20:10	1
Tetrahydrofuran	2.0	U	2.0	0.70	ug/L			08/21/25 20:10	1
Ethyl ether	1.0	U	1.0	0.42	ug/L			08/21/25 20:10	1
Tert-amyl methyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 20:10	1

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

Lab Sample ID: MB 620-52540/7
Matrix: Water
Analysis Batch: 52540

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	1.0	U	1.0	0.29	ug/L			08/21/25 20:10	1
di-Isopropyl ether	1.0	U	1.0	0.26	ug/L			08/21/25 20:10	1
tert-Butanol	10	U	10	8.5	ug/L			08/21/25 20:10	1
trans-1,4-Dichloro-2-butene	5.0	U	5.0	0.81	ug/L			08/21/25 20:10	1
Ethanol	200	U	200	9.1	ug/L			08/21/25 20:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/21/25 20:10*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/21/25 20:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*08/21/25 20:10*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*08/21/25 20:10*	*1*

Lab Sample ID: LCS 620-52540/4
Matrix: Water
Analysis Batch: 52540

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-Trichlorotrifluoroethane (Freon 113)	20.0	24.5	*	ug/L		122	72 - 120
Acetone	20.0	17.7		ug/L		88	19 - 144
Acrylonitrile	20.0	17.8		ug/L		89	67 - 141
Benzene	20.0	20.1		ug/L		101	82 - 120
Bromobenzene	20.0	22.1		ug/L		111	80 - 115
Bromochloromethane	20.0	21.6		ug/L		108	84 - 119
Bromodichloromethane	20.0	19.9		ug/L		100	77 - 118
Bromoform	20.0	23.2		ug/L		116	68 - 130
Bromomethane	20.0	22.6		ug/L		113	27 - 151
2-Butanone (MEK)	20.0	14.9		ug/L		75	32 - 126
n-Butylbenzene	20.0	19.8		ug/L		99	81 - 129
sec-Butylbenzene	20.0	23.6		ug/L		118	81 - 124
tert-Butylbenzene	20.0	23.8		ug/L		119	80 - 128
Carbon disulfide	20.0	19.5		ug/L		98	67 - 136
Carbon tetrachloride	20.0	23.4		ug/L		117	70 - 129
Chlorobenzene	20.0	20.9		ug/L		104	82 - 112
Chloroethane	20.0	29.1	*	ug/L		145	47 - 142
Chloroform	20.0	21.6		ug/L		108	77 - 126
Chloromethane	20.0	16.6		ug/L		83	26 - 159
2-Chlorotoluene	20.0	22.6		ug/L		113	82 - 122
4-Chlorotoluene	20.0	22.1		ug/L		110	79 - 123
1,2-Dibromo-3-Chloropropane	20.0	19.8		ug/L		99	64 - 117
Dibromochloromethane	20.0	20.4		ug/L		102	71 - 126
1,2-Dibromoethane (EDB)	20.0	22.4		ug/L		112	83 - 122
Dibromomethane	20.0	21.4		ug/L		107	83 - 117
1,2-Dichlorobenzene	20.0	21.1		ug/L		106	87 - 118
1,3-Dichlorobenzene	20.0	22.3		ug/L		112	83 - 122
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	81 - 115
Dichlorodifluoromethane (Freon 12)	20.0	20.4		ug/L		102	21 - 147
1,1-Dichloroethane	20.0	20.7		ug/L		103	84 - 122

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

Lab Sample ID: LCS 620-52540/4
Matrix: Water
Analysis Batch: 52540

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	20.0	19.3		ug/L		96	69 - 121
1,1-Dichloroethene	20.0	21.6		ug/L		108	83 - 123
cis-1,2-Dichloroethene	20.0	22.0		ug/L		110	85 - 122
trans-1,2-Dichloroethene	20.0	22.1		ug/L		110	84 - 123
1,2-Dichloropropane	20.0	20.5		ug/L		102	80 - 124
1,3-Dichloropropane	20.0	21.3		ug/L		106	80 - 118
2,2-Dichloropropane	20.0	24.3		ug/L		122	74 - 125
1,1-Dichloropropene	20.0	22.9		ug/L		114	76 - 120
cis-1,3-Dichloropropene	20.0	19.5		ug/L		98	76 - 125
trans-1,3-Dichloropropene	20.0	23.2		ug/L		116	77 - 132
Ethylbenzene	20.0	20.9		ug/L		104	85 - 116
Hexachlorobutadiene	20.0	23.8		ug/L		119	70 - 127
2-Hexanone (MBK)	20.0	17.0		ug/L		85	40 - 130
Isopropylbenzene	20.0	22.5		ug/L		112	78 - 122
4-Isopropyltoluene	20.0	18.9		ug/L		94	80 - 121
Methyl tert-butyl ether	20.0	24.5		ug/L		122	72 - 126
4-Methyl-2-pentanone (MIBK)	20.0	15.5		ug/L		78	59 - 130
Methylene Chloride	20.0	22.0		ug/L		110	77 - 124
Naphthalene	20.0	18.2		ug/L		91	57 - 133
N-Propylbenzene	20.0	22.3		ug/L		111	86 - 124
Styrene	20.0	20.4		ug/L		102	80 - 121
1,1,1,2-Tetrachloroethane	20.0	22.3		ug/L		111	81 - 113
1,1,2,2-Tetrachloroethane	20.0	19.8		ug/L		99	74 - 115
Tetrachloroethene	20.0	22.8		ug/L		114	78 - 124
Toluene	20.0	20.2		ug/L		101	83 - 114
1,2,3-Trichlorobenzene	20.0	21.9		ug/L		110	73 - 128
1,2,4-Trichlorobenzene	20.0	20.3		ug/L		102	74 - 128
1,3,5-Trichlorobenzene	20.0	22.9		ug/L		115	81 - 124
1,1,1-Trichloroethane	20.0	23.3		ug/L		117	76 - 124
1,1,2-Trichloroethane	20.0	21.6		ug/L		108	83 - 120
Trichloroethene	20.0	19.8		ug/L		99	79 - 113
Trichlorofluoromethane (Freon 11)	20.0	26.3	*	ug/L		132	68 - 130
1,2,3-Trichloropropane	20.0	20.5		ug/L		103	74 - 116
1,2,4-Trimethylbenzene	20.0	21.3		ug/L		107	83 - 121
1,3,5-Trimethylbenzene	20.0	22.5		ug/L		112	82 - 125
Vinyl chloride	20.0	20.5		ug/L		102	49 - 145
m,p-Xylene	40.0	45.5		ug/L		114	82 - 128
o-Xylene	20.0	21.8		ug/L		109	83 - 122
Tetrahydrofuran	20.0	15.6		ug/L		78	59 - 134
Ethyl ether	20.0	19.4		ug/L		97	74 - 119
Tert-amyl methyl ether	20.0	24.5		ug/L		122	70 - 122
Ethyl tert-butyl ether	20.0	20.7		ug/L		104	72 - 122
di-Isopropyl ether	20.0	17.0		ug/L		85	66 - 130
tert-Butanol	200	231		ug/L		115	60 - 146
trans-1,4-Dichloro-2-butene	20.0	19.5		ug/L		97	57 - 146
Ethanol	400	303		ug/L		76	53 - 150

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

Lab Sample ID: LCS 620-52540/4
Matrix: Water
Analysis Batch: 52540

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 620-52540/5
Matrix: Water
Analysis Batch: 52540

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
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	20.8		ug/L		104	72 - 120	16	20
Acetone			20.0	18.4		ug/L		92	19 - 144	4	20
Acrylonitrile			20.0	16.1		ug/L		80	67 - 141	10	20
Benzene			20.0	17.9		ug/L		89	82 - 120	12	20
Bromobenzene			20.0	19.3		ug/L		97	80 - 115	14	20
Bromochloromethane			20.0	18.8		ug/L		94	84 - 119	14	20
Bromodichloromethane			20.0	17.4		ug/L		87	77 - 118	13	20
Bromoform			20.0	20.9		ug/L		105	68 - 130	10	20
Bromomethane			20.0	20.3		ug/L		102	27 - 151	11	20
2-Butanone (MEK)			20.0	14.5		ug/L		73	32 - 126	3	20
n-Butylbenzene			20.0	17.6		ug/L		88	81 - 129	12	20
sec-Butylbenzene			20.0	20.5		ug/L		102	81 - 124	14	20
tert-Butylbenzene			20.0	20.9		ug/L		105	80 - 128	13	20
Carbon disulfide			20.0	16.8		ug/L		84	67 - 136	15	20
Carbon tetrachloride			20.0	20.5		ug/L		102	70 - 129	13	20
Chlorobenzene			20.0	18.8		ug/L		94	82 - 112	11	20
Chloroethane			20.0	23.5	*	ug/L		117	47 - 142	21	20
Chloroform			20.0	19.1		ug/L		96	77 - 126	12	20
Chloromethane			20.0	14.6		ug/L		73	26 - 159	13	20
2-Chlorotoluene			20.0	20.3		ug/L		101	82 - 122	11	20
4-Chlorotoluene			20.0	19.7		ug/L		99	79 - 123	11	20
1,2-Dibromo-3-Chloropropane			20.0	18.4		ug/L		92	64 - 117	8	20
Dibromochloromethane			20.0	17.9		ug/L		89	71 - 126	13	20
1,2-Dibromoethane (EDB)			20.0	19.9		ug/L		99	83 - 122	12	20
Dibromomethane			20.0	19.3		ug/L		96	83 - 117	10	20
1,2-Dichlorobenzene			20.0	18.8		ug/L		94	87 - 118	12	20
1,3-Dichlorobenzene			20.0	20.1		ug/L		100	83 - 122	10	20
1,4-Dichlorobenzene			20.0	17.4		ug/L		87	81 - 115	10	20
Dichlorodifluoromethane (Freon 12)			20.0	17.2		ug/L		86	21 - 147	17	20
1,1-Dichloroethane			20.0	18.2		ug/L		91	84 - 122	13	20
1,2-Dichloroethane			20.0	17.1		ug/L		85	69 - 121	12	20
1,1-Dichloroethene			20.0	18.6		ug/L		93	83 - 123	15	20
cis-1,2-Dichloroethene			20.0	19.2		ug/L		96	85 - 122	14	20
trans-1,2-Dichloroethene			20.0	19.1		ug/L		96	84 - 123	14	20
1,2-Dichloropropane			20.0	18.1		ug/L		90	80 - 124	13	20
1,3-Dichloropropane			20.0	18.8		ug/L		94	80 - 118	12	20
2,2-Dichloropropane			20.0	21.4		ug/L		107	74 - 125	13	20

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

Lab Sample ID: LCSD 620-52540/5
Matrix: Water
Analysis Batch: 52540

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
1,1-Dichloropropene			20.0	19.9		ug/L		100	76 - 120	14	20
cis-1,3-Dichloropropene			20.0	17.3		ug/L		86	76 - 125	12	20
trans-1,3-Dichloropropene			20.0	20.4		ug/L		102	77 - 132	13	20
Ethylbenzene			20.0	18.7		ug/L		93	85 - 116	11	20
Hexachlorobutadiene			20.0	20.6		ug/L		103	70 - 127	14	20
2-Hexanone (MBK)			20.0	15.6		ug/L		78	40 - 130	8	20
Isopropylbenzene			20.0	19.9		ug/L		99	78 - 122	12	20
4-Isopropyltoluene			20.0	17.2		ug/L		86	80 - 121	9	20
Methyl tert-butyl ether			20.0	21.6		ug/L		108	72 - 126	12	20
4-Methyl-2-pentanone (MIBK)			20.0	14.7		ug/L		73	59 - 130	6	20
Methylene Chloride			20.0	19.4		ug/L		97	77 - 124	13	20
Naphthalene			20.0	16.5		ug/L		83	57 - 133	10	20
N-Propylbenzene			20.0	19.9		ug/L		99	86 - 124	11	20
Styrene			20.0	18.2		ug/L		91	80 - 121	11	20
1,1,1,2-Tetrachloroethane			20.0	20.2		ug/L		101	81 - 113	10	20
1,1,2,2-Tetrachloroethane			20.0	18.0		ug/L		90	74 - 115	10	20
Tetrachloroethene			20.0	20.1		ug/L		100	78 - 124	13	20
Toluene			20.0	18.1		ug/L		91	83 - 114	11	20
1,2,3-Trichlorobenzene			20.0	19.1		ug/L		95	73 - 128	14	20
1,2,4-Trichlorobenzene			20.0	17.9		ug/L		90	74 - 128	13	20
1,3,5-Trichlorobenzene			20.0	20.4		ug/L		102	81 - 124	11	20
1,1,1-Trichloroethane			20.0	20.5		ug/L		103	76 - 124	13	20
1,1,2-Trichloroethane			20.0	19.2		ug/L		96	83 - 120	12	20
Trichloroethene			20.0	17.4		ug/L		87	79 - 113	13	20
Trichlorofluoromethane (Freon 11)			20.0	22.8		ug/L		114	68 - 130	14	20
1,2,3-Trichloropropane			20.0	18.7		ug/L		93	74 - 116	10	20
1,2,4-Trimethylbenzene			20.0	18.9		ug/L		94	83 - 121	12	20
1,3,5-Trimethylbenzene			20.0	19.7		ug/L		99	82 - 125	13	20
Vinyl chloride			20.0	17.4		ug/L		87	49 - 145	16	20
m,p-Xylene			40.0	40.6		ug/L		102	82 - 128	11	20
o-Xylene			20.0	19.5		ug/L		98	83 - 122	11	20
Tetrahydrofuran			20.0	14.9		ug/L		75	59 - 134	5	20
Ethyl ether			20.0	16.9		ug/L		84	74 - 119	14	20
Tert-amyl methyl ether			20.0	21.8		ug/L		109	70 - 122	12	20
Ethyl tert-butyl ether			20.0	18.3		ug/L		91	72 - 122	12	20
di-Isopropyl ether			20.0	15.2		ug/L		76	66 - 130	12	20
tert-Butanol			200	210		ug/L		105	60 - 146	9	20
trans-1,4-Dichloro-2-butene			20.0	17.4		ug/L		87	57 - 146	11	20
Ethanol			400	301		ug/L		75	53 - 150	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

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

Lab Sample ID: MB 620-52299/1-A
Matrix: Water
Analysis Batch: 52418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.19	ug/L		08/18/25 18:42	08/20/25 11:03	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*14*		*10 - 150*	*08/18/25 18:42*	*08/20/25 11:03*	*1*

Lab Sample ID: LCS 620-52299/2-A
Matrix: Water
Analysis Batch: 52418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52299

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			4.00	5.57		ug/L		139	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*12*		*10 - 150*

Lab Sample ID: LCSD 620-52299/3-A
Matrix: Water
Analysis Batch: 52418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 52299

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			4.00	4.98		ug/L		125	40 - 140	11	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8	*12*		*10 - 150*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 410-686094/5
Matrix: Water
Analysis Batch: 686094

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.11	U	0.11	0.050	mg/L			08/15/25 10:02	1

Lab Sample ID: LCS 410-686094/3
Matrix: Water
Analysis Batch: 686094

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.750	0.722		mg/L		96	90 - 110		

Lab Sample ID: LCSD 410-686094/4
Matrix: Water
Analysis Batch: 686094

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
Nitrate as N			0.750	0.723		mg/L		96	90 - 110	0	20

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 620-28577-6 MS
Matrix: Water
Analysis Batch: 686094

Client Sample ID: MW-102IR/250813
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.26		0.500	2.768		mg/L		102	90 - 110

Lab Sample ID: 620-28577-6 DU
Matrix: Water
Analysis Batch: 686094

Client Sample ID: MW-102IR/250813
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	2.26		2.251		mg/L		0.3	15

Lab Sample ID: MB 410-686095/5
Matrix: Water
Analysis Batch: 686095

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.50	U	1.50	0.60	mg/L			08/15/25 10:02	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/15/25 10:02	1

Lab Sample ID: LCS 410-686095/3
Matrix: Water
Analysis Batch: 686095

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	2.976		mg/L		99	90 - 110
Sulfate	7.50	7.438		mg/L		99	90 - 110

Lab Sample ID: LCSD 410-686095/4
Matrix: Water
Analysis Batch: 686095

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
Chloride	3.00	2.973		mg/L		99	90 - 110	0	20
Sulfate	7.50	7.309		mg/L		97	90 - 110	2	20

Lab Sample ID: 620-28577-6 MS
Matrix: Water
Analysis Batch: 686095

Client Sample ID: MW-102IR/250813
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	9.59		2.00	11.73		mg/L		107	90 - 110
Sulfate	25.0		5.00	29.34	*	mg/L		87	90 - 110

Lab Sample ID: 620-28577-6 DU
Matrix: Water
Analysis Batch: 686095

Client Sample ID: MW-102IR/250813
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	9.59		9.555		mg/L		0.4	15
Sulfate	25.0		24.94		mg/L		0.2	15

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 410-686927/5
Matrix: Water
Analysis Batch: 686927

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.50	U	1.50	0.60	mg/L			08/15/25 18:04	1
Sulfate	1.50	U	1.50	0.50	mg/L			08/15/25 18:04	1

Lab Sample ID: LCS 410-686927/3
Matrix: Water
Analysis Batch: 686927

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	2.940		mg/L		98	90 - 110
Sulfate	7.50	7.262		mg/L		97	90 - 110

Lab Sample ID: LCSD 410-686927/4
Matrix: Water
Analysis Batch: 686927

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
Chloride	3.00	2.942		mg/L		98	90 - 110	0	20
Sulfate	7.50	7.229		mg/L		96	90 - 110	0	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 620-52116/1-A
Matrix: Water
Analysis Batch: 52265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.50	U	0.50	0.19	mg/L		08/14/25 15:34	08/15/25 11:37	1
Magnesium	0.040	U	0.040	0.038	mg/L		08/14/25 15:34	08/15/25 11:37	1
Potassium	1.0	U	1.0	0.34	mg/L		08/14/25 15:34	08/15/25 11:37	1
Sodium	1.5	U	1.5	0.28	mg/L		08/14/25 15:34	08/15/25 11:37	1

Lab Sample ID: LCS 620-52116/2-A
Matrix: Water
Analysis Batch: 52265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	4.50	4.25		mg/L		94	80 - 120
Iron	1.50	1.35		mg/L		90	80 - 120
Magnesium	1.50	1.44		mg/L		96	80 - 120
Potassium	15.0	13.80		mg/L		92	80 - 120
Sodium	4.50	4.19		mg/L		93	80 - 120

Lab Sample ID: MB 620-52104/1-B
Matrix: Water
Analysis Batch: 52265

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 52116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.010	U	0.010	0.0056	mg/L		08/14/25 15:34	08/15/25 13:18	0.1

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-688227/113
Matrix: Water
Analysis Batch: 688227

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	8.0	U	8.0	2.6	mg/L			08/20/25 04:58	1

Lab Sample ID: LCS 410-688227/114
Matrix: Water
Analysis Batch: 688227

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			189	176.2		mg/L		93	80 - 110		

Lab Sample ID: LCSD 410-688227/115
Matrix: Water
Analysis Batch: 688227

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
Total Alkalinity			189	177.6		mg/L		94	80 - 110	1	10

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 410-688232/7
Matrix: Water
Analysis Batch: 688232

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.50	mg/L			08/19/25 21:37	1

Lab Sample ID: LCS 410-688232/6
Matrix: Water
Analysis Batch: 688232

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			50.0	47.15		mg/L		94	90 - 110		

Lab Sample ID: MRL 410-688232/1
Matrix: Water
Analysis Batch: 688232

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			1.00	0.939	J	mg/L		94	50 - 150		

GC/MS VOA

Analysis Batch: 52249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-1	MW-17/250811	Total/NA	Water	8260C	
620-28577-3	MW-18/250813	Total/NA	Water	8260C	
620-28577-4	MW-103I/250813	Total/NA	Water	8260C	
620-28577-5	MW-102B/250813	Total/NA	Water	8260C	
620-28577-7	FB/250813	Total/NA	Water	8260C	
620-28577-8	TB/250813	Total/NA	Water	8260C	
MB 620-52249/7	Method Blank	Total/NA	Water	8260C	
LCS 620-52249/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-52249/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 52339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4 - DL	MW-103I/250813	Total/NA	Water	8260C	
620-28577-5 - DL	MW-102B/250813	Total/NA	Water	8260C	
620-28577-6 - DL	MW-102IR/250813	Total/NA	Water	8260C	
MB 620-52339/7	Method Blank	Total/NA	Water	8260C	
LCS 620-52339/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-52339/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 52457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-2	MW-19/250813	Total/NA	Water	8260C	
620-28577-6	MW-102IR/250813	Total/NA	Water	8260C	
MB 620-52457/7	Method Blank	Total/NA	Water	8260C	
LCS 620-52457/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-52457/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 52540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-1 - DL	MW-17/250811	Total/NA	Water	8260C	
620-28577-3 - DL	MW-18/250813	Total/NA	Water	8260C	
MB 620-52540/7	Method Blank	Total/NA	Water	8260C	
LCS 620-52540/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-52540/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 52299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Total/NA	Water	3510C	
620-28577-5	MW-102B/250813	Total/NA	Water	3510C	
620-28577-6	MW-102IR/250813	Total/NA	Water	3510C	
620-28577-7	FB/250813	Total/NA	Water	3510C	
MB 620-52299/1-A	Method Blank	Total/NA	Water	3510C	
LCS 620-52299/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 620-52299/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 52418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Total/NA	Water	8270D SIM ID	52299
620-28577-5	MW-102B/250813	Total/NA	Water	8270D SIM ID	52299

GC/MS Semi VOA (Continued)

Analysis Batch: 52418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-6	MW-102IR/250813	Total/NA	Water	8270D SIM ID	52299
620-28577-7	FB/250813	Total/NA	Water	8270D SIM ID	52299
MB 620-52299/1-A	Method Blank	Total/NA	Water	8270D SIM ID	52299
LCS 620-52299/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	52299
LCSD 620-52299/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM ID	52299

HPLC/IC

Analysis Batch: 686094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Total/NA	Water	9056A	
620-28577-5	MW-102B/250813	Total/NA	Water	9056A	
620-28577-6	MW-102IR/250813	Total/NA	Water	9056A	
620-28577-7	FB/250813	Total/NA	Water	9056A	
MB 410-686094/5	Method Blank	Total/NA	Water	9056A	
LCS 410-686094/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 410-686094/4	Lab Control Sample Dup	Total/NA	Water	9056A	
620-28577-6 MS	MW-102IR/250813	Total/NA	Water	9056A	
620-28577-6 DU	MW-102IR/250813	Total/NA	Water	9056A	

Analysis Batch: 686095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Total/NA	Water	9056A	
620-28577-5	MW-102B/250813	Total/NA	Water	9056A	
620-28577-6	MW-102IR/250813	Total/NA	Water	9056A	
620-28577-7	FB/250813	Total/NA	Water	9056A	
MB 410-686095/5	Method Blank	Total/NA	Water	9056A	
LCS 410-686095/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 410-686095/4	Lab Control Sample Dup	Total/NA	Water	9056A	
620-28577-6 MS	MW-102IR/250813	Total/NA	Water	9056A	
620-28577-6 DU	MW-102IR/250813	Total/NA	Water	9056A	

Analysis Batch: 686927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-5	MW-102B/250813	Total/NA	Water	9056A	
MB 410-686927/5	Method Blank	Total/NA	Water	9056A	
LCS 410-686927/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 410-686927/4	Lab Control Sample Dup	Total/NA	Water	9056A	

Metals

Filtration Batch: 52104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Dissolved	Water	Filtration	
620-28577-5	MW-102B/250813	Dissolved	Water	Filtration	
620-28577-6	MW-102IR/250813	Dissolved	Water	Filtration	
620-28577-7	FB/250813	Dissolved	Water	Filtration	
MB 620-52104/1-B	Method Blank	Dissolved	Water	Filtration	

Prep Batch: 52116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Dissolved	Water	3005A	52104

Metals (Continued)

Prep Batch: 52116 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Total/NA	Water	3005A	
620-28577-5	MW-102B/250813	Dissolved	Water	3005A	52104
620-28577-5	MW-102B/250813	Total/NA	Water	3005A	
620-28577-6	MW-102IR/250813	Dissolved	Water	3005A	52104
620-28577-6	MW-102IR/250813	Total/NA	Water	3005A	
620-28577-7	FB/250813	Dissolved	Water	3005A	52104
620-28577-7	FB/250813	Total/NA	Water	3005A	
MB 620-52104/1-B	Method Blank	Dissolved	Water	3005A	52104
MB 620-52116/1-A	Method Blank	Total/NA	Water	3005A	
LCS 620-52116/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 52265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Dissolved	Water	6010D	52116
620-28577-4	MW-103I/250813	Total/NA	Water	6010D	52116
620-28577-5	MW-102B/250813	Dissolved	Water	6010D	52116
620-28577-5	MW-102B/250813	Total/NA	Water	6010D	52116
620-28577-6	MW-102IR/250813	Dissolved	Water	6010D	52116
620-28577-6	MW-102IR/250813	Total/NA	Water	6010D	52116
620-28577-7	FB/250813	Dissolved	Water	6010D	52116
620-28577-7	FB/250813	Total/NA	Water	6010D	52116
MB 620-52104/1-B	Method Blank	Dissolved	Water	6010D	52116
MB 620-52116/1-A	Method Blank	Total/NA	Water	6010D	52116
LCS 620-52116/2-A	Lab Control Sample	Total/NA	Water	6010D	52116

General Chemistry

Analysis Batch: 688227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Total/NA	Water	2320B-2011	
620-28577-5	MW-102B/250813	Total/NA	Water	2320B-2011	
620-28577-6	MW-102IR/250813	Total/NA	Water	2320B-2011	
620-28577-7	FB/250813	Total/NA	Water	2320B-2011	
MB 410-688227/113	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-688227/114	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 410-688227/115	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 688232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Total/NA	Water	5310 C-2014	
620-28577-6	MW-102IR/250813	Total/NA	Water	5310 C-2014	
620-28577-7	FB/250813	Total/NA	Water	5310 C-2014	
MB 410-688232/7	Method Blank	Total/NA	Water	5310 C-2014	
LCS 410-688232/6	Lab Control Sample	Total/NA	Water	5310 C-2014	
MRL 410-688232/1	Lab Control Sample	Total/NA	Water	5310 C-2014	

Analysis Batch: 688387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-28577-4	MW-103I/250813	Total/NA	Water	5310 C-2014	
620-28577-6	MW-102IR/250813	Total/NA	Water	5310 C-2014	
620-28577-7	FB/250813	Total/NA	Water	5310 C-2014	

Client Sample ID: MW-17/250811

Lab Sample ID: 620-28577-1

Date Collected: 08/11/25 15:50

Matrix: Water

Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52249	CLR	EET RI	08/18/25 15:06
Total/NA	Analysis	8260C	DL	10	52540	CLR	EET RI	08/21/25 22:23

Client Sample ID: MW-19/250813

Lab Sample ID: 620-28577-2

Date Collected: 08/13/25 10:35

Matrix: Water

Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52457	CLR	EET RI	08/21/25 01:15

Client Sample ID: MW-18/250813

Lab Sample ID: 620-28577-3

Date Collected: 08/13/25 11:40

Matrix: Water

Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52249	CLR	EET RI	08/18/25 15:52
Total/NA	Analysis	8260C	DL	50	52540	CLR	EET RI	08/21/25 22:50

Client Sample ID: MW-103I/250813

Lab Sample ID: 620-28577-4

Date Collected: 08/13/25 12:35

Matrix: Water

Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52249	CLR	EET RI	08/18/25 16:15
Total/NA	Analysis	8260C	DL	10	52339	CLR	EET RI	08/19/25 16:45
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 15:09
Total/NA	Analysis	9056A		1	686094	KJQ8	ELLE	08/15/25 10:10
Total/NA	Analysis	9056A		1	686095	KJQ8	ELLE	08/15/25 10:10
Dissolved	Filtration	Filtration			52104	JPC	EET RI	08/14/25 11:20
Dissolved	Prep	3005A			52116	SRC	EET RI	08/14/25 15:34
Dissolved	Analysis	6010D		1	52265	JPC	EET RI	08/15/25 13:24
Total/NA	Prep	3005A			52116	SRC	EET RI	08/14/25 15:34
Total/NA	Analysis	6010D		1	52265	JPC	EET RI	08/15/25 12:42
Total/NA	Analysis	2320B-2011		1	688227	DI9Q	ELLE	08/20/25 06:44
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/20/25 05:35
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/20/25 05:35

Client Sample ID: MW-102B/250813

Lab Sample ID: 620-28577-5

Date Collected: 08/13/25 15:10

Matrix: Water

Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52249	CLR	EET RI	08/18/25 16:37

Client Sample ID: MW-102B/250813

Lab Sample ID: 620-28577-5

Date Collected: 08/13/25 15:10

Matrix: Water

Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C	DL	10	52339	CLR	EET RI	08/19/25 17:08
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		10	52418	JS	EET RI	08/20/25 16:36
Total/NA	Analysis	9056A		1	686094	KJQ8	ELLE	08/15/25 10:26
Total/NA	Analysis	9056A		1	686095	KJQ8	ELLE	08/15/25 10:26
Total/NA	Analysis	9056A		5	686927	KJQ8	ELLE	08/15/25 22:53
Dissolved	Filtration	Filtration			52104	JPC	EET RI	08/14/25 11:20
Dissolved	Prep	3005A			52116	SRC	EET RI	08/14/25 15:34
Dissolved	Analysis	6010D		1	52265	JPC	EET RI	08/15/25 13:30
Total/NA	Prep	3005A			52116	SRC	EET RI	08/14/25 15:34
Total/NA	Analysis	6010D		1	52265	JPC	EET RI	08/15/25 12:48
Total/NA	Analysis	2320B-2011		1	688227	DI9Q	ELLE	08/20/25 06:51

Client Sample ID: MW-102IR/250813

Lab Sample ID: 620-28577-6

Date Collected: 08/13/25 15:30

Matrix: Water

Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C	DL	10	52339	CLR	EET RI	08/19/25 17:31
Total/NA	Analysis	8260C		1	52457	CLR	EET RI	08/21/25 01:42
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 16:02
Total/NA	Analysis	9056A		1	686094	KJQ8	ELLE	08/15/25 10:34
Total/NA	Analysis	9056A		1	686095	KJQ8	ELLE	08/15/25 10:34
Dissolved	Filtration	Filtration			52104	JPC	EET RI	08/14/25 11:20
Dissolved	Prep	3005A			52116	SRC	EET RI	08/14/25 15:34
Dissolved	Analysis	6010D		1	52265	JPC	EET RI	08/15/25 13:36
Total/NA	Prep	3005A			52116	SRC	EET RI	08/14/25 15:34
Total/NA	Analysis	6010D		1	52265	JPC	EET RI	08/15/25 12:54
Total/NA	Analysis	2320B-2011		1	688227	DI9Q	ELLE	08/20/25 06:58
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/20/25 05:55
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/20/25 05:55

Client Sample ID: FB/250813

Lab Sample ID: 620-28577-7

Date Collected: 08/13/25 15:00

Matrix: Water

Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52249	CLR	EET RI	08/18/25 17:23
Total/NA	Prep	3510C			52299	AAH	EET RI	08/18/25 18:42
Total/NA	Analysis	8270D SIM ID		1	52418	JS	EET RI	08/20/25 16:19
Total/NA	Analysis	9056A		1	686094	KJQ8	ELLE	08/15/25 10:18
Total/NA	Analysis	9056A		1	686095	KJQ8	ELLE	08/15/25 10:18

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28577-1

Client Sample ID: FB/250813

Lab Sample ID: 620-28577-7

Date Collected: 08/13/25 15:00

Matrix: Water

Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Filtration	Filtration			52104	JPC	EET RI	08/14/25 11:20
Dissolved	Prep	3005A			52116	SRC	EET RI	08/14/25 15:34
Dissolved	Analysis	6010D		1	52265	JPC	EET RI	08/15/25 13:42
Total/NA	Prep	3005A			52116	SRC	EET RI	08/14/25 15:34
Total/NA	Analysis	6010D		1	52265	JPC	EET RI	08/15/25 13:00
Total/NA	Analysis	2320B-2011		1	688227	DI9Q	ELLE	08/20/25 07:15
Total/NA	Analysis	5310 C-2014		1	688232	P684	ELLE	08/20/25 06:14
Total/NA	Analysis	5310 C-2014		1	688387	P684	ELLE	08/20/25 06:14

Client Sample ID: TB/250813

Lab Sample ID: 620-28577-8

Date Collected: 08/13/25 00:00

Matrix: Water

Date Received: 08/14/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	52249	CLR	EET RI	08/18/25 12:25

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28577-1
Project/Site: ESCO Steel Treaters Project

Laboratory: Eurofins Rhode Island

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11393	03-31-26

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

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C		Water	1,2,3-Trichlorobenzene
8260C		Water	1,3,5-Trichlorobenzene
8260C		Water	4-Isopropyltoluene
8260C		Water	Chloromethane
8260C		Water	di-Isopropyl ether
8260C		Water	Ethyl tert-butyl ether
8260C		Water	Isopropylbenzene
8270D SIM ID	3510C	Water	1,4-Dioxane

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-26
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-26
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-26
Connecticut	State	PH-0746	06-30-27
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	07-01-26
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-26
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-26
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-26
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-26
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-31-26
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 620-28577-1
Project/Site: ESCO Steel Treaters Project

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET RI
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET RI
9056A	Anions, Ion Chromatography	SW846	ELLE
6010D	Metals (ICP)	SW846	EET RI
2320B-2011	Alkalinity, Total	SM	ELLE
5310 C-2014	Total Organic Carbon/Persulfate - Ultrav	SM	ELLE
3005A	Preparation, Total Metals	SW846	EET RI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET RI
5030C	Purge and Trap	SW846	EET RI
Filtration	Sample Filtration	None	EET RI

Protocol References:

None = None

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

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

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: ESCO Steel Treaters Project

Job ID: 620-28577-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
620-28577-1	MW-17/250811	Water	08/11/25 15:50	08/14/25 11:00	New York
620-28577-2	MW-19/250813	Water	08/13/25 10:35	08/14/25 11:00	New York
620-28577-3	MW-18/250813	Water	08/13/25 11:40	08/14/25 11:00	New York
620-28577-4	MW-103I/250813	Water	08/13/25 12:35	08/14/25 11:00	New York
620-28577-5	MW-102B/250813	Water	08/13/25 15:10	08/14/25 11:00	New York
620-28577-6	MW-102IR/250813	Water	08/13/25 15:30	08/14/25 11:00	New York
620-28577-7	FB/250813	Water	08/13/25 15:00	08/14/25 11:00	New York
620-28577-8	TB/250813	Water	08/13/25 00:00	08/14/25 11:00	New York

Eurofins Rhode Island
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018 Fax 413-506-3830

Chain of Custody Record

Albany 28577 #224

eurofins | Environment Testing

Client Information	Sampler: KW/JL/NM	Lab PM: Scott, Krishnan F	Carrier Tracking No(s):	COC No: 620-26652-4191 1
Client Contact: Mr Patrick Sommer & Kyle Walker	Phone:	E-Mail: Krishnan Scott@et.eurofinsus com	State of Origin:	Page: Page ~~1 of 5~~ 1 of 1
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: ~~100 Pearl Street, East Tower, Third Floor~~	Due Date Requested:			
City: ~~Hartford~~ 101 Carnegie Ctr Ste 200	TAT Requested (days): Std			
State, Zip: ~~CT, 06103~~ Princeton, NJ 08540	Compliance Project: Δ Yes Δ No			
Phone: jsanares@ramboll.com	PO #: 1690000663			
Email: psemmer@ramboll.com & kwalker@ramboll.com	WO #:			
Project Name: ESCO Steel Treaters Project	Project #: 62002339			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
N - None
D - HNO3
AA - PhosphorAc

Other:

Samples to be shipped to Eurofins Rhode Island

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Volatile Organic Compounds (GC/MS)	2320B - Total Alkalinity	9056A_ORGFM_28D, 9056A_ORGFM_48H	8270D_SIM_MS_ID - 1,4-Dioxane	6010D - Dissolved Iron (ICP-Trace) - Lab Filter	6010D - Total Ca, Mg, Na and K (ICP-Trace)	SM5310_TC_TIC - Total Inorganic Carbon (TIC)	5310C - Total Organic Carbon						Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N	N	D	N	AA							
1 MW-17/250811	8/11/25	1550	G	Water			X													3	
2 MW-19/250813	8/13/25	1035	G	Water			X													3	
3 MW-18/250813	8/13/25	1140	G	Water			X													3	
4 MW-103I/250813	8/13/25	1235	G	Water			X	X	X	X	X	X	X	X						13	
5 MW-102B/250813	8/13/25	1310	G	Water			X	X	X	X	X	X								9	
6 MW-102IR/250813	8/13/25	1530	G	Water			X	X	X	X	X	X	X	X						13	
7 FB/250513	8/13/25	1500	G	Water			X	X	X	X	X	X	X	X						13	
8 TB/250813	8/13/25	-	TB	Water			X													2	
				Water																	
				Water																	
				Water																	

620-28577 COC

SM 8/13/25

Page 67 of 133

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]	8/13/25 1653	Ramboll	[signature]	8/13/25 1653	EETN
2	[signature]	8/13/25 1700	EETN	Fedex		
3	Fedex			Nathan H.	8/14/25 400	ERI

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		1.8+0.2=2.0°C #6 iced

8/22/2025

Ver. 10/10/2024

ORIGIN ID:DSVA (518) 438-8140
TIM KNOLLMEYER
TESTAMERICA LAB INC
25 KRAFT AVE

ALBANY, NY 12205
UNITED STATES US

SHIP DATE: 13AUG25
ACTWGT: 53.45 LB
CAD: 0930656/CAFE3908
DIMS: 26x15x14 IN

BILL RECIPIENT

TO SAMPLE RECEIPT
EUROFINS ENV NEW ENGLAND
646 CAMP AVENUE

NORTH KINGSTOWN RI 02852
(413) 789-9016
REF: RAMBOLL ESCO STEEL TROY

SAMPLES

FedEx Express

J2510241111401nv

THU - 14 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 0201 4561 8694 5789

ED NCOA

02852
RI-US PVD

Part # 156148-434 MTW EXP 01/26

Eurofins Rhode Island
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018 Fax: 413-506-3830

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Scott, Krishnan F	Carrier Tracking No(s): N/A	COC No: 620-23501.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Krishnan.Scott@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New York		Job #: 620-28577-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 8/20/2025			Preservation Codes: -
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: ESCO Steel Treaters Project	Project #: 62002339			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	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)	SM5310_TC_TICTotal Inorganic Carbon (TIC)	5310CTotal Organic Carbon	9056A_ORGFM_48HNitrate (IC)	9056A_ORGFM_28DChloride and Sulfate (IC)	2320BTotal Alkalinity	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
MW-103I/250813 (620-28577-4)	8/13/25	12:35 Eastern	G	Water			X	X	X	X	X	3	
MW-102B/250813 (620-28577-5)	8/13/25	15:10 Eastern	G	Water					X	X	X	2	
MW-102IR/250813 (620-28577-6)	8/13/25	15:30 Eastern	G	Water			X	X	X	X	X	6	
FB/250813 (620-28577-7)	8/13/25	15:00 Eastern	G	Water			X	X	X	X	X	6	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification: Unconfirmed	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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Nathan H.	8/14/25 1546	ERI		8/14/25 2:30	ERI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/15/25 0030	ERI			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				8-15-25 0030	ELLE

Custody Seals Intact: ☐ Yes ☒ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: R: 1.0 C: 1.0

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 620-28577-1

Login Number: 28577
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins Rhode Island

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 620-28577-1

Login Number: 28577
List Number: 2
Creator: Hottle, Steffanie

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 08/15/25 02:12 AM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

APPENDIX G
DATA USABILITY SUMMARY REPORT – 13TH SAMPLING EVENT

September 21, 2025

DATA USABILITY SUMMARY REPORT (DUSR) FOR ANALYTICAL DATA FROM WATER SAMPLES COLLECTED AT THE FORMER STEEL TREATERS, INC. FACILITY IN TROY, NEW YORK

Ramboll Americas Engineering Solutions, Inc (Ramboll and formerly ENVIRON Engineers of North Carolina, PC or ENVIRON) has prepared this data validation report to assess the validity and usability of laboratory analytical data generated from groundwater and water-matrix samples collected between August 11 and August 13, 2025 at the Former Steel Treaters, Inc. Site in Troy, New York. The following samples were evaluated as part of this review:

Field Sample ID	Sample Type	Lab Sample ID	Matrix
SDG 620-28495-1			
MW-11/250811	FS	620-28495-1	Groundwater
MW-100B/250811	FS	620-28495-2	Groundwater
MW-100E/250811	FS	620-28495-3	Groundwater
FB/250811	FB	620-28495-4	Blank Water
TB/250811	TB	620-28495-5	Blank Water
SDG 620-28577-1			
MW-17/250811	FS	620-28577-1	Groundwater
MW-19/250813	FS	620-28577-2	Groundwater
MW-18/250813	FS	620-28577-3	Groundwater
MW-103I/250813	FS	620-28577-4	Groundwater
MW-102B/250813	FS	620-28577-5	Groundwater
MW-102IR/250813	FS	620-28577-6	Groundwater
FB/250813	FB	620-28577-7	Blank Water
TB/250813	TB	620-28577-8	Blank Water
SDG 620-28538-1			
MW-104I/250812	FS	620-28538-1	Groundwater
MW-104E/250812	FS	620-28538-2	Groundwater
MW101I/250812	FS	620-28538-3	Groundwater
MW-100I/250812	FS	620-28538-4	Groundwater
MW-103ER/250812	FS	620-28538-5	Groundwater
MW-103B/250812	FS	620-28538-6	Groundwater
MW-102ER/250812	FS	620-28538-7	Groundwater
DUP/250812	FD	620-28538-8	Groundwater
FB/250812	FB	620-28538-9	Blank Water
TB/250812	TB	620-28538-10	Blank Water

Notes:
FB = Field Blank
FD = Field Duplicate FS = Field Sample TB = Trip Blank
SDG = Sample Delivery Group

Samples were analyzed for one or more of the following parameters:

- Volatile Organic Compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C
- 1,4-Dioxane by USEPA Method 8270D with selective ion monitoring (SIM)
- Total metals (calcium, magnesium, potassium, sodium) by USEPA 6010D
- Dissolved iron by USEPA 6010D
- Anions (chloride, nitrate, sulfate) by USEPA 9056A
- Total alkalinity by Standard Method (SM) 2320B
- Total inorganic carbon (TIC) and total organic carbon (TOC) by SM5310C

Eurofins Rhode Island (Eurofins) located in North Kingstown, Rhode Island performed the analyses for VOCs, 1,4-dioxane, total metals, and dissolved iron. The analysis for anions, total alkalinity, TOC and TIC was performed by Eurofins Lancaster Laboratories Environment Testing located in Lancaster, Pennsylvania. Data results were reported by Eurofins in data packages 620-28495-1, 620-28577-1 and 620-28538-1. Eurofins deliverables included the elements required for a New York Department of Environmental Conservation (DEC) Analytical Services Protocol Category B Data Deliverable.

Ramboll's validation was based on procedures published in the National Functional Guidelines for Organic and Inorganic Data Review (USEPA 2020). The guidelines provide the criteria to review laboratory and field quality control information and apply the appropriate data qualifiers to the laboratory data. The Quality Control (QC) information checked by Ramboll included case narratives, chain-of-custody (COC) forms, sample receipt information, holding times, reporting limits, blanks, initial calibrations, initial and continuing calibration verifications (ICVs and CCVs), internal standards, surrogates, laboratory control sample/laboratory control sample duplicates (LCS/LCSD), matrix spike/matrix spike duplicate (MS/MSD) samples, laboratory duplicates, and analyte identification and quantitation.

The National Functional Guidelines (USEPA 2020) define the following data validation flags to assign during the data validation process:

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

A summary of the qualified data is presented in Table 1. No data were rejected as a result of the data validation process. The following sections summarize the qualifications applied during data validation based on the data review.

Sample Receipt and Technical Holding Times

The samples were received at the laboratory under chain-of-custody within the required temperature criteria. All samples were analyzed within the method required holding times.

Initial Calibrations and CCVs

Initial calibration frequency was met for all methods. ICVs and CCV recoveries were evaluated for methods that require CCVs. The following data were qualified for CCV and/or ICV recoveries and relative

response factor (RRF) values that did not meet acceptance criteria:

- The %Rs for tert-butanol and 1,2-dibromo-3-chloropropane were below the laboratory acceptance criteria for the ICV associated with samples TB/250813, MW-17/250811, MW-18/250813, MW-103I/250813, MW-102B/250813 AND FB/250813. Tert-butanol and 1,2-dibromo-3-chloropropane were non detect in the six samples and the results were qualified "UJ" as estimated non-detect.
- The RRFs for acetone were below the laboratory acceptance criteria for the ICV and CCV associated with samples MW-102IR/250813 and MW-19/250813. Acetone was detected in sample MW-102IR/250813 and the result was qualified "J-" as estimated with a potential low bias. Acetone was non-detect in sample MW-19/250813 and the result was qualified "UJ" as estimated non-detect.
- The %R for 1,1,1-trichloroethane was above the laboratory acceptance criteria for the CCV associated with sample MW-17/250811. 1,1,1-Trichloroethane was detected in sample MW-17/250811 and the result was qualified "J+" as estimated with a potential high bias.
- The %R for naphthalene was below the laboratory acceptance criteria for the CCV associated with samples TB/250813, MW-17/250811, MW-18/250813, MW-103I/250813, MW-102B/250813 AND FB/250813. Naphthalene was non-detect in the six samples and the results were qualified "UJ" as estimated non-detect.
- The %Rs for carbon disulfide, acrylonitrile, tetrahydrofuran, 1,2-dichloroethane, bromodichloromethane and trans-1,4-dichloro-2-butene were below the laboratory acceptance criteria for the CCV associated with samples MW-102IR/250813 and MW-19/250813. Carbon disulfide, acrylonitrile, tetrahydrofuran, 1,2-dichloroethane, bromodichloromethane and trans-1,4-dichloro-2-butene were non-detect in both samples and the results were qualified "UJ" as estimated non-detect.
- The %Rs for tert-butanol and 1,2-dibromo-3-chloropropane were below the laboratory acceptance criteria for the ICV associated with samples TB/250811, MW-11/250811, MW-100B/250811, MW-100E/250811 and FB/250811. Tert-butanol and 1,2-dibromo-3-chloropropane were non-detect in the five samples and the results were qualified "UJ" as estimated non-detect.

No data were qualified for CCVs with high percent recoveries and associated non-detect results. The results qualified for CCV and ICV recoveries/RRF nonconformances are listed in Table 1.

Blanks

Method, instrument, and field quality control (QC) blanks were reviewed for any detections above the method detection limit (MDL).

The following results in this date set were qualified for analytes that were detected in method blank:

- Acetone was qualified "U" as non-detect at the reporting limit (RL) in samples MW-11/250811, MW-100B/250811, MW-100E/250811 and TB/250811.
- Acetone was qualified "J+" as estimated with a potential high bias in sample FB/250811.
- Acetone was qualified "U" as non-detect at the RL in sample MW-102IR/250813.

Three field blanks and three trip banks were submitted as part of this data set. The field QC samples were free of contaminants with the following exceptions:

- Acetone was detected in field blank sample FB/250811 above the RL.
- Acetone was detected in field blank samples FB/250812 and FB/250813 below the RL.

- Acetone was detected in trip blank sample TB/250811, TB/250812 and TB/250813 below the RL.

The following results were qualified for analytes detected in field QC samples:

- Acetone was qualified "U" as non-detect at the RL in samples MW-100E/250811, MW-100B/250811 and MW-11/250811.
- Acetone was qualified "U" as non-detect at the RL in samples MW-104I/250812, MW-101I/250812, MW-100I/250812, MW-103ER/250812 and DUP/250812.
- Acetone was qualified "J+" as estimated with a high bias in sample MW-103B/250812.
- Acetone was qualified "U" as non-detect at the RL in samples MW-102IR/250813, MW-102B/250813, MW-103I/250813, MW-18/250813 and MW-17/250811.

The results qualified for blank contamination are listed in Table 1.

LCS/LCSD

LCS and LCSD recoveries were reviewed for each preparation batch. Data were not qualified when the LCS/LCSD recoveries were above the laboratory acceptance criteria and the associated sample results were non-detect. The following results were qualified for LCS/LCSD recoveries:

- 1,1,1-Trichloroethane result for sample MW-17/250811 was qualified "J+" as estimated with a potential high bias.
- 1,2-Dichlorobenzene, 1,4-dichlorobenzene and toluene results for samples MW-19/250813 & MW-102IR/250813 were qualified "UJ" as estimated non-detect.
- Bromodichloromethane for sample MW-100I/250812 was qualified "J+" as estimated with a potential high bias.

The qualified for LCS/LCSD recoveries are listed in Table 1.

MS/MSD

Project-specific samples were not submitted for MS/MSDs as part of this data set. Only MS/MSDs prepared from project samples, MW-100E/250811, MW-102ER/250812 and MW-102IR/250813, were randomly selected by the laboratory to prepare MS/MSD samples for anion analysis. The following recoveries were outside the laboratory MS/MSD acceptance criteria:

- The %R for sulfate was below the acceptance criteria for the MS prepared from sample MW-102IR/250813 and associated with samples MW-103I/250813, MW-102B/250813 UJ, MW-102IR/250813 FB/250813. Sulfate was non-detect for samples FB/250813 and MW-102B/250813, the results were qualified "UJ" as estimated non-detect. While samples MW-103I/250813 and MW-102IR/250813 detected sulfate above the RL and the results were qualified "J-" as estimated with a potential low bias.

Field Duplicates

One field duplicate pair, MW-100I/250812 and DUP/250812, was submitted as part of this data set. RPDs were calculated for results that were detected above the RL in both the primary sample and field duplicate. All calculated RPDs were within the 20% laboratory acceptance criteria.

Laboratory Duplicates

Laboratory duplicates, when required by the method, were reviewed. RPDs for laboratory duplicates prepared with project-specific samples were within the acceptance criteria. Laboratory duplicates prepared from non-project samples were not assessed for accuracy and precision.

Internal Standards

Internal standard area count recoveries for VOC and 1,4-dioxane analyses were verified as part of this data review. All internal standard area responses were within the method required criteria.

Surrogate Recoveries

Surrogate recoveries were assessed for organic analyses. The following results were qualified for surrogate deficiencies:

- 1,4-Dioxane-d8 was below the acceptance criteria for surrogate recovery for sample MW-103I/250813. The 1,4-dioxane result for sample MW-103I/250813 was qualified "J-" as estimated with a potential low bias.

Reporting Limits

Results were reported to the RL. Results that were reported for concentrations detected between the MDL and RL were qualified "J" as estimated. Samples that were analyzed at a dilution due to high concentrations of target analytes were reported with elevated reporting limits.

SUMMARY

Based on Ramboll's evaluation, the analytical data included in this data set are usable as qualified. No data were rejected as a result of the data validation. Data evaluated for this report were qualified for CCV/ICV recoveries, CCV/ICV RRF, blank contamination, LCS/LCSD recoveries, field duplicate precision and when concentrations were detected between the MDL and RL. In cases where data were qualified, the qualified results are not expected to impact decisions made with respect to comparing the results to the NYSDEC water standards

REFERENCES

USEPA. 2020. National Functional Guidelines for Inorganic Superfund Data Review. OLEM 9240.1-66. EPA 542-R-20-006. November.

USEPA. 2020. National Functional Guidelines for Organic Superfund Data Review. OLEM 9240.0-51. EPA-540-R-20-005. November.