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New York State Department of Environmental Conservation (NYSDEC)
Region 7 Office
Division of Environmental Remediation
5786 Widewaters Parkway
Syracuse, New York 13214-1867

February 9, 2024

**Subject: Stauffer Management Company, LLC – Maestri Site
NYSDEC Site No. 7-34-025
900 State Fair Boulevard
Town of Geddes, NY**

Dear Mr. Russo:

Arcadis on behalf of Stauffer Management Company, LLC (SMC), is submitting the enclosed updated Site Management Plan for the Maestri Site.

If you have any questions or concerns, please do not hesitate to contact me at 315-671-9219 or Ryan.Merrell@arcadis.com.

Sincerely,

Arcadis

A handwritten signature in black ink that reads 'Ryan Merrell'.

Ryan Merrell
Project Manager

cc: John-Paul Rossi/Stauffer Management Company, LLC
Rebecca Hensel/Arcadis

Stauffer Management Company

Site Management Plan

Maestri Site

900 State Fair Boulevard

Onondaga County, Town of Geddes, New York

NYSDEC Site Number 7-34-025

February 2024

Revisions to Final Approved Site Management Plan:

Revision No.	Date Submitted	Summary of Revision	NYSDEC Approval Date
1	May 17, 2011	Replaced “Property Owner” references with “SMC”	May 18, 2011
2	February 9, 2024	• New Lead Consultant • O&M requirement changes (e.g., no required O&M plan). • Reduction in monitoring frequency and removal of monitoring wells from sampling program. • HASP attachment. • Notification requirement changes. • NYSDEC contact change (David Chiusano to Anthony Russo).	May 28, 2024

Site Management Plan

Maestri Site

900 State Fair Boulevard

Onondaga County, Town of Geddes, New York

NYSDEC Site No. 7-34-025

February 2024

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www.arcadis.com

https://arcadis0365.sharepoint.com/teams/AFSReporting-SYR/Shared Documents/Reporting Hub/AstraZeneca/Maestri/11 Draft Reports and Presentations/2023/SMP/3. Final to NYSDEC/2024-0209 Maestri_SMP_FINAL.docx

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Site Management Plan

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Acronyms and Abbreviations

Arcadis	Arcadis of New York, Inc.
AS	air sparge
CAMP	Community Air Monitoring Plan
ECL	Environmental Conservation Law
ECs	Engineering Controls
EP	Excavation Plan
fbg	feet below grade
FS	Feasibility Study
GWTS	groundwater recovery and treatment system
HASP	Health and Safety Plan
ICs	Institutional Controls
IRM	Interim Remedial Measures
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
O&M	Operation and Maintenance
OCDOH	Onondaga County Department of Health
ORC	Oxygen Release Compound
PID	photoionization detector
ppb	parts per billion
ppm	parts per million
QA/QC	Quality Assurance/Quality Control
RAOs	Remedial Action Objectives
RAWP	Remedial Action Work Plan
RI	Remedial Investigation
ROD	Record of Decision
SAMP	Sampling, Analysis, and Monitoring Plan
SCOs	Soil Cleanup Objectives
Site	Maestri Site
SMC	Stauffer Management Company LLC

Site Management Plan

SMP	Site Management Plan
SPDES	State Pollution Discharge Elimination System
SVE	soil vapor extraction
SVI	soil vapor intrusion
SVOCs	semi-volatile organic compounds
USEPA	United States Environmental Protection Agency
VOCs	volatile organic compounds

Site Management Plan

I Timothy E. Miller, PE certify that I am currently a NYS registered professional engineer as in defined in 6 NYCRR Part 375 and that this Site Management Plan 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).



_____[P.E.]

2/8/2024

____DATE

NYS Professional Engineer #

077919-1

1 Introduction and Description of Remedial Program

1.1 Introduction

This document is required as an element of the remedial program at the Maestri Site (hereinafter referred to as the “Site”) under the New York State Inactive Hazardous Waste Disposal Site Remedial Program administered by New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with Order on Consent Index #A7-0226-90-03, Site #7-34-025, which was executed on December 16, 1992, attached in Appendix L.

1.1.1 General

Stauffer Management Company LLC (SMC) entered into an Order on Consent with NYSDEC to remediate the approximately 4.4-acre property located in Onondaga County, Town of Geddes, New York. This Order on Consent required SMC to investigate and remediate contaminated media at the Site. A map showing the site location is provided in Figure 1. The portion of the Site that is still being actively monitored is 2.5 acres and completely fenced, as shown in Appendix B. The boundaries of the Site are more fully described in the metes and bounds site description attached as Appendix A to this plan. The previous Site Management Plan (SMP) was approved by NYSDEC in August 2010 (revision on May 17, 2011 replacing “Property Owner” references with “SMC”), and a Declaration of Covenants and Restrictions filed July 2011 is currently in place.

Since remaining residual soil and groundwater contamination is present at the Site, Institutional Controls (ICs) and Engineering Controls (ECs) have been implemented at the Site to protect public health and the environment for the applicable future use.

After completion of the remedial work described in the March 1995 Record of Decision (ROD), attached as Appendix D, some contamination was left in the subsurface at this Site. This SMP was prepared to manage remaining contamination at the Site in perpetuity, or until extinguishment of the Declaration of Covenants and Restrictions in accordance with Environmental Conservation Law (ECL) Article 71, Title 36. Remedial action work on the Site began in June 1996, and was completed in May 2008. All reports associated with the Site can be viewed by contacting NYSDEC or any successor agency managing environmental issues in NYS.

This SMP was prepared by Arcadis of New York, Inc. (Arcadis) on behalf of SMC, in accordance with the requirements in DER-10 Technical Guidance for Site Investigation and Remediation, issued by NYSDEC in May 2010, and the guidelines provided by NYSDEC. This SMP addresses the means for implementing the ICs and ECs established under the Declaration of Covenants and Restrictions for the Site.

1.1.2 Purpose

Site contamination remains after completion of the Remedial Action. ECs have been incorporated into the Site remedy to provide proper management of remaining contamination in the future to ensure protection of public health and the environment. The NYSDEC prepared a Declaration of Covenants and Restrictions, which was recorded with the Onondaga County Clerk, that provides an enforceable legal instrument to ensure compliance with this SMP and all ECs and ICs placed on the Site. The ICs place restrictions on site use, and mandate operation, maintenance, monitoring, and reporting measures for all ECs and ICs. This SMP specifies the methods necessary to ensure compliance with all ECs and ICs required by the Declaration of Covenants and Restrictions

for contamination that remains at the Site. This SMP has been approved by NYSDEC and may only be revised with NYSDEC approval. Compliance with this plan is required by SMC, and any successors and assigns.

This SMP provides a detailed description of all procedures required to manage remaining contamination at the Site by SMC, the property owner(s), and any successors after completion of the Remedial Action, including:

1. Implementation and management of all ECs and ICs;
2. Media monitoring; and
3. Performance of periodic inspections, certification of results, and submittal of Periodic Review Reports.

To address these needs, this SMP includes two plans:

1. An Engineering and Institutional Control Plan for implementation and management of ECs/ICs, which includes a reporting plan for the submittal of data, information, recommendations, and certifications to NYSDEC (Section 2).
2. A Monitoring Plan for implementation of Site Monitoring (Section 3).

An Operation and Maintenance Plan is no longer required. The site remedy does not rely on any mechanical systems, such as sub-slab depressurization systems or air sparge (AS)/ soil vapor extraction (SVE) systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not applicable in this case and has not been included in this SMP.

It is important to note that:

- This SMP details the Site-specific implementation procedures that are required by the Declaration of Covenants and Restrictions. Failure to properly implement the SMP is a violation of ECL and the Declaration of Covenants and Restrictions, which is grounds for the revocation of the Release and Covenant not to sue.
- Failure to comply with this SMP is also a violation of 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 and the Order on Consent (Index # A7-02226-90-03 Site # 734025) for the Site, and thereby subject to applicable penalties.

This version of the SMP is being updated to incorporate changes proposed in the 2022 Periodic Review Report by SMC and approved by the NYSDEC in a letter dated April 11, 2023. All reports associated with the Site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in NYS. A list of contacts for persons involved with the Site is provided in the Health and Safety Plan (HASP) (Appendix O) of this SMP. In accordance with the Declaration of Covenants and Restrictions for the Site, NYSDEC will provide a notice of any approved changes to the SMP and append these notices to the SMP that is retained in its files electronically.

1.1.3 Revisions

Revisions to this plan will be proposed in writing to the NYSDEC Project Manager or requested by the NYSDEC. Revisions will be necessary upon, but not limited to, the following occurring: a change in media monitoring requirements; upgrades to, or shutdown of, a remedial system; post-remedial removal of contaminated sediment or soil; or any other significant change to the Site conditions. In accordance with the Declaration of Covenants and Restrictions for the Site, the NYSDEC will provide a notice of any approved changes to the SMP and append these notices to the SMP that is retained in its files.

1.1.4 Notifications

Notifications will be submitted by the property owner to the NYSDEC, as needed, in accordance with NYSDEC's DER-10 for the following reasons and incompliance with the required timeframe:

- 60-day advance notice of any proposed changes in Site use that are required under the terms of the Order on Consent, 6 NYCRR Part 375, and/or ECL.
- 7-day advance notice of any field activity associated with the remedial program by the Responsible Party.
- 15-day advance notice of any proposed ground-intrusive activity pursuant to the Excavation Plan (EP).
- Notice within 48-hours of any damage or defect to the foundations structures that reduces or has the potential to reduce the effectiveness of other ECs and likewise any action to be taken to mitigate the damage or defect.
- Notice within 48-hours of any emergency, such as a fire, flood or earthquake, that reduces or has the potential to reduce the effectiveness of ECs in place at the Site, including a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the Site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with copies of the Order on Consent, the Declaration of Covenants and Restrictions, and all approved work plans and reports, including this SMP.
- Within 15 days after the transfer of all or part of the Site, the new owner's name, contact representative, and contact information will be confirmed in writing to the NYSDEC.

Notifications will be made to:

Mr. Anthony Russo
New York State Department of Environmental Conservation
Region 7
Division of Environmental Remediation
5786 Widewaters Parkway
Syracuse, New York 13214-1867

In the event that NYSDEC develops a centralized notification system, that system will be used instead.

1.2 Site Background

1.2.1 Site Location and Description

The Site is located in the Town of Geddes of Onondaga County, New York and is identified as Block 13 and Lot 36.1 on the Town of Geddes Tax Map (Appendix A). The Site is located at 900 State Fair Boulevard, Geddes, New York. The Site is an approximately 2.5-acre area bounded by residential property to the north, an empty lot (904 State Fair Boulevard) and State Fair Boulevard to the south, residential property and wooded vacant lots to

the east, and residential property and wooded vacant lots to the west (see Appendix B). The boundaries of the Site are more fully described in Appendix A (Tax Map, Metes, and Bounds).

Currently, the Site is owned by Mr. Mark Maestri. SMC is acting as Site operator and the Potentially Responsible Party for remedial and site management activities.

1.2.2 Site History

In the 1970's, drums containing industrial waste material allegedly generated by Stauffer Chemical Company were buried at the Site. Solvent Savers, a waste disposal contractor, allegedly used the Site as a drum disposal area in the 1970s. In January 1987, the Site's owner at the time, Mr. Bert Maestri, reportedly excavated soil and drums from an area of the Site shown on Drawing #001 in Appendix C. After discovery of the disposal area in 1987, Malcolm Pirnie, Inc. conducted a limited site investigation on behalf of the Onondaga County Department of Health (OCDOH) to evaluate the environmental effects of the Site. Several OCDOH groundwater monitoring wells were constructed adjacent to the Maestri property. In 1987 NYSDEC listed the Site on the New York State Registry of Inactive Hazardous Waste Disposal Sites as Site #734025. In 1988, NYSDEC and SMC executed an Order on Consent (#A7-0139-88-01) for development and implementation of Site Interim Remedial Measures (IRMs).

In June 1989, a site investigation began which included monitoring well installation, soil boring completion, air monitoring, and sampling of subsurface soil and groundwater. A magnetic survey was also conducted to identify buried drums. In December 1990, the first drum excavation and disposal event (approximately 100 drums) was completed (Drawing #001 in Appendix C).

In May 1992, to address contaminated groundwater, an initial groundwater monitoring, recovery, and treatment system was installed on site. In September 1992, SMC submitted a final report to NYSDEC summarizing the findings of the field investigations and development of the Site IRMs (Maestri Site Investigation and Development of Interim Remedial Measures. Final Report. O'Brien and Gere, September 1992).

In December 1992, NYSDEC and SMC executed a second Order on Consent (#A7-0226-90-03) for performance of a Focused Remedial Investigation/Feasibility Study (RI/FS). In 1992-1993, SMC conducted a Focused RI/FS to further determine the nature and extent of soil and groundwater contamination, and to select a remedy for the Site.

In March 1995, upon completion of the RI/FS, a ROD to complete soil and groundwater remediation at the Site was signed in (Appendix D).

1.2.3 Geologic Conditions

In 1995, on behalf of SMC, O'Brien and Gere Engineers Inc. conducted a Subsurface Investigation of the Site. The investigation report indicated that the soils in the area consist of sand and gravel with traces of clay. Native soils extend to an average depth of 20 feet below grade (fbg) as shown in Table 1 below.

Table 1. Geologic Conditions at Maestri Site

Depth Below Grade	Soil Condition
0-4 feet	Brown, dry, loose fine-to-medium sand with traces of fine-to-coarse gravel and plant roots.
4-8 feet	Moderate yellowish brown fine very moist medium dense sand, fine-to-coarse gravel poorly sorted.
8-12 feet	Reddish brown, gray moist medium dense, fine-to-coarse gravel and fine-to-coarse sand, with some cobbles and traces of clay.

Depth Below Grade	Soil Condition
12-16 feet	Fine-to-coarse gravel and fine-to-very fine wet to saturated dense sand, little silt and traces of clay.
16-20 feet	Light brown very moist, very dense, fine/medium gravel, little fine/coarse sand, little silt, trace clay.
20-22 feet	The bedrock layer was encountered and was dark, red, damp hard clay with some embedded very coarse and fine gravel, and olive green dry non-calcareous shale, fissile, weathered Vernon shale.

The depth to groundwater on site ranges from 2 to 22 fbg with an average depth of 9 fbg. Groundwater flows in a northeasterly direction and discharges into Onondaga Lake located approximately 0.4 miles to the east. A groundwater contour map is included as Drawing #002 in Appendix C.

1.3 Summary of Remedial Investigation Findings

A Remedial Investigation (RI) was performed to characterize the nature and extent of contamination at the Site. The results of the RI are described in detail in the following reports:

1. Focused Remedial Investigation Report: Maestri Site. O'Brien and Gere, February 1994.
2. Feasibility Study: Maestri Site. O'Brien and Gere, September 1994.

Generally, the RI determined that the former drum disposal activities at the Site resulted in subsurface soil and groundwater contamination by volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). No significant impact on the ambient and indoor residential air quality or on surface water was identified.

The following sections provide a summary of site conditions when the RI was performed in 1992-1993.

1.3.1 Soil

Organic contaminants, predominantly xylene, were detected in subsurface soils down to the water table. Xylene was detected in soil at concentrations up to 7,070 parts per million (ppm). Other contaminants detected in on-site soil included toluene, ethylbenzene, tetrachloroethene, 2-methylphenol, 2,4-dimethylphenol, and benzoic acid in substantially lower concentrations as listed in Table 2 below. The areas of potentially impacted soil as designated in the FS are shown on Drawing #003 included in Appendix C.

Table 2. Summary of Contaminants in Soil – 1992/1993 RI.

Compound	Average Soil Concentrations (ppm)	Upper Level Soil Concentrations (ppm)
PCE	28.4	156
Toluene	7.7	45.3
Ethylbenzene	2.2	11.7
Xylene	1,360	7,070
2-Methylphenol	1	3.7
2,4-Dimethylphenol	2.3	14.7
Benzoic Acid	12.8	71.5

1.3.2 On-Site and Off-Site Groundwater

The findings of the RI indicated the presence of site-related contaminants in the shallow overburden groundwater. The principal organic contaminant detected in the shallow groundwater was xylene in concentrations exceeding 30 ppm in on-site monitoring wells, located immediately downgradient of the former drum disposal areas. Movement of the shallow groundwater is in a northeasterly direction toward Alhan Parkway. There is a steep slope downgradient between the northeast boundary of the Site and Alhan Parkway. There are residences located along the Alhan Parkway; all residences are on public water and there are no current or anticipated future uses of groundwater in the vicinity of the Site. No site-related contaminants were detected in bedrock groundwater.

1.3.3 On-Site and Off-Site Soil Vapor

In 1989, O'Brien and Gere Engineers conducted a site investigation on behalf of SMC, including an initial soil vapor intrusion (SVI) investigation.

In 1991, an indoor air-monitoring program was completed for selected residences located on Alhan Parkway, downgradient of the Site as required by the New York State Department of Health (NYSDOH). The monitoring program was implemented by O'Brien & Gere Engineers on behalf of SMC. Sufficient data was collected to establish in the ROD that there were no remaining significant impacts to the ambient air or residential indoor air quality resulting from the former drum disposal activities at the Site.

1.3.4 Underground Structures

Approximately 400 drums were excavated and removed during the IRM. In December 1990, approximately 100 drums were excavated and properly disposed. In 1993-1994, during the RI, over 200 buried drums were encountered at the Site. Approximately 100 drums were found in 1997, during implementation of remedial activities. There are currently no known underground structures on the Site.

Buried drums were excavated and properly disposed of off site. Approximately 400 drums were excavated and removed from the Site from 1990 to 1997. In December 1990, the first drum excavation and disposal (approximately 100 drums) was completed. Additional drums were excavated and disposed of off site from 1993 to 1994 (approximately 200 drums) and in 1997 (approximately 100 drums). Removal of contaminants from soil and groundwater is discussed below in Sections 1.4.1 and 1.4.2. A list of the SCOs for this project is shown in Table 3. A map showing areas where excavation was performed is shown as Drawing #001 in Appendix C.

1.4 Summary of Remedial Actions

The Site was remediated in accordance with the NYSDEC-approved IRM Work Plan dated September 1992, the Remedial Action Work Plan (RAWP) dated December 1994, and the ROD dated March 1995. The components of the remedy are detailed below.

Remedial activities focused on subsurface soil and groundwater treatment. A combination of SVE and biological treatment were chosen as the most effective remedy for the Site soil contamination that was protective of human health and the environment. In accordance with the ROD, soil was to be excavated, treated in biopiles, and redeposited back on site. Groundwater was to be recovered and treated through an on-site groundwater recovery

and treatment system (GWTS). Remedial Action Objectives (RAOs) for the Site were determined in the ROD, as provided in Table 3 below.

Table 3. Site Remedial Action Objectives

Parameter	Soil Cleanup Objective (ppm, dry weight)	Groundwater Cleanup Level (ppb)
Volatile Organic Compounds		
Benzene	0.06	5
Ethylbenzene	5.5	5
t-1,2-dichloroethylene	0.3	5
Tetrachloroethylene	1.4	5
Toluene	1.5	5
Xylene	1.2	100
Total VOCs	10	100
Semi-Volatile Organic Compounds		
Benzoic Acid	2.7	5
2,4-dimethylphenol	None established	None established
2-methylphenol	0.1	50
4-methylphenol	0.9	50
Total SVOCs	500	None Established

The following is a summary of the Remedial Actions performed at the Site:

- Excavation of soil/fill quantity exceeding the Soil Cleanup Objectives (SCOs) listed in Table 3. Verification samples were taken from sidewalls and bottom of the excavations to determine the limits of remedial excavation.
- Treatment of excavated soils (approximately 10,000 cubic yards) by SVE/bioremediation techniques in above-grade biopiles. Treated soils were placed back into excavated areas.
- Construction and maintenance of a soil cover system consisting of 3 inches of loam and 6 inches of topsoil.
- Treatment of groundwater exceeding groundwater cleanup levels, as listed in Table 3, through operation of a GWTS.
- Monitoring of the soil cover and groundwater to ensure compliance with cleanup objectives.

1.4.1 Soil

Fluor Daniel Groundwater Technologies, Inc. oversaw soil remediation activities on behalf of SMC. These activities began in June 1996 with the excavation of soils and the construction of above-grade, on-site biopiles for treatment of VOCs and SVOCs with an ex-situ SVE/bioremediation system. Excavation sidewall and bottom verification sampling was conducted to determine the limits of remedial excavation. The majority of excavation was conducted under an environmental enclosure (sprung structure). The excavated soil was conditioned (by adding vermiculite, fertilizer, lime, and wood chips) prior to biopile construction. The biopile construction continued from July 1996 through the end of March 1997, resulting in a total of five biopiles. A map showing areas where excavation was performed is shown as Drawing #009 in Appendix C.

Following construction of the biopiles, an SVE system was operated in each pile to promote biological degradation of contaminants. As biopiles showed contaminant concentrations meeting the SCOs established in ROD, NYSDEC approval was obtained to return treated soil to the excavated area. The biopiles were periodically sampled to evaluate compliance with RAOs. As biopiles showed contaminant concentrations that met SCOs, NYSDEC approval was obtained and the treated soil was returned to the excavated areas. A 6-inch stone drainage layer was constructed at the bottom of the excavation to promote drainage. Over 10,000 cubic yards of soil were excavated and treated on site. By September 1999, the last of the biopile soils (biopile 5) had met the SCOs and were returned to the site excavation area. Approximately 3 inches of loam and 6 inches of clean topsoil were placed over the soil re-deposition areas. The Site was re-graded and seeded in October 1999. The re-grading was based on pre-construction grades with an overall increase in elevation of approximately 2 feet due to the importation of materials to the Site for use in the conditioning of the biopiles. A survey showing the final post-remediation grade of the Site is provided as Drawing #007 in Appendix C. This survey does not necessarily reflect current grades on site.

Additional areas excavated in July/November 2007 were backfilled with the excavated soil based on agreement with NYSDEC. The excavated material was backfilled followed by a layer of crusher-run stone (approximately 35 cubic yards) and a layer of clean imported sand (approximately 85 cubic yards). Additional regrading and seeding of these areas was done in May-July 2008.

The GWTS was operated from 1992 to 2008, as discussed further in Section 1.4.2. In April 2007, groundwater monitoring results still showed elevated levels of xylene in well MW-9. In July 2007, two test pits were excavated in the area of MW-9 to investigate a possible remaining source of soil contamination. The locations of the test pits are provided in Drawing #005 in Appendix C. Soil excavated from the test pits was screened with a photoionization detector (PID) and showed low or non-detectable concentrations of VOCs. Overburden soil that had non-detectable PID screen readings was reused as backfill. Remaining soil excavated from the test pits was disposed of off site and the test pits were backfilled with a mixture of overburden soil and clean fill, as denoted in a letter to NYSDEC, dated October 24, 2007 (Appendix I). In November 2007, SMC installed four soil borings outside the area of the test pits to further investigate soil conditions in the area and define the areal extent of possible soil contamination. The locations of the soil borings are provided on Drawing #005 in Appendix C. Soil cuttings were placed back in the bore hole. A letter report from May 8, 2008, attached as Appendix K, details the soil boring work. Samples collected from the soil borings were analyzed for xylene. The concentration of xylene in the soil borings ranged from 0.54 to 4.4 ppm (Appendix H). Detailed sample results are provided in Section 1.4.6.

In May 2008, SMC requested no further action for soil, based on the low xylene results and no further evidence of soil contamination. NYSDEC approved the request on May 14, 2008. Groundwater monitoring continued as detailed in Section 1.4.2 below.

1.4.2 Groundwater

According to the ROD, groundwater was to be recovered and treated through an on-site treatment system. The ROD required continued operation of a GWTS with an annual evaluation until concentrations of site contaminants could no longer be effectively removed, or cleanup objectives were met. A GWTS was installed on site in 1992 and was operational until 2008. Originally six groundwater recovery wells were installed on site, in combination with a network of monitoring wells. The on-site GWTS -treated water from the recovery wells, along with water collected in the soil excavation and leachate, accumulated from the biopiles during remedial activities. The map indicating the location of the recovery wells and the GWTS is provided on Drawing #002 in Appendix C. The water was treated with particulate filtration and carbon adsorption. Treated water was discharged under a State

Pollution Discharge Elimination System (SPDES)-equivalent permit (Appendix J) to a storm sewer, which discharged to Onondaga Lake. A process flow diagram of the GWTS is provided as Drawing #006 in Appendix C.

The GWTS continued to operate after the Site was re-graded and seeded in October 1999. Groundwater sampling results demonstrated decreasing trends of site contaminants in most of the on-site monitoring and recovery wells over the years of system operation. In order to address remaining groundwater contamination and to enhance groundwater remediation, in 2001 potassium permanganate (KMnO₄) was injected into five on-site wells (PZ-9, PZ-10, PZ-12, PZ-14, and RW-2). In October 2002, higher levels of groundwater contamination continued to exist in RW-2. In order to further address contamination in this well, Oxygen Release Compound (ORC) was injected in the area around the well. ORC injections were completed in 2002 and 2004. In April 2006, to address the possibility of a soil source of contamination existing in the vicinity of RW-2, the well was overdrilled and backfilled with nutrient-enriched gravel and soil to facilitate bioremediation of remaining organic compounds. A new monitoring well was installed in the same location to replace the recovery well (MW-2A). A split sample collected by NYSDEC in April 2007 showed elevated levels of xylene at 827 parts per billion (ppb). NYSDEC requested SMC investigate a possible source of this contamination, which lead to the test pit and soil boring investigations detailed in Section 1.4.1, along with additional groundwater sampling. MW-9 was removed during the test pit work in July 2007 and was reinstalled during the soil boring work in November 2007. A groundwater sample from MW-9 taken in January 2008 showed xylene at 11 ppb. No evidence of a soil source of contamination was found.

In May 2008, SMC requested approval to shut down the GWTS as the Site RAOs listed in the ROD were achieved. NYSDEC approved SMC's request on May 14, 2008, and the GWTS was shut down on May 27, 2008. The system's main components (electricity, pumps, and controllers) were to remain in place until it could be determined that the residual plume did not migrate as a result of shutting down the system.

SMC was required to maintain the system for a minimum of 1 year, and to monitor the residual groundwater plume quarterly to ensure it did not migrate. In May 2009, since the contaminant plume remained stable after the 1-year monitoring period, the GWTS was decommissioned and the frequency of groundwater sampling was reduced to semiannually. Monitoring continued on a semiannual frequency through 2021 at accessible locations. In 2021 and 2022, NYSDEC approved of the removal of wells MW-2A, RW-3, RW-5, RW-8, and PZ-20 from the monitoring program and reduced the frequency of monitoring to annually.

Annual groundwater monitoring, as detailed in Section 3.0, will continue by SMC, and any successors until a reduction is otherwise approved by NYSDEC and NYSDOH.

1.4.3 Remaining Contamination

There is no designated "Remaining Contamination Zone" on site. The contaminated soil was treated to meet the Site RAOs listed in the ROD. Upon completion of the soil treatment, verification samples were taken to demonstrate that the treated soil met SCO requirements. In November 2007, SMC took four samples from soil borings outside the footprint of the excavated area. Analysis of the samples showed low concentrations of xylene as detailed in Table 4. A sample was additionally taken by NYSDEC from SB-2 in the interval above refusal. One boring (SB-1) showed levels of xylene above the SCOs. The location of SB-1 is shown on Drawing #005 in Appendix C.

Table 4 summarizes the xylene results of soil samples remaining at the Site after completion of the Remedial Action. No samples exceed the Track 2 Restricted Use SCOs as outlined in 6 NYCRR Part 375, dated December 14, 2006. The Site is zoned for Residential Use A, which is designated as single-family dwellings.

Table 4. Soil Boring Sample Results – Xylene

Soil Boring	Xylene Concentration in Soil Borings (ppm)	1995 ROD Site-Specific Xylene SCO for Soil (ppm)	Unrestricted Use Xylene Level (ppm)	Residential and Restricted Use Residential Xylene Level (ppm)	Restricted Use Commercial Xylene Level (ppm)	Restricted Use Industrial Xylene Level (ppm)
SB-1	4.4	1.2	0.26	100	500	1,000
SB-2	<0.15					
SB-3	0.81					
SB-4	0.54					

The GWTS was shut down based on approval from NYSDEC as sampling results indicate that contaminants remaining in groundwater are low and the system was no longer effectively removing remaining contamination. SMC will continue to monitor groundwater on an annual basis to account for fluctuations in the groundwater table.

No public utility lines or other subsurface infrastructure are present at the Site. The only remaining subsurface utilities and infrastructure are those directly related to the operation of the GWTS, which are decommissioned (grouted in-place). No critical infrastructure remains on site.

1.4.4 Engineering and Institutional Controls

Since remaining residual soil and groundwater contamination are present at the Site, ECs and ICs have been implemented to protect public health and the environment for the applicable future use. The Controlled Property has the following ECs:

1. Maintenance of the soil cover over the soil redeposition areas, consisting of 3 inches of loam, 6 inches of topsoil, and grass.
2. Continuous monitoring of groundwater.

The installation of mechanical systems, such as sub-slab depressurization systems or AS/SVE systems, were not required to protect public health and the environment upon completion of the remedial activities at the Site.

These ECs and ICs are designed to prevent:

- Ingestion/direct contact with contaminated soil.
- Inhalation of or exposure to contaminants volatilizing from contaminated soil.
- Ingestion of groundwater with contaminant levels that exceed drinking water standards.
- Contact with or inhalation of volatiles from contaminated groundwater.
- Contaminated groundwater from migrating off site.
- Migration of contaminants that would result in off-site groundwater or surface water contamination.

2 Engineering and Institutional Control Plan

2.1 Introduction

2.1.1 General

Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved ROD for the Site (March 1995). The SCOs are listed in Table 3 (Section 1.4) and include 1.2 ppm for xylene in the Site soils and 5 ppb for xylene in groundwater. The remedial goals included attainment of SCOs listed in the ROD for on-site soils for unrestricted use. The unrestricted SCOs were approved by NYSDEC and are listed in Table 3. The SCOs listed in the ROD were originally derived from the Technical and Administrative Guidance Memorandum 4046 SCOs. NYSDEC has since issued new restricted use SCOs, listed in 6 NYCRR Subpart 375-6.8(b). The new SCOs list 100 ppm of xylene for residential use and 1.6 ppm of xylene in soil for protection of groundwater. A summary of the remedial strategies and ECs/ICs implemented at the Site are provided in Sections 2.2 and 2.3.

Since remaining contaminated soil and groundwater exists beneath the Site, ECs/ICs are required to protect human health and the environment. This EC/IC Plan describes the procedures for the implementation and management of all ECs/ICs at the Site. The EC/IC Plan is one component of this SMP and is subject to revision by NYSDEC.

2.1.2 Purpose

The purpose of the EC/IC Plan is to provide:

- A description of all ECs/ICs on the Site.
- The basic operation and intended role of each implemented EC/IC.
- A description of the key components of the ICs created as stated in the Declaration of Covenants and Restrictions.
- A description of the features that should be evaluated during each periodic inspection and compliance certification period.
- A description of plans and procedures to be followed for implementation of ECs/ICs.
- A description of the reporting requirements for the ECs/ICs.
- Any other provisions necessary to identify or establish methods for implementing the ECs/ICs required by the Site remedy, as determined by NYSDEC.

2.2 Engineering Controls

2.2.1 Engineering Control Systems

2.2.1.1 Soil Cover System

Exposure to remaining contamination in soil at the Site is prevented by a soil cover system, which is comprised of 3 inches of loam, 6 inches of topsoil, and grass placed over the soil redeposition areas. The EP detailed in

Section 2.4 outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed. Procedures for monitoring the system are included in the Monitoring Plan (Section 3).

2.2.1.2 Groundwater Monitoring

To address remaining residual groundwater contamination present at the Site, continuous groundwater monitoring has been implemented at the Site. Procedures for monitoring groundwater are included in the Monitoring Plan.

2.2.2 Criteria for Completion of Remediation/Termination of Remedial Systems

Generally, the remedial processes will be considered complete when effectiveness monitoring indicates that the remedy has achieved the RAOs identified by the ROD. The specific determination of when the following remedial processes are complete will be made in compliance with the latest edition of NYSDEC DER-10.

2.2.2.1 Cover System

The soil cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in perpetuity.

2.2.2.2 Groundwater Monitoring

Groundwater monitoring activities to assess the residual groundwater plume will continue annually as outlined in the Monitoring Plan, until an alternate schedule is requested or until permission to discontinue is granted in writing by NYSDEC.

2.3 Institutional Controls

A series of ICs is required by the Declaration of Covenants and Restrictions to:

1. Implement, maintain, and monitor EC systems;
2. Prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and
3. Limit the use and development of the Site to residential use with restricted groundwater use.

Adherence to these ICs on the Site is required by the Declaration of Covenants and Restrictions and will be implemented under this SMP, as follows:

- Compliance with the Declaration of Covenants and Restrictions by the property owner and any future owners of the land.
- All ECs are operated and maintained as specified in this SMP.
- All ECs on the Controlled Property are inspected and certified at a frequency and in a manner defined in this SMP.
- Groundwater monitoring is performed as defined in this SMP.

- Data and information pertinent to site management for the Controlled Property is reported at the frequency and in a manner defined in this SMP.
- On-site environmental monitoring devices, including but not limited to groundwater monitoring wells, are protected and replaced as necessary to ensure the devices function in the manner specified in this SMP.

ICs may not be discontinued without an amendment to, or extinguishment of, the Declaration of Covenants and Restrictions.

The Site has a series of ICs in the form of the site restrictions. Adherence to these ICs by the property owner and SMC are required by the Declaration of Covenants and Restrictions. The Site will be inspected in accordance with the Declaration of Covenants and Restrictions. Site restrictions that apply to the Controlled Property are as follows:

- Vegetable gardens and farming, including cattle and dairy farming, on the property are prohibited.
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended purpose.
- All future activities on the property that will disturb remaining contaminated material are prohibited unless they are conducted in accordance with this SMP.
- The implementing party must evaluate the potential for vapor intrusion for any buildings developed on the Site, and any potential impacts that are identified must be mitigated by the implementing party.
- The property owner may use the property for residential use with restricted groundwater use provided that the long-term ECs/ICs included in this SMP are employed and land zoning regulations are followed.
- The property may not be used for a less restrictive use, such as unrestricted use, without additional remediation and amendment of the Declaration of Covenants and Restrictions by the Commissioner of NYSDEC.
- A written statement will be submitted to NYSDEC that certifies, under penalty of perjury, that:
 1. Controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by NYSDEC.
 2. Nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with this SMP.
 3. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that NYSDEC finds acceptable.

2.3.1 Soil Vapor Intrusion Evaluation

Prior to the construction of any enclosed structures located over areas that contain remaining contamination, an SVI evaluation will be performed by the implementing party to determine whether any mitigation measures are necessary to eliminate potential exposure to volatile organic vapors in the proposed structure. Alternatively, the implementing party may install an SVI mitigation as an element of the building foundation without first conducting an investigation. This mitigation system will include a vapor barrier and passive sub-slab depressurization system that is capable of being converted to an active system.

Prior to conducting an SVI investigation or installing a mitigation system, a work plan will be developed and submitted by the implementing party to NYSDEC and NYSDOH for approval. This work plan will be developed in accordance with the most recent NYSDOH “Guidance for Evaluating Vapor Intrusion in the State of New York.” Measures to be employed to mitigate potential vapor intrusion will be evaluated, selected, designed, installed, and maintained based on the SVI evaluation, the NYSDOH guidance, and construction details of the proposed structure.

Preliminary (unvalidated) SVI sampling data will be forwarded to NYSDEC and NYSDOH for initial review and interpretation. Upon validation, the final data will be transmitted to the agencies, along with a recommendation for follow-up action, such as mitigation. Validated SVI data will be transmitted to NYSDEC and NYSDOH within 30 days of validation.

SVI sampling results, evaluations, and follow-up actions will also be summarized in the next Periodic Review Report.

2.4 Excavation Plan

As described in Section 1.4 of this SMP, on-site soils received a no further action letter determination from the NYSDEC on May 11, 2008. In addition, SMC is not the property owner. The site remedy allows for residential use with restricted groundwater use. Any future intrusive work that will penetrate, encounter or disturb the remaining contamination, and any modifications or repairs to the existing cover system as outlined in Section 2.2.1.1 will be performed in compliance with this EP. Intrusive construction work must also be conducted in accordance with the procedures defined in a HASP prepared for the Site. Based on future changes to State and Federal health and safety requirements, and specific methods employed by future contractors, the HASP will be updated and re-submitted with the notification. Any intrusive construction work will be performed in compliance with the EP and HASP and will be included in the periodic inspection and certification reports submitted under the Site Management Reporting Plan (See Section 2.6).

Parties performing this work, are completely responsible for the safe performance of all invasive work, the structural integrity of excavations, and for structures that may be affected by excavations (such as building foundations and bridge footings).

The only remaining subsurface utilities and infrastructure are those directly related to the operation of the GWTS, which are decommissioned (grouted in-place).

Mechanical processing of historical fill and contaminated soil on site is prohibited.

Excavated areas from the Remedial Action have been surveyed by a surveyor licensed to practice in the State of New York. The survey information will be shown on maps in the Periodic Review Reports.

2.4.1 Notification

At least 15 days prior to the start of any activity that is reasonably anticipated to encounter remaining contamination, the performing party will notify the NYSDEC. Currently, this notification will be made to:

Anthony Russo
New York State Department of Environmental Conservation
Region 7
Division of Environmental Remediation
5786 Widewaters Parkway
Syracuse, New York 13214-1867

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent, plans for the site re-grading, intrusive elements or utilities to be installed below the soil cover, or any work that may impact an EC.
- A summary of environmental conditions anticipated in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling.
- A schedule for the work, detailing the start and completion of all intrusive work.
- A statement that the work will be performed in compliance with this EP and 29 CFR 1910.120.
- A copy of the contractor's health and safety plan, in electronic format.
- Identification of disposal facilities for potential waste streams.
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

2.4.2 Soil Screening Methods

Visual, olfactory, and instrument-based soil screening will be performed by a qualified environmental professional during all future remedial and development excavations into known or potentially contaminated material (remaining contamination). Soil screening will be performed regardless of when the invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work.

Soils will be segregated based on previous environmental data and screening results into material that: requires off-site disposal; requires testing; can be returned to the subsurface; and can be used as cover soil.

2.4.3 Stockpile Methods

Soil stockpiles will be continuously encircled with a silt fence. Hay bales are used as needed near catch basins, surface waters, and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook that is maintained at the Site. The logbook will be available for inspection by NYSDEC.

2.4.4 Materials Excavations and Load Out

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The performing parties are solely responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the Site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the Site.

A truck wash will be operated on site. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the Site until the activities performed under this section are complete.

Loaded vehicles leaving the Site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and New York State Department of Transportation requirements (and all other applicable transportation requirements).

Locations where vehicles enter or exit the Site shall be inspected daily for evidence of off-site soil tracking.

The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the Site are clean of dirt and other materials derived from the Site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials.

2.4.5 Materials Transport Off Site

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the Site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

All trucks will be washed prior to leaving the Site. Truck wash waters will be collected and disposed of off-site in an appropriate manner.

Truck transport routes will be identified that will:

- Limit transport through residential areas and past sensitive sites;
- Use city-mapped truck routes;
- Minimize off-site queuing of trucks entering the facility;
- Limit total distance to major highways; and
- Promote safety in access to highways.

Trucks will be prohibited from stopping and idling in the neighborhood outside the Site. Egress points for truck and equipment transport from the Site will be kept clean of dirt and other materials during site remediation and development.

Due to limited available space at the Site, some off-site queuing of trucks may be necessary. The number and duration of trucks lined up outside the Site entrance will be minimized through efficient scheduling and staging at a remote location.

2.4.6 Materials Disposal Off Site

All soil/fill/solid waste excavated and removed from the Site will be treated as contaminated and regulated material and will be transported and disposed of in accordance with all local, State (including 6 NYCRR Part 360), and Federal regulations. If disposal of soil/fill from this Site is proposed for unregulated off-site disposal (i.e., clean

soil removed for development purposes), a formal request with an associated plan will be made to NYSDEC. Unregulated off-site management of materials from this Site will not occur without formal NYSDEC approval.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate (e.g., hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility). Actual disposal quantities and associated documentation will be reported to NYSDEC in the Periodic Review Report. This documentation will include waste profiles, test results, facility acceptance letters, manifests, bills of lading, and facility receipts.

Non-hazardous historical fill and contaminated soils taken off site will be handled, at minimum, as a Municipal Solid Waste pursuant to 6 NYCRR Part 360-1.2. Material that does not meet the lower of the SCOs for residential use or groundwater protection will not be taken to a New York State recycling facility (6 NYCRR Part 360-16 Registration Facility) without a beneficial use determination issued by NYSDEC.

2.4.7 Materials Reuse On Site

There is no plan to reuse on-site materials. If materials will be reused on site, a plan will be developed by the responsible party for NYSDEC approval prior to work.

2.4.8 Fluids Management

All liquids to be removed from the Site, including excavation dewatering and groundwater monitoring well purge and development waters, will be handled, transported and disposed of in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the Site but will be managed off site.

Discharge of water generated during large-scale construction activities to surface waters (i.e., a local pond, stream or river) will be performed under an SPDES permit.

2.4.9 Cover System Restoration

After the completion of soil removal and any other invasive remedial activities the cover system will be restored in a manner that complies with the ROD and this SMP. If the type of cover system changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover. A figure showing the modified surface will be included in the subsequent Periodic Review Report and in any updates to the SMP.

2.4.10 Backfill from Off-Site Sources

All materials proposed for import onto the Site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP, applicable regulations (6 NYCRR 375-6.7(d)) and guidance (DER-10) prior to receipt at the Site.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the Site.

All imported soils will meet the backfill and cover soil quality standards established in 6 NYCRR 375-6.7(d). Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for

this Site, will not be imported onto the Site without prior approval by NYSDEC. Solid waste will not be imported onto the Site.

Trucks entering the Site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

2.4.11 Stormwater Pollution Prevention

If construction occurs on-site in the future, barriers and hay bale checks will be installed and inspected once a week and after every storm event by the implementing party. Results of inspections will be recorded in a logbook that is maintained at the Site. The logbook will be available for inspection by NYSDEC. All necessary repairs shall be made by the implementing party immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

Silt fencing or hay bales will be installed around the entire perimeter of the construction area.

A detailed Storm Pollution Prevention Plan will be developed by the implementing party prior to work if any construction occurs on site in the future.

2.4.12 Contingency Plan

If underground tanks/drums or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development-related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for VOCs and SVOCs listed in Table 3.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone to the NYSDEC Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline; findings will be included in daily and periodic electronic media reports.

2.4.13 Community Air Monitoring Plan

A map showing the locations of the air monitoring stations installed during the remedial activities of 1995-1999 is provided as Drawing #008 in Appendix C. If any future intrusive work will disturb the cover system, a new Community Air Monitoring Plan (CAMP) will be developed and submitted to NYSDEC and NYSDOH Project Managers in accordance with latest revision of the NYSDEC DER-10. The location of the air monitoring stations

will be adjusted based on the actual wind direction and work to be performed on the Site. Any exceedance of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers or their representatives.

2.4.14 Odor Control Plan

Environmental enclosures can be used on a routine basis to control odors from excavation work on site. If nuisance odors are identified at the Site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected by the implementing party. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of SMC, and any measures that are implemented will be discussed in the Periodic Review Report.

All necessary means will be employed by the implementing party to prevent on- and off-site nuisances. These measures will include:

- Limiting the area of open excavations and size of soil stockpiles;
- Shrouding open excavations with tarps and other covers; and
- Using foams to cover exposed odorous soils.

If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include:

- Direct load-out of soils to trucks for off-site disposal;
- Use of chemical odorants in spray or misting systems; and
- Use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

2.4.15 Dust Control Plan

A dust suppression plan that addresses dust management during invasive on-site work will include, at a minimum, the items listed below:

- Use of a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Clearing and grubbing of larger sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

2.4.16 Other Nuisances

A plan for rodent control will be developed if necessary and utilized by the contractor prior to and during site clearing and site grubbing, and during all remedial work.

A plan will be developed and utilized by the contractor for all remedial work to ensure compliance with local noise control ordinances.

2.5 Inspections and Notifications

2.5.1 Periodic Inspections

Periodic inspections of all remedial components installed at the Site will be conducted annually, as specified in the Monitoring Plan schedule (Section 3). A comprehensive site-wide inspection will be conducted annually, regardless of the frequency of the Periodic Review Report. The inspections will 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 Declaration of Covenants and Restrictions.
- Achievement of remedial performance criteria.
- Sampling and analysis of appropriate media during monitoring events.
- If the Site records are complete and up to date.
- Changes, or needed changes, to the remedial or monitoring system.

Inspections will be conducted by SMC representatives, and any successors in accordance with the procedures set forth in the Monitoring Plan of this SMP (Section 3), using the Site-Wide Inspection Form included in Appendix E. The reporting requirements are outlined in the Site Management Reporting Plan (Section 2.6).

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the Site will be conducted within 5 days of the event to verify the effectiveness of the ECs/ICs implemented at the Site. This inspection will be conducted by a qualified environmental professional as determined by NYSDEC.

2.5.2 Evaluation and Reporting

The results of the inspection and site monitoring data will be evaluated as part of the EC/IC certification to confirm:

- ECs/ICs are in place, are performing properly, and remain effective;
- The Monitoring Plan is being implemented; and
- The Site remedy continues to be protective of public health and the environment and is performing as designed in the RAWP.

2.6 Reporting Plan

2.6.1 Introduction

A Periodic Review Report will continue to be submitted to NYSDEC annually, as established in the May 2011 SMP. The Periodic Review Report will be prepared in accordance with the latest revision of the NYSDEC DER-10. The frequency of submittal of the Periodic Review Report may be modified with the approval of NYSDEC.

This report will include the following:

- Identification of all ECs/ICs required by this SMP.
- An assessment of the effectiveness of all ECs/ICs for the Site.
- An evaluation of this EC/IC Plan and the Monitoring Plan (Section 3) for adequacy in meeting remedial goals.
- Results of the required annual inspections of the Site and severe condition inspections, if any.
- A compilation of all deliverables generated during the reporting period, as specified in this EC/IC Plan and the Monitoring Plan.
- Certification of the ECs/ICs.

2.6.2 Certification of Engineering and Institutional Controls

Inspection of the ECs/ICs will occur by SMC representatives, and any successors at the frequency described in Section 3 (Monitoring Plan). After the last inspection of the reporting period, a qualified environmental professional will prepare a Periodic Review Report which certifies the following:

- On-site ECs/ICs are unchanged from the previous certification.
- Controls remain in place and are effective.
- The systems are performing as designed.
- Nothing has occurred that would impair the ability of the controls to protect the public health and environment.
- Access is available to the Site by NYSDEC and NYSDOH to evaluate continued maintenance of such controls.
- Site use is compliant with the Declaration of Covenants and Restrictions.

2.6.3 Periodic Review Report

A Periodic Review Report will continue to be submitted to NYSDEC annually. The report will be submitted within 45 days of the end of each certification period. Groundwater sampling results will also be incorporated into the Periodic Review Report. The report will include the following:

- EC/IC certification.
- All applicable inspection forms and other records generated for the Site during the reporting period.
- Data summary tables and graphical representations of contaminants of concern in groundwater, which include a listing of all compounds analyzed, along with the applicable standards, with all contraventions of groundwater SCOs highlighted. These will include a presentation of past data sufficient for the NYSDEC to evaluate contaminant concentration trends.
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted electronically in a NYSDEC-approved format.
- An evaluation of the Site, which includes:
 - o The compliance of the remedy with the requirements of the Site-specific ROD;
 - o Any new conclusions or observations regarding site contamination based on inspections or data generated by the Monitoring Plan for the media being monitored;

Site Management Plan

- o Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan; and
- o The overall performance and effectiveness of the remedy.

The Periodic Review Report will be submitted, in electronic format, to the NYSDEC Central Office located in Syracuse, New York, the NYSDOH Syracuse Regional Office, and the NYSDOH Bureau of Environmental Exposure Investigation.

3 Monitoring Plan

3.1 Introduction

3.1.1 General

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the implemented ECs to reduce or mitigate contamination at the Site. ECs at the Site include a soil cover over excavated areas and annual monitoring of groundwater. This Monitoring Plan may only be revised with the approval of NYSDEC.

3.1.2 Purpose and Schedule

This Monitoring Plan describes the methods to be used for the following:

- Visual monitoring of soil cover integrity.
- Sampling and analysis of groundwater.
- Assessing compliance with NYSDEC groundwater standards.
- Assessing achievement of the remedial performance criteria.
- Evaluating information of the Site periodically to confirm that the remedy continues to be effective in protecting public health and the environment.
- Preparing the necessary reports for the various monitoring activities.

To adequately address issues, this Monitoring Plan provides information on:

- Sampling locations, protocol, and frequency.
- Information on all designed monitoring systems (e.g., well logs).
- Analytical sampling program requirements.
- Reporting requirements.
- Quality Assurance/Quality Control (QA/QC) requirements.
- Inspection and maintenance requirements for monitoring wells.
- Monitoring well decommissioning procedures.
- Annual inspection and periodic certification.

Quarterly monitoring of the performance of the remedy and overall reduction in contamination, both on site and off site, was conducted by SMC for the first year after shutdown of the GWTS, from May 2008 until May 2009. After this 1-year monitoring period, the groundwater plume appeared to remain stable, therefore, the monitoring frequency was reduced to semiannually. A transition to annual sampling was approved by the NYSDEC following the approval of the 2022 Periodic Review Report. Annual groundwater monitoring will continue until otherwise approved by NYSDEC and NYSDOH.

Groundwater contaminant trends in the affected areas will be evaluated to assess if the remedy continues to be effective in achieving remedial goals. The soil cover will be inspected annually to ensure no building on the Site

has occurred and that the Site cover remains in place. Annual inspections of the soil cover will continue until otherwise approved by NYSDEC and NYSDOH. Monitoring programs for environmental media are summarized in Table 5 and outlined in detail in Sections 3.2 through 3.5 below.

Table 5. Groundwater and Soil Cover Monitoring Schedule

Monitoring Program	Frequency	Matrix	Analysis
Soil Cover	Annually	Soil	Visual observation for soil cover integrity
Groundwater Monitoring	Annually	Groundwater	Xylene

* The frequency of events will be conducted as specified until otherwise approved by both NYSDEC and NYSDOH

The annual soil cover monitoring will occur concurrently with a groundwater monitoring event.

3.2 Soil Cover Monitoring

Exposure to remaining contamination in soil at the Site is prevented by a soil cover system. Inspections of the soil cover will be performed periodically to assess its integrity. The Site is routinely mowed to allow for visual inspections of the soil cover onsite.

The soil cover system is comprised of 3 inches of loam, 6 inches of topsoil, and grass placed over the excavated areas. The Site has been regraded and seeded upon completion of the remedial activities. The Site has been secured with an 8-foot-high fence and two locked gates to restrict site access. The fence and gate post location are shown on Drawing #007 in Appendix C. SMC keeps the Site gates locked and will annually assess fence integrity.

An as-built drawing for the Site is included as Drawing #007 in Appendix C.

3.2.1 Inspection Schedule

Site inspections are conducted annually as detailed in Section 3.1.2. The certifications will be issued annually in the Periodic Review Report. The frequency of inspections will be evaluated every 2 years.

3.2.2 Monitoring Event Protocol

A visual inspection of the soil cover integrity will be conducted annually, concurrently with groundwater sampling events. An inspection form for the Site provided in Appendix E will be completed during each inspection and kept on file at Arcadis' office. The inspection frequency is subject to change with the approval of NYSDEC.

Items reviewed during site inspections include site security, general site maintenance, erosion control, condition of neighboring properties and general observations of the Site. General observations include, but are not limited to, evidence of the following:

- Damage to chain link fence
- Odors
- Cover breach or bald spots in grassy areas
- Surface runoffs

- Sink holes
- Water accumulation, water staging/ponding, or pooling

A complete list of components to be checked is provided in the Site Inspection Checklist, presented in Appendix E. If soil cover integrity is not maintained, repairs will be performed within 30 days of the inspection, weather permitting.

Unscheduled inspections and/or sampling may take place when a suspected failure of the soil cover system has been reported or an emergency occurs that is deemed likely to affect the soil cover. Monitoring deliverables for the soil cover system are specified later in this Plan in Section 3.6.

3.3 Groundwater Monitoring Program

Groundwater monitoring will be performed on a periodic basis to assess the performance of the remedy.

3.3.1 Monitoring System Design

The network of monitoring wells was installed to monitor both upgradient and downgradient groundwater conditions at the Site. Twenty-five monitoring wells were originally installed on and off site. The depth of the wells and analytes to be tested annually are detailed in Table 6, below. Drawing #002 in Appendix C shows locations of monitoring wells. Monitoring well construction logs are included in Appendix F. Historical post-remedial groundwater quality conditions are provided in groundwater monitoring reports and Periodic Review Reports submitted to NYSDEC following sampling events.

In 2021 and 2022, as documented in previous submittals and approvals, the monitoring program was reduced to four remaining wells (Table 6). The most recent Periodic Review Report (2022) acceptance letter can be found in Appendix M, and the report can be found in Appendix N.

Table 6. Groundwater Monitoring Program

Well	Depth of Well (ft bgs)	Measuring Point Elevation (ft)	Screened Interval (ft)	Depth to Water (ft)	Total Xylene Concentration Measurement (Y/N)	Water Elevations Measurement (Y/N)	Frequency
MW-9	19.2	408.9	387.00-397.00	12.81	Y	Y	Annually
PZ-21	19.5	386.7	368.00- 378.00	2.50	Y	Y	Annually
RW-6	21.86	393.6	374.74-384.74	6.04	Y	Y	Annually
RW-7	27.5	405.8	383.76-393.76	17.77	Y	Y	Annually

3.3.2 Groundwater Monitoring Schedule

Monitoring of the groundwater wells is performed on an annual basis. The need for additional monitoring or decommissioning of the wells will be evaluated every year. The sampling frequency may be modified with the approval of NYSDEC. The SMP will be modified to reflect changes in sampling plans approved by NYSDEC.

Deliverables for the groundwater monitoring program are specified in Section 2.5 and 2.6.

3.3.3 Sampling Event Protocol

All monitoring well sampling activities will be recorded on a Well Sampling Field Record form presented in Appendix E. Other observations (e.g., well integrity, etc.) will be noted on the Site Observation Report also provided in Appendix E.

Groundwater sampling is conducted annually, and annual Periodic Review Reports are submitted to NYSDEC. The reports present the data and compare the results to historical data to assess conditions of the groundwater. During each sampling event, the wells to be sampled are gauged for water level. Groundwater sampling events are conducted via low-flow sampling procedures.

Monitoring wells were purged with a two-inch submersible pump and polyethylene tubing. Purged water is containerized 55-gallon drums or polyethylene tote. The containerized water is temporarily stored within the fenced site area and will be later transported to a regulated disposal facility for disposal. Field data, including pH, temperature, conductivity, turbidity, oxidation-reduction potential, dissolved oxygen, and total dissolved solids, were recorded during purging.

Samples are collected using disposable bailers.

Field QA/QC samples were collected at a rate of one set for every 20 and consisted of a blind duplicate, and matrix spike/matrix spike duplicate. Additionally, for each day of sampling a trip blank and equipment blank were collected and analyzed. Samples were sent to Eurofins TestAmerica in Edison, New Jersey, an NYSDOH Environmental Laboratory Approval Program certified laboratory. The groundwater analytical samples were analyzed following typical chain of custody procedures for xylene, using United States Environmental Protection Agency (USEPA) Method 624.1 Analytical results are included in the annual Periodic Review Report.

3.4 Monitoring Well Repairs, Replacement, and Decommissioning

If biofouling or silt accumulation occurs in the on- and/or off-site monitoring wells, the wells will be physically agitated/surged and redeveloped. Additionally, monitoring wells will be properly decommissioned and replaced (per the Monitoring Plan) if an event renders the wells unusable.

Repairs and/or replacement of wells in the monitoring well network will be performed based on assessments of structural integrity and overall performance.

NYSDEC will be notified prior to any repair or decommissioning of monitoring wells for the purpose of replacement, and the repair or decommissioning and replacement process will be documented in the subsequent Periodic Review Report. Well decommissioning without replacement will be done only with the prior approval of NYSDEC. Well abandonment will be performed in accordance with NYSDEC's "CP-43: Groundwater Monitoring Well Decommissioning Policy". Monitoring wells that are decommissioned because they have been rendered unusable will be reinstalled in the nearest available location, unless otherwise approved by NYSDEC.

3.5 Monitoring Quality Assurance/Quality Control

All sampling and analysis is performed in accordance with the requirements of the Sampling, Analysis, and Monitoring Plan (SAMP) prepared for the Site, attached as Appendix G. A main component of the SAMP is the Quality Assurance Project Plan in Section 6, which includes the following:

- QA/QC Objectives for Data Measurement.
- Sampling Program:
 - o Sample containers will be properly washed, decontaminated, and appropriate preservative will be added (if applicable) prior to their use by the analytical laboratory. Containers with preservative will be tagged as such.
 - o Sample holding times will be in accordance with NYSDEC Analytical Services Protocol requirements.
 - o Field QC samples (e.g., trip blanks, coded field duplicates, and matrix spike/matrix spike duplicates) will be collected, as necessary.
- Sample Tracking and Custody.
- Calibration Procedures:
 - o All field analytical equipment will be calibrated immediately prior to each day's use. Calibration procedures will conform to manufacturer's standard instructions.
 - o The laboratory will follow all calibration procedures and schedules as specified in USEPA SW-846 and subsequent updates that apply to the instruments used for the analytical methods.
- Analytical Procedures.
- Internal QC and Checks.
- QA Performance and System Audits.
- Preventative Maintenance Procedures and Schedules.
- Corrective Action Measures.

3.6 Monitoring Reporting Requirements

Forms and any other information generated during regular monitoring events and inspections will be kept on file by SMC at Arcadis' office. Per NYSDEC approval of the 2022 Periodic Review Report, groundwater monitoring reports will no longer be submitted. All forms, and other relevant reporting formats used during the monitoring/inspection events, will be:

1. Subject to approval by NYSDEC; and
2. Submitted at the time of the Periodic Review Report, as specified in Section 2.6.

All media and engineering system monitoring results will be reported to NYSDEC in the Periodic Review Report. The report will include, at a minimum:

- Date of event.
- Personnel conducting sampling.
- Description of the activities performed.

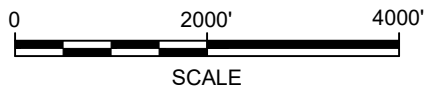
Site Management Plan

- Type of samples collected (e.g., sub-slab vapor, indoor air, outdoor air, etc.).
- Copies of all field forms completed (e.g., well sampling logs, chain-of-custody documentation, inspection checklists, etc.).
- Sampling results in comparison to appropriate standards/criteria.
- A figure illustrating sample type and sampling locations.
- Copies of all laboratory data sheets and the required laboratory data deliverables required for all points sampled (to be submitted electronically in the NYSDEC-identified format).
- Any observations, conclusions, or recommendations.
- Condition of soil cover and required repairs.
- Condition of site security, of general site maintenance, and of neighboring properties.
- A determination as to whether groundwater conditions have changed since the last reporting event.

Figures



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., CAMILLUS AND SYRACUSE WEST, NEW YORK, 2019.



NEW YORK

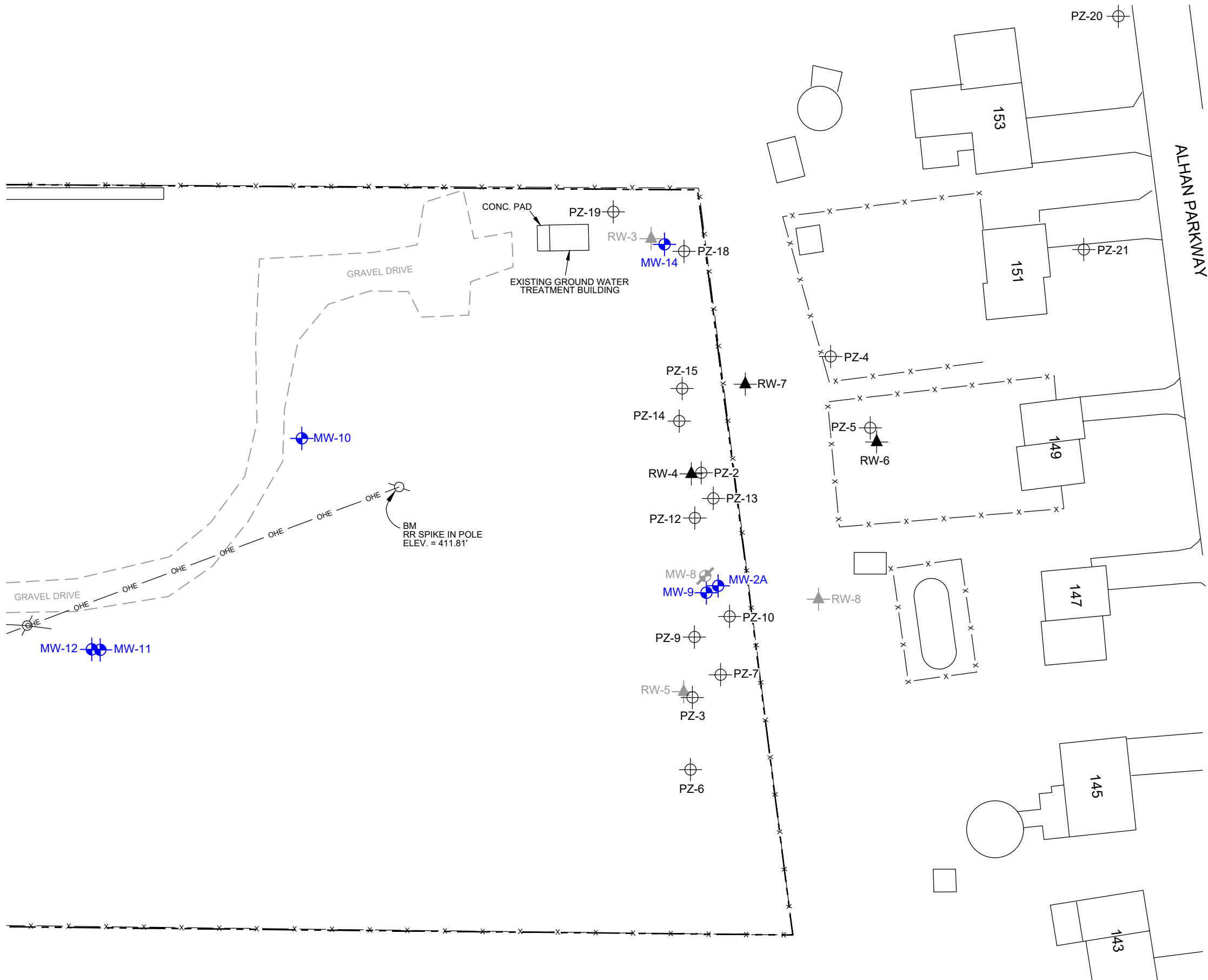
MAESTRI SITE
 904 STATE FAIR BOULEVARD, GEDDES, NEW YORK
SITE MANAGEMENT PLAN

SITE LOCATION MAP



FIGURE

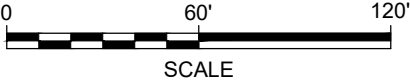
1



LEGEND

- MAESTRI SITE PROPERTY BOUNDARY
- 8' HIGH SECURITY FENCE
- ELECTRIC POLE
- OVERHEAD ELECTRIC LINE
- MONITORING WELL
- REMOVED MONITORING WELL
- RECOVERY WELL
- REMOVED RECOVERY WELL
- PIEZOMETER

- NOTES:
- BASE MAP SUPPLIED BY IT CORPORATION. SURVEY BY CT MALE, 2008.
 - FEATURES AND LOCATIONS ARE APPROXIMATE.



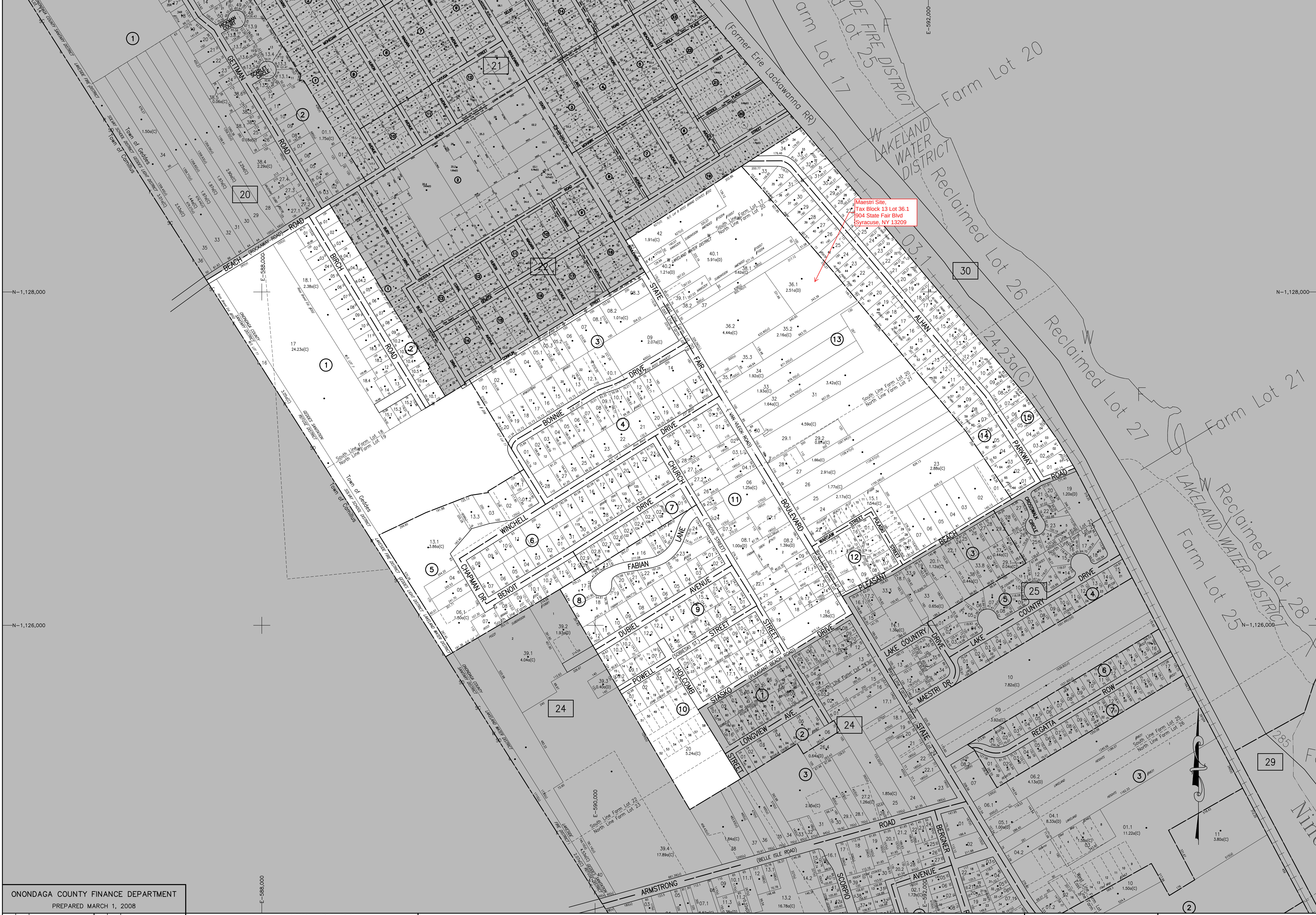
MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK
SITE MANAGEMENT PLAN

SITE PLAN



Appendix A

Tax Map, Metes and Bounds



ONONDAGA COUNTY FINANCE DEPARTMENT
PREPARED MARCH 1, 2008

DATE	BLOCK	REVISION	DATE	BLOCK	REVISION

SPECIAL DISTRICT INFORMATION		
FIRE	LAKEVIEW	
LIGHT	GEDDES	
REFUSE	GEDDES	
SANITATION	GEDDES	
SCHOOL	SOLVAY	
WATER	LAKEVIEW	

AGRICULTURAL DISTRICT LINE	— AG —	PARK DISTRICT LINE	— P —
AMBULANCE DISTRICT LINE	— A —	REFUSE DISTRICT LINE	— R —
DRAINAGE DISTRICT LINE	— D —	SANITARY DISTRICT LINE	— SD —
FIRE DISTRICT LINE	— F —	SCHOOL DISTRICT LINE	— SC —
HYDRANT DISTRICT LINE	— H —	SEWER DISTRICT LINE	— S —
LIGHTING DISTRICT LINE	— L —	WATER DISTRICT LINE	— W —

PROPERTY PARCEL LINE	— — — — —	CITY LINE	— — — — —
TOWN LINE	— — — — —	TOWN LINE	— — — — —
ROAD OR RAILROAD	— — — — —	VILLAGE LINE	— — — — —
RIGHT-OF-WAY LINE	— — — — —	BLOCK BOUNDARY	— — — — —
STREAM	— — — — —	STREAM AND PARCEL LINE	— — — — —
RAILROAD TRACK	— + — + —		

PARCEL NUMBER	24	BLOCK NUMBER	③
DEED AREA	(D)	DEED BLOCK NUMBER	③
CALCULATED AREA	(C)	PROPERTY CONNECTION SYMBOL	⑦
DEED DIMENSION	(D)	ADJACENT SECTION MAP	25
SCALED DIMENSION	(S)		
DEED LOT NUMBER	S		

SCALE : 1" = 200'
FOR TAXING PURPOSES ONLY
NOT TO BE USED FOR CONVEYANCE

SECTION MAP 23
TOWN OF GEDDES
ONONDAGA COUNTY, NY

TITLE NO.: 09NYONO11432

**SCHEDULE A
DESCRIPTION**

ALL that certain plot, piece or parcel of land, situate in the Town of Geddes, County of Onondaga and State of New York, known and distinguished as being part of Farm Lot Number Twenty (20) in said Town, bounded and described as follows:

BEGINNING at a point on the centerline of State Fair Boulevard (a/k/a Van Vleck Road) 455.34 feet southerly from the point of intersection of the northerly line of aforesaid Farm Lot Number 20 and the centerline of State Fair Boulevard and which beginning point is also 108.60 feet northerly from the point of intersection of the centerline of Bonnie Drive and the said centerline of State Fair Boulevard;

RUNNING THENCE southerly along said centerline of State Fair Boulevard 329.29 feet to a point;

THENCE easterly at an interior angle of 88 degrees 55 minutes 52 seconds along the northerly line of the premises conveyed by Lewis S. Hanreck to Patrick M. Pontello, Jr. and John E. Szczech by deed recorded in the Onondaga County Clerk's Office on June 8, 1987 in Book 3358 of Deeds at Page 60, 632.80 feet to a point;

THENCE northerly at an interior angle of 86 degrees 23 minutes 13 seconds 331.66 feet to a point;

THENCE westerly at an interior angle of 93 degrees 26 minutes 42 seconds along the southerly line of premises conveyed by Kathryn Ruzio to Philip Ryan and Patricia Ryan, his wife, by deed recorded in the Onondaga County Clerk's Office on July 2, 1973 in Book 2506 of Deeds at Page 111, 605.76 feet to the point and place of BEGINNING.

END OF SCHEDULE A

Appendix B

Aerial Map

Appendix B
AERIAL MAP
Maestri Site
904 State Fair Blvd,
Geddes, New York



Appendix C

Drawings

APPENDIX C

Drawings

- #001 Historically Excavated Areas
- #002 Groundwater Contour Map
- #003 Soils Prior to Remediation
- #004 Original Groundwater VOC Contamination Plume
- #005 Test Pit and Soil Boring Locations Near MW-9 from 2007
- #006 WWTP Process Flow Diagram
- #007 Final Post-Remediation Grade Survey
- #008 Air Monitoring Station Locations
- #009 Areas of Excavation

MWH H:\DIVISION\71\MAESTRI\03F.DWG SF: 50 8/14/95

FIGURE 001



LEGEND

- TREE LINE
- ACCESS ROAD
- MAESTRI SITE PROPERTY BOUNDARY
- FENCE
- 8' HIGH SECURITY FENCE
- MONITORING WELL
- RECOVERY WELL
- PIEZOMETER
- APPROXIMATE LIMITS OF 1987 EXCAVATION
- APPROXIMATE LIMITS OF 1990 EXCAVATION
- APPROXIMATE LIMITS OF 1993 EXCAVATION

BASIS OF DESIGN REPORT
MAESTRI SITE
GEDDES, NEW YORK

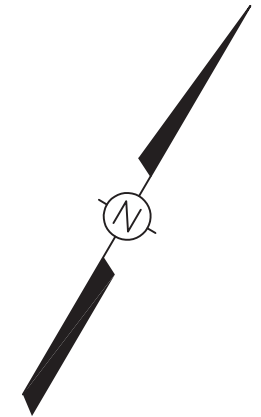
HISTORICALLY
EXCAVATED AREAS

0 50 100
APPROX. SCALE IN FEET
FILE NO. 5618.005-03F

O'BRIEN & GERE
ENGINEERS, INC.

IMAGE	X-REF	OFFICE	DRAWN BY	REVISED	APPROVED BY	DRAWING NUMBER
---	---	ALB	DEO 7-19-99	BH 08/10	---	
						MAY 10

MAY 2010



LEGEND

-  MONITORING WELL
 RECOVERY WELL
 PIEZOMETER
 MAESTRI SITE PROPERTY
 BOUNDARY
 8' HIGH SECURITY FENCE
 ELECTRIC POLE



CLIENT
STAUFFER
MANAGEMENT COMPANY
BASE MAP PROVIDED BY IT CORPORATION
SURVEY BY CT MALE

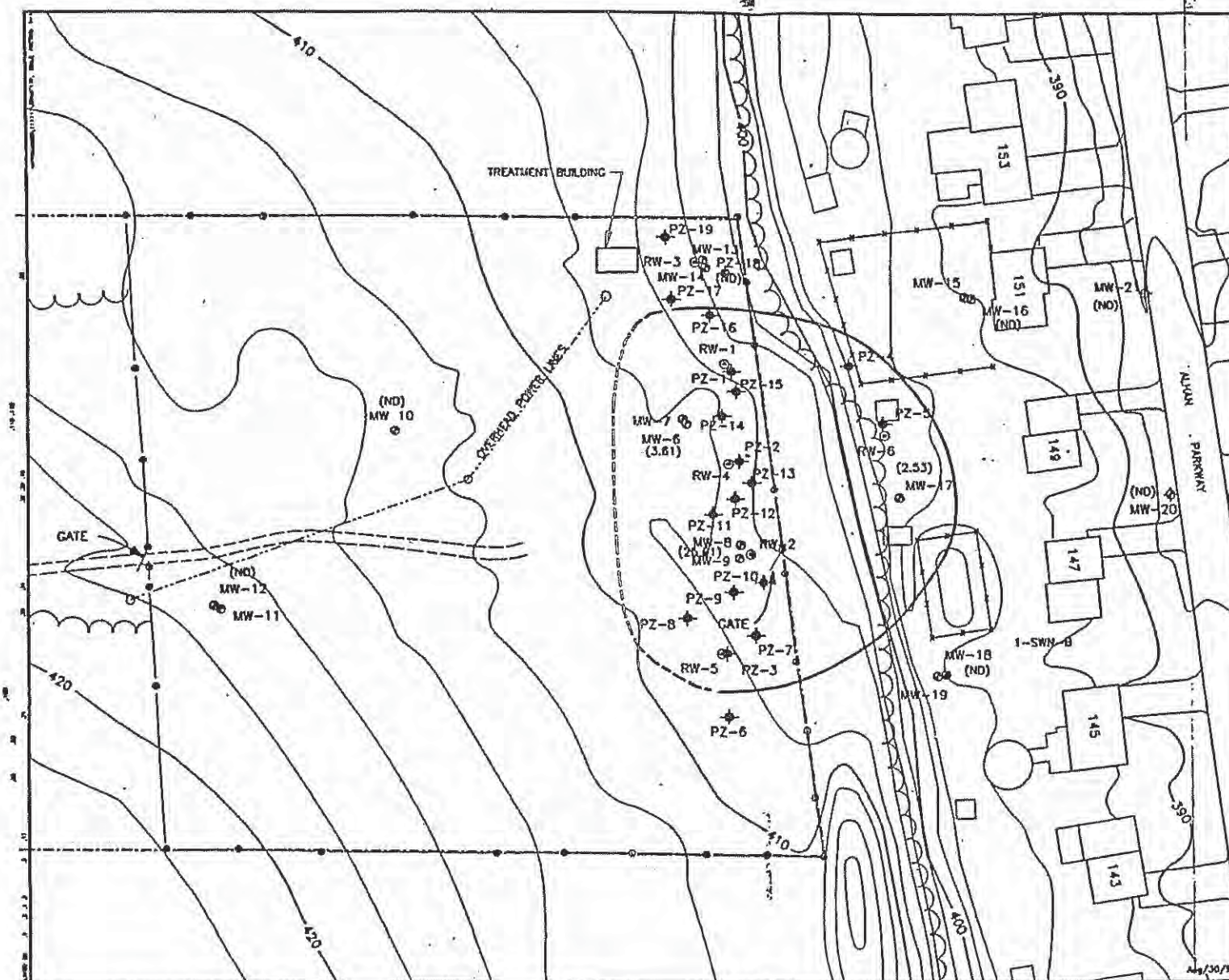
FIGURE 002
GROUNDWATER CONTOURS
WITH XYLENE CONCENTRATION SUMMARY
MAESTRI SITE—MAY 2010
904 STATE FAIR BLVD.
GEDDES, NEW YORK



FIGURE 004
FEASIBILITY STUDY

MAESTRI SITE
904 STATE FAIR BLVD.
TOWN OF GEDDES, NEW YORK

ORIGINAL GROUNDWATER VOC
CONTAMINATION PLUME



LEGEND

- TREE LINE
- - - ACCESS ROAD
- - - MAESTRI SITE PROPERTY BOUNDARY
- - - FENCE
- 8' HIGH SECURITY FENCE
- MONITORING WELLS
- ⊙ RECOVERY WELL
- ★ PIEZOMETER
- - - APPROXIMATE LIMITS OF VOLATILE ORGANIC COMPOUND GROUND WATER PLUME (DASHED WHERE INFERRED)
- (3.61) TOTAL VOC CONCENTRATION IN (ppm)

NOTE: EDGES OF VOC PLUME ARE BASED ON GROUND WATER SCREENING AND GROUND WATER MONITORING WELL SAMPLING RESULTS.

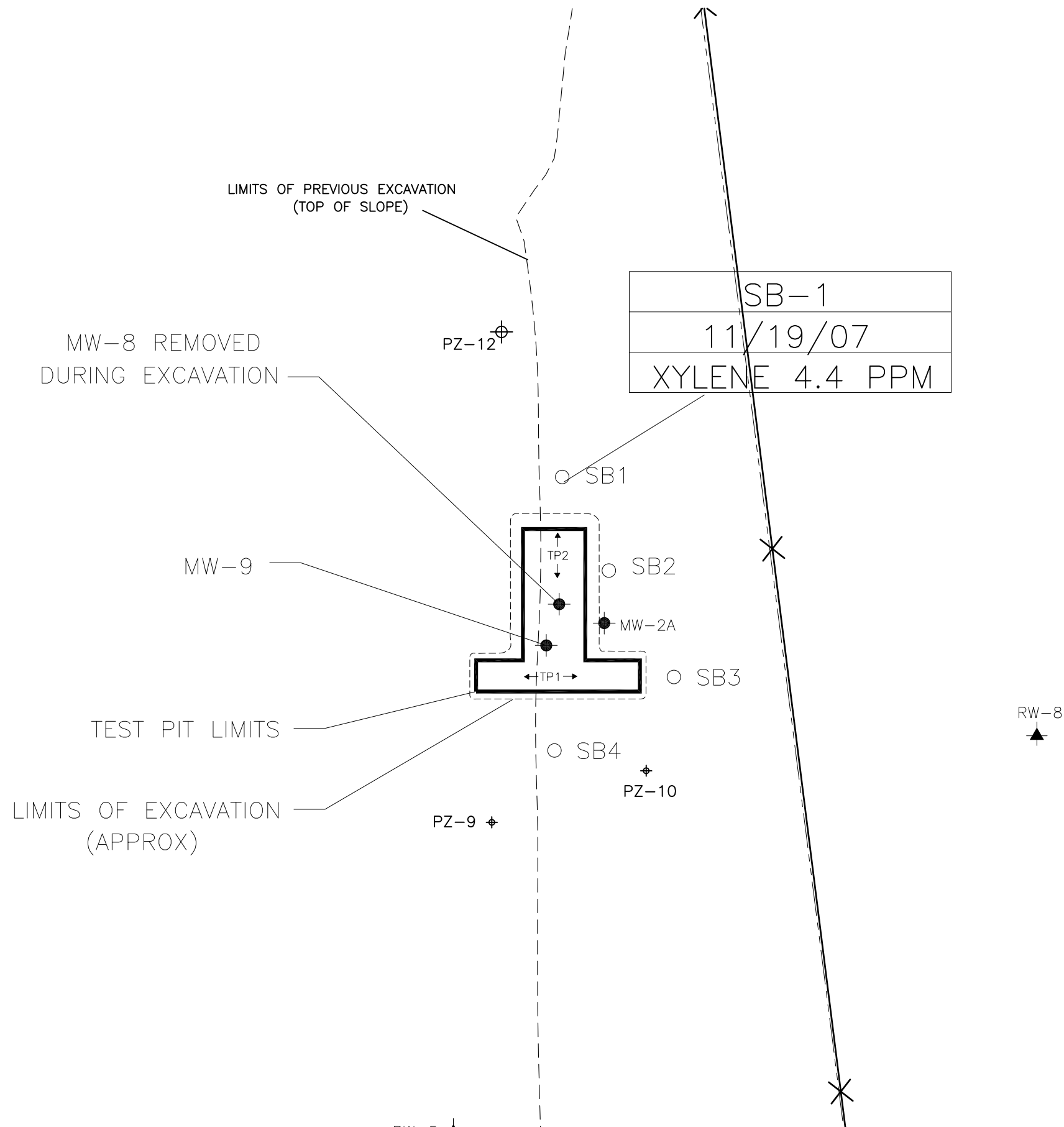


APPROX. SCALE IN FEET

0618.003-04F

G O'BRIEN & SORE
ENGINEERS, INC.

Aug/30/94



NOTE:
HARD PAN ENCOUNTERED DURING TEST PIT EXCAVATION AT APPROXIMATELY BETWEEN 8' -11' BGS. SOIL WAS EXCAVATED TO BEDROCK AT APPROXIMATELY 16' BGS BEYOND THE LATERAL LIMITS OF THE TEST PIT BELOW THE HARD PAN. SOILS REMOVED FROM THE TEST PITS AND FROM THE EXCAVATION BELOW THE HARD PAN WERE DISPOSED OF OFF-SITE.

LEGEND

- MONITORING WELL
- RECOVERY WELL
- PIEZOMETER
- MAESTRI SITE PROPERTY BOUNDARY
- 8' HIGH SECURITY FENCE
- ELECTRIC POLE
- SOIL BORING LOCATIONS

SPEC
CONSULTING, LLC 18 COMPUTER DRIVE WEST
ALBANY, NY 12205
PHONE: 518.438.6809
FAX: 518.438.6527

STAUFFER
MANAGEMENT COMPANY
BASE MAP PROVIDED BY IT CORPORATION

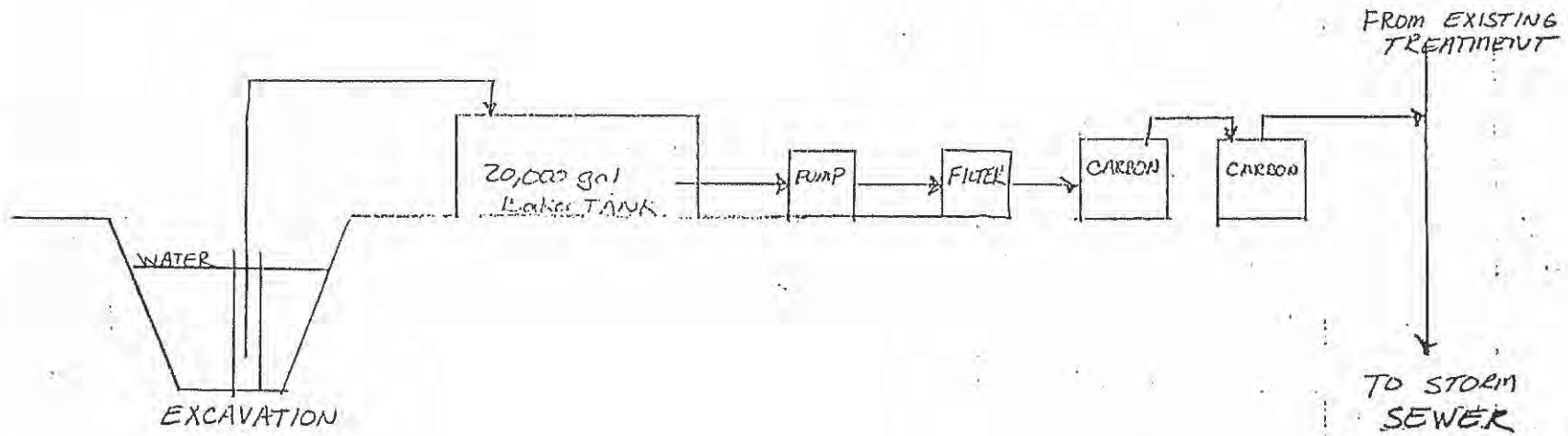
FIGURE 005
TEST PIT AND SOIL BORING
LOCATIONS NEAR MW-9 FROM 2007
MAESTRI SITE
904 STATE FAIR BLVD.
GEDDES, NEW YORK

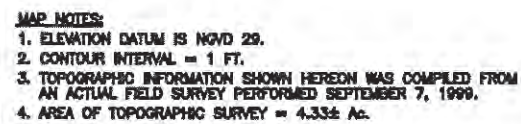
FIGURE 006

PROCESS FLOW DIAGRAM

MAESTRI SITE

TEMPORARY TREATMENT SYSTEM

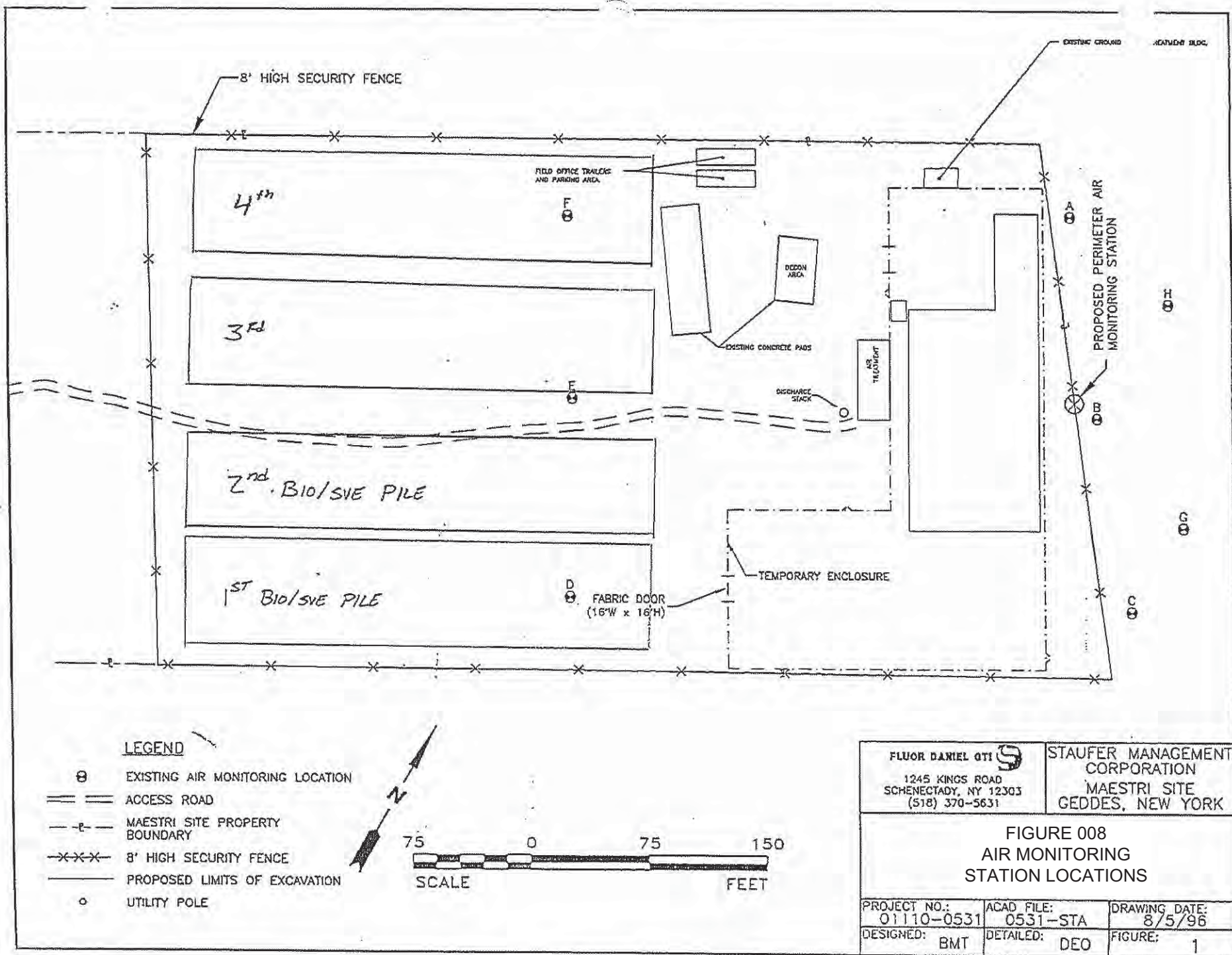


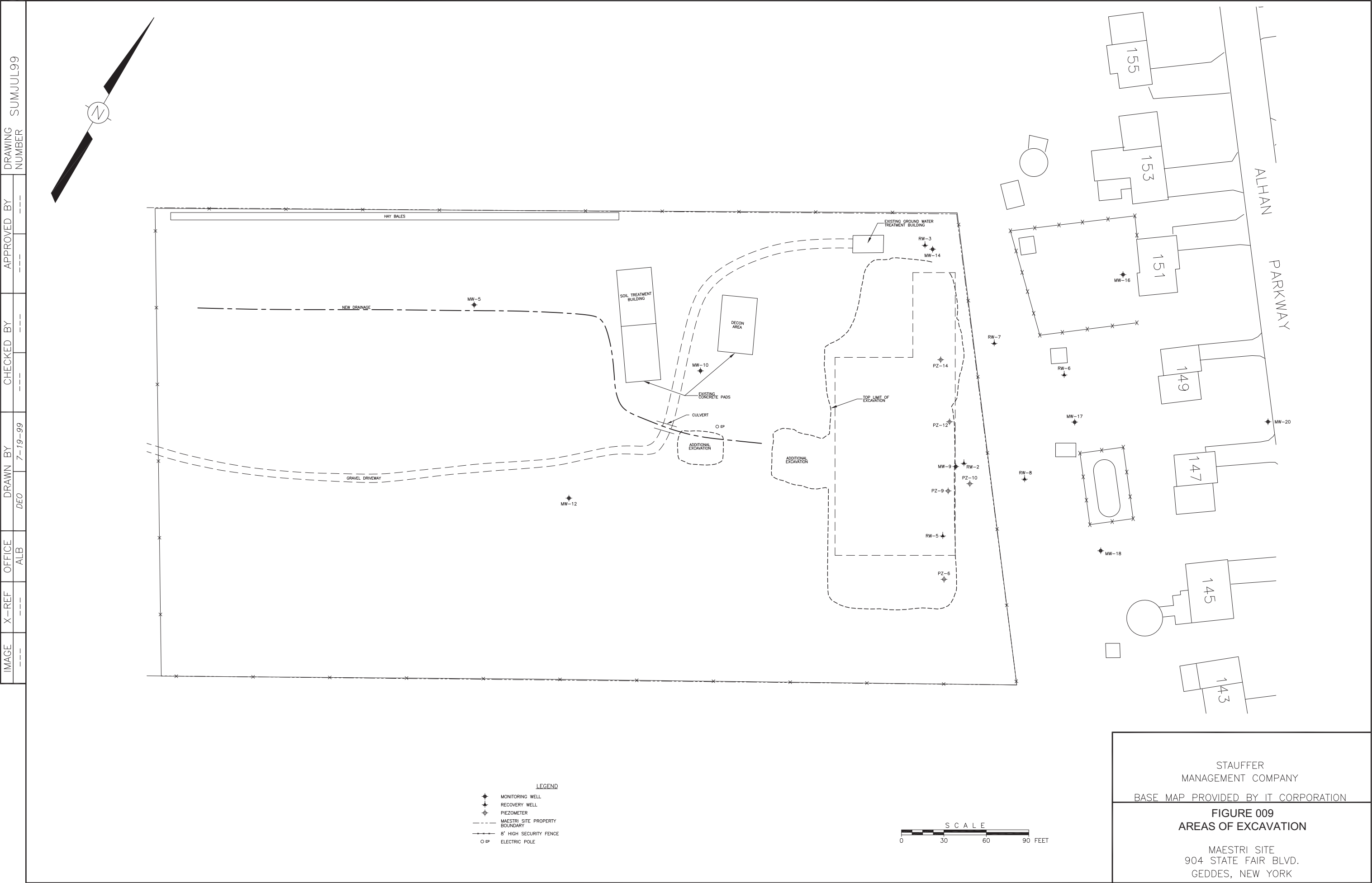


OGP — UTILITY POLE E/ OVERHEAD WIRE
 — GUY WIRE
 OGP — GASE POST
 MW-12 — MONITOR WELL
 RW-3 — RECOVERY WELL
 PZ-8 — PIZOMETER

"ONLY COPIES OF THIS MAP SIGNED IN RED INK AND EMBOSSED WITH THE SEAL OF AN OFFICER OF C.T. MALE ASSOCIATES, P.C. OR A DESIGNATED REPRESENTATIVE SHALL BE CONSIDERED TO BE A VALID TRUE COPY".

150.69 CRF DS-10	DAVID J. UHRENEC PLS #50052		DATE	REVISIONS RECORD/ DESCRIPTION	DRAFTER	CHECK	APPR.	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. © 1999 C.T. MALE ASSOCIATES P.C.	FIGURE 007 FINAL POST-REMEDIAATION GRADE SURVEY MAESTRI SITE 904 STATE FAIR BLVD. TOWN OF GEDDES, NY
		▲							
		▲							
		▲							
		▲							
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TOWN OF GEDDES								ONONDAGA COUNTY, NEW YORK	
PROJ. NO: 99.2102								C.T. MALE ASSOCIATES, P.C. 200 GATEWAY PARK DRIVE, BLDG. C, P.O. BOX 3246 NORTH SYRACUSE, NY 13212-3246 315.458.6498 • FAX 315.458.4427 ARCHITECTURE & BUILDING SYSTEMS ENGINEERING • CIVIL ENGINEERING ENVIRONMENTAL SERVICES • SURVEY & LAND INFORMATION SERVICES	
DESIGNED :									
DRAFTED : MRM									
CHECKED :									
								     	
								SCALE: 1" = 50'	
								SHEET 1 OF 1	
								DATE: 9/8/1999	
								DWG. NO: 99-406	





Appendix D

Record of Decision (ROD)

ZENECA

INTERNAL MEMORANDUM

DATE: March 31, 1995
FROM: J. A. MacARTHUR

TO: B. A. SPILLER

ZENECA Inc.
Wilmington, DE 19897 USA
ENVIRONMENTAL SERVICES
& OPERATIONS
Telephone: (302) 886-4257
Facsimile: (302) 886-5933
FILE: ENV-MAESTRI-GWS

cc: J. F. Peter*
L. W. Mette
F. R. McNeice
* - No Attachment

MAESTRI - REMEDIAL DESIGN

Attached for your files is the completed and signed Record of Decision for the Maestri Site. As outlined in the cover letter from Gary Kline this effectively "starts the clock" on our remedial activities. As noted in my previous memo due to the aggressive schedule on this project we should take the full 30 days allotted to respond in order to provide us enough time to complete the Remedial Design Work Plan.



Environmental Engineering Associate

8A - 033195A.MEM

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 Wolf Road, Albany, New York 12233



March 29, 1995

Mr. Frank R. McNeice
Zeneca Inc.
Environmental Services and Operations
Wilmington, Delaware 19897

Re: Maestri Site
Site #7-34-025
Onondaga County

RECEIVED

MAR 30 1995

Environmental & Operations
FILE: CC: TO:

Dear Mr. McNeice

Enclosed for your review are four (4) copies of the executed Record of Decision (ROD) for the Maestri Inactive Hazardous Waste Site. In accordance with the Order On Consent #A7-02226-90-03 Section XI, Stauffer Management within 30 days of its receipt of the ROD must notify this Department whether or not it elects to undertake the remedial actions identified in the ROD. Upon notification of its election to undertake the remedial actions, Section XII of the Order becomes operative and the ROD shall be incorporated into the Order and attached as Appendix "E".

Within 30 days after the ROD is incorporated into the Order, Stauffer is required to submit a Remedial Design Workplan (RD Workplan) outlining the implementation of the NYSDEC selected remedy. The RD Workplan shall include the elements specified in Section XII paragraph 2 of the Order.

We look forward to Stauffer's response and continuing progress on the Maestri Site. If you should have any questions concerning the above please contact me at (518) 457-5636.

Sincerely,

A handwritten signature in cursive script, reading "Gary E. Kline".

Gary E. Kline, P.E.
Maestri Project Manager
Div. of Hazardous Waste Rem.

cc: C. Branagh Reg 7
R. Heerkins DOH-Syr
J. McArthur Zeneca
J. Kelly, Esq Zeneca



Department of Environmental Conservation

Division of Hazardous Waste Remediation

Record of Decision

Maestri Site

Town of Geddes, Onondaga County

Site Number 7-34-025

March 1995

New York State Department of Environmental Conservation
GEORGE PATAKI, *Governor* MICHAEL ZAGATA, *Commissioner*

DECLARATION STATEMENT - RECORD OF DECISION

"Maestri" Inactive Hazardous Waste Site Onondaga County, New York Site No. 7-34-025

Statement of Purpose and Basis

The Record of Decision (ROD) presents the selected remedial action for the Maestri Inactive Hazardous Waste Disposal Site which was chosen in accordance with the New York State Environmental Conservation Law (ECL). The remedial program selected is not inconsistent with the National Oil and Hazardous Substances Pollution Contingency Plan of March 8, 1990 (40CFR300).

This decision is based upon the Administrative Record of the New York State Department of Environmental Conservation (NYSDEC) for the Maestri Inactive Hazardous Waste Site and upon public input to the Proposed Remedial Action Plan (PRAP) presented by the NYSDEC. A bibliography of the documents included as a part of the Administrative Record is included in Appendix B of the ROD.

Assessment of the Site

Actual or threatened release of hazardous waste constituents from this site, if not addressed by implementing the response action selected in this ROD, presents a current or potential threat to public health and the environment.

Description of Selected Remedy

Based upon the results of the Remedial Investigation/Feasibility Study (RI/FS) for the Maestri Site, and the criteria identified for evaluation of alternatives, the NYSDEC has selected excavation of soil contaminated with Xylene in excess of site cleanup levels followed by on-site treatment utilizing vacuum extraction supplemented by biological treatment. The components of the remedy are as follows:

1. A remedial design program to verify the conclusions of the conceptual design, and provide the details necessary for construction, operation, maintenance and monitoring of the remedial program.
2. Excavation and preparation for treatment of soils that contain contaminants in excess of soil cleanup objectives. This will involve an estimated 8,000 cubic yards of contaminated soil.

3. Treatment of the soil utilizing ex-situ piles that combines vapor extraction and biological degradation of organic contamination, and collection and treatment of air discharges from the soil treatment process.
4. Redeposition of treated soils on-site. Placement of 6 inches of clean top soil over the soil redeposition areas, site regrading, and restoration.
5. Continued operation of the on-site groundwater collection and treatment system with an evaluation annually until concentrations of site contaminants can no longer be effectively removed or cleanup objectives are met. Treatment is by carbon adsorption with discharge to a nearby storm sewer.
6. Monitoring of the soil treatment, water treatment, air discharges and groundwater to ensure compliance with clean up objectives.

New York State Department of Health Acceptance

The New York State Department of Health concurs with the remedy selected for this site as being protective of human health.

Declaration

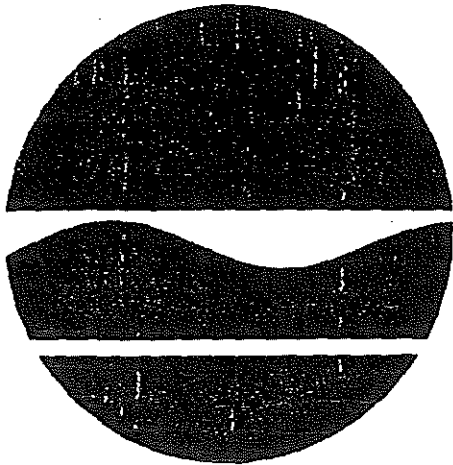
The selected remedy is protective of human health and the environment, complies with State and Federal requirements that are legally applicable or relevant and appropriate to the remedial action to the extent practicable, and is cost effective. This remedy utilizes permanent solutions and alternative treatment or resource recovery technologies, to the maximum extent practicable, and satisfies the preference for remedies that reduce toxicity, mobility, or volume as a principal element.

Date

3/23/95


Michael J. O'Toole, Jr.

Director, Division of Hazardous Waste Remediation



**NEW YORK STATE
DEPARTMENT OF**

**ENVIRONMENTAL
CONSERVATION**

**DIVISION OF HAZARDOUS
WASTE REMEDIATION**

RECORD OF DECISION

MAESTRI SITE

SITE #7-34-025

TOWN OF GEDDES, ONONDAGA COUNTY

March 1995

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RECORD OF DECISION

"MAESTRI SITE"

Town of Geddes, Onondaga County, New York

Site No. 7-34-025

MARCH 1994

SECTION 1: SITE LOCATION AND DESCRIPTION

The Maestri Site, located at 904 State Fair Boulevard in the Town of Geddes, Onondaga County, New York, is approximately 3 miles northwest of Syracuse, New York. A site location map is included as Figure 1. The site, depicted in Figure 2, is approximately 7 acres in area. Onondaga Lake, located 1500 ft. northeast of the site, is the nearest surface water body to the site. Topography of the site is characterized by gently sloping grades which fall to the northeast at slopes up to 5 percent. The site is bordered by State Fair Boulevard to the southwest and the residences along Alhan Parkway to the northeast. Vacant lots that border the site on the northwest and southeast are heavily wooded.

Presently a 2.8 acre portion of the site near Alhan Parkway is cleared and secured with an 8-ft high chained link fence and two locked gates. A gravel road extends from State Fair Boulevard to the secured portion of the site. A ground water treatment building, concrete pads, monitoring wells, recovery wells, piezometers, and former drum disposal areas at the site are indicated on Figure 3.

SECTION 2: SITE HISTORY

2.1 Operational/Disposal History

- * 1970's - Drums containing industrial waste materials allegedly generated by Stauffer Chemical Company were buried at the site.
- * 1987 - The site owner, Mr. Bert Maestri reportedly excavated soil and drums from an area of the site indicated on Figure 3. Following characterization by the New York State Department of Health (NYSDOH), the material was disposed of at an off site secure landfill.
- * 1987 - Samples collected by NYSDOH from a residential basement sump revealed the presence of contaminants from the site. Additional samples collected by NYSDOH from neighboring residential sumps indicated that only the original basement sump was impacted by the site.
- * 1987 - Malcolm Pirnie, Inc. conducted a limited site investigation on behalf of the Onondaga County Health Department (OCHD) to evaluate the environmental effects of the former waste disposal area.

- * 1987 - NYSDEC listed the site on the NYS Registry of Inactive Hazardous Waste Disposal Sites as site # 7-34-025.

2.2 Remedial History

- * October 1988 - NYSDEC and Stauffer Management Company (SMC) executed an Order on Consent for development and implementation of site Interim Remedial Measures (IRM).
- * June 1989 - Site investigations began, which included: soil vapor survey, geophysical survey, monitoring well installation, soil boring completion, air sampling, and sampling of surface soil, subsurface soil, and ground water. A magnetic anomaly discovered during the investigation was identified as buried drums.
- * December 1990 - SMC completed the first drum excavation. Approximately 100 drums are removed from the site
- * February 1991 - An indoor air monitoring program required by NYSDOH for selected residences located on Alban Parkway, downgradient of the site, was implemented by O'Brien & Gere Engineers on behalf of SMC
- * January 1992 - SMC submitted Basis of Design Report to NYSDEC for a ground water recovery and treatment system.
- * May 1992 - Operation of the ground water recovery and treatment system began.
- * September 1992 - SMC submitted a final report on the results of the field investigations and development of the site IRMs.
- * December 1992 - NYSDEC and SMC executed an Order on Consent for performance of a Focused Remedial Investigation/Feasibility Study (RI/FS).
- * December 1993 - Second drum removal occurs. Approximately 200 drums found during the focused RI, and containing industrial waste were excavated and disposed off site by SMC.
- * February 1994 - SMC submitted the Focused Remedial Investigation Report to NYSDEC.
- * September 1994 - SMC submitted the Maestri Site Feasibility Study to NYSDEC.

SECTION 3: CURRENT STATUS

Under terms of an Administrative Order on Consent with the NYSDEC, SMC initiated a Remedial Investigation/ Feasibility Study (RI/FS) in December 1992 to address the residual contamination at the site. Field work for the RI was completed in May 1993. The Focused RI Report was submitted by SMC in February 1994 and the report was approved in July 1994. A public meeting to present the results of the RI was held at the Geddes Town Offices on September 22, 1994. The site FS was submitted on September 24 1994. The Proposed Remedial Action Plan was subject to a public meeting on January 19, 1995.

3.1 Summary of the Remedial Investigation

The purpose of the RI was to define the nature and extent of any residual contamination resulting from previous drum disposal activities at the site.

The focused RI was conducted in a single phase. The field work was conducted between January 1993 and May 1993. A report entitled Maestri Site Focused Remedial Investigation has been prepared describing the field activities and findings of the RI in detail. A summary of the RI follows.

The RI activities consisted of the following tasks completed in accordance with the approved RI Workplan:

- 1) *An on-site passive soil vapor survey to detect potential areas of subsurface soil contamination was conducted.*
- 2) *Two geophysical surveys were conducted, originally one in the area of the soil vapor survey and a second confirmatory survey over the remainder of the site after the detection of an anomaly in the soil vapor area.*
- 3) *12 on-site test pits, located based on the soil vapor and geophysical survey results*
- 4) *Installation of 4 soil borings*
- 5) *On-site and off-site groundwater quality screening, consisting of sampling points GW-1 through GW-16, was performed to evaluate the horizontal extent of groundwater contamination downgradient of the site.*
- 6) *Installation and hydraulic conductivity testing of 2 additional off-site ground water monitoring wells.*
- 7) *Collection and chemical analysis of 18 groundwater samples for site specific parameters.*
- 8) *Completion of a human health risk assessment.*
- 9) *Summary of all RI results, previous investigations, and remedial work performed during the IRM's, including the performance of the groundwater recovery and treatment system, in a Focused RI Report.*
- 10) *A Fish and Wildlife Survey was conducted at the site and documented in the Fish and Wildlife Impact Analysis Report dated July 1994.*

The analytical data obtained from the RI was compared to applicable Standards, Criteria, and Guidance (SCGs) in determining remedial alternatives. Groundwater, drinking water and surface water SCGs identified for the Maestri Site were based on NYSDEC Ambient Water Quality Standards and Guidance Values and on Part V of the NYS Sanitary Code. For the evaluation and interpretation of soil and sediment analytical results, NYSDEC soil cleanup guidelines for the protection of groundwater, and background conditions were used to develop remediation goals for soil.

Based upon the comparison of results of the remedial investigation to the SCGs and evaluation of potential public health and environmental exposures, certain areas and media of the site require remediation.

During the course of the site investigation conducted under the initial IRM (1988) Order with SMC, sufficient data was collected to establish that there are no remaining significant impacts to the site surface soils, surface water, ambient air, or residential indoor air quality resulting from the former drum disposal activities at the site. As a result the RI was focused to delineate the extent of the off site groundwater plume and to determine the vertical and horizontal extent of subsurface soils containing site contaminants in excess of cleanup goals.

Soil sample analytical results indicate the presence of site related contaminants in subsurface soils near the former drum disposal areas (Figure 4). Organic contaminants, predominantly xylene, were detected in the subsurface soils down to the water table (approx. 11 ft. below grade). Xylene concentrations ranged to a high of 7000 parts per million (PPM) in site subsurface soils. Other contaminants detected on site include toluene, ethylbenzene, tetrachloroethene, 2-methylphenol, 2,4-dimethylphenol, and benzoic acid. Concentrations of these contaminants are substantially lower than that of xylene (Table #1).

Results of the groundwater investigations indicate the presence of site related contaminants in the shallow overburden groundwater. Movement of the shallow groundwater is in a northeasterly direction placing the homes on Alhan Parkway in the path of the off-site plume. However, all local residences are on public water, and no current or anticipated future uses of groundwater exist in the vicinity of the site. The principal organic contaminant detected in the shallow groundwater was xylene. Concentrations in excess of 30 ppm have been detected in monitoring wells on site immediately down gradient of the former drum disposal areas. No site related contaminants were detected in the bedrock groundwater. Figure 5 delineates the lateral extent of the volatile organic compound groundwater plume. Based on the results of the groundwater screening the existing groundwater recovery and treatment system installed as an IRM and in operation since May 1992 appears to have controlled the migration of the plume.

3.2 Interim Remedial Measures:

Interim Remedial Measures (IRMs) were conducted at the site based on findings as the RI progressed. An IRM is implemented when a source of contamination or exposure pathway can be effectively addressed before completion of the RI/FS.

As previously mentioned an additional cache of buried drums was discovered during the course of the focused RI. To expedite the removal of this additional source of site contaminants an IRM workplan was prepared for removal of the buried drums. The excavation was conducted in November and December 1993 and resulted in removal of 200+ additional drums. Similar to the 1990 removal, most of the 1993 drums were emptied and crushed but a few of the remaining drums did contain liquid waste. The drums were cut, cleaned and stacked on a retaining platform on-site before being disposed off-site. The liquid waste was combined and disposed off-site at a commercial treatment facility. Confirmatory samples were taken from the bottom and side walls of the excavation prior to backfilling with clean soil. Excavated soils were staged on site in covered roll-offs prior to off-site disposal.

The groundwater recovery system installed in 1992 consist of six (6) pumping wells, five on-site and one off-site (Fig.3). The wells pump contaminated groundwater to the on-site treatment system. This system treats the water utilizing activated carbon prior to discharge to a nearby storm sewer. A monitoring network of over twenty (20) monitoring wells and piezometers is also in place. Water level data and groundwater quality sampling is conducted weekly. Results since the system was put in place indicate that the organic groundwater plume has been controlled by the operation of the recovery system.

3.3 Summary of Human Exposure Pathways:

A human health risk assessment was conducted during the focused RI to evaluate current and potential future health risks associated with the site. Under current conditions with restricted site access and with the groundwater recovery and treatment system operating, there are no complete exposure pathways, and the site does not pose an unacceptable risk to human health. Two receptor groups were identified under the future on-site unrestricted residential use scenario. Adult and child residents under this scenario would have complete exposure pathways for soil contact, soil ingestion, indoor vapor inhalation, and ingestion of fruits and vegetables from on-site gardening. The USEPA guidelines for hazard indices and or excess cancer risk are both exceeded for the combined impacts of the four on-site exposure pathways.

3.4 Summary of Environmental Exposure Pathways:

As part of the focused RI a Fish and Wildlife Impact Analysis (FWIA) was conducted for the Maestri Site. The FWIA was conducted in accordance with the NYSDEC Division of Fish and Wildlife's document entitled Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites (1991). Specifically, Step I - Site Description and Step IIA - Contaminant-Specific Impact Analysis, Pathway Analysis of the NYSDEC document are addressed in the report.

The FWIA concluded that the majority of the terrestrial portion of the study area is highly developed, resulting in limited biological community composition. Although complete exposure pathways were identified on-site for small mammals, such as the woodchuck, and seed/fruit eating birds, these species are expected to use the site minimally because of the poor habitat in adjacent areas. Therefore any impacts from site related contaminants to wildlife on-site are expected to also be minimal.

Downgradient surface waters (Onondaga Lake) and wetlands present in the FWIA study area are not affected by site related contaminants because migration of the contaminants is prevented by the groundwater recovery and treatment system and no other migration pathways have been identified. Therefore, off-site impacts to fish, wildlife and resources are not expected.

SECTION 4: ENFORCEMENT STATUS

The NYSDEC and the Stauffer Management Company (SMC) entered into a Consent Order on December 16, 1992. The Order obligates the responsible party to implement a full remedial program. Upon issuance of the Record of Decision, SMC has 30 days to notify the NYSDEC that it will implement the selected remedy under provisions of the existing Order on Consent.

The following is the chronological enforcement history of this site.

<u>Date</u>	<u>Index No.</u>	<u>Subject of Order</u>
8/31/88	A7-0139-88-01	IRM Order
12/16/92	A7-0226-90-03	Remedial Program
11/15/93	A7-0226-90-03	Mod.(Drum Removal)

SECTION 5: SUMMARY OF THE REMEDIATION GOALS

Goals for the remedial program have been established through the remedy selection process stated in 6NYCRR 375-1.10. These goals are established under the guideline of meeting all Standards, Criteria, and Guidance (SCGs) and protecting human health and the environment.

At a minimum, the remedy selected should eliminate or mitigate all significant threats to the public health and to the environment presented by the hazardous waste disposed at the site through the proper application of scientific and engineering principles.

The goals selected for this site are:

- *Reduce, control, or eliminate the contamination present within the soils on site.*
- *Eliminate the potential for direct human or animal contact with the contaminated soils on site.*
- *Prevent, to the extent possible, migration of contaminants in on-site soils to groundwater.*
- *Provide for attainment of SCGs for groundwater quality at the limits of the existing site boundary.*
- *Minimize to the maximum extent practicable long-term restrictions to future site usage*

SECTION 6: SUMMARY OF THE EVALUATION OF ALTERNATIVES

Potential remedial alternatives for the Maestri Site were identified, and evaluated in the report entitled "Feasibility Study - Maestri Site; Geddes, N.Y." prepared by O'Brien & Gere Engineers for SMC. The process for development of alternatives includes the development of remedial action objectives, development of general response actions, identification of volumes or areas of contaminated media, identification and screening of remedial technologies and process options, and the assembly of remedial alternatives. Seven remedial alternatives were developed to address the remedial action objectives. The preliminary screening of alternatives step was not performed in the FS because the number of identified alternatives was a manageable number for detailed analysis. The number of alternatives given consideration and evaluated in the PRAP has been further reduced by NYSDEC to three (3) as presented herein.

Fencing, groundwater recovery and treatment, and groundwater monitoring are common components of each remedial alternative for the site. The current ground water system will continue to operate as part of each remedial alternative. There is currently a fence around the site to restrict human access to the site. The fence will be maintained until completion of the site remediation. Monitoring wells that have previously been installed will continue to be used to track contaminant concentrations in site ground water.

Therefore, the assembly of process options and remedial alternatives has focused on the approximately 8,000 cubic yards of contaminated subsurface soils surrounding the former drum disposal and excavation areas on site (Figure 4). A summary of the detailed analysis follows.

6.1 Description of Alternatives

The potential remedies are intended to address the contaminated soils at the site. Approximately 8000 cubic yards of soil from an estimated area of 100 ft. x 200 ft. on-site require remediation. The predominant soil contaminant is xylene, detected in on-site soils at a concentration of up to approximately 7,000 parts per million (ppm).

Xylene concentrations have driven the selection of remedial technologies and alternatives. The NYSDEC has established a cleanup goal of 1.2 ppm for xylene in site soils. The cleanup goal is based on a particular contaminant's ability to partition off soils into groundwater. For xylene the 1.2 ppm soil level would result in concentrations in groundwater less than the 5 parts per billion (ppb) ground water standard. Due to xylene's predominance each remedial technology and alternative was initially evaluated for its ability to treat xylene to cleanup levels. The technologies evaluated for xylene may also be applicable to other site contaminants, and given the disproportion of low concentrations of other contaminants in soil to the high levels of xylene, there is a strong likelihood that the other volatile contaminants would be rendered non-detectable after treatment. This would be verified by sampling for all site contaminants at the limits of the soil excavation and prior to redeposition of treated soil.

No Further Action Alternative #1

The no further action alternative was evaluated as a procedural requirement and as a basis for comparison. This alternative recognizes the remedial work already completed under the previously performed IRMs. Continued operation of the groundwater system, implementation of a groundwater monitoring program, fencing, and recommended site deed restrictions, would be included in the no further action alternative.

This is an unacceptable alternative as the site would remain in its present condition, and human health and the environment would not be adequately protected. Site access and potential use would continue to be restricted. Site soils would continue to be a source of ground water contamination though the off-site impacts are minimized by the operation of the ground water system.

Present Worth:	\$ 1,590,000
Capital Cost:	\$ 20,000
Annual O&M:	\$ 100,000
Time to Implement	30 years

In Situ Soil Vapor Extraction Alternative #2

A series of wells would be installed in the soil to lower the water table and to draw air containing site related organic contaminants from the impacted soils. Since the contamination extends below the water table to an estimated depth of 14 ft. the area would need to be dewatered to allow the passage of air through the full extent of contamination.

The Soil Vapor Extraction (SVE) vacuum unit would draw air through the soil. The air in turn would strip the VOCs from the soil and transport the contaminants to the SVE extraction wells. The off gas from the SVE extraction wells would be directed through a treatment unit such as a carbon adsorption unit. The SVE

vacuum unit would also serve to promote bioventing in the soil. As air is pulled through the soil, oxygen availability to microorganisms would increase, thus enhancing the effectiveness of biodegradation of semi-volatile organics (those site contaminants whose vapor pressure would not be amenable to vapor extraction).

Present Worth: \$1,770,000
Capital Cost: \$ 710,000
Annual O&M: \$ 150,000
Est. Time To Implement 10 years

Ex Situ Biological Treatment/Ex Situ Soil Vapor Extraction Alternative #3

This alternative includes excavation of all on-site soils with contaminant concentrations in excess of site cleanup goals, on-site ex situ biological/vapor extraction treatment, and replacement of the treated soils. The soil vapor extraction component would address the volatile (VOC) fraction of the site contaminants and the biological enhancement would treat the semi-volatile organic contaminant (SVOC) fraction. Excavated soils would likely require blending and screening inside a controlled process enclosure prior to placement in windrow piles approximately 20 ft. wide and 8 ft. high. The soil piles would be underlined and covered with a flexible membrane to promote proper drainage.

In order to maintain the proper bioreactive environment, three additives to the soil piles would be provided: oxygen, water, and nutrients. Perforated piping would be placed horizontally within the piles to allow for circulation of oxygen. Provisions would be made to add moisture and nutrients to the pile as needed. A vacuum would be used to actively extract organic vapors from the pile. Drawing air through the soil and controlling moisture content and nutrients would promote biodegradation activity of site contaminants. Off gases from both the soil handling enclosure and the vapor extraction process would require treatment prior to discharge.

Treated soil would be redeposited on site and covered with a minimum of six (6) inches of clean soil. The site will then be regraded and restored, and the site fence removed.

Present Worth: \$1,570,000
Capital Cost: \$1,200,000
Annual O&M: \$ 150,000
Est. Time To Implement 5 Years

6.2 Evaluation of Remedial Alternatives

The criteria used to compare the potential remedial alternatives are defined in the regulation that directs the remediation of inactive hazardous waste sites in New York State (6NYCRR Part 375). For each of the criteria, a brief description is provided followed by an evaluation of the alternatives against that criterion. A detailed discussion of the evaluation criteria and comparative analysis is contained in the Feasibility Study.

1. Compliance with New York State Standards, Criteria, and Guidance (SCGs). Compliance with SCGs addresses whether or not a remedy will meet applicable environmental laws, regulations, standards, and guidance.

Alternative #1, through natural attenuation and operating the existing ground water system over many years, may provide for attainment of NYS Class GA ground water standards for the off site groundwater plume. The alternative would not comply with NYSDEC recommended soil cleanup levels for organic contaminants.

Alternative #2 would provide for attainment of ground water standards and is expected to meet cleanup levels for Volatile Organic Contaminants (VOC) in soils over a 7-10 year period. In situ biodegradation of Semi-Volatile Organic Contaminants (SVOC) to levels meeting soil cleanup levels is uncertain for this site due to difficulties in providing sufficient oxygen and nutrients to the heterogeneous soils.

Alternative #3 would provide attainment of both Class GA ground water standards as well as on- site soil cleanup goals for both VOCs and SVOCs in a 3-5 years after the soil cleanup is completed.

2. Protection of Human Health and the Environment. This criterion is an overall evaluation of the health and environmental impacts to assess whether each alternative is protective.

Alternative #1 would be protective of human health and the environment through site use restrictions and fencing that would restrict access and potential for contact. This Alternative would provide for continued control of the groundwater plume, but does not reduce contaminants in soil from migrating to the groundwater. The risks associated with unrestricted use would remain in excess of USEPA guidelines. However, the existing conditions currently pose little potential risk to the environment.

Alternative #2 may reduce concentrations to levels which do not present unacceptable risk to human health. However, the timeframe to attain clean up levels is uncertain and some residual contamination would remain. Site fencing would be maintained throughout the remediation. Alternative #2 does not pose unacceptable risk to the environment.

Alternative #3 would reduce the risks to human health for all exposure scenarios. Concentrations of all contaminants of concern would be reduced to levels which may support future use. The time frame to attain the target clean up levels for groundwater is estimated as 3-5 years after soil cleanup. Site fencing would be maintained throughout the remediation. Following remediation the fence could be removed because access restrictions would no longer be necessary. The alternative does not pose unacceptable risk to the environment.

3. Short Term Effectiveness. The potential short-term adverse impacts of the remedial action upon the community, the workers, and the environment during the construction and implementation are evaluated. The length of time needed to achieve the remedial objectives is also estimated and compared with the other alternatives.

Alternative #1 involves no further remedial action other than (O&M) and monitoring. Workers performing O&M are required to wear personal protective equipment to minimize potential hazards during sampling and maintenance activities. There are no additional short-term impacts to the local community or the environment.

Alternative #2 involves a small amount of soil disturbance. As such there is a limited potential for short-term contact with soils and ground water containing contaminants during installation of the vapor extraction system. Workers would be required to wear personal protective equipment and adhere to safe construction practices

to minimize potential hazards. A network of air monitoring would be set up to ensure community protection. It is expected that the cleanup of both soils and ground water would take 7-10 years.

Alternative #3 involves excavation and handling of contaminated soils. As such, the potential for worker exposure is high. Workers would be required to wear personal protective equipment and adhere to safe construction practices to minimize potential hazards. Potential community exposure to vapors would need to be carefully addressed. An air monitoring network would be set up to ensure community protection from release of both particulate (dust) and VOC's. During design an evaluation would be made as to the feasibility to house the excavation and/or the soil processing and piles. It is estimated that the cleanup of soils would take 1-2 years and groundwater would take 3-5 years thereafter.

4. Long-term Effectiveness and Permanence.

This criterion evaluates the long-term effectiveness of alternatives after implementation of the response actions. If wastes or treated residuals remain on site after the selected remedy has been implemented, the following items are evaluated: 1) the magnitude of the remaining risks; 2) the adequacy of the controls intended to limit the risk; and 3) the reliability of these controls.

Alternative #1 provides for deed restrictions and site access restrictions that minimize the magnitude of the residual risks to site contaminants. Risks associated with off-site migration of contaminated ground water would continue to be mitigated. The existing ground water system is adequate and reliable for collecting and remediating ground water with site contaminants. Potential risks to on-site users would remain.

Alternative #2 has uncertainties whether the in situ soil vapor extraction could minimize risks associated with potential residential use scenario, due to dense tight soils limiting the treatment capability for semi-volatiles. The site conditions create effectiveness and reliability uncertainties. The existing fencing is adequate and reliable for restricting site access, and the existing ground water system is adequate and reliable for collecting and remediating ground water with site contaminants.

Alternative #3 would effectively minimize risks associated with the potential future residential scenario. Risks associated with the off-site migration of ground water continue to be mitigated. Excavation and ex situ biological/vapor extraction treatment of site soils are expected to be adequate and reliable. Existing fencing is reliable in restricting access during remediation. The existing groundwater system is adequate and reliable for collecting and remediating groundwater containing site related contaminants.

5. Reduction of Toxicity, Mobility or Volume. Preference is given to alternatives that permanently and significantly reduce the toxicity, mobility or volume of the wastes at the site.

Alternative #1. The current ground water system would continue to reduce the toxicity, mobility, and volume of site related contaminants in ground water. Reduction of contaminants in site soils above the water table through natural attenuation would be minimal.

Alternative #2. In situ vapor extraction treatment would likely reduce toxicity and mobility of organic contaminants in soils. Both the timeframe and overall ability to reduce toxicity and mobility of VOCs and SVOCs to cleanup levels is uncertain due to dense site soils. The current ground water system would continue to reduce the toxicity, mobility and volume of site related contaminants in ground water. The soil vapor extraction and groundwater treatment systems would be irreversible.

Alternative #3. Ex situ vapor extraction/biological treatment within a soil pile would reduce toxicity, mobility and volume of VOC and SVOC contamination in site soils to target clean up levels. The current groundwater system will continue to reduce the toxicity, mobility, and volume of site related contamination in groundwater. The ex situ vapor extraction/biological soil, and ground- water treatment systems would both be irreversible.

6. Implementability. The technical and administrative feasibility of implementing each alternative is evaluated. Technically, this includes the difficulties associated with the construction, the reliability of the technology, and the ability to monitor the effectiveness of the remedy. Administratively, the availability of the necessary personnel and material is evaluated along with potential difficulties in obtaining specific operating approvals, access for construction, etc.

Alternative #1 continues the current ground water remedial system and is easily implemented. The existing discharge limits remain in effect. Existing monitoring wells would continue to be used to evaluate the effectiveness of the system. Long term site restrictions and access agreements are required between the site owner and Responsible Party.

Alternative #2, the in-situ vapor extraction system is readily available technology and easily installed. The reliability of the technology is limited by the nature of the contaminants and by the site's low permeability and heterogeneous nature of the soils. The effectiveness of the remedy could be easily monitored by implementation of a general site monitoring program as presented in the FS. Influent and effluent monitoring of the vapor extraction and ground water systems would be required. Substantive compliance with air and water discharge limits would also be required. Coordination and access agreements with the site owner may be necessary to allow operation and maintenance of the treatment systems.

Alternative #3 would include excavation of soils to an approximate depth of 15 feet, which is well within the limits of standard practice and construction equipment. Soils would be excavated, treated in piles, and backfilled into the excavation areas. Appropriate measures would be taken to ensure that the backfilled soils would not come in contact with contaminated soil or groundwater. Groundwater infiltrating into the excavation would be collected and treated. The effectiveness of the remedy is easily monitored by implementation of a general site monitoring plan as presented in the FS. Confirmatory samples from the side walls and bottom of the excavation would determine the limits of the excavation. Influent and effluent monitoring of the ground water and soil treatment systems would be required. Substantive compliance with air and water discharge limits would also be required. Coordination and access agreements with the site owner may be necessary to allow operation and maintenance of the treatment systems.

7. Cost. Capital and operation and maintenance costs are estimated for each alternative and compared on a present worth basis. Although cost is the last balancing criterion evaluated, where two or more alternatives have met the requirements of the remaining criteria, cost effectiveness can be used as the basis for the final decision. The costs for each alternative are presented in Table 2.

8. Community Acceptance - Concerns of the community regarding the RI/FS reports and the Proposed Remedial Action Plan have been evaluated. The NYSDEC and NYSDOH conducted a public meeting regarding the PRAP on January 19, 1995. There were no public objections to the proposed remedy made at the meeting. In general the public was in strong support of the permanent treatment aspect of the remedy. Concerns raised during the meeting focused on the implementation details of the excavation component and how that may affect adjacent homeowners. The NYSDEC accepted written comments on the PRAP though February 11, 1995. One set of written comments was received from the homeowners on Alhan Parkway that

about the site. A "Responsiveness Summary" was prepared that addresses the public comments received and briefly describe what measures could be taken during remediation to address the concerns raised. The Responsiveness Summary is included herein as Appendix A. The final remedy selected does not differ significantly from the proposed remedy.

SECTION 7: SUMMARY OF THE SELECTED REMEDY

Based upon the results of the RI/FS, and the evaluation presented in Section 6, the NYSDEC has selected Alternative #3 as the remedy for this site.

This selection is based upon an evaluation of the two threshold criteria and five balancing criteria as presented in Section 6. Alternatives #1 & #2 are not fully protective of human health and the environment under the unrestricted use scenario. Alternative #2 has difficulties in meeting soil clean up objectives particularly for SVOC contamination, and the timeframe for operating the system is uncertain due to site soil conditions. Alternative #3 is effective in meeting site cleanup objectives, and protective in the long term. Short term impacts would be a potential concern but could readily be mitigated through proper controls on excavation, air monitoring, and the use of personal protective equipment for site workers. Alternative #3 uses readily implementable technology that minimizes the timeframe for remedial action objectives. Alternative #3 will result in greater than 95% reduction of all site contamination contained in both ground water and soils. Though higher in initial capital expenditures Alternative #3 is cost effective in that the time required to operate and then monitor the site is substantially less than for Alternatives #1 & #2. Alternative #3 provides the added benefit of allowing future site use with minimal restriction once all remedial activities are completed.

The estimated present worth cost to implement the proposed remedy is \$1.57 million. The cost to construct this remedy is \$1.20 million and the annual operation and maintenance cost for the 3-5 year operating period is \$150,000/yr.

7.1 The Elements Of The Selected Remedy Are As Follows:

1. A remedial design program to verify the conclusions of the conceptual design, and provide the details necessary for construction, operation, maintenance and monitoring of the remedial program.
2. Excavation and preparation for treatment of soils that contain contaminants in excess of soil cleanup objectives. This would involve an estimated 8,000 cubic yards of contaminated soil.
3. Treatment of the soil utilizing ex-situ piles that combines vapor extraction and biological degradation of organic contamination, and collection and treatment of air discharges from the soil treatment process.
4. Redeposition of treated soils on site. Placement of 6 inches of clean top soil over the soil redeposition areas, site regrading, and restoration.
5. Continued operation of the on-site groundwater collection and treatment system with an evaluation annually until concentrations of site contaminants can no longer be effectively removed or cleanup objectives are met. Treatment will be by carbon adsorption with discharge to a nearby storm sewer.
6. Monitoring of the soil treatment, water treatment, air discharges and groundwater to ensure compliance with clean up objectives.

2 Documentation of Significant Changes

There are no significant changes from the Proposed Remedial Action Plan.

SECTION 8: HIGHLIGHTS OF COMMUNITY PARTICIPATION

Document repositories were established at the following locations for public review of project related material:

* Geddes Town Hall Woods Road Solvay, N.Y.	*NYSDEC 50 Wolf Road Albany, N.Y. 12233-7010 Attn: Mr. Gary Kline, P.E.	*NYSDEC Region 7 Office 615 Erie Boulevard West Syracuse, N.Y. 13204 Attn: Mr. Charles Branagh, P.E.
--	--	---

The following citizens participation activities were conducted:

- Fact Sheet, September 1994; Described results from RI activities and identified document repositories.
- Public meeting held September 22, 1994; Presented results of the RI and accepted public inquiry.

Fact Sheet, December 1994; summarized PRAP and announced public meeting on same.

- Public Meeting held January 19, 1995; Presented results of the FS and PRAP for public comment.
- Public Comment period open from December 29, 1994 through February 11, 1995 to receive comments on the PRAP.

Table 1
SUMMARY OF CONTAMINANTS IN SOIL

Focused Remedial Investigation
Maestri Site
904 State Fair Blvd.
Town of Geddes, NY

Compound	Average Soil Concentration (mg/kg)	Upper Bound Soil Concentration (mg/kg)
PCE	28.4	156
Toluene	7.7	45.3
Ethylbenzene	2.2	11.7
Xylene	1360	7070
2-Methylphenol	1	3.7
2,4-Dimethylphenol	2.3	14.7
Benzoic Acid	12.8	71.5

TABLE 2
COST ESTIMATES FOR REMEDIAL ALTERNATIVES
MAESTRI SITE
SITE # 7-34-025
NOVEMBER 1994

ALTERNATIVE #1-NO FURTHER ACTION

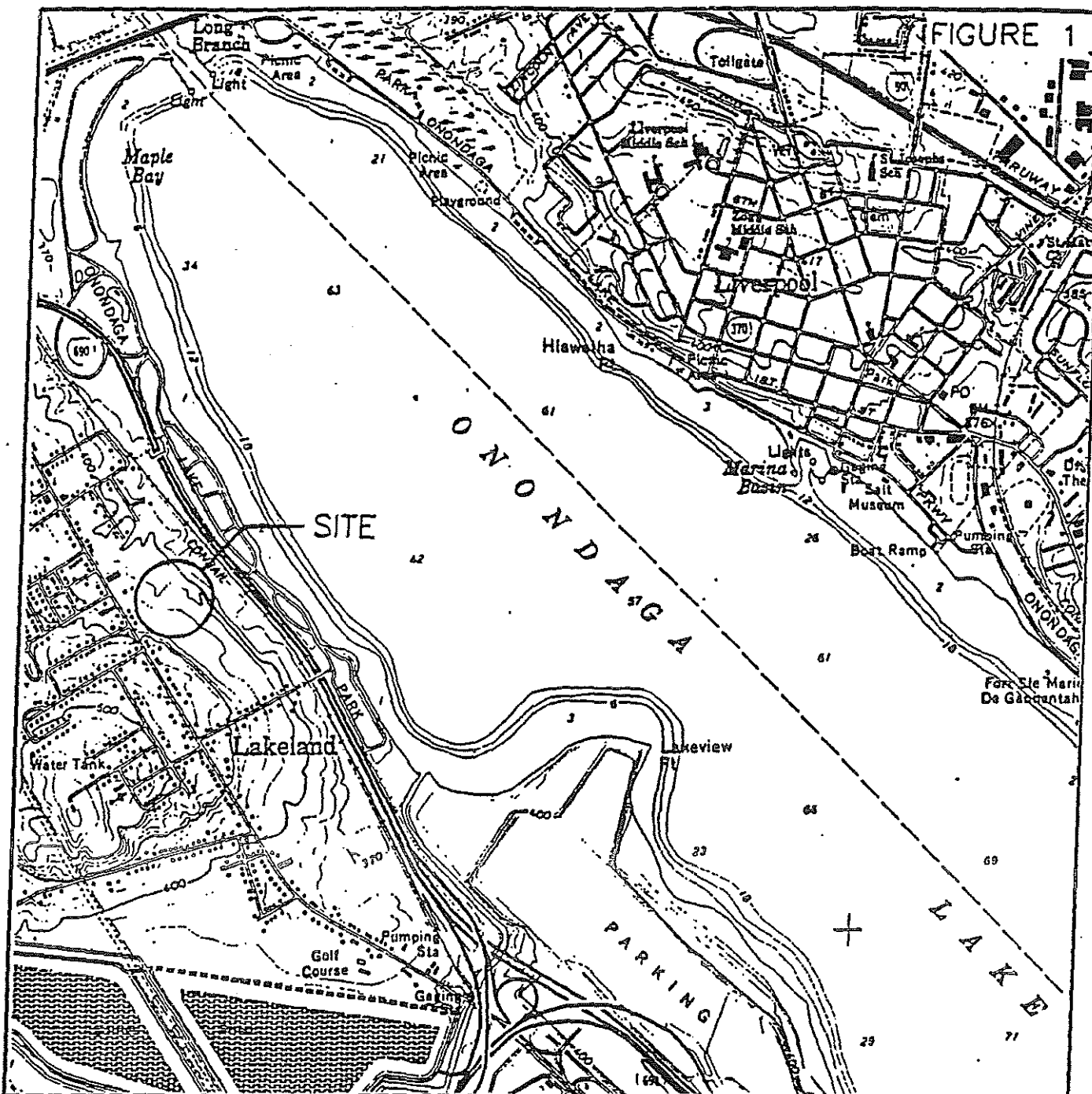
CAPITAL (construction) COST	- \$ 20,000
EST. O&M COST	- \$ 100,000/yr
TIME TO IMPLEMENT	- 30yrs
TOTAL PRESENT WORTH	- \$1,590,000

ALTERNATIVE #2-INSITU SOIL VAPOR EXTRACTION

CAPITAL (contruction) COST	- \$ 710,000
EST. O&M COST	- \$ 150,000/yr
TIME TO IMPLEMENT	- 10yrs
TOTAL PRESENT WORTH	- \$1,770,000

ALTERNATIVE #3-EX SITU SOIL VAPOR EXTRACTION w/ BIOREMEDIATION

CAPITAL (construction) COST	- \$1,200,000
EST. O&M COST	- \$ 150,000/yr
TIME TO IMPLEMENT	- 5yrs
TOTAL PRESENT WORTH	- \$1,570,000



FEASIBILITY STUDY
MAESTRI SITE
904 STATE FAIR BLVD.
TOWN OF GEDDES, NEW YORK

SITE LOCATION MAP

0 2000 4000



APPROX. SCALE IN FEET



ADAPTED FROM U.S.G.S. SYRACUSE WEST, NEW YORK QUADRANGLE 7.5 MINUTE SERIES

5618.001-05F
May/09/94

MAESTRI SITE

FIGURE 2
FOCUSED REMEDIAL INVESTIGATION
MAESTRI SITE
904 STATE FAIR BLVD.
TOWN OF GEDDES, NEW YORK

SITE TOPOGRAPHIC MAP

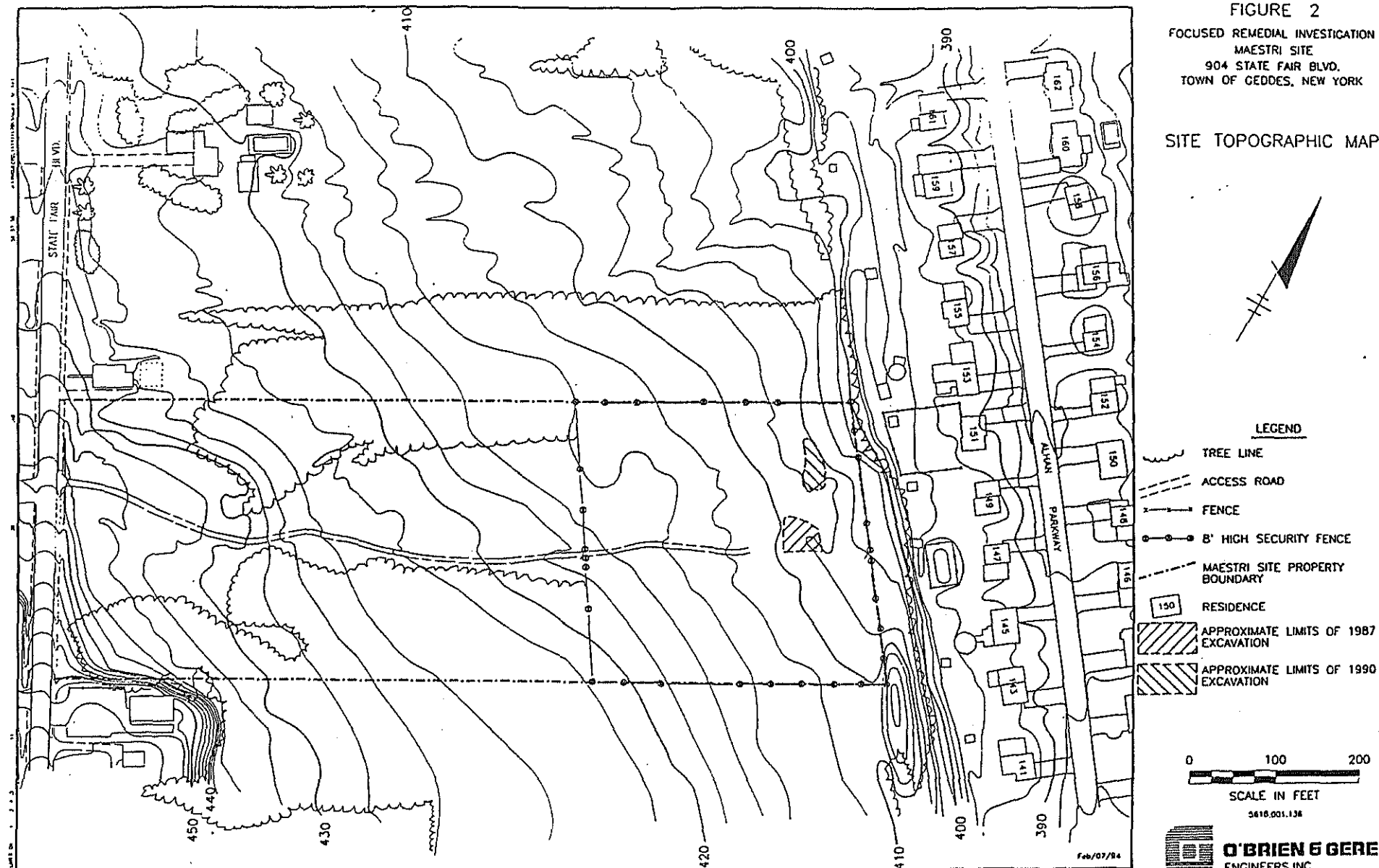


FIGURE 3
FEASIBILITY STUDY

MAESTRI SITE
904 STATE FAIR BLVD.
TOWN OF GEODES, NEW YORK

SITE MAP
(ENLARGED)



50 0 50

APP. XX. SCALE IN FEET
S418 003-107

GORMORE
ENGINEERS, INC.

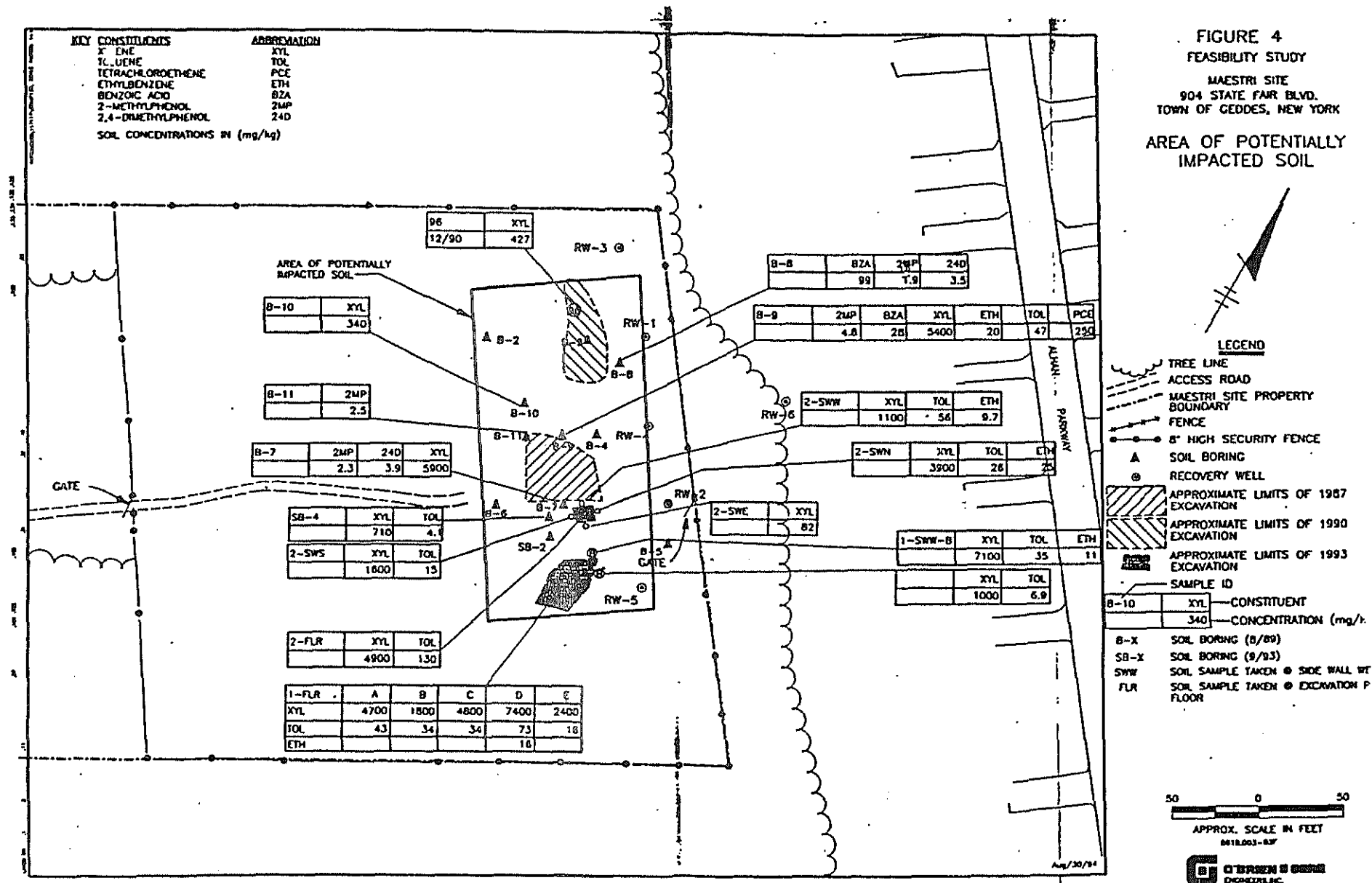
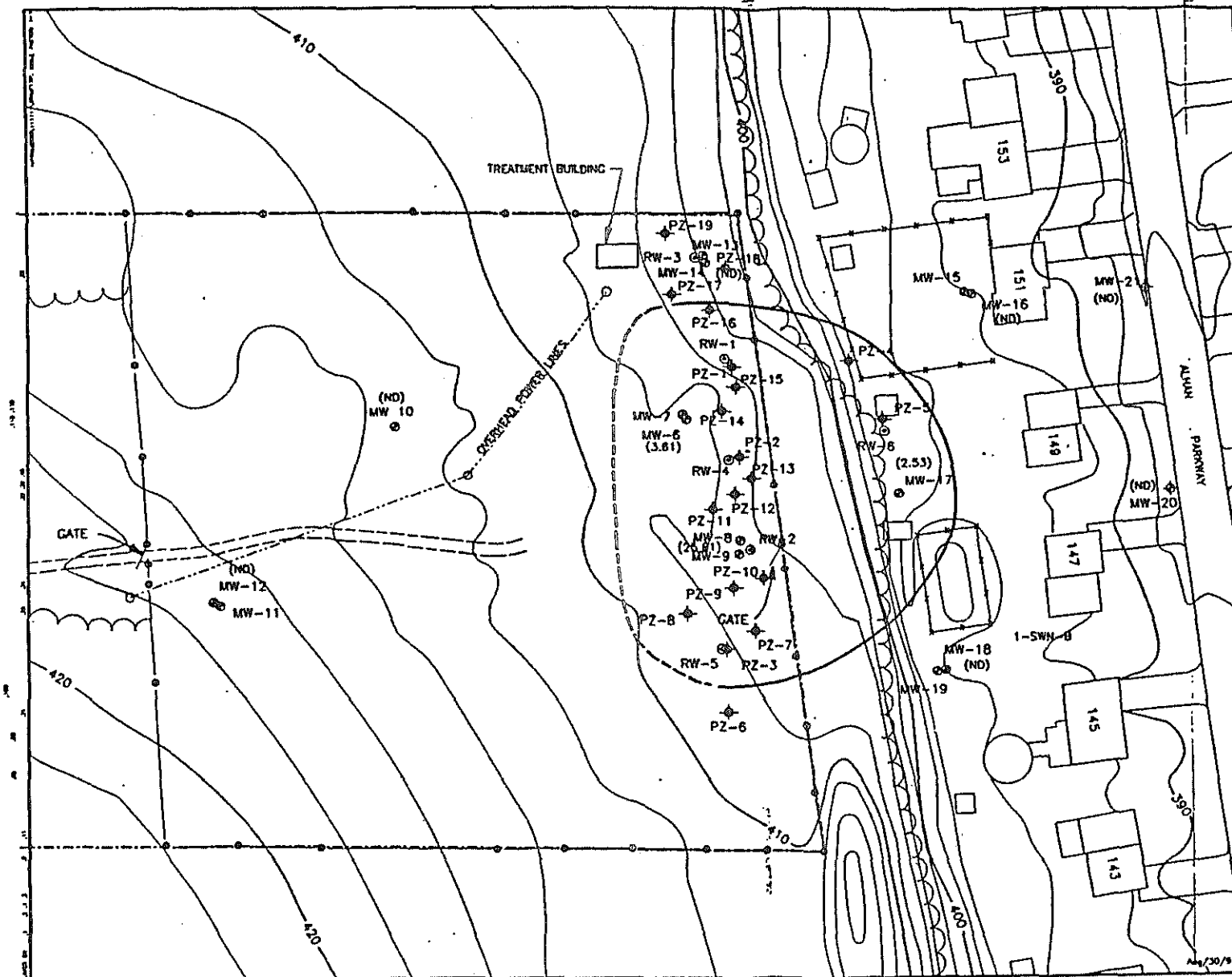


FIGURE 5
FEASIBILITY STUDY

MAESTRI SITE
904 STATE FAIR BLVD.
TOWN OF CEDDES, NEW YORK

VOLATILE ORGANIC COMPOUND
GROUND WATER PLUME
(JUNE 28, 1993)



LEGEND

- TREE LINE
- - - ACCESS ROAD
- - - MAESTRI SITE PROPERTY BOUNDARY
- - - FENCE
- 8' HIGH SECURITY FENCE
- MONITORING WELLS
- ⊙ RECOVERY WELL
- ◆ PIEZOMETER
- - - APPROXIMATE LIMITS OF VOLATILE ORGANIC COMPOUND GROUND WATER PLUME (DASHED WHERE INFERRED)
- (3.61) TOTAL VOC CONCENTRATION IN (ppm)

NOTE: EDGES OF VOC PLUME ARE BASED ON GROUND WATER SCREENING AND GROUND WATER MONITORING WELL SAMPLING RESULTS.

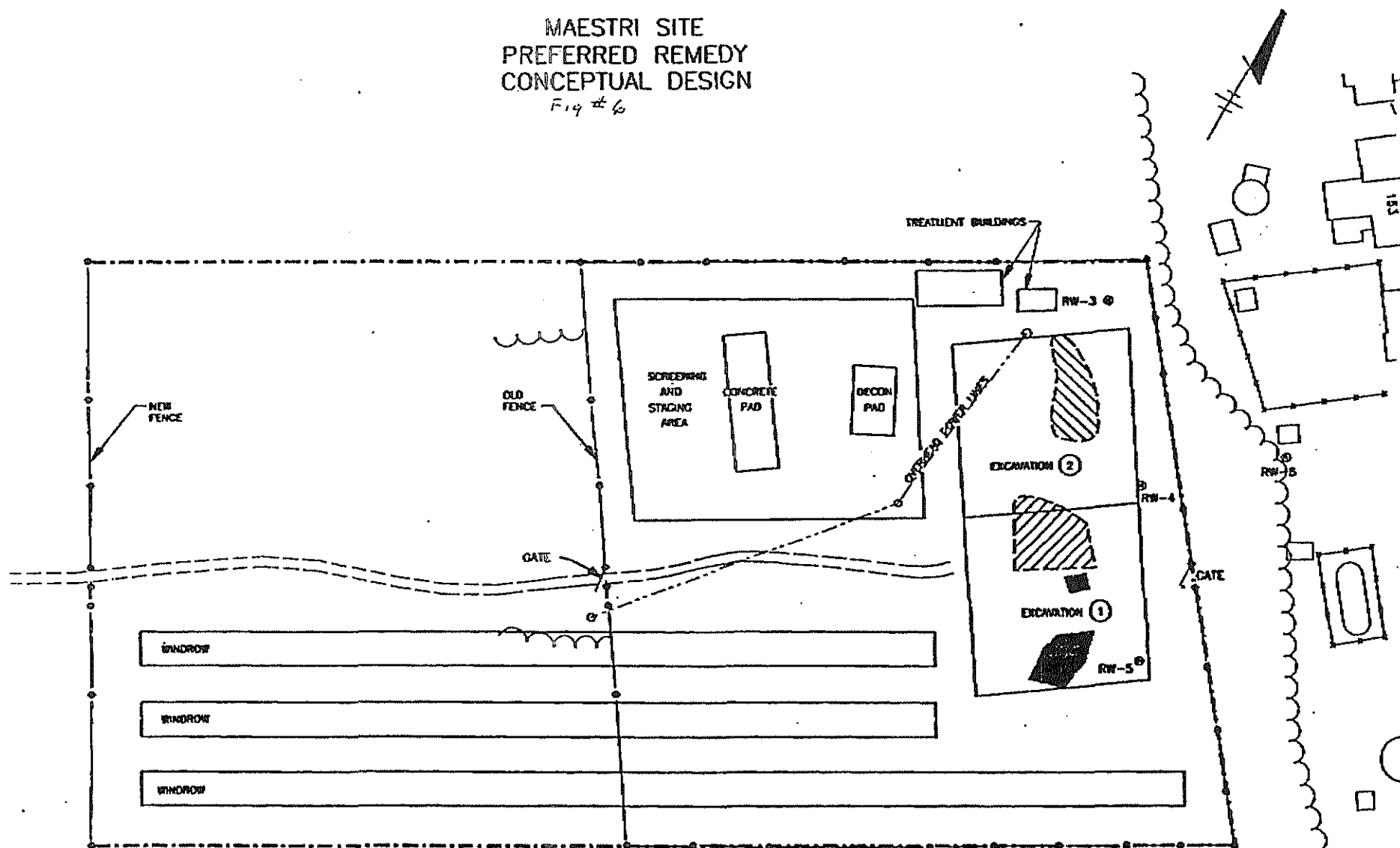


APPROX. SCALE IN FEET
9618.003-04F

G O'BRIEN & BOERE
ENGINEERS, INC.

MAESTRI SITE PREFERRED REMEDY CONCEPTUAL DESIGN

Fig # 6



LEGEND

- TREE LINE
- ACCESS ROAD
- MAESTRI SITE PROPERTY BOUNDARY
- 8' HIGH SECURITY FENCE
- RECOVERY WELL

- APPROXIMATE LIMITS OF 1987 EXCAVATION
- APPROXIMATE LIMITS OF 1990 EXCAVATION
- APPROXIMATE LIMITS OF 1983 EXCAVATION

50 0 50

APPENDIX A

RESPONSIVENESS SUMMARY

INTRO: Attachment number one to this summary is a list of questions submitted by the homeowners on Alhan Parkway during the January 19, 1995 public meeting. The questions and issues raised by the letter are similar to those raised verbally during the public meeting's question and answer session.

Questions from the letter and meeting have been paraphrased and answered by the following Responsiveness Summary.

1. **Q.** Was off-site disposal of contaminated soil evaluated in the Feasibility Study?

 A. Disposal of excavated soil off site in a landfill was evaluated in the Feasibility Study. The option was rejected due to the volume of contaminated soil, approximately 8,000 cubic yards. The cost for off-site disposal would approximately double the cost of remediation.
2. **Q.** What is the proposed location and nature of the process enclosures?

 A. Process enclosures are temporary structures that could house the soil conditioning equipment. Details of this construction is a design consideration, currently there are two additional on-site structures planned that will be equipped with air control systems to prevent migration of airborne contaminants. They will be constructed west of the current groundwater treatment building. The process enclosures are not intended to house the soil piles. The piles will be covered with a heavy plastic sheeting.
3. **Q.** How long will excavation last?

 A. The actual excavation will be short duration approximately 3-4 weeks per campaign. The site soil will be excavated and treated in two campaigns, each lasting for up to six (6) months. Plans call for one half the site to be remediated in 1996 followed by the second half in 1997.
4. **Q.** How will the excavated areas be controlled?

 A. Excavated areas during treatment may require stabilization. The use of off-site and/or on-site backfill will be considered during design. More likely the side slopes will be graded back to allow the hole to remain open and be used as a sump to collect precipitation and contaminated groundwater which

would be periodically pumped out for treatment at the existing on-site groundwater treatment system.

5. Q. What is the schedule for site remediation and will the neighborhood be notified?
- A. The current schedule calls for the first soil campaign to start in the Spring of 1996. The local neighborhood will be provided early notice of an anticipated start of remedial activities.
6. Q. What is the reputation and history of ex-situ bioremediation?
- A. Ex-situ bioremediation (soil piles) has been used extensively throughout the environmental industry. In particular, the oil and gasoline refinery industry has had much success remediating soil contaminated with similar compounds. Typical problems with bioremediation are usually associated with the slow down of biological activity during the cold winter months thus prolonging the remedial program.
7. Q. Will there be contingency plans for the soil treatment system? What if problems arise with odors?
- A. Contingency plans will be developed for both the excavation and treatment processes during the design stage. Air monitoring at the perimeter of the site will insure protection of the adjoining homes. Some nuisance odors during remedial activities are likely to occur. All efforts will be made to minimize problems by tight controls on the excavation through the use of plastic covers and foam, weather and wind awareness and odor control systems on the soil handling facility.
8. Q. Is there a potential for the back embankment to be undermined during the excavation? How can the homeowners be assured that there will be no property damage as a result of the remedial activities?
- A. Based on our current knowledge from past experiences excavating drums on site the embankment is believed to be sufficiently stable. A geotechnical review will be made during design to determine if the embankment and/or excavation require additional support.

9. Q. If the excavation is left open, wouldn't the hole be come saturated with runoff?
- A. The excavation areas if left open will be bermed to prevent runoff from entering and will be continually pumped out. Water will be directed to the existing water treatment system.
10. Q. Will the remediation and final site regrading affect runoff and drainage?
- A. Site regrading will restore the site to approximately its existing conditions. It is not anticipated that drainage or runoff problems will occur.
11. Q. Does soil "cleaned" to 1.2 ppm xylene exhibit any odors?
- A. In accordance with NYSDEC TAGM 4046 soil exhibiting nuisance odor, even if it meets target numerical cleanup levels, will not be considered "clean" and therefore in the case of Maestri will be left on the soil piles for further treatment.
12. Q. How will local homes be protected from odors and contaminants?
- A. A Health and Safety plan has been developed for the site which addresses precautions necessary to control chemical releases during remedial activities. This plan will be updated to meet the requirements for the proposed construction work. Potential exposure to airborne contaminants will be addressed by real time air monitoring of the remedial activities and by the installation of a site perimeter monitoring network. The monitoring network will provide early warning of possible off-site migration of airborne contaminants. Tight engineering controls on the soil excavation and soil handling will reduce the chance of off-site migration. Should exceedences occur, the activities will be either modified or halted and evaluation of the cause be undertaken.

It should be understood that odor threshold, which is one's ability to detect a volatile organic, may occur at concentrations below that which can be routinely monitored. We agree, that these "nuisance" odors are a concern for the neighborhood and efforts will be made to control them. Limiting the exposed excavation, use of plastic covers, foam, and/or water, and weather pattern awareness (temp, wind direction, etc.) are all practices which can be used effectively to limit odors. Furthermore, excavation is expected to occur during the spring and work can be done when children are in school and adults are at work. Adequate notice will be provided before the excavation

begins.

13. Q. When remediation is complete, what will happen to the site?
- A. Plans call for completion of both the soil and groundwater cleanup in 5-6 years. Post remedial monitoring of the groundwater to ensure effectiveness of the program may continue for some time at a select number of wells. Pending the outcome of the remediation and monitoring the site will be either delisted, or reclassified as properly closed. Wells not used for long term monitoring will be decommissioned by pulling the casing and grouting the boreholes. It is expected that the site will be available for use with minimal or no restrictions should the cleanup prove successful.
14. Q. Has Mr. Maestri cooperated in this program?
- A. Mr. Maestri has not been involved during the RI/FS process.
15. Q. What guarantees are there that there are no other barrels?
- A. The investigation has used the best methods available to ascertain the location and subsequent removal of drums. Magnetometer surveys, numerous test pits and test borings have been completed over the entire site during the RI/FS.

Attachment # 1

Was disposal of the excavated soil to a landfill considered?

If it was, why wasn't it chosen?

What would be the cost of off-site disposal?

Describe the "controlled process enclosures".

What materials are they made of?

Are they temporary structures?

Where will they be?

How many will there be?

These will hold 8000 cubic yards of soil?

Will all the soil be excavated at once?

How long will the excavation take?

How will odors be controlled during the excavation process?

What will happen to the excavated areas during treatment?

Will they be backfilled with other soil?

What soil will be used to backfill excavated areas?

Where is the backfill from?

Was the backfill tested for contamination?

What time of year will the excavation happen?

Odors are worse when the weather is warm.

How much notice will the neighborhood have?

If it is planned during the cold winter months, are there alternate dates if the weather is warm?

What is the reputation of the ex-situ treatment?

Where has it been used?

What problems were encountered?

What contingency plans are in place if problems do arise?
(especially with odors)

Has consideration been given to the fact that when severe wet weather occurs the backfilled area may become oversaturated and slide down the hill onto homeowner property possibly causing heavy property damage?

The excavation area is close to the embankment directly behind 147, 149 & 151 Alhan Pkwy.

Does this bank have the structural integrity to retain saturated loose soil behind it?

Should the entire hill be regraded, including the embankment, with a terraced step-like grade?

What protection is going to be provided to homeowners to protect us from mud slides?

We would like to be assured, in writing, that any property damage resulting from the treatment process will be restored to its original form.

When the treatment process is done, the soil will be redeposited and regraded. There has been a history of storm run-off and spring-melt drainage problems in the area. The Town has been approached on several occasions to remedy drainage problems. The Town has responded with regrading and the addition of several catch basins.

How will the regrading effect what the Town has done to help the run-off problem?

Will the regrading cause new run-off problems?

Are additional catch basins planned?

How will the run-off be directed to the basins?

The clean-up level for xylenes is 1.2 ppm in the soil.

Will the cleaned soil contain this concentration?

Does 1.2 ppm of xylene have an odor?

Is there any criteria for acceptable odor levels?

As a homeowner, any odor is unacceptable.

How will exposure to odors be addressed?

What happens 5 years from now when the soil and groundwater treatment is done?

Does everyone pack-up and go home and close the book?

What happens to the monitoring wells?

What guarantees are there that there are no other barrels?

What evidence do you have that leads you to think that there are no other barrels?

Has Mr. Maestri cooperated in this evaluation?

From: Larry Fisher
151 Alton P.

APPENDIX B

ADMINISTRATIVE RECORD

**Maestri Site
Site No. 7-34-025**

1. **Maestri Site Investigation and Development of Interim Remedial Measures Final Report including Appendices A-H; O'Brien and Gere, September - 1992.**
 2. **Administrative Order on Consent No. A7-0226-90-03, Site No. 3-34-025: Stauffer Management Company Respondent; Development of Remedial Program.**
 3. **Work Plan including Addendum No. 1 for Remedial Investigation/Feasibility Study: Maestri Site; O'Brien and Gere, April - 1992.**
 4. **Health and Safety Plan for Remedial Investigation/Feasibility Study: Maestri Site; O'Brien and Gere, revised November - 1992.**
 5. **Quality Assurance/Quality Control Plan for Remedial Investigation/Feasibility Study: Maestri Site; O'Brien and Gere, revised November - 1992.**
 6. **Administrative Order on Consent No. A7-0226-90-3 Modification No. 1, Site No. 7-34-025: Stauffer Management Company Respondent. Implementation of Interim Remedial Measure.**
 7. **Interim Remedial Measure Work Plan Anomaly Excavation and Removal: Maestri Site; O'Brien and Gere, October - 1993.**
 8. **Health and Safety Plan Anomaly Excavation and Removal: Maestri Site; O'Brien and Gere, November - 1993.**
 9. **Anomaly Excavation and Removal Final Report: Maestri Site; O'Brien and Gere, November - 1994.**
-

-
10. **Focused Remedial Investigation Report: Maestri Site; O'Brien and Gere, February - 1994.**
 11. **Fish and Wildlife Impact Analysis: Maestri Site; O'Brien and Gere, July - 1994.**
 12. **Groundwater Recovery System Performance Test: Maestri Site; O'Brien and Gere, August - 1994.**
 3. **Feasibility Study: Maestri Site; O'Brien and Gere, September - 1994.**
 4. **Proposed Remedial Action Plan: Maestri Site; NYSDEC, December - 1994.**
 5. **Transcript of January 19, 1995 Public Meeting and Responsiveness Summary to Public Meeting: NYSDEC, March - 1995; included as Appendix A to the Record of Decision.**

Appendix E

Site Inspection Form, Well Sampling Field Record Form

 110 West Fayette Street Suite 300 Syracuse New York, 13202 Phone: 315 446 9120 Fax: 315 449 0017		Date: _____	
		Time: _____	
Site Inspection Report		Weather	
		Partly Cloudy	Temperature High _____ Low _____
Client	Stauffer Management Company LLC	Project No.	30077261
Location	Maestri Site, 904 State Fair Blvd, Geddes, NY	Inspected By:	

Please note any deficiencies, issues, or actions taken at the bottom of the page or on continuation pages

Site Security	Circle one			Comments/Action Required
1. Was gate closed and locked when arriving at site?	Y	N	NA	
2. Are there any holes or breaks in the fencing?	Y	N	NA	
3. Was the door to the treatment shed locked?	Y	N	NA	
4. Is the back gate closed and locked?	Y	N	NA	
5. Are there any signs of vandalism or unauthorized entry (odd tire tracks, damage to fence, strange debris [bottles, cans, etc])?	Y	N	NA	
5a. If so, explain below and notify SMC and Arcadis immediately				
Wells				
6. Are wells intact?	Y	N	NA	
7. Are all wells covered (with lid or cap)? (except wells noted below)	Y	N	NA	
8. Are all wells locked? (except wells noted below)	Y	N	NA	
Site Maintenance				
9. Is there any garbage or debris? If so, please remove/discard.	Y	N	NA	
10. Is there visible dust?	Y	N	NA	
11. Does the grass need to be mowed?	Y	N	NA	
12. Do any areas need to be weeded or shrub cleared?	Y	N	NA	
13. Are there any bald spots in grassy areas?	Y	N	NA	
14. Are the access roads clear?	Y	N	NA	
15. Do any areas (site roads or access to wells) need to be plowed?	Y	N	NA	
16. Are there any sink holes throughout the site?	Y	N	NA	
17. Any odors onsite?	Y	N	NA	
18. Are site signs still up and visible?	Y	N	NA	
Erosion Control				
19. Is silt fence still intact and upright?	Y	N	NA	
19a. If areas need repair or erosion control installed, indicate below and contact Abscope for repairs.				
20. Is there any evidence of runoff? (i.e. water flow paths on ground)	Y	N	NA	
21. Is there any standing, ponded, or pools of water?	Y	N	NA	
22. Are there any signs of runoff at the northeast corner? (stone area)	Y	N	NA	
23. Is there currently any surface water runoff?	Y	N	NA	
23a. If so, describe where, approximate flow, and appearance of water below.				
Treatment System				
24. Are the breakers for the pumps still in the off position?	Y	N	NA	
25. Does effluent totalizer on the wall for still read 2846902?	Y	N	NA	
25a. If not, contact Arcadis or SMC immediately and check that effluent valve is closed.				
26. Are all critical valves in the closed position?	Y	N	NA	
27. Are there any system status alarms on the computer?	Y	N	NA	
27a. If so, describe below how they have been handled. (this does not include well level alarms)				
28. Are all flow values on computer "zero"?	Y	N	NA	
("Flow to sewer," "Tot flow to sewer," "tot daily flow," and "TGAL" for each well should each be "zero")				
28. Check level of sump. Does sump need to be pumped out?	Y	N	NA	
29. List water level for each recovery well as shown on computer: (total depth of well is shown in brackets)				
RW-7 [27.5']		RW-5 [24.5']		
RW-2 (not online)		RW-8 [24.5']		
RW-3 [25.3']		RW-6 [21.8']		
30. Are any recovery wells at close to overtopping? (ref total depth above)	Y	N	NA	
Upon leaving the site, check the following;				
31. Is the treatment shed locked?	Y	N	NA	
32. Were the gates closed and locked after leaving site?	Y	N	NA	

Note:

Signature of Inspector:

Include General Site Observations and Follow-Up Actions on the Reverse



Time:

Continuation Page(s)

Page 2 of 2

Project No.

Inspected By:

[illegible][illegible]

Signature of Inspector:

ARCADIS

Page _____ of _____

Maestri Site Semi-Annual Event

Well ID: _____

Project Number: _____

Task: _____

Date: _____

Well Headspace PID: _____

Sampling Time: _____

Sampled By: _____

Weather: _____

Coded Replicate No.: _____

Replicate Type (circle one): Duplicate MS/MSD

Instrument Identification

Serial #:	PID	Water Quality Meter(s)
-----------	-----	------------------------

Purging Information

Casing Material: _____

Purge Method:(circle one) Submersible Centrifugal Bladder

Casing Diameter: _____ in

Screen Interval: From: _____ To: _____

Total Depth: _____ ft

Pump Intake Setting: _____

Depth to Product: _____ ft

Total Volume Purged: _____

Depth to Water: _____ ft

Pump on: _____ Off: _____

Water Column: _____ ft

Gallons in Well: _____ gal

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm) ³	Temp (°C)	DO (mg/L)	TDS (mg/L)	Comments
Stabilization Range			<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%		
	0										
	5										
	10										
	15										
	20										
	25										
	30										
	35										
	40										
	45										
	50										
	55										
	60										
	65										
	70										
Number and Type of Bottle			Analytical Parameter			Preservative			Collected		
3 - 40 mL Glass Vial			VOCs - Xylenes			HCL					

Color: _____

Well Condition: _____

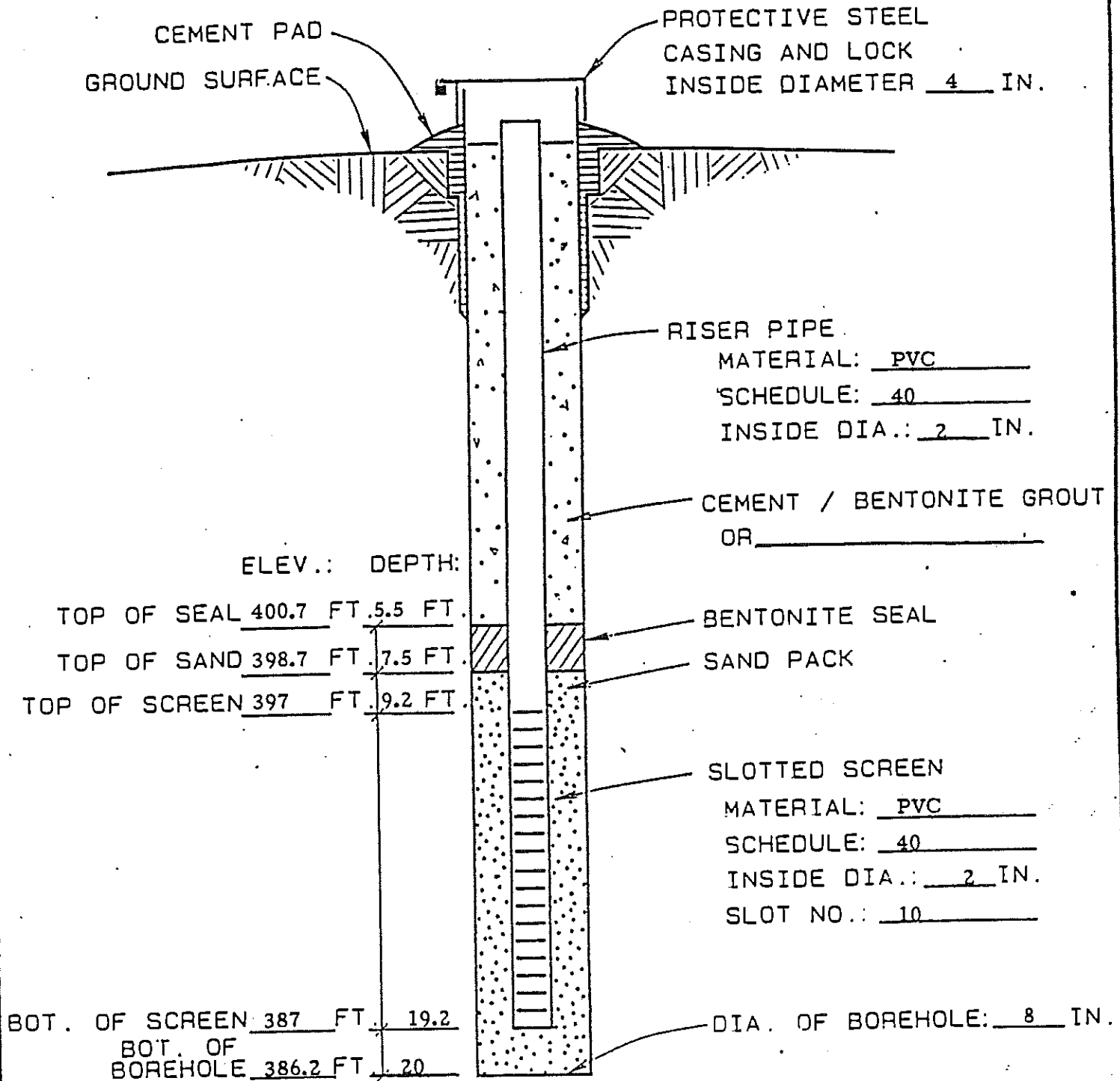
Odor: _____

Purge Water Disposal: _____

Appendix F

Monitoring Well Construction Logs

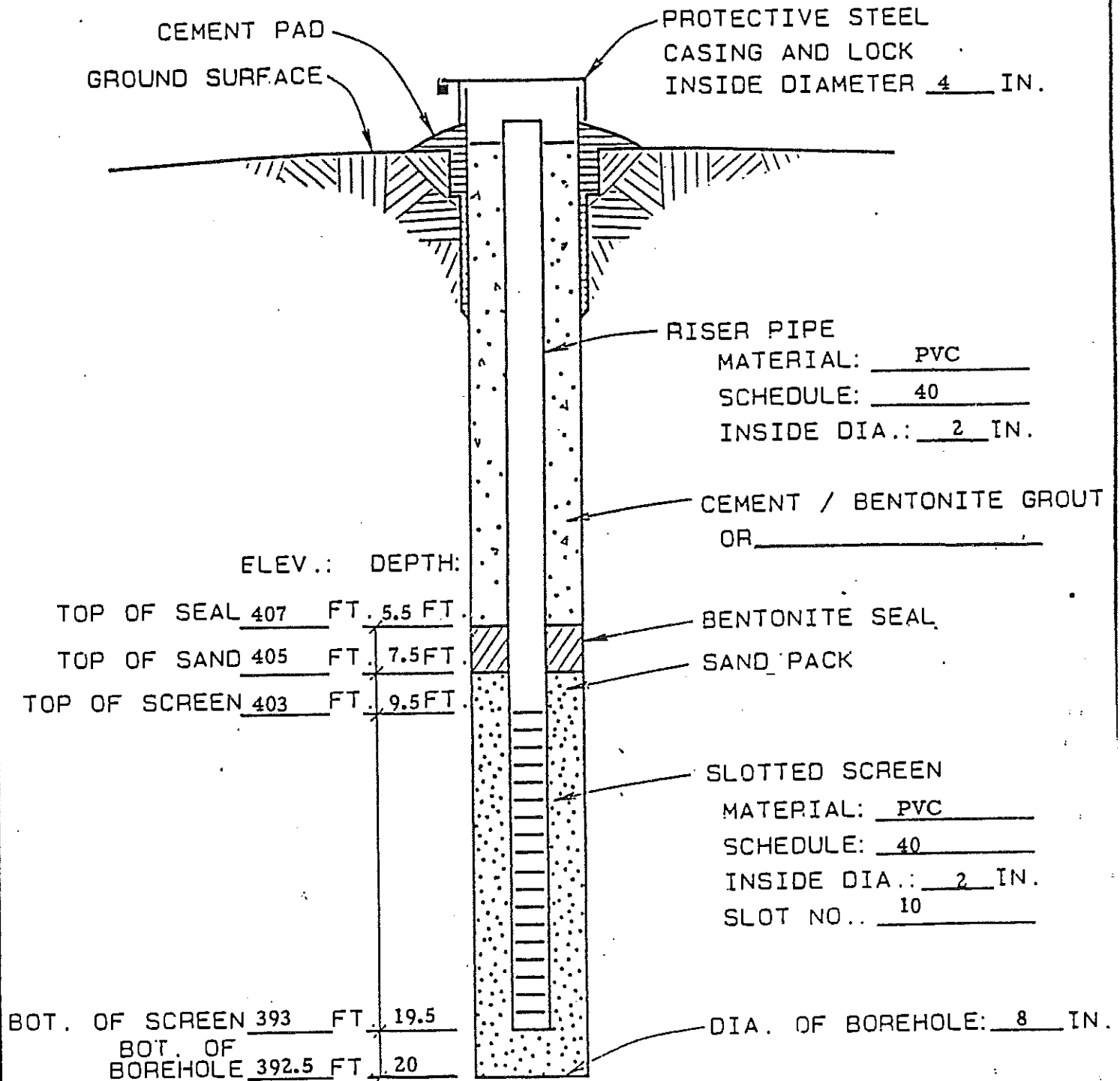
MAESTRI SITE INVESTIGATION
MW-9



TYPICAL OVERBURDEN MONITORING WELL

N.T.S.

MAESTRI SITE INVESTIGATION
MW-10

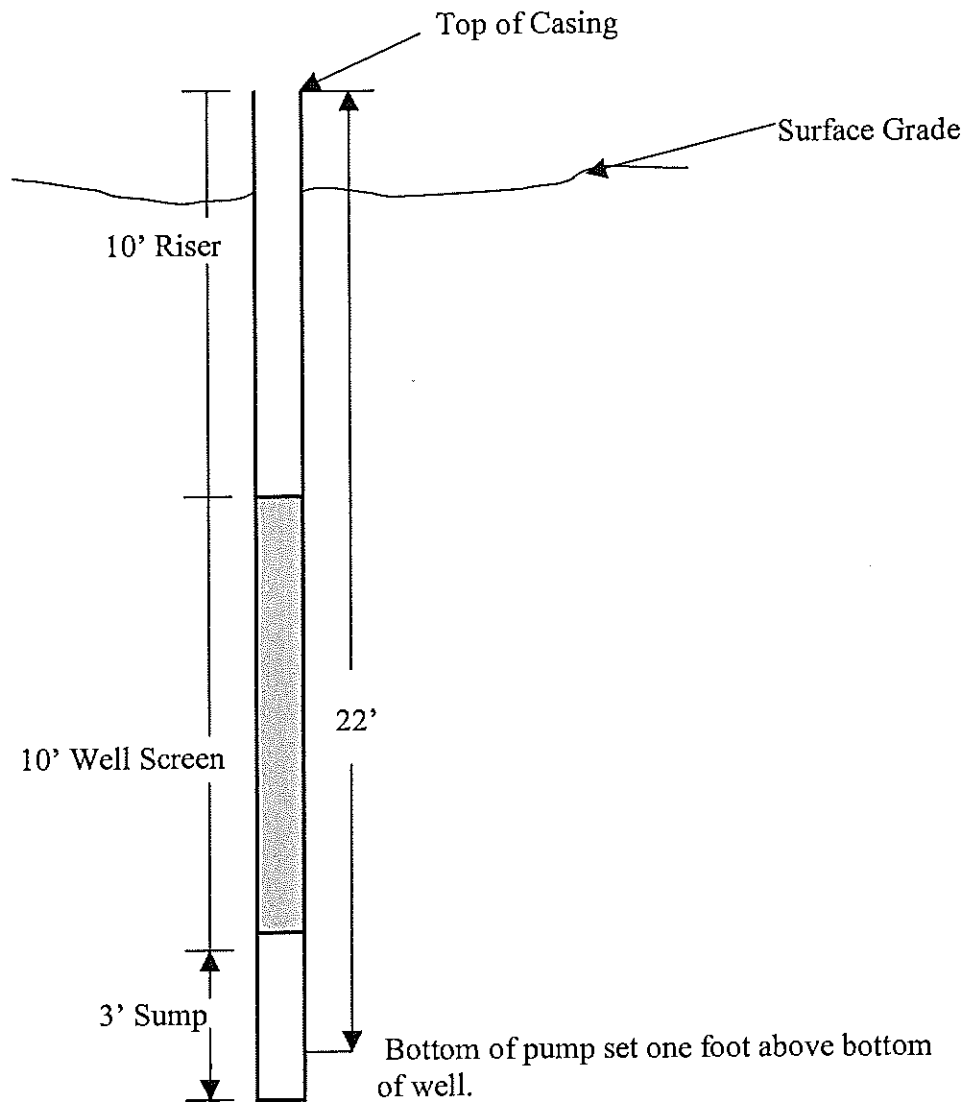


TYPICAL OVERBURDEN MONITORING WELL

N.T.S.

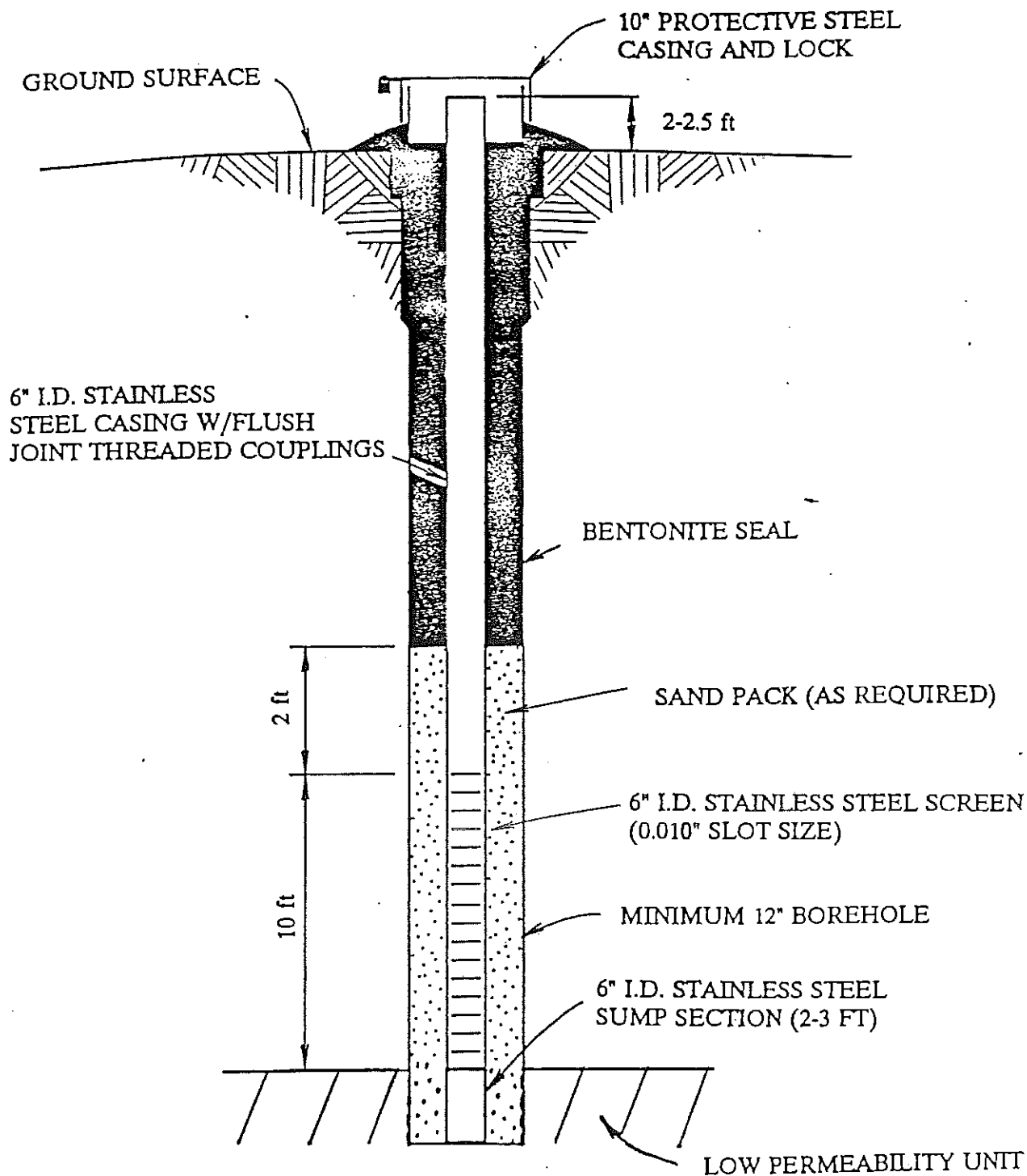
O'BRIEN & GERE ENGINEERS, INC.						TEST BORING LOG		Report of Boring No. MW-10 Sheet 1 of 1				
Boring Location: Maestri Site Investigation Geddes, N.Y. Client: Stauffer Management Company						SAMPLER Type: 3" Split Spoon Hammer: 140 lbs.		Ground Water Depth 6.5' Date 7/24/89 Depth 7.9' Date 7/31/89 File No.: 3213.004.576				
Boring Co.: Parratt-Wolff, Inc. Foreman: Kevin White OBG Geologist: Dennis Theoret						Boring Location: South West of main disposal area Ground Elevation: 412.5 ft. Dates: Started: 7/24/89		Ended: 7/25/89				
Depth	Sample					Sample Description	Stratum Change General Descript	Equipment Installed	Field Testing			Remarks
	No	Depth	Blows /6"	Penetr/ Recovery	"N" Value				pH	Sp Cond	HNU	
0	1	0-1.5'	2/3/7	1.5/1.0'	10	Light brown, damp, medium dense, fine/medium SAND, some silt, trace roots.						0
5	2	5-6.5'	6/4/6	1.5/1.1'	10	- As above, no roots, very moist. Auger cuttings saturated at approx. 6.5 ft.						1.2
10	3	10-11.5	3/8/13	1.5/1.3'	21	- As above, saturated.						0.2
15	4	15-16.5	21/29/33	1.5/1.4'	62	Light brown, very moist, very dense, fine/medium gravel, little fine/coarse sand, little silt, trace clay. Matrix is clay, silt and fine sand.	15.8'					0
20	5	20-20.2	50/.2'	.2'/.2'	50+	Gray green and dark gray, non-calcareous, weathered fissile SHALE.	20.0'					0
						Bottom of boring at 20 ft.	20.4'					
								</				

Stauffer Management Co.
Maestri Site



Not to Scale

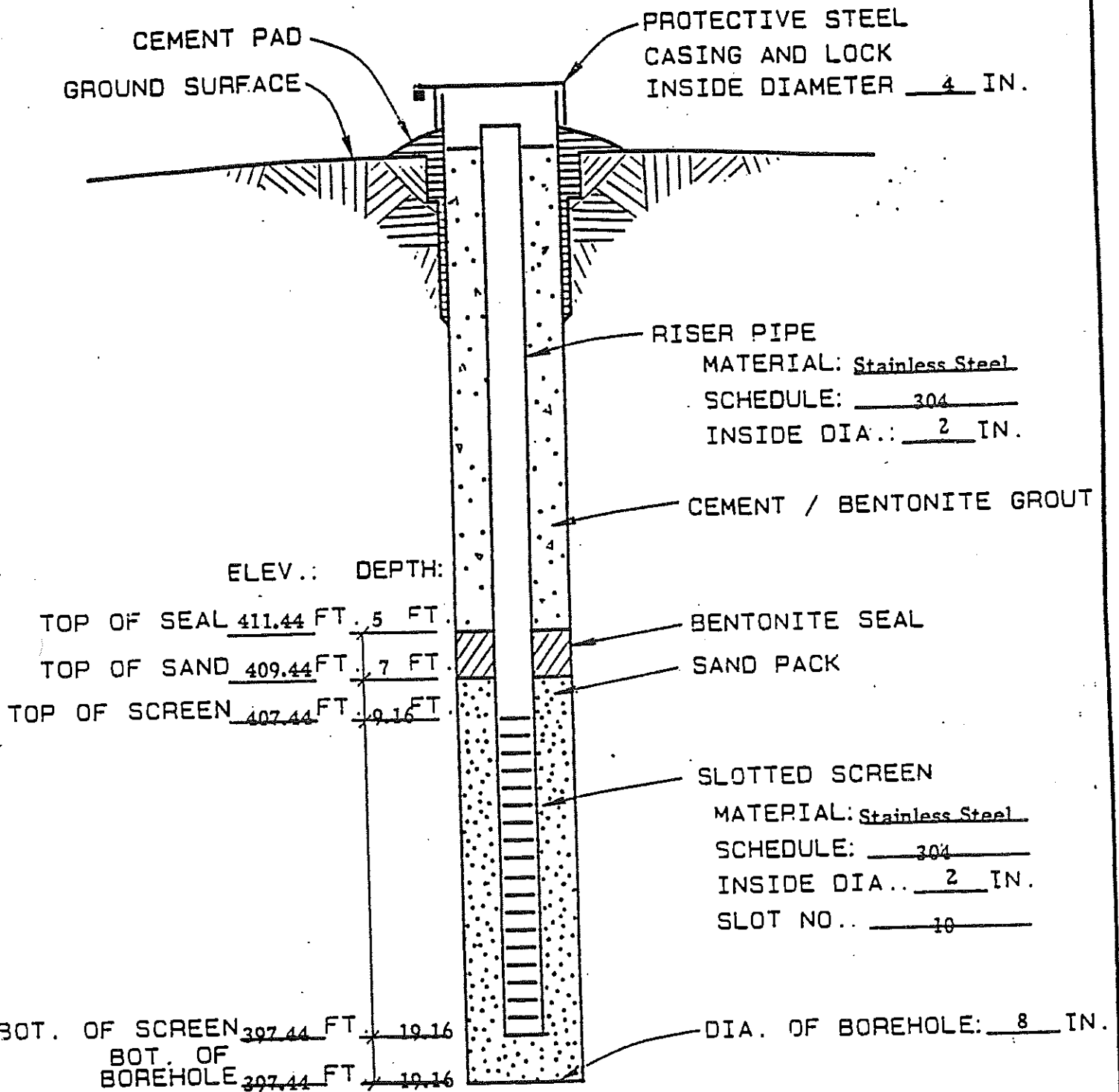
FIGURE 2



TYPICAL RECOVERY WELL

NOT TO SCALE

MAESTRI SITE INVESTIGATION
MW-12



TYPICAL OVERBURDEN MONITORING WELL

N.T.S.

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	Report of Boring No. MW-12 Sheet 1 of 1
Location: Maestri Site Investigation Geddes, New York ent: Stauffer Management Company	SAMPLER Type: Split Spoon Hammer: 140 lb. Fall: 30"	Ground Water Depth Date Depth Date File No.: 3213.004.577
ing Co.: Parratt-Wolff, Inc. ewans: Billy Rice BGS Geologist: Dennis R. Theoret	Boring Location: Adjacent MW-11 Ground Elevation: 416.6 Ft. Dates: Started: 6/25/90 Ended: 6/25/90	

Report of Boring No. MW-12
Sheet 1 of 1

SAMPLER
Type: Split Spoon
Hammer: 140 lb. Fall: 30"

Boring Location: Adjacent MM-11
Ground Elevation: 416.6 Ft.
Dates: Started: 6/25/90

Ended: 6/25/90

[illegible]

Sample Description

Stratum
Change
General
Descript

Equipment Installed

Field Testing

所

Sp
Cond

HNU

**RR
BX
S**

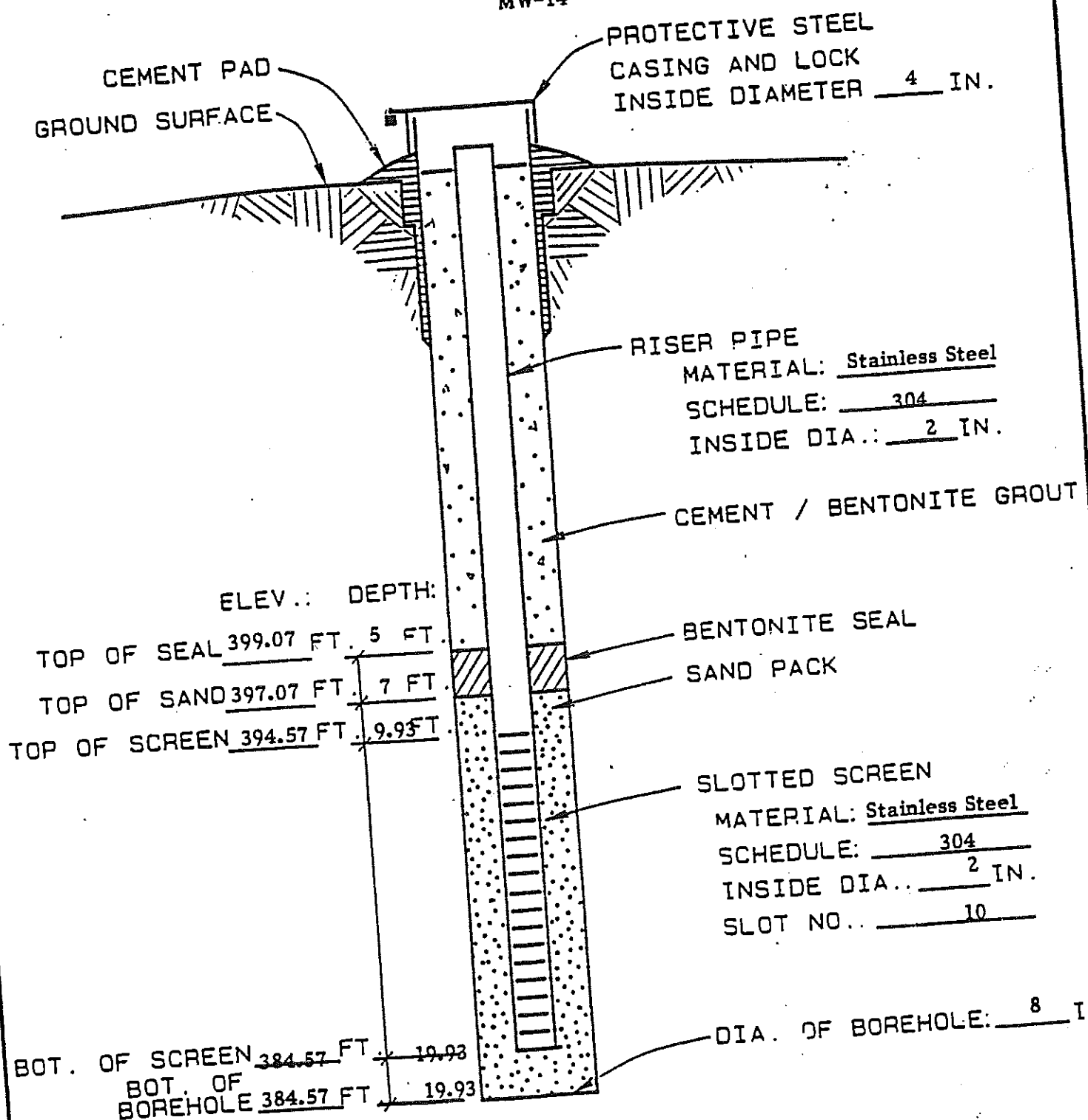
Augered to 19 feet without sampling. See boring log M-11 for descriptions.

19¹

Bottom of Boring at 19 feet.

V & GERE ERS, INC.		TEST BORING LOG		Report of Boring No. MW-14 Sheet 1 of 1	
Project Location: Maestri Site Investigation Address: Geddes, New York Client: Stauffer Management Company		SAMPLER Type: Split Spoon Hammer: 140 lb.		Ground Water Depth Depth File No.: 3213.004.577	
Drilling Co.: Parratt-Wolff, Inc. Operator: Billy Rice Geologist: Dennis R. Theoret		Boring Location: Northern Corner of Site, Adjacent MW-13 Ground Elevation: 404.5 Ft. Dates: Started: 7/3/90		Ended: 7/3/90	

Depth	Sample				Sample Description	Stratum Change General Description	Equipment Installed	Field Testing			Remarks
	No.	Depth	Blows / 6"	Penetr/ Recovery				"N" Value	pH	Sp Cond	
0						Augered to 19.9 feet without sampling. See boring log MW-13 for descriptions.					
5											
10						19.9'					
15						19.9'					
20						19.9'					

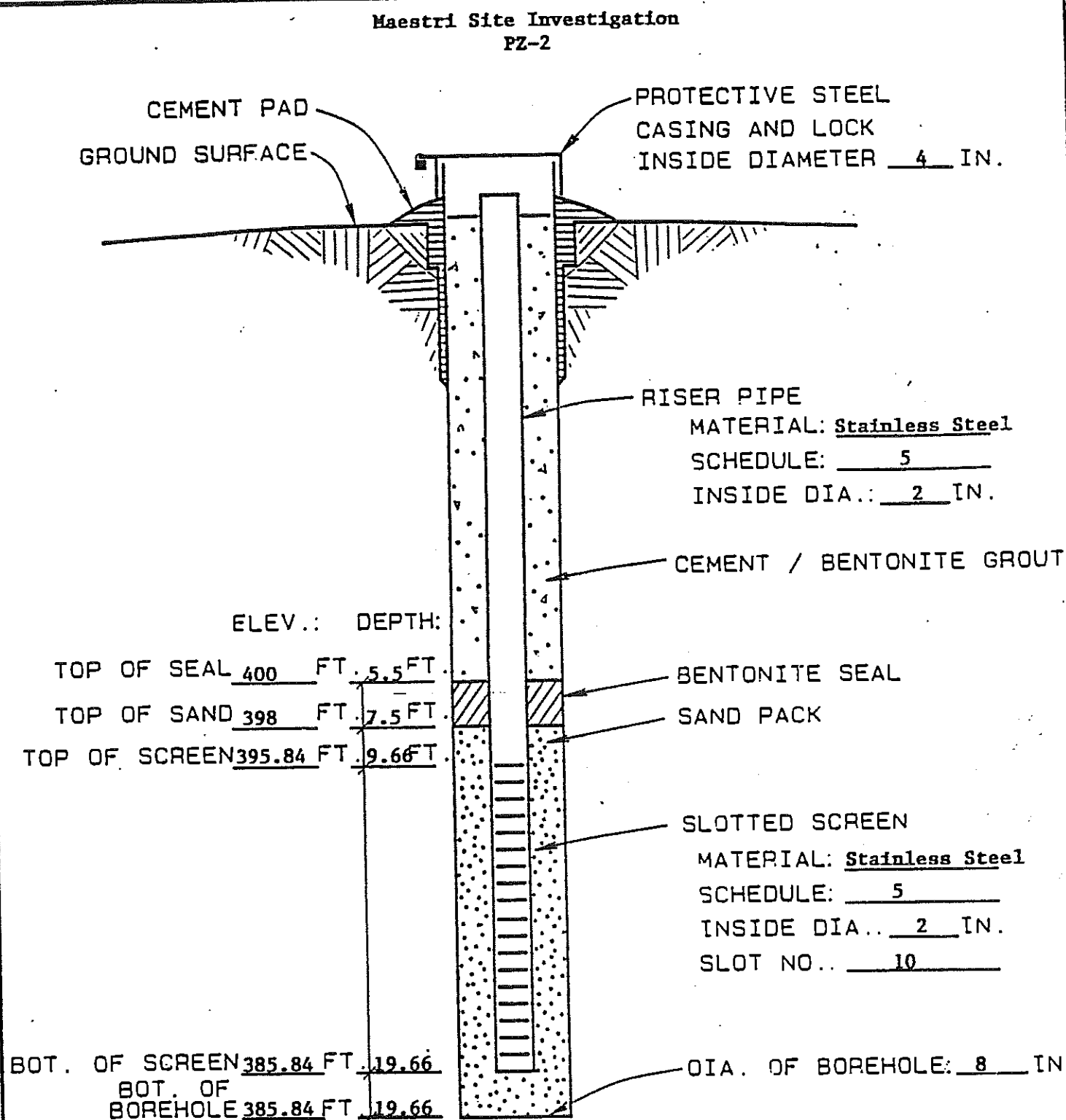
MAESTRI SITE INVESTIGATION
MW-14

TYPICAL OVERBURDEN MONITORING WELL

N.T.S.

[illegible]

FIGURE

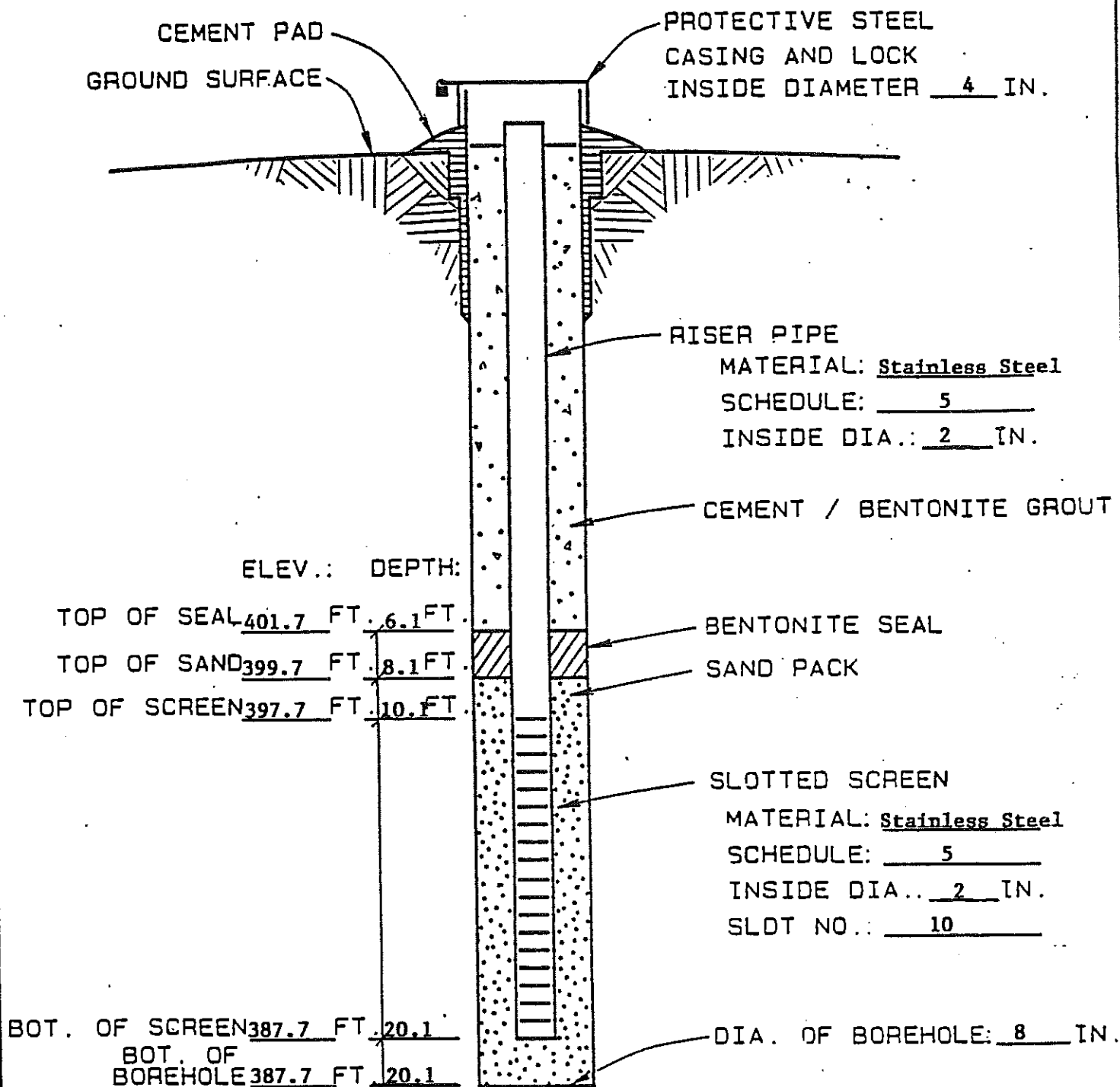


TYPICAL OVERBURDEN MONITORING WELL

N.T.S.

[illegible]

Maestri Site Investigation
PZ-3



TYPICAL OVERBURDEN MONITORING WELL

N.T.S.

OBRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

REPORT OF BORING

RW-7

Client: Maestri Site

Sampler: 2" Split Spoon

Page 1 of 2

Proj. Loc: Town of Geddes, New York

Hammer: 140 lb

Location:

File No.: 5618.007

Fall: 30 inch

Start Date: 6/24/96

End Date: 6/27/96

Boring Company: OP-TECH Environmental Services

Foreman: Todd Burnham

OBG Geologist: James Fitch

Screen ☐
Riser ☐

Grout
Sand Pack
Bentonite

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing HNU (ppm)
		0	3	24/22"	9	Grayish brown (5YR 3/2), damp, loose, SILT, trace very fine sand and clay-grades to moderate brown (5YR 3/4), damp, SILT, some very fine SAND (matrix), little medium to coarse SAND, trace gravel - subrounded			
			4						
			5						
		2	5						
		2	2	24/15"	16	Moderate brown (5YR 3/4), damp, medium dense, SILT, some very fine sand (matrix), little medium to coarse sand, trace gravel, subrounded			
			4						
			6						
		4	4						
		4	4	24/1"	10	Poor recovery. moderate brown (5YR 3/4), damp medium dense, SILT, some very fine sand (matrix) little medium to coarse sand, trace gravel, subrounded			
			4						
			6						
		6	6						
		6	14	12/7"		Moderate brown (5YR 3/4), damp, very dense SILT, little very fine sand (matrix), some gravel and rock fragments, little medium to coarse sand			
		7	50/0.5						
		8	23	24/20"	17	Moderate brown (5YR 3/4), damp to wet, medium, dense, GRAVEL and rock fragments, some to little fine to coarse sand, trace silt and clay, angular to subrounded			
			7						
			10						
		10	56						
		10	50/0.4	5/5"		Moderate brown (5YR 3/4), damp to wet, medium, very dense, GRAVEL and rock fragments, some to little fine to coarse sand, trace silt and clay, angular to subrounded			
		10.4							
		12	28	24/24"	60	Pale brown (5YR 5/2), moist to wet, very dense gravelly medium to very coarse SAND, trace fine sand, silt and clay, angular to subrounded			
			36						
			24						
		14	28						
		14	19	24/19"	41	Pale brown (5YR 5/2), wet, dense, medium to very coarse SAND and gravel, trace fine sand, silt and clay			
			18						
			23						
		16	18						
		16	18	24/17"	50	Pale brown (5YR 5/2), wet, dense, GRAVEL and coarse to very coarse, sand, trace fine to medium sand, silt and clay, angular to subrounded			
			20						
			30						
		18	40						
		18	17	24/19"	53	Pale brown (5YR 5/2), saturated, very dense, GRAVEL and coarse to very coarse sand, trace fine to medium sand, silt and clay, angular to subrounded.			
			22						
			31						
		20	22						

JF:ers/4_notes/2RW-7

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LC

REPORT OF BORING RW-8

Client: Maestri Site

Sampler: 2" Split Spoon

Page 1 of 2
Location:

Proj. Loc: Town of Geddes, New York

Hammer: 140 lb

Start Date: 6/25/96
End Date: 6/27/96

File No.: 5618.007

Fall: 30 inch

Boring Company: OP-TECH Environmental Services
Foreman: Todd Burnham
OBG Geologist: James Fitch

Screen = ☐
Riser ☐

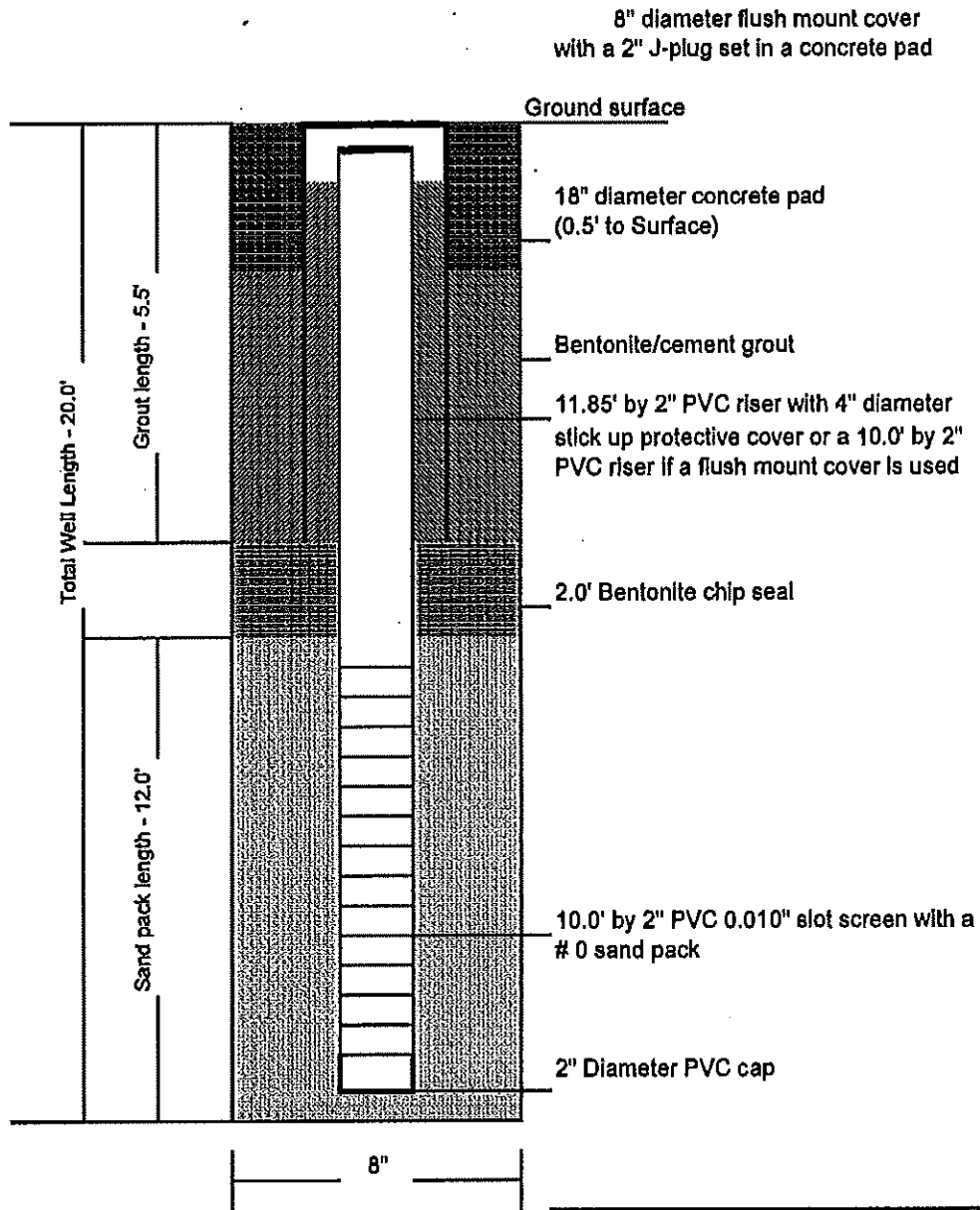
Grout
Sand Pack
Bentonite

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing HNU (ppm)
		0	2	24/24"	12	Grayish brown (5YR 3/2), damp, medium dense, SILT, little very fine sand, trace medium to coarse sand, gravel and clay, angular to subangular			
			5						
			7						
		2	10						
		5	2	24/21"	6	Grayish brown (5YR 3/2), damp, loose, SILT, little very fine sand, trace medium to coarse sand, gravel and clay, angular to subrounded			
			3						
			3						
		7	4						
		10	22	12/12"		Grayish brown (5YR 3/2) to moderate yellowish brown (10YR 5/4), moist to wet, fine to coarse GRAVEL, some fine to coarse sand, little silt, trace clay			
		11	50/0.5						
		12	14	24/18"	61	Moderate brown (5YR 3/4), moist to wet, very dense, fine to coarse GRAVEL, some fine to coarse sand, trace silt and clay, subrounded			
			35						
			26						
		14	38						
		14 to 14.5	50/0.5	6/3"		Moderate brown (5YR 3/4), saturated, very dense, fine to coarse GRAVEL, little fine to coarse sand trace silt and clay, subrounded			
		16-16.3	50/0.3	4/4"		Grayish brown (5YR 3/2), moist to slightly wet, very dense, fine to coarse SAND, some gravel, little to trace silt, trace clay			
		18	10	24/24	26	Grayish brown (5YR 3/2) to moderate brown (5YR 3/4), saturated, medium dense, medium SAND, some coarse sand, little fine sand trace silt to 19.5 ft then fine to medium sand, little silt to 19.45' then fine SAND, little silt, with 1/2 inch clayey SILT to 19.8 ft then moist grayish brown (5YR 3/2), clayey SILT, little very fine sand (matrix), trace medium to coarse sand, subrounded (in suspension) moderately plastic			
			12						
			14						
		20	19						
		20	15	24/22"	49	Grayish brown (5YR 3/2) saturated, dense, clayey SILT, little very fine sand (matrix), some to little medium to coarse sand and gravel (in suspension) subrounded to angular, changes at 21.3 ft to greenish gray (5GY 6/1), damp, very weathered SHALE, soft, fissile with clayey component, mixed in pockets with above material to 21.8 ft	20.9'		
			22						
			27						
		22	48						

ent cobbles between 11 and 18 feet. Noted 4 1/2 feet of water on rods when measured from tip of spoon driven to 20 ft depth.

JF:ers/4_notes/2RW-8

PZ-20.



PARRATT-WOLFF INC.

PIEZOMETER P-1

FORMER MAESTRI SITE

GEDDES, NEW YORK

NOT TO SCALE

MAY 2009

Appendix G

Sampling, Analysis, and Monitoring Plan

Report

**Sampling, Analysis, and Monitoring Plan
Soil Remediation Project
Maestri Site
Geddes, New York**

*Stauffer Management Company
Wilmington, DE*

January 12, 1996



5000 Brittonfield Parkway
Syracuse, NY 13221

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1. Introduction

1.1. General

This Sampling, Analysis, and Monitoring Plan is written in accordance with Section 3.3.7 of the Remedial Design/Remedial Action (RD/RA) Work Plan dated July 1995 and the Order on Consent. Presented herein are the tasks and analytical requirements for monitoring the effectiveness of the soil remediation project at the Maestri Site located in Geddes, New York (Figure 1). The plan identifies the matrices to be sampled, analytical methods to be used, sampling frequency, quality assurance and quality control measures, and reporting requirements.

Data collected during these efforts will be used for the following:

- To assess the pre-mechanical screening concentrations of volatile organic compounds (VOCs) and semi-VOCs (SVOCs) in the soils;
- To assess the concentrations of VOCs and SVOCs, if any, remaining in the excavation (verification sampling) following removal of soils exhibiting VOCs and SVOCs above the remedial action objectives (RAOs) established for the site;
- To evaluate the effectiveness of the mechanical screening component of the soil remediation activities for the removal of VOCs from the soils;
- To evaluate the effectiveness of the bioremediation/soil vapor extraction (BIO/SVE) soil pile component of the soil remediation activities for the removal of VOCs and SVOCs from the soils; and
- To document that the modifications to the ground water treatment system have not resulted in a release of VOCs or SVOCs above the New York State Department of Environmental Conservation (NYSDEC) State Pollution Discharge Elimination System (SPDES) effluent limits.

2. Soil sampling during construction

2.1. Excavated soils sampling

WHAT IS
PID GUIDANCE
VALUE?

Sampling and analysis of excavated soils will involve initial screening at the excavator bucket by the Contractor for the upper four feet of the excavation using a photoionization detector (PID). Soils removed from 1987, 1990, and 1993 excavations are exempt from the sampling requirements specified herein. Soils will be segregated based on PID concentrations and placed into 200 cubic yard (cy) stockpiles designated as either "contaminated" or "potentially contaminated" until more thorough testing can be performed. After the soil is placed in these stockpiles, four samples (three grab and one composite sample) will be collected from each pile designated "potentially contaminated" and analyzed for VOCs using EPA Method 8010/8020. If the concentrations of VOCs in the soils exceed the RAOs, the entire 200 cy soil stockpile will be processed through the mechanical screening system. However, if the concentrations of VOC in the soil are less than the RAOs for the site, the four soil samples will then be analyzed for SVOCs using EPA Method 8270. If SVOC levels also meet the RAOs, the soil will be stockpiled for use as "clean" backfill within the excavation. However, if the soil VOC or SVOC concentrations in the soil exceed the RAOs, the soil pile will later be designated to require treatment in a bioremediation/soil vapor extraction pile (BIO/SVE) soil pile.

Soils below four feet will be excavated and treated on site.

2.2. Excavation verification soils sampling

A 30 ft. grid pattern (as shown on the Contract Drawing G-8) will be established in the field and will be used in connection with excavation verification sampling. After excavating to the predetermined horizontal and vertical limits shown on the Contract Drawings, a photoionization detector

Sampling, analysis, and monitoring plan

will be used to assess the need for additional excavating. Once PID measurements indicate that the RAOs may have been achieved, a soil sample will be collected by the Contractor at each node of the grid which represents a soil sampling point. The samples will be analyzed for VOCs using EPA Method 8010/8020, and SVOCs using EPA Method 8270. The purpose of this soil sampling and analyses is to document that the soils exhibiting VOCs and/or SVOCs above the RAOs have been removed to the extent practicable.

Following sampling and analyses at each of the grid nodes, the analytical results will be compared to the RAOs established for the Site and presented in Table 2. If any of the samples exhibit VOCs and/or SVOCs above the RAOs, the soils (in one to two feet lifts) at each of the grid nodes and extending 3/4 the distance to the next "clean" grid node will be removed. Following removal of the additional soils, soil sampling and analyses at the grid node will be re-performed by the Contractor as described above.

2.3. Mechanical screening soil sampling

Following processing of soils through the mechanical screening system, the soil stockpiles will be sampled and analyzed for VOCs and SVOCs using EPA Methods 8010/8020 and 8270, respectively. Two samples will be collected for every 200 cy pile processed to assess the concentration of VOCs/SVOCs within the soil pile. If the VOC concentrations exceed the RAOs for the Site, further mechanical screening of the soils will be performed. If the SVOC concentrations exceed the RAOs for the Site, the soils will be staged for treatment in a bioremediation/soil vapor extraction pile. Following processing, if the soils do not exhibit VOCs and SVOCs above the RAOs, the soils will be used later as backfill material.

2.4. Soils staged for bioremediation/soil vapor extraction treatment

Following mechanical screening, soils exhibiting VOC/SVOC concentrations above the RAOs will be stockpiled for treatment through bioremediation/soil vapor extraction (BIO/SVE) soil piles. The soils sampling and analyses to be performed to prepare the soils for BIO/SVE pile treatment are presented in Table 3.

3. Air sampling during construction

3.1. Health and safety plan sampling and analysis

The Contractor's Health and Safety Plan (HASP) will include an air monitoring plan describing specific air sampling and analysis, and monitoring procedures to be implemented during completion of the remedial actions. The Contractor will be required to, at a minimum, perform the following items and address these items in the HASP:

ARE WE
EXHAUSTING OUTSIDE
ENCLOSURE?

- Wind direction will be monitored each day that soil handling activities are occurring outside the environmental enclosures.
- Real-time monitoring (i.e. photoionization detector) for VOCs and particulates (minimum) will be performed at the Site within the enclosures, and along the perimeters of the work zone and Site.
- Verification sampling and analyses for VOCs and particulates (using Tedlar bags or charcoal tubes) will be performed at the Site within the enclosures, and along the perimeters of the work zone and Site.

3.2. Air exhaust

The Contractor will be required to monitor air exhausted from the environmental enclosure to assess the effectiveness of the air treatment system and document that VOCs and air treatment system particulates are not being released above NYSDEC requirements established for the project. At a minimum, air sampling and analysis of the exhaust from these systems will be performed daily for the first week and then on a weekly basis during completion of the soil excavation and mechanical screening activities.

4. Ground water treatment system sampling

4.1. General

During construction, the Contractor will be required to sample and analyze the effluent from the ground water remediation system in compliance with the Monitoring Requirements established by the NYSDEC under the State Pollution Discharge Elimination System (SPDES) fact sheet. Present requirements are included in Appendix A. Analysis of pH will be performed in the field at the time of the effluent sample collection. The analytical results will be transmitted to the NYSDEC in accordance with the SPDES fact sheet reporting requirements. The Contractor will be responsible for operating the ground water remediation system so that the effluent complies with the Effluent Limitations established by the SPDES fact sheet.

5. Bioremediation/soil vapor extraction piles monitoring

5.1. General

This section presents the air, water, and soil sampling and analyses that will be required during the construction and operation of the (BIO/SVE) soil piles.

5.2. Air sampling and analysis

Air sampling and analysis, and monitoring will be performed to assess biological activity, and document VOC concentrations in the exhaust from the biopiles and air treatment system.

Specifically, the following air monitoring, sampling and analyses will be performed:

- Air flow rate extracted from each of the biopiles;
- Air sampling the soils within the biopiles for oxygen and carbon dioxide; and
- Air sampling the exhaust from the BIO/SVE soil pile and exhaust from the granular activated carbon canisters prior to discharge to the atmosphere.

Table 5 presents a summary of the air sampling to be performed during the BIO/SVE soil pile remediation.

6. Quality assurance/quality control

6.1. General

This section presents an overview of the quality assurance/quality control program that will be performed as part of this project.

6.2. Sampling handling

Samples for chemical analysis will be collected and placed in labeled containers provided by the laboratory. The laboratory will pre-label sample containers with the following information: project name, preservation if applicable, and analyses to be performed. Sample labels will have sufficient space for the sampling team to record the following information: sample identification, data and time of collection, and initials of sampling team. Sample containers for water analyses will be pre-preserved. Samples will be uniquely identified for each sample location. This numbering system will provide a tracking procedure to allow retrieval of information regarding a particular sample.

Prior to sample shipment, preserved samples (except volatile organics) will be checked with pH paper to verify sample preservation. Samples requiring refrigeration will be transferred to coolers packed with ice and ice packs to maintain the temperature inside the cooler at approximately 4 °C.

6.4. Sample custody

Chain of custody procedures will be instituted and followed throughout this project. These procedures include field custody, laboratory custody. When the information has been gathered, the file will be inventoried, numbered, and stored for future reference.

Chain of custody records will be initiated in the field when sample collection has been completed. In the field notebook, samplers will note meteorological data, equipment employed for sample collection, well evacuation techniques, calculations, and information regarding collection of QA/QC samples. The following physical information will be recorded in the field notebook, on sample labels, and on chain of custody records by the field sampling team:

- project identification
- sampling location
- required analysis
- date and time of sample collection
- type of sample (matrix)
- sampling technique
- preservation used if applicable
- initials of the sampler.

The field sampler signs the chain of custody when relinquishing custody and includes the form in an air-tight plastic bag in the sample cooler with the associated samples. Sampling containers will be packed in styrofoam sheets, and put in plastic bags to help prevent breakage and cross-contamination. Samples will be shipped in coolers containing ice and ice packs to maintain inside temperature at approximately 4°C. If commercial vendors are used, they will be required to document the transfer of the package within their organization.

7. Reporting

7.1. General

The Contractor will be required to present all analytical reports to the Engineer upon receipt. In addition, the Contractor will be required to prepare weekly reports that are to include the following information:

- Copies of laboratory reports and chain of custody records prepared since the last weekly report.
- A tabulation of results for each matrix sampled.
- A summary of the upcoming sampling and analysis, and monitoring activities to be completed over the next month.
- A summary of any violations/exceedences to the permit limits of other requirements established for the project, and description of actions taken to correct and/or remedy the violation.



Tables



O'BRIEN & GERE
ENGINEERS, INC.

Table 1
Data - 1995
Volatile Organic Compounds
Maestri Site
Geddes, New York

Sample ID Number:	B-12	B-12	B-12	B-13	B-14	B-15	B-16	B-16	B-17	B-17	B-18
Sample Depth (ft):	4-6'	22-24'	10-12'	6-8'	8-10'	8-10'	8-10'	8-10'	8-10'	14-16'	6-8'
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1.1 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.11 U	0.001
Ethylbenzene	1.1 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.11 U	0.001
Toluene	1.1 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.11 U	0.001
Xylenes	41	0.47	0.004 U	0.003 U	0.004 U	0.004 U	0.003 U	0.003 U	0.003 U	0.28	0.004

NOTES: All analytical values measured in mg/kg.

U - below detection limit

Analytical quantitation limits are sample specific and may vary.

Quantitation limits for each sample and analyte are presented in laboratory reports.

Table 1
Data - 1995
Volatile Organic Compounds
Maestri Site
Geddes, New York

Sample ID Number: Sample Depth (ft):	B-19 14-16'	B-20 10-12'	B-21 16-18'	B-21 20-22'	B-22 12-14'	B-23 12-14'	B-23 14-16'	B-24 8-10'	B-25 10-12'	B-25 18-20'
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.11 U	0.001 U	0.001 U	0.001
Ethylbenzene	0.001 U	0.001 U	0.002	0.001 U	0.001 U	0.001 U	0.11 U	0.001 U	0.001 U	0.001
Toluene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.11 U	0.001 U	0.001 U	0.001
Xylene	0.004 U	0.003 U	0.21	0.004 U	0.003 U	0.003 U	0.37	0.003 U	0.004 U	0.003

NOTES: All analytical values measured in mg/kg.

U - below detection limit

Analytical quantitation limits are sample specific and may vary.

Quantitation limits for each sample and analyte are presented in laboratory reports.

Table 1
Data - 1995
Semi-Volatile Organic Compounds
Maestri Site
Geddes, New York

Sample ID Number: Sample Depth (ft):	B-12 4-6'	B-12 22-24'	B-13 10-12'	B-14 6-8'	B-15 8-10'	B-16 8-10'	B-16 16-18'	B-17 8-10'	B-17 14-16'	B-18 6-8'	B-18 12-14'
2-Methylphenol	0.36 U	0.36 U	0.43 U	0.35 U	0.39 U	0.38 U	0.4 U	0.34 U	0.37 U	0.4 U	0.36 U
4-Methylphenol	0.36 U	0.36 U	0.43 U	0.35 U	0.39 U	0.38 U	0.4 U	0.34 U	0.37 U	0.4 U	0.36 U
2,4-Dimethylphenol	0.36 U	0.36 U	0.43 U	0.35 U	0.39 U	0.38 U	0.4 U	0.34 U	0.37 U	0.4 U	0.36 U
Benzoic Acid	1.7 U	1.7 U	2.1 U	1.7 U	1.9 U	1.9 U	2 U	1.7 U	1.8 U	1.9 U	1.8 U
bis(2-Ethylhexyl)phthalate	0.36 U	0.36 U	0.43 U	0.48	0.39 U	0.53	0.4 U	0.34 U	0.37 U	0.4 U	0.36 U

NOTES: All analytical values measured in mg/kg.

U - below detection limit

Analytical quantitation limits are sample specific and may vary.

Quantitation limits for each sample and analyte are presented in laboratory reports.

Table 1
Data - 1995
Semi-Volatile Organic Compounds
Maestri Site
Geddes, New York

Sample ID Number:	B-19	B-20	B-21	B-21	B-21	B-22	B-23	B-23	B-24	B-25	B-25
Sample Depth (ft):	14-16'	10-12'	16-18'	16-18'	20-22'	12-14'	12-14'	14-16'	8-10'	10-12'	18-20'
2-Methylphenol	0.4 U	0.37 U	0.4 U	0.39 U	0.38 U	0.36 U	0.36 U	0.37 U	0.36 U	0.4 U	0.38 U
4-Methylphenol	0.4 U	0.37 U	0.4 U	0.39 U	0.38 U	0.36 U	0.36 U	0.37 U	0.36 U	0.4 U	0.38 U
2,4-Dimethylphenol	0.4 U	0.37 U	0.4 U	0.39 U	0.38 U	0.36 U	0.36 U	0.37 U	0.36 U	0.4 U	0.38 U
Benzoic Acid	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	2 U	1.8 U
bis(2-Ethylhexyl)phthalate	0.4 U	0.37 U	0.4 U	0.39 U	0.38 U	0.36 U	0.36 U	0.37 U	0.36 U	0.4 U	0.38 U

NOTES: All analytical values measured in mg/kg.

U - below detection limit

Analytical quantitation limits are sample specific and may vary.

Quantitation limits for each sample and analyte are presented in laboratory reports.

Table 2
Remedial Action Objectives
Maestri Site
Geddes, New York

Parameter	Soil Clean-up Objective (mg/kg, dry weight)	Ground water clean-up level (ug/l)
Volatile organic compounds (VOCs)		
benzene	0.06	5
ethylbenzene	5.5	5
t-1,2-dichloroethylene	0.3	5
tetrachloroethylene	1.4	5
toluene	1.5	5
xylene	1.2	5
Total VOCs	10	100
Semi-volatile organic compounds (SVOCs)		
benzoic acid	2.7	5
2,4-dimethylphenol	none established	none established
2-methylphenol	0.1	50
4-methylphenol	0.9	50
Total SVOCs	500	none established

DST/maest2.wk1

Table 3
Soil Sampling During Construction
Maestri Site
Geddes, New York

Location	Analysis/Method	Frequency	Action Level	Action
Excavated Soils	Photoionization Detector (PID) with 10.2 eV lamp	Continuous at excavator bucket	background	Soils with PID readings below background are placed in clean stockpile
	VOCs (EPA Method 8010/8020) SVOCs (EPA Method 8270)	Within top 4 ft. of excavation, 3 grab and 1-5 pt. composite per 200 cy excavated	RAOs	Soils with PID readings above background are placed in mechanical screening stockpile
Excavation	VOCs (EPA Method 8010/8020) SVOCs (EPA Method 8270)	at 30 ft. grid nodes as shown on Contract Drawing G-8	RAOs	Soils with levels above action level are to be mechanical screened Soils with levels below action level will be used for backfill If VOC/SVOC levels are below action level excavation can be backfilled If VOC/SVOC levels are above action level, soils in 1 to 2 ft. lifts at a distance 3/4 to the next clean grid node are to be removed to the extent practicable
Mechanical Screening	VOCs (EPA Method 8010/8020) SVOCs (EPA Method 8270)	2 grab samples per 200 cubic yards excavated and stockpiled	RAOs	If VOC/SVOC levels are below action level excavation can be backfilled If VOC levels are above action level, soils will be reprocessed through mechanical screening up to 2 times If SVOC levels are above action level, soils will be staged for treatment in a BIO/SVE soil pile
Soils Stockpiled for Placement in BIO/SVE Soil Pile	VOCs (EPA Method 8010/8020) SVOCs (EPA Method 8270) Moisture Content Moisture Holding Capacity Soil Texture Total Organic Carbon (SW846 9060) Total Kjeldahl Nitrogen Nitrate & Nitrite Nitrogen Ammonia Nitrogen Phosphate Phosphorus Soil pH Total Heterotrophs Petroleum Degradors	2 composite samples per 200 cubic yards stockpiled	none	utilize data to determine moisture and nutrient addition requirements

Table 4
Air Sampling During Construction
Maestri Site
Geddes, New York

Location	Analysis/Method	Frequency	Action Level	Action
Within Environmental Enclosure over excavation and Mechanical Screening Operations	VOCs particulates/dust	Refer to HASP	Refer to HASP	Refer to HASP
Exhaust from Air Collection and Treatment System	benzene (NIOSH 1500/1501) ethylbenzene (NIOSH 1500/1501) t,1,2-dichloroethylene (NIOSH 1015) tetrachloroethylene (NIOSH 1019) toluene (NIOSH 1500/1501) xylene (NIOSH 1500/1501) particulates (miniram)	weekly for soil excavation and mechanical screening activities	Annual Guideline Concentrations (AGCs) in Air Guide 1	Change-out filters upon exceedence of action levels

Table 5
Bioremediation/soil vapor extraction
soil pile remediation monitoring
Maestri Site
Geddes, New York

Location	Analysis/Method	Frequency	Action Level	Action
Exhaust from BIO/SVE soil pile air collection and treatment system	benzene (NIOSH 1500/1501) ethylbenzene (NIOSH 1500/1501) 1,1,2-dichloroethylene (NIOSH 1015) tetrachloroethylene (NIOSH 1019) toluene (NIOSH 1500/1501) xylene (NIOSH 1500/1501) particulates (miniram)	weekly for first month and monthly for balance of BIO/SVE soil pile remediation activities at exhaust from each pile, and exhaust from treatment system	none for soil piles Annual Guideline Concentrations (AGCs) in Air Guide 1 for exhaust soil piles	use data to make system adjustments Change-out filters upon exceedence of action levels
BIO/SVE soil pile leachate	VOCs (EPA Method 8010/8020) SVOCs (EPA Method 8270) Total Kjeldahl Nitrogen Nitrate & Nitrite Nitrogen Ammonia Nitrogen Phosphate Phosphorus	monthly upon occurrence of leachate from BIO/SVE soil piles	upon occurrence of leachate from BIO/SVE soil piles	use data to make system adjustments
BIO/SVE soil pile soil samples	Moisture content Moisture holding capacity Total Kjeldahl Nitrogen Nitrate & Nitrite Nitrogen Ammonia Nitrogen Phosphate Phosphorus soil pH Total Heterotrophs Petroleum Degradors	weekly for first month monthly thereafter	none	use data to make system adjustments
	VOCs (EPA Method 8010/8020) SVOCs (EPA Method 8270)	monthly at five locations per BIO/SVE soil pile	RAOS	use data to make system adjustments, or to make determination that remediation is complete

Appendix H

**Laboratory Sample Results from Test Pits and Soil Borings
Near MW-9**



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Fax 315-478-2107

REPORT OF ANALYSES

Stauffer Management Company
4512 Jordan Road
Skaneateles Falls, NY 13153-
Attn: Ms. Gianna Aiezza

PROJECT NAME: Maestri Soil Borings
DATE: 11/28/2007

SAMPLE NUMBER- 508078 SAMPLE ID- SB-1(18-20)
DATE SAMPLED- 11/19/07
DATE RECEIVED- 11/21/07 SAMPLER- Laura Mona
TIME RECEIVED- 1245 DELIVERED BY- Tom Barry

SAMPLE MATRIX- SO
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS

METHOD

SAMPLE PREP ANALYSIS
DATE BY DATE

TIME BY RESULT UNITS

Sample Receipt Temperature
Percent Solids
Total Xylenes

EPA 160.3
SW846 8260

11/21/07
11/26/07
11/21/07 LRE 11/27/07

RS
1010 MM
LRE

3.0 Degrees C
88. %
4400 ug/Kg

Note: Analysis performed and reported on a wet weight basis.

NYSDOH LAB ID NO. 11246

APPROVED BY:

(Terms and Conditions on Reverse Side)

Barbara L. DuChene
Laboratory Manager

The analytical results on this sample are representative of the sample as received by the Laboratory.



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REPORT OF ANALYSES

Stauffer Management Company
4512 Jordan Road
Skaneateles Falls, NY 13153-
Attn: Ms. Gianna Aiezza

PROJECT NAME: Maestri Soil Borings
DATE: 11/28/2007

SAMPLE NUMBER- 508079 SAMPLE ID- SB-2(13-15)
DATE SAMPLED- 11/20/07
DATE RECEIVED- 11/21/07 SAMPLER- Laura Mona
TIME RECEIVED- 1245 DELIVERED BY- Tom Barry

SAMPLE MATRIX- SO
TIME SAMPLED- 1415
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS

METHOD

SAMPLE PREP ANALYSIS

Sample Receipt Temperature
Percent Solids
Total Xylenes

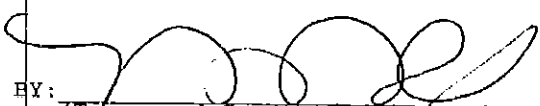
EPA 160.3
SW846 8260

DATE	BY	DATE	TIME	BY	RESULT	UNITS
		11/21/07		RS	3.0	Degrees C
		11/26/07	1010	MM	86. %	
11/21/07	LRE	11/27/07		LRE	< 150	ug/Kg

Note: Analysis performed and reported on a wet weight basis.

NYSDOH LAB ID NO. 11246

APPROVED BY:


(Terms and Conditions on Reverse Side)

Barbara L. DuChene
Laboratory Manager

The analytical results on this sample are representative of the sample as received by the Laboratory.



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REPORT OF ANALYSES

Stauffer Management Company
4512 Jordan Road
Skaneateles Falls, NY 13153-
Attn: Ms. Gianna Aiezza

PROJECT NAME: Maestri Soil Borings
DATE: 11/28/2007

SAMPLE NUMBER- 508080 SAMPLE ID- SB-3(15-16.5)
DATE SAMPLED- 11/20/07
DATE RECEIVED- 11/21/07 SAMPLER- Laura Mona
TIME RECEIVED- 1245 DELIVERED BY- Tom Barry

SAMPLE MATRIX- SO
TIME SAMPLED- 1235
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS

METHOD

SAMPLE PREP ANALYSIS
DATE BY DATE

TIME BY RESULT UNITS

Sample Receipt Temperature
Percent Solids
Total Xylenes

EPA 160.3
SW846 8260

11/21/07
11/26/07
11/27/07

RS
1010 MM
LRE

3.0 Degrees C
87. %
810 ug/Kg

Note: Analysis performed and reported on a wet weight basis.

NYSDOH LAB ID NO. 11246

APPROVED BY:


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Barbara L. DuChene
Laboratory Manager

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REPORT OF ANALYSES

Stauffer Management Company
4512 Jordan Road
Skaneateles Falls, NY 13153-
Attn: Ms. Gianna Aiezza

PROJECT NAME: Maestri Soil Borings
DATE: 11/28/2007

SAMPLE NUMBER- 508081 SAMPLE ID- SB-4(17-18.3)
DATE SAMPLED- 11/19/07
DATE RECEIVED- 11/21/07 SAMPLER- Laura Mona
TIME RECEIVED- 1245 DELIVERED BY- Tom Barry

SAMPLE MATRIX- SO
TIME SAMPLED- 1615
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP DATE	ANALYSIS BY DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature			11/21/07		RS	3.0	Degrees C
Percent Solids	EPA 160.3		11/26/07	1010	MM	87.	%
Total Xylenes	SW846 8260	11/21/07	LRE 11/27/07		LRE	540	ug/Kg

Note: Analysis performed and reported on a wet weight basis.

NYSDOH LAB ID NO. 11246

APPROVED BY:

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Barbara L. DuChene
Laboratory Manager

The analytical results on this sample are representative of the sample as received by the Laboratory.



CHAIN OF CUSTODY RECORD

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BATCH NO: 100116		Page 1 of 1	
Turn-Around Time: ☒ Standard ☐ 1 Week ☐ 72 Hours ☐ 48 Hours ☐ 24 Hours		PARAMETERS FOR ANALYSIS	
CLIENT NAME: HANLEY MONAGHAN & ASSOCIATES ADDRESS: 5000 ERIE BLVD PHONER 315-1085-1092 FAX: 315-1085-1094 CONTACT NAME: LORRA MUA		PROJECT NUMBER/NAME: MICHIGAN STATE PURCHASE ORDER NO: 100116	
Sampler's Name: LORRA MUA		Signature: <i>[Signature]</i>	
LAB USE ONLY		TOTAL NUMBER OF CONTAINERS	
CES Sample Numbers		TOTAL NUMBER OF CONTAINERS	
Collected Date Time		TOTAL NUMBER OF CONTAINERS	
TYPE		TOTAL NUMBER OF CONTAINERS	
Matrix		TOTAL NUMBER OF CONTAINERS	
Other		TOTAL NUMBER OF CONTAINERS	
CLIENT ID/SAMPLE LOCATION		TOTAL NUMBER OF CONTAINERS	
SR-1 (18-20)		TOTAL NUMBER OF CONTAINERS	
SR-2 (13-15)		TOTAL NUMBER OF CONTAINERS	
SR-3 (15-16.5)		TOTAL NUMBER OF CONTAINERS	
SR-4 (17-18.3)		TOTAL NUMBER OF CONTAINERS	
SPECIAL REMARKS:		TOTAL NUMBER OF CONTAINERS	

SAMPLES RELINQUISHED BY:		SAMPLES RECEIVED BY:	
NAME: LORRA MUA SIGNATURE: <i>[Signature]</i>		NAME: TOM HANLEY SIGNATURE: <i>[Signature]</i>	
DATE: 11/20/07 TIME: 12:45		DATE: 11/20/07 TIME: 12:40	
NAME: LORRA MUA SIGNATURE: <i>[Signature]</i>		NAME: TOM HANLEY SIGNATURE: <i>[Signature]</i>	
DATE: 11/20/07 TIME: 12:45		DATE: 11/20/07 TIME: 12:40	
White - CES's Copy • Canary - Return to Client With Report • Pink - Clients Initial Copy		Samples Received in Good Condition: ☐ Yes ☐ No Temperature: _____ °C	



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REPORT OF ANALYSES

Stauffer Management Company
4512 Jordan Road
Skaneateles Falls, NY 13153-
Attn: Ms. Gianna Aiezza

PROJECT NAME: Maestri
DATE: 08/07/2007

SAMPLE NUMBER- 495756 SAMPLE ID- TP-Ex
DATE SAMPLED- 07/30/07
DATE RECEIVED- 08/02/07 SAMPLER- Alan Clark
TIME RECEIVED- 1555 DELIVERED BY- Tom Barry

SAMPLE MATRIX- SO
TIME SAMPLED- 1400
RECEIVED BY- RS
TYPE SAMPLE- Composite

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature				08/02/07		RS	3.0	Degrees C
TCLP Extraction	40CFR 1311			08/02/07		MD	Complete	
ZERO HEADSPACE EXTRACTION	40CFR 1311			08/02/07		MD	Complete	
CYANIDE REACTIVITY	SW846 9010	08/06/07	JDC	08/06/07	1945	JDC	< 10.	mg/Kg
SULFIDE REACTIVITY	SW846 9030			08/06/07	1745	JDC	< 50.	mg/Kg
Percent Solids	EPA 160.3			08/02/07		CD	90.	%
TCLP Metals	SW846-6010	08/03/07	KB	08/06/07		KB		
Arsenic, TCLP	SW846-6010	08/03/07	KB	08/06/07		KB	< 0.50	mg/L
Barium, TCLP	SW846-6010	08/03/07	KB	08/06/07		KB	< 10.0	mg/L
Cadmium, TCLP	SW846-6010	08/03/07	KB	08/06/07		KB	< 0.10	mg/L
Chromium, TCLP	SW846-6010	08/03/07	KB	08/06/07		KB	< 0.50	mg/L
Lead, TCLP	SW846-6010	08/03/07	KB	08/06/07		KB	< 0.50	mg/L
Selenium, TCLP	SW846-6010	08/03/07	KB	08/06/07		KB	< 0.50	mg/L
Silver, TCLP	SW846-6010	08/03/07	KB	08/06/07		KB	< 0.50	mg/L
MERCURY, TCLP (HG)	EPA 245.1			08/03/07		MM	< 0.02	mg/L
PCB's in Solid	EPA 8082	08/02/07	CD	08/04/07		BLD		
Aroclor 1221	EPA 8082	08/02/07	CD	08/04/07		BLD	< 0.5	mg/Kg
Aroclor 1232	EPA 8082	08/02/07	CD	08/04/07		BLD	< 0.5	mg/Kg
Aroclor 1242/1016	EPA 8082	08/02/07	CD	08/04/07		BLD	< 0.5	mg/Kg
Aroclor 1248	EPA 8082	08/02/07	CD	08/04/07		BLD	< 0.5	mg/Kg
Aroclor 1254	EPA 8082	08/02/07	CD	08/04/07		BLD	< 0.5	mg/Kg

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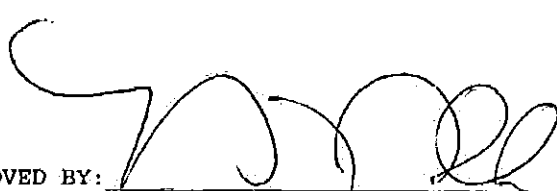
Page 2 of 2

CONTINUATION OF DATA FOR SAMPLE NUMBER 495756

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Aroclor 1260	EPA 8082	08/02/07	CD	08/04/07		BLD	< 0.5	mg/Kg
TCLP VOLATILES	EPA 8260			08/03/07		LRE		
BENZENE, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
CARBON TETRACHLORIDE, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
CHLOROBENZENE, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
CHLOROFORM, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
1,2-DICHLOROETHANE, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
1,1-DICHLOROETHENE, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
METHYL ETHYL KETONE, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
TETRACHLOROETHENE, TCLP	EPA 8260			08/03/07		LRE	< 0.20	mg/L
TRICHLOROETHENE, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
VINYL CHLORIDE, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
1,4-DICHLOROBENZENE, TCLP	EPA 8260			08/03/07		LRE	< 0.20	mg/L
SEMI-VOLATILES, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.050	mg/L
NITROBENZENE, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
PYRIDINE, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
CRESOLS (TOTAL), TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
2,4-DINITROTOLUENE, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
HEXACHLOROBENZENE, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
HEXACHLOROBUTADIENE, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
HEXACHLOROETHANE, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
PENTACHLOROPHENOL, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
2,4,5-TRICHLOROPHENOL, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
2,4,6-TRICHLOROPHENOL, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:


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REPORT OF ANALYSES

Stauffer Management Company
4512 Jordan Road
Skaneateles Falls, NY 13153-
Attn: Ms. Gianna Alezza

PROJECT NAME: Maestri
DATE: 08/07/2007

SAMPLE NUMBER- 495757 SAMPLE ID- TP-Ex
DATE SAMPLED- 07/30/07
DATE RECEIVED- 08/02/07 SAMPLER- Alan Clark
TIME RECEIVED- 1555 DELIVERED BY- Tom Barry

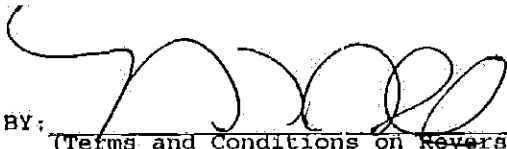
SAMPLE MATRIX- SO
TIME SAMPLED- 1405
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

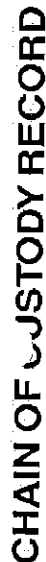
ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		08/02/07		RS	3.0	Degrees C
Ignitability of Solids	SW846 1030	08/06/07	1345	RRB	NO BURN	mm/sec

NYSDOH LAB ID NO. 11246

APPROVED BY:


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The analytical results on this sample are representative of the sample as received by the Laboratory.



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Syracuse, NY 13210

Phone: 315-478-2374

Fax: 315-478-2107

95196

Page 1 of 1

Turn-Around Time:

☐ Standard

☒ 1 Week

072 HOURS

☐ 48 Hours

CLIENT NAME: Staffer Management	PROJECT NUMBER/NAME:
ADDRESS: 4512 Jordan Rd	
Phone: 615/685-1619	
FAX: 615/685-1620	
CONTACT NAME: Larry Mena	

Signature: Algo Clark

Signature: 

[illegible]

SAMPLES RELINQUISHED BY:

SAMPLES RECEIVED BY:

NAME: Alex C DATE: 8/1/07
SIGNATURE: _____ TIME: _____

NAME: Tom Barry DATE: 3/6/7
SIGNATURE: _____ TIME: _____

NAME: Tom CAPRY
SIGNATURE: [Signature]
DATE: 8/2/07
TIME: 1:55

NAME: Chen, Yi Qian DATE: 3/2/97
SIGNATURE: _____ TIME: _____

Samples Received in Good Condition:

☐ Yes ☐ No

Temperature: 20°C

White - CES's Copy • Canary • Return to Client With Report • Pink - Clients Initial Copy

Appendix I

Letter to NYSDEC Detailing Work Done Near MW-9 in July 2007

October 24, 2007

Mr. David Chiusano
NYS Department of Environmental Conservation
Remedial Bureau E, Section A
Division of Environmental Remediation
625 Broadway 12th Floor
Albany, NY 12233-7017

Re: Stauffer Management Company, Maestri Site #7-34-025, Onondaga County
Summary of Work Report - Revised

Dear Mr. Chiusano:

On behalf of Stauffer Management Company, LLC (SMC), Envirospec Engineering, PLLC (Envirospec) has prepared the following letter report to summarize field work completed at the SMC Maestri Site on July 25, 2007. The work was completed in accordance with the letter work plan submitted by Envirospec on June 19, 2007 with a response to NYSDEC comments on July 12, 2007. NYSDEC approval was granted in a letter dated July 13, 2007.

General Overview

Field activities completed were at the request of the NYSDEC in order to address concerns resulting from a groundwater sample collected from MW-9 on April 3, 2007 which showed elevated levels of xylene at 827 ppb. The NYSDEC had concerns that an area of soil contamination remains in the area of MW-9 and MW-2A (formerly RW-2). To address NYSDEC concerns, two test pits were excavated in the vicinity of these wells to determine if a source of soil contamination remains. Field work began with excavation of the first test pit (TP1) running from east to west beginning inside the footprint of the original excavation completed during the remedial action near MW-9. The test pit TP1 extended to outside the original footprint. A second test pit (TP2) was then excavated from north to south perpendicular to TP1 creating a "T" shape. TP2 included the area of MW-9 and MW-8. The locations of the test pits are shown on Figure 1.

During the test pit activities, an odor was noted at a depth of approximately 6.5 to 8 feet below ground surface (bgs). Headspace samples were taken throughout excavation of both test pits with results ranging from 0.0 ppm to 258 ppm. Overburden soils were staged on poly adjacent to the excavation, screened with the PID, and ultimately re-used as backfill upon confirmation of non-detectable PID screen readings and concurrence with the DEC. Excavated soils were loaded into lined rolloff boxes positioned next to the excavation. TP1 and TP2 were delineated with poly and backfilled with clean backfill and overburden soil from TP1.

Objectives

The purpose of the field activities was to determine if there was an area of soil contamination remaining in the vicinity of MW-2A and MW-9.

Project Team

Envirospec Engineering, PLLC provided project management and field oversight. Abscope Environmental, Inc completed the site work. The NYSDEC provided regulatory oversight of the excavation activities.

Summary of Work

Field work was completed on July 25, 2007. A photographic log and field notes documenting the project tasks are attached to this letter report.

Work began at 9:00 AM with representatives from EnviroSpec and the NYSDEC discussing where to begin TP1. Once the location was determined, the test pit was excavated from east to west with a length of approximately twenty-one (21) feet and a width of four (4) feet. A three (3) foot layer of overburden was first removed. Three (3) headspace samples were taken from the overburden, all of which showed PID readings of 0.0 ppm. The next layer observed in TP1 was a sandy layer beginning approximately three (3) feet bgs. This layer continued to approximately eight (8) feet bgs where a solid, cobblestone-like layer was encountered. Excavation continued through the cobblestone layer into a silt layer, which began at approximately eleven (11) feet bgs and ended at bedrock which was encountered at sixteen (16) feet bgs. The NYSDEC representative indicated the presence of an odor from approximately 8 feet to 16 feet bgs. Two (2) headspace samples from the silt layer exhibiting the odor had PID readings of 24.5 and 40.6 ppm.

TP2 began at approximately 10:00 am and was first excavated perpendicular to TP1, at a safe distance to maintain MW-8 and MW-9. The initial test pit was excavated from east to west to a length of four (4) feet. During the excavation, an electrical conduit and two waterlines were encountered. The two water lines were determined to be plugged lines connected to MW-2A which was formerly a recovery well and was replaced with a monitoring well during field work completed the week of April 24-28, 2006. The electrical conduit was former power to the RW-2 pump and was not live. The conduit and water lines were removed from the test pit.

The layers observed in TP2 were similar in appearance to those observed in TP1. The cobble layer of TP2 began at a depth of approximately 6.5 feet bgs. The silt layer began at approximately 10.5 feet below grade and ended at bedrock at a depth of sixteen (16) feet bgs. After discussion between EnviroSpec and the NYSDEC, it was decided to extend TP2 in order to excavate additional material that exhibited an odor. In order to extend TP2, MW-8 and MW-9 were removed. Odors were again noted by the NYSDEC representative at similar depths as encountered in TP1.

Samples for PID screening and headspace readings were collected throughout the excavation. The results are outlined in Table 1. The highest PID reading was from TP2 which had a PID screen of 432 ppm and a headspace reading of 258 ppm.

Table 1 – PID/Headspace Sample Summary

Test Pit	Depth (ft)	Time	Screen	Headspace	Other Details
2	~11-12.5	-	185	171	1st sample below hard cobble
2	13.0	-	30.2	147	Exact time not recorded, collected between 10:47 and 11:13 am
2	14.0	-	9.5	16.4	Exact time not recorded, collected between 10:47 and 11:13 am
2	14.5	11:13 AM	196	76.9	NYSDEC collected sample from same area
2	15.5	-	227	158	Exact time not recorded, between 11:13 and 11:35 am
2	16.0	-	100	121	Exact time not recorded, between 11:13 and 11:35 am
2	13.0	11:52 AM	432	258	1st sample taken directly below MW-8 and MW-9
2	15.0	-	10.4	5.1	Exact time not recorded, between 11:52 am and 12:25 pm
1	~13-14	12:25 PM	97.0	16.5	South wall of TP1
2	~14-15	1:14 PM	68.0	20.5	Near the locations of MW-9 and MW-8
-	~15-16	1:27 PM	77.0	93.4	On the corner between TP1 and TP2
2	15.0	1:34 PM	241	129	West wall of TP2
2	~3-6.5	1:46 PM	22.0	9.0	West wall, just above cobble layer
2	~3-6.6	1:53 PM	0.5	0.0	North wall, just above cobble layer
2	~10.5-16	1:57 PM	127	73.3	North wall, just below cobble layer
2	~3-6.6	2:00 PM	0.0	0.0	East wall, just above cobble layer
2	~10.5-16	2:02 PM	26.0	16.9	East wall, just below cobble layer
1	~3-8	2:11 PM	0.0	0.0	South wall, just above cobble layer
1	~11-16	2:07 PM	224	45.4	South wall, just below cobble layer

After excavation, the area was delineated with poly and backfilled. The DEC concurred that overburden material could be utilized as backfill within the excavated area based on visual assessment and non-detectable PID readings. Overburden material (approximately 30 cy) was placed in the bottom of the excavation followed by a layer of crusher-run stone (approximately 35 cy) and then clean import sand (approximately 85 cy). Material was compacted with the excavator as backfilling progressed. Clean import sand was obtained from stockpiles of backfill material staged at the SMC Skaneateles Falls site. The import sand originated from an approved source located on Depot Road in Sennett, NY. Crusher-run stone was obtained from Hanson Aggregates in Skaneateles, NY. To facilitate site restoration, the excavation area was restored with topsoil, seed, and mulch.

Waste Management

Waste generated from the field work consisted of excavated soil and solid waste (e.g. PPE, PVC piping, conduit, and removed monitoring wells). Soil generated from the excavation was loaded into five (5) rollofs staged adjacent to the excavation. In order to remove as much of the impacted soil as possible, each rolloff was loaded to maximum holding capacity (approximately 30 cubic yards each) with the understanding that material would need to be appropriately redistributed for offsite disposal. Excavation ceased upon reaching maximum capacity in all rollofs.

One RCRA sample (Sample ID: TP-Ex) was collected from the five (5) rollofs on July 30, 2007 to characterize the waste for offsite disposal. A five-point composite sample was collected with one point from each rolloff. Rollofs were screened with a PID and a discrete grab sample was

collected from a randomly selected rolloff as each exhibited a PID reading of 0.0 ppm. The composite sample was analyzed for TCLP VOC, SVOC, and metals; PCBs; and reactivity. The grab sample was analyzed for ignitability. Analytical data showed the material was non-hazardous and it was approved for offsite disposal at Waste Management's Mill Seat Landfill in Bergen, NY. Prior to transportation, additional rolloff boxes were brought onsite and the material redistributed so each rolloff would be within appropriate weight limits. A total of nine (9) rolloff boxes were shipped from August 22, 2007 to August 27, 2007 for a total of 170.31 tons. The chain of custody, analytical results, and waste manifests are attached to this letter report.

Proposed Additional Work

Monitoring Well

Two (2) monitoring wells were removed during the excavation (MW-8 and MW-9). SMC is proposing to install one new monitoring well to replace MW-9 which had exhibited elevated levels of xylene. The new well will be installed in the area where MW-9 was located.

Construction of the monitoring well will consist of a two-inch diameter well casing with ten feet of Schedule 40 PVC screen and riser. The well screen will be installed starting at 5 feet above the bottom of the well boring. The annular space in the screened interval will be sand packed with a No. 2 filter sand pack to one to two feet above the top of the screen. The annular space above the screened interval will be sealed with a layer of bentonite to provide a seal above the sand pack. The surface completion will consist of either a stick-up protective steel casing set in concrete and fitted with a lockable cap or a flush-to grade, bolt down, gasketed curb box set in concrete and a lockable sanitary plug.

The monitoring well will be developed no sooner than 24 hours after installation. The well will be purged with a low flow submersible pump. Purging will continue until the water is visibly free of suspended materials and field parameters (pH, temperature) stabilize, or a maximum of 24 hours.

After installation and development of the monitoring well, it will be sampled. If time has elapsed between development and sampling, three well volumes will be purged prior to sampling. The well will be gauged for depth-to-water and total depth from the top of casing to determine the elevation of groundwater and volume of water in the well. The well will be sampled using a dedicated disposable bailer. Samples will be collected in laboratory provided sample jars and placed on ice for shipping or delivery under chain-of-custody protocols. Samples will be analyzed for xylene via EPA Method 8260.

Soil Borings

To further investigate soil conditions in the area of work, SMC is proposing to install four (4) soil borings outside the area of the test pits. Proposed locations are shown on Figure 1. Soil borings will be completed with two-foot split-spoon samplers advanced to bedrock. Soil will be placed back into the hole after the boring is completed.

Each boring will be characterized, screened with a PID, and sampled. A headspace reading will be taken from each interval that has an elevated PID reading and a sample retained from the interval with the highest headspace reading to be sent to the lab for analysis. If there is no reading

on the PID, the interval above bedrock will be sampled. Samples will be analyzed for xylene via EPA Method 8620.

Schedule

SMC is proposing to complete the additional work upon approval by the NYSDEC. The NYSDEC will be provided with at least five (5) days notice prior to the initiation of work. After completion of the work, a letter report will be submitted to the NYSDEC summarizing the results. The report will also contain a plan for shutting down the groundwater recovery system which will consist of sampling perimeter wells to ensure the plume does not migrate.

Should you have any questions regarding the project, please do not hesitate to contact me at (518) 438-6809.

Sincerely,

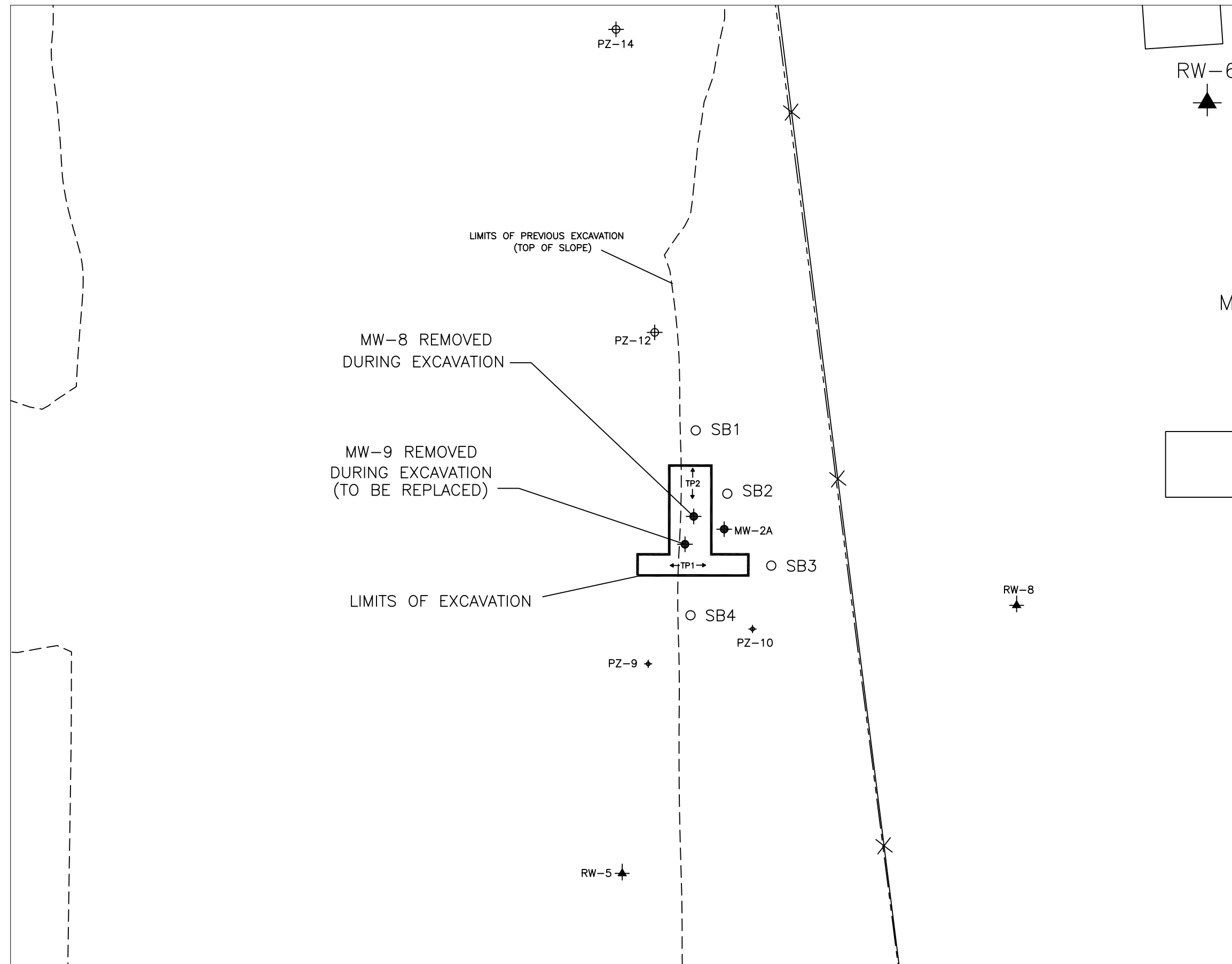
Gianna Aiezza

Gianna Aiezza, PE
Principal Engineer
Envirospec Engineering, PLLC

Enc

cc: B. Shay/P. Ekoniak – SMC
J. Abraham – SMC
L. Mona/M. Newman - EnviroSpec

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
---	---	ALB	DEO		---		---		
---	---		7-19-99		---		---		



LEGEND

-  MONITORING WELL
 RECOVERY WELL
 PIEZOMETER
 MAESTRI SITE PROPERTY BOUNDARY
 8' HIGH SECURITY FENCE
 EP ELECTRIC POLE
 PROPOSED SOIL BORING LOCATIONS

SPEC
CONSULTING, LLC 18 COMPUTER DRIVE WEST
ALBANY, NY 12205
PHONE: 518.438.6809
FAX: 518.438.8527

STAUFFER
MANAGEMENT COMPANY
BASE MAP PROVIDED BY IT CORPORATION

FIGURE 1
SITE MAP

MAESTRI SITE
904 STATE FAIR BLVD.
GEDDES, NEW YORK



Certified
Environmental
Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

Stauffer Management Company
4512 Jordan Road
Skaneateles Falls, NY 13153-
Attn: Ms. Gianna Aiezza

PROJECT NAME: Maestri
DATE: 08/07/2007

SAMPLE NUMBER- 495756 SAMPLE ID- TP-Ex
DATE SAMPLED- 07/30/07
DATE RECEIVED- 08/02/07 SAMPLER- Alan Clark
TIME RECEIVED- 1555 DELIVERED BY- Tom Barry

SAMPLE MATRIX- SO
TIME SAMPLED- 1400
RECEIVED BY- RS
TYPE SAMPLE- Composite

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature				08/02/07		RS	3.0	Degrees C
TCLP Extraction	40CFR 1311			08/02/07		MD	Complete	
ZERO HEADSPACE EXTRACTION	40CFR 1311			08/02/07		MD	Complete	
CYANIDE REACTIVITY	SW846 9010	08/06/07	JDC	08/06/07	1945	JDC	< 10.	mg/Kg
SULFIDE REACTIVITY	SW846 9030			08/06/07	1745	JDC	< 50.	mg/Kg
Percent Solids	EPA 160.3			08/02/07		CD	90.	%
TCLP Metals	SW846-6010	08/03/07	KB	08/06/07		KB		
Arsenic, TCLP	SW846-6010	08/03/07	KB	08/06/07		KB	< 0.50	mg/L
Barium, TCLP	SW846-6010	08/03/07	KB	08/06/07		KB	< 10.0	mg/L
Cadmium, TCLP	SW846-6010	08/03/07	KB	08/06/07		KB	< 0.10	mg/L
Chromium, TCLP	SW846-6010	08/03/07	KB	08/06/07		KB	< 0.50	mg/L
Lead, TCLP	SW846-6010	08/03/07	KB	08/06/07		KB	< 0.50	mg/L
Selenium, TCLP	SW846-6010	08/03/07	KB	08/06/07		KB	< 0.50	mg/L
Silver, TCLP	SW846-6010	08/03/07	KB	08/06/07		KB	< 0.50	mg/L
MERCURY, TCLP (HG)	EPA 245.1			08/03/07		MM	< 0.02	mg/L
PCB's in Solid	EPA 8082	08/02/07	CD	08/04/07		BLD		
Aroclor 1221	EPA 8082	08/02/07	CD	08/04/07		BLD	< 0.5	mg/Kg
Aroclor 1232	EPA 8082	08/02/07	CD	08/04/07		BLD	< 0.5	mg/Kg
Aroclor 1242/1016	EPA 8082	08/02/07	CD	08/04/07		BLD	< 0.5	mg/Kg
Aroclor 1248	EPA 8082	08/02/07	CD	08/04/07		BLD	< 0.5	mg/Kg
Aroclor 1254	EPA 8082	08/02/07	CD	08/04/07		BLD	< 0.5	mg/Kg

The analytical results on this sample are representative of the sample as received by the Laboratory.



Certified
Environmental
Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

Page 2 of 2

CONTINUATION OF DATA FOR SAMPLE NUMBER 495756

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Aroclor 1260	EPA 8082	08/02/07	CD	08/04/07		BLD	< 0.5	mg/Kg
TCLP VOLATILES	EPA 8260			08/03/07		LRE		
BENZENE, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
CARBON TETRACHLORIDE, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
CHLOROBENZENE, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
CHLOROFORM, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
1,2-DICHLOROETHANE, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
1,1-DICHLOROETHENE, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
METHYL ETHYL KETONE, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
TETRACHLOROETHENE, TCLP	EPA 8260			08/03/07		LRE	< 0.20	mg/L
TRICHLOROETHENE, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
VINYL CHLORIDE, TCLP	EPA 8260			08/03/07		LRE	< 0.050	mg/L
1,4-DICHLOROBENZENE, TCLP	EPA 8260			08/03/07		LRE	< 0.20	mg/L
SEMI-VOLATILES, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.050	mg/L
NITROBENZENE, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
PYRIDINE, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
CRESOLS (TOTAL), TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
2,4-DINITROTOLUENE, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
HEXACHLOROBENZENE, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
HEXACHLOROBUTADIENE, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
HEXACHLOROETHANE, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
PENTACHLOROPHENOL, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
2,4,5-TRICHLOROPHENOL, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L
2,4,6-TRICHLOROPHENOL, TCLP	EPA 8270	08/03/07	LRE	08/06/07		KEC	< 0.10	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

(Terms and Conditions on Reverse Side)

The analytical results on this sample are representative of the sample as received by the Laboratory.



Certified
Environmental
Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

Stauffer Management Company
4512 Jordan Road
Skaneateles Falls, NY 13153-
Attn: Ms. Gianna Aiezza

PROJECT NAME: Maestri
DATE: 08/07/2007

SAMPLE NUMBER- 495757 SAMPLE ID- TP-Ex
DATE SAMPLED- 07/30/07
DATE RECEIVED- 08/02/07 SAMPLER- Alan Clark
TIME RECEIVED- 1555 DELIVERED BY- Tom Barry

SAMPLE MATRIX- SO
TIME SAMPLED- 1405
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		08/02/07		RS	3.0	Degrees C
Ignitability of Solids	SW846 1030	08/06/07	1345	RRB	NO BURN	mm/sec

NYSDOH LAB ID NO. 11246

APPROVED BY:

(Terms and Conditions on Reverse Side)

The analytical results on this sample are representative of the sample as received by the Laboratory.



Certified Environmental Services, Inc.
1401 Erie Blvd. East
Syracuse, NY 13210

Phone: 315-478-2374

Fax: 315-478-2107

CHAIN OF CUSTODY RECORD

BATCH NO: 95196

Page 1 of 1

Turn-Around Time:

☐ Standard

☒ 1 Week

☐ 72 Hours

☐ 48 Hours

☐ 24 Hours

CLIENT NAME: Stauffer Management

ADDRESS: 4512 Jordan Rd

Syracuse, NY 13215

PHONE: (315) 685-6195

FAX: (315) 685-6209

CONTACT NAME: Laura Mang

PROJECT NUMBER/NAME:

Maestri

PURCHASE ORDER NO:

Signature: Alan Clark

Sampler's Name: Alan Clark

LAB USE ONLY

CES Sample Numbers

Collected

Date

Time

TYPE

Comp.

Grab

Aqueous

Soil

Other

CLIENT ID/SAMPLE LOCATION

TP-EX

TP-EX

TOTAL NUMBER OF CONTAINERS

TCPC (loc/stad/mats)

Reactivity

PCBs

Isotach

SPECIAL REMARKS:

TOTAL NUMBER OF CONTAINERS

SAMPLES RELINQUISHED BY:

NAME: Alan Clark

SIGNATURE: [Signature]

DATE: 8/1/07

TIME: 1:00

SAMPLES RECEIVED BY:

NAME: Tom Barry

SIGNATURE: [Signature]

DATE: 8/2/07

TIME: 1430

NAME: Tom Barry

SIGNATURE: [Signature]

DATE: 8/2/07

TIME: 1555

Samples Received in Good Condition:

☐ Yes ☐ No

Temperature 30 °C

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD182796914		2. Page 1 of 1		3. Emergency Response Phone 800-424-4300		4. Waste Tracking Number 16010	
		5. Generator's Name and Mailing Address STAUFFER MANAGEMENT CO, LLC 1800 CONCORD PIKE WILMINGTON, DE 302-886-5147		Generator's Site Address (if different than mailing address) STAUFFER MANAGEMENT CO, LLC (MAESTRI 901 STATE FAIR BLVD SYRACUSE, NY 13209 SITE)					
6. Transporter 1 Company Name ABSCOPE						U.S. EPA ID Number			
7. Transporter 2 Company Name						U.S. EPA ID Number			
8. Designated Facility Name and Site Address WM OF NY - MILLSEAT LANDFILL 303 BREW ROAD BERGEN, NY 14416 (885) 494-3000						U.S. EPA ID Number			
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity		12. Unit Wt./Vol.			
		No. Type							
1. NON REGULATED MATERIAL		002 CM		44,000		P			
2.									
3.									
4.									
13. Special Handling Instructions and Additional Information PROFILE: 101823 NY SOLID DEBRIS Act: 25.78 T SAMPLE ID: TP-EX									
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/Officer's Printed/Typed Name Laura Mena on behalf of Stauffer Management		Signature <i>Laura Mena</i>				Month Day Year 08 21 07			
15. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit:				Date leaving U.S.:			
Transporter Signature (for exports only):									
16. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Randy Fucione		Signature <i>Randy Fucione</i>				Month Day Year 8 21 07			
Transporter 2 Printed/Typed Name		Signature				Month Day Year			
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)									
Jane Gracie-scalehouse Wm Millseat Landfill Bergen, New York 14482 585-494-3000 ext.230 Printed/Typed Tuesday August 21, 2007 the manifest except as noted in Item 17a Signature _____									
Month Day Year									

FLAT LINED SCALE # 24

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD582796914	2. Page 1 of 1	3. Emergency Response Phone 800-424-9300	4. Waste Tracking Number 116011
5. Generator's Name and Mailing Address STUPPER MANAGEMENT COMPANY 1800 CONCORD PIKE WILMINGTON, DE (302) 886-5147		Generator's Site Address (if different than mailing address) STUPPER MANAGEMENT CO (WASTRI SITE) 904 STATE FAIR BLVD SYRACUSE, NY 13209			
6. Transporter 1 Company Name		U.S. EPA ID Number			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address WM OF NY - MILL SEAT LANDFILL 303 BREW ROAD DEGEN, NY 14116 (585) 444-3000		U.S. EPA ID Number			
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
1. NON-REGULATED MATERIAL		No.	Type		
		002	CM	60000	P
13. Special Handling Instructions and Additional Information PROFILE: 10823 NY SAMPLE ID: TP-EX SOL/DEBRIS NOTE: WEIGHT IS ESTIMATED OVERWEIGHT !!! Act: 43.94T					
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/Officer's Printed/Typed Name Laura Mona on behalf of Stupper		Signature Laura Mona		Month 08	Day 20
15. International Shipments		Port of entry/exit:		Date leaving U.S.:	
☐ Import to U.S.		☐ Export from U.S.			
16. Transporter Acknowledgment of Receipt of Materials		Signature		Month	Day
Transporter 1 Printed/Typed Name				Year	
Transporter 2 Printed/Typed Name		Signature		Month	Day
				Year	
17. Discrepancy		☐ Quantity		☐ Type	
17a. Discrepancy Indication Space		☐ Residue		☐ Partial Rejection	
		☐ Full Rejection			
17b. Alternate Facility (or Generator)		Manifest Reference Number:		U.S. EPA ID Number	
Facility's Phone:				Month	
17c. Signature of Alternate Facility (or Generator)				Day	
				Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a		Signature		Month	
Printed/Typed Name				Day	
				Year	

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD98279614		2. Page 1 of 1	3. Emergency Response Phone 800-424-9300	4. Waste Tracking Number 110012	
		5. Generator's Name and Mailing Address STIFFER MANAGEMENT COMPANY 1800 CONCORD PIKE WILMINGTON, DE 19850 (302) 886-5147		Generator's Site Address (if different than mailing address) STIFFER MANAGEMENT COMPANY/MAESTRIST 904 STATE FAIR BLVD SYRACUSE, NY 13209			
6. Transporter 1 Company Name RICCELLI				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address WM OF NY - MILLSEAT LANDFILL 303 BREW ROAD BERGEN, NY 14416 (855) 494-3550				U.S. EPA ID Number			
9. Waste Shipping Name and Description 1. NON-REGULATED MATERIAL		10. Containers		11. Total Quantity 60,000	12. Unit P		
		No.	Type				
		2	Containers				
13. Special Handling Instructions and Additional Information PROFILE: 101803 NY SOIL/DEBRIS SAMPLE: TP EX		Act: 37.50T					
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/Officer's Printed/Typed Name Laura Mena on behalf of Stiffer Management		Signature <i>Laura Mena</i>		Month Day Year 08 22 07			
15. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials		Signature <i>Oliver Turner</i>		Month Day Year 8 22 07			
17. Discrepancy		Signature		Month Day Year			
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection		Manifest Reference Number:		U.S. EPA ID Number			
17b. Alternate Facility (or Generator)							
Facility's Phone:				Month Day Year			
17c. Signature of Alternate Facility (or Generator)							
18. Designated Facility Owner Printed/Typed Name Jane Gracie=Scalehouse WM Millseat Landfill Bergen, NY 14416 585-494-3000 ext 230 Thursday August 23, 2007		Signature <i>Jane Gracie</i>		Month Day Year 08 23 07			

GENERATOR

INT'L
TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

MD982-76A14

2. Page 1 of 1

3. Emergency Response Phone

800-424-9300

4. Waste Tracking Number

16013

5. Generator's Name and Mailing Address

STADLER MANAGEMENT COMPANY, LLC
100 CONCORD PIKE
WILMINGTON, DE 19850

Generator's Phone:

6. Transporter 1 Company Name

RICCELLI

7. Transporter 2 Company Name

8. Designated Facility Name and Site Address

WM OF NY - MILL SEAT LANDFILL
303 BREW ROAD
BERGEN, NY 14416

Facility's Phone:

9. Waste Shipping Name and Description

1. NON-REGULATED MATERIAL

10. Containers

No.

Type

11. Total Quantity

(EST)

12. Unit

Wt./Vol.

1

30,000

P

13. Special Handling Instructions and Additional Information

PROFILE: 101823NY SOIL/DEBRIS

SAMPLE: TP-EX

NOTE: WEIGHT IS ESTIMATED

Net. 21.60T

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/Officer's Printed/Typed Name

Laura Nona on behalf of Stadler Management

Signature

Laura Nona

Month Day Year

8 24 07

15. International Shipments

☐ Import to U.S.☐ Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Timothy V. Sheard

Signature

Timothy V. Sheard

Month Day Year

8 24 07

Transporter 2 Printed/Typed Name

Signature

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity☐ Type☐ Residue☐ Partial Rejection☐ Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

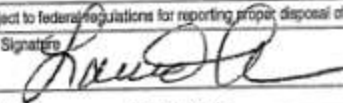
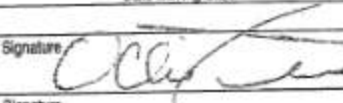
Month Day Year

Jane Gracie Scalehouse
Wm Millseat Landfill
Bergen, NY 14416
585-494-3000 ext. 230
Friday August 24, 2007

he manifest except as noted in item 17a

Signature

Month Day Year

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD982796914		2. Page 1 of 1	3. Emergency Response Phone 800-424-4300	4. Waste Tracking Number 110014	
5. Generator's Name and Mailing Address STUPPER MANAGEMENT COMPANY, LLC 1800 CONCORD PIKE WILMINGTON, DE 19850 (302) 886-5147				Generator's Site Address (if different than mailing address) STUPPER MANAGEMENT, CO (MAESTRI SITE) 401 STATE FAIR BLVD SIRACUSE, NY 13209 (315) 685-6045			
6. Transporter 1 Company Name RICCELLI				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address WM OF NY - MILLSEAT LANDFILL 305 BREW ROAD BERGEN, NY 14416 (585) 494-3000				U.S. EPA ID Number			
Facility's Phone:				(EST)			
9. Waste Shipping Name and Description 1. NON-REGULATED MATERIAL				10. Containers		11. Total Quantity	12. Unit Wt./Vol.
				No.	Type		
				001	CM	30,000	P
2.							
3.							
4.							
13. Special Handling Instructions and Additional Information PROFILE: 101823NY SOIL/DE BRB NOTE: WEIGHT IS ESTIMATED SAMPLE: TP-EX ACT: 19.71T							
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/Officer's Printed/Typed Name Laura Nava on behalf of Stupper Management				Signature 		Month Day Year 08 23 07	
15. International Shipments ☐ Import to U.S. ☐ Export from U.S.				Port of entry/exit: Date leaving U.S.:			
16. Transporter Acknowledgment of Receipt of Materials				Signature 		Month Day Year 8 23 07	
Transporter 1 Printed/Typed Name Colie Turner				Signature		Month Day Year	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
17. Discrepancy							
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
17b. Alternate Facility (or Generator)				Manifest Reference Number: U.S. EPA ID Number			
Facility's Phone:				Month Day Year			
17c. Signature of Alternate Facility (or Generator)				Month Day Year			
18. Designator Printed/Typed Jane Gracie=Scalehouse WM Millseat Landfill Bergen, NY 14416 585-494-3000 ext 230 Thursday August 23, 2007				the manifest except as noted in item 17a Signature Month Day Year			

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

NYD982796914

2. Page 1 of

1

3. Emergency Response Phone

800-424-9300

4. Waste Tracking Number

110014

5. Generator's Name and Mailing Address

STOFFER MANAGEMENT COMPANY, LLC
1800 CONCORD PIKE
WILMINGTON, DE 19850

Generator's Phone:

(302) 886-5147

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

STOFFER MANAGEMENT CO. (MAESTRI SITE)
904 STATE FAIR BLVD
SYRACUSE, NY 13204

U.S. EPA ID Number

U.S. EPA ID Number

U.S. EPA ID Number

6. Transporter 1 Company Name

RICCELLI

7. Transporter 2 Company Name

8. Designated Facility Name and Site Address

WM OF NY - MILL SORT LANDFILL
303 BRIDLE ROAD
BERGEN, NY 14416

Facility's Phone:

(585) 494-3000

(157)

9. Waste Shipping Name and Description

1. NON-REGULATED MATERIAL

10. Containers

No.

Type

11. Total Quantity

12. Unit

Wt./Vol.

1

CM

38,000

P

13. Special Handling Instructions and Additional Information

PROFILE: 101823 NY SOLID DEBRIS

NOTE: WEIGHT IS ESTIMATED

SAMPLE: TP-EX

ACT: 21.78 T

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/Officer's Printed/Typed Name

Laura Mona on behalf of Stoffer Management

Signature

Laura Mona

Month Day Year

08 27 07

15. International Shipments

☐ Import to U.S.☐ Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Tim Shearn

Signature

Tim Shearn

Month Day Year

8 27 07

Transporter 2 Printed/Typed Name

Signature

Month Day Year

Month Day Year

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

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

Jane Grocie

Signature

J. Grocie

Month Day Year

8 27 07

Envirospec Engineering, PLLC
Photographic Record

Customer: **Stauffer Management Co.**

Project Number: **E07-102**

Site Name: **SMC Maestri**

Site Location: **Geddes, New York**

Pic #: **070725076**

Date: **07/25/07**

Direction:
Looking SE

Comments:

**Orange fence
shows demarcation
of previous
excavation**



Pic #: **070725077**

Date: **07/25/07**

Direction:
Looking S

Comments:

**Overburden pile
from TP1**



Envirospec Engineering, PLLC
Photographic Record

Customer: **Stauffer Management Co.**

Project Number: **E07-102**

Site Name: **SMC Maestri**

Site Location: **Geddes, New York**

Pic #: **070725086**

Date: **07/25/07**

Direction:
**Looking W, Into
TP1**

Comments:

**TP1's three primary
layers can be
viewed. Odor
observed in cobble
layer.**



Pic #: **070725093**

Date: **07/25/07**

Direction:
Looking E

Comments:

**Two (2) waterlines
and one (1)
electrical line were
found in TP2. None
were live, removed
from the test pits.**



Envirospec Engineering, PLLC
Photographic Record

Customer: **Stauffer Management Co.**

Project Number: **E07-102**

Site Name: **SMC Maestri**

Site Location: **Geddes, New York**

Pic #: **070725107**

Date: **07/25/07**

Direction:
Looking W

Comments:

**Profile along
western wall of TP2
showing distinct
layers in soil.**



Pic #: **0707251442**

Date: **07/25/07**

Direction:
Looking S

Comments:

**Overview of
excavated area**



Envirospec Engineering, PLLC
Photographic Record

Customer: **Stauffer Management Co.**

Project Number: **E07-102**

Site Name: **SMC Maestri**

Site Location: **Geddes, New York**

Pic #: **070725134**

Date: **07/25/07**

Direction:
Into Test Pits

Comments:

**Groundwater
seepage near
bedrock.**



Pic #: **070725147**

Date: **07/25/07**

Direction:
**Into Excavator
Bucket**

Comments:

**Excavated soils
from just above
bedrock.**



Envirospec Engineering, PLLC
Photographic Record

Customer: **Stauffer Management Co.**

Project Number: **E07-102**

Site Name: **SMC Maestri**

Site Location: **Geddes, New York**

Pic #: **070725148**

Date: **07/25/07**

Direction:
Looking E

Comments:

**Delineated sides of
excavated area
with poly.**





Envirospec Engineering, PLLC
16 Computer Drive West
Albany, NY 12205

Phone: 518.438.6809
Fax: 518.438.8527

Page No. 1 of 2

Date Wednesday
July 25, 2007

Weather	Temperature
---------	-------------

Partly Sunny	High <u>84</u>
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	Low <u>64</u>
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SITE OBSERVATION REPORT

Project SMC Maestri Project No. 07-102

Location Geddes, NY

On-Site: Abscope (refer to sign in sheet)
David Chiusano (NYSDEC)
Laura Mona (SPEC)
Matthew Newman (SPEC)

General

- Test pits dug to observe sediment near MW8 and MW9
- Two test pits labeled TP1 and TP2
- Monitoring wells 8 and 9 were removed during the excavation of TP2
 - o MW9 removed at 11:42 AM
 - o MW8 removed at 11:44 AM
- The topmost section of the well piping for PZ9 was broken at approximately 12:57 PM
- Test pits were delineated with poly prior to backfill

Test Pit 1 (TP1)

- TP1 ran east to west with MW9 along its north wall
- TP1 ran from the area where previous cleaning activities had occurred and into untouched area with approximate dimensions of 21'x4' (East/WestxNorth/South)
- TP1 showed three general layers
 - o Top layer was a soft, sandy layer beginning 3' bgs and ending 8' bgs
 - o Second layer was a solid, "cobblestone-like" layer that began at the end of the top layer and extended 11' bgs. It had the appearance of a concrete/cobblestone slab and an odor was noted
 - o Third layer was a silt layer beginning at the end of the "cobblestone" layer and ending at bedrock at a depth of 16 feet. It had a clay-like appearance with sand-like properties and also was noted with a similar odor found in the previous layer
- Three initial samples were taken from the overburden, all three of which had a PID of 0.00
- Two additional samples were screened from all the sediment taken into the first rolloff at 9:56 AM, with head spaces of 24.5 and 40.6 ppm respectively

Test Pit 2 (TP2)

- TP2 ran north to south with MW8 and MW9 both removed
- TP2 ran close to the line between area from previous remediation work and untouched area with approximate dimensions of 8'x14' (East/WestxNorth/South)
- TP2 could be divided into similar sediment layers to those found in TP1
 - o Top soft, sandy layer began at 3' and ended at 6.5' bgs.
 - o Second, "cobblestone" layer ranged from 6.5' to 10.5' bgs
 - o Third, high silt layer ranged from 10.5' to 16' bgs
 - o Odors were noted in the same layers as TP1
- Two water lines and one electrical conduit were struck during the digging of TP2 at 10:33 AM
 - o The conduit/line were at a depth of 5' and a distance of 5' from MW9 to center of piping
 - o Casing of electrical conduit was struck
 - o The water lines were connected to RW2A and had been plugged when it was overdrilled and converted into a monitoring well
 - o The electrical line was not live and was cut
 - o Electrical and water lines were removed from TP2

Continued next page



Envirospec Engineering, PLLC
16 Computer Drive West
Albany, NY 12205

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CONTINUATION PAGE

Page No. 2 of 2
Date 07/25/07

SITE OBSERVATION REPORT

Project SMC Maestri

Project No. 07-102

Location City Name, NY

Sampling/Offsite Disposal

Samples

- Headspace samples were taken at random intervals based upon color, texture, and odor of the sediment being extracted
- DEC collected period samples from the bucket of the excavator during work
- A table of the samples can be found below

Test Pit	Depth (ft)	Time	Screen	Headspace	Other Details
2	~11-12.5	-	185	171	1st sample below hard cobble
2	13.0	-	30.2	147	Exact time not recorded, collected between 10:47 and 11:13 am
2	14.0	-	9.5	16.4	Exact time not recorded, collected between 10:47 and 11:13 am
2	14.5	11:13 AM	196	76.9	NYSDEC collected sample from same area
2	15.5	-	227	158	Exact time not recorded, between 11:13 and 11:35 am
2	16.0	-	100	121	Exact time not recorded, between 11:13 and 11:35 am
2	13.0	11:52 AM	432	258	1st sample taken directly below MW-8 and MW-9
2	15.0	-	10.4	5.1	Exact time not recorded, between 11:52 am and 12:25 pm
1	~13-14	12:25 PM	97.0	16.5	South wall of TP1
2	~14-15	1:14 PM	68.0	20.5	Near the locations of MW-9 and MW-8
-	~15-16	1:27 PM	77.0	93.4	On the corner between TP1 and TP2
2	15.0	1:34 PM	241	129	West wall of TP2
2	~3-6.5	1:46 PM	22.0	9.0	West wall, just above cobble layer
2	~3-6.6	1:53 PM	0.5	0.0	North wall, just above cobble layer
2	~10.5-16	1:57 PM	127	73.3	North wall, just below cobble layer
2	~3-6.6	2:00 PM	0.0	0.0	East wall, just above cobble layer
2	~10.5-16	2:02 PM	26.0	16.9	East wall, just below cobble layer
1	~3-8	2:11 PM	0.0	0.0	South wall, just above cobble layer
1	~11-16	2:07 PM	224	45.4	South wall, just below cobble layer

Rolloffs

- 5 rollofs were loaded with sediment extracted from the two test pits
- First contained sediment extracted from TP1 from 3' bgs to a depth of 14'
- Second contained sediment extracted from TP2 from 3-4' bgs to a depth of 14'
- Third contained sediment extracted from both TP1 and TP2
 - o TP1 sediment was extracted from 14-16' bgs
 - o TP2 sediment was extracted from 3-4' bgs to a depth of 13' primarily beneath MW8 and MW9
- Fourth contained sediment extracted from TP2 from 13' to 16' bgs
- Fifth contained sediment extracted from both TP1 and TP2 ranging from 3' to 16' bgs

Backfill

- Delineated all sides with poly
- Overburden was placed on bottom (after discussions with DEC)
- 2 loads of Crusher-run (Hanson) placed on top of overburden
- 5 loads of clean sand (trucked in from stockpiles of clean fill Skan Falls site – initially from Sennett Pit) placed on top of crusher-run
- Sand backfill compacted with excavator bucket as much as possible with each "lift"

The above comments were made by:

M. Newman

Appendix J

SPDES Permit

SPDES PERMIT FACT SHEET

Prepared by: Robert Wither Date: 01/28/92

Company: ICI Americas Inc. Site No.: 7-34-025

Location: Geddes (T), Onondaga County Industrial Code No.: 9511

Industrial Segment: N/A Part No.: N/A

Type of Processing & Production Rate:

Groundwater Remediation

Basis for Technology Effluent Limitations:

N/A

PARAMETER

BASIS FOR PERMIT CONDITION

Outfall No.: 001 ; Treated Groundwater Discharge; Nominal Flow: 8 gpm

Flow	Monitor
Benzene	6NYCRR Part 703.6
Methylene Chloride	6NYCRR Part 703.6
Toluene	6NYCRR Part 703.6
1,2-(trans)-Dichloroethylene	6NYCRR Part 703.6
Vinyl Chloride	6NYCRR Part 703.6
Ethylbenzene	6NYCRR Part 703.6
o-Xylene	6NYCRR Part 703.6
m-Xylene	6NYCRR Part 703.6
p-Xylene	6NYCRR Part 703.6
Phenolics, Total	6NYCRR Part 703.6/Detection Limit
Bis (2-Ethylhexyl) Phthalate	6NYCRR Part 703.6
Di (N-Butyl) Phthalate	6NYCRR Part 703.6
Aluminum, Total	6NYCRR Part 703.6
Arsenic, Total	6NYCRR Part 703.6
Barium, Total	6NYCRR Part 703.6
Cadmium, Total	6NYCRR Part 703.6
Chromium, Total	6NYCRR Part 703.6
Copper, Total	6NYCRR Part 703.6
Iron, Total	6NYCRR Part 703.6
Manganese, Total	6NYCRR Part 703.6
Nickel, Total	6NYCRR Part 703.6
Silver, Total	6NYCRR Part 703.6
Zinc, Total	6NYCRR Part 703.6

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning with the start up of groundwater remediation and treatment system and lasting until 5 years from date of startup of groundwater remediation and treatment system. The discharges from the treatment facility shall be limited and monitored by the operator as specified below:

Outfall Number & Effluent Parameter	Discharge Limitations		Units	Minimum Monitoring Requirements	
	Daily Avg.	Daily Max		Measurement Frequency	Sample Type
<u>001 - Treated Groundwater</u>					
Flow	Monitor	Monitor	gpd	Continuous	Recorder
Benzene	Monitor	0.7	ug/l	Weekly	Grab
Methylene Chloride	Monitor	5.0	ug/l	Weekly	Grab
Toluene	Monitor	5.0	ug/l	Weekly	Grab
1,2-(trans)-Dichloroethylene	Monitor	5.0	ug/l	Weekly	Grab
Vinyl Chloride	Monitor	5.0	ug/l	Weekly	Grab
Ethylbenzene	Monitor	5.0	ug/l	Weekly	Grab
o-Xylene	Monitor	5.0	ug/l	Weekly	Grab
m-Xylene	Monitor	5.0	ug/l	Weekly	Grab
p-Xylene	Monitor	5.0	ug/l	Weekly	Grab
Phenolics, Total	Monitor	2.0	ug/l	Weekly	Grab
Bis(2-Ethylhexyl) Phthalate	Monitor	4.2	mg/l	Weekly	Grab
Di-(N-Butyl) Phthalate	Monitor	0.77	mg/l	Weekly	Grab
Aluminum, Total	Monitor	2.0	mg/l	Monthly	Grab
Arsenic, Total	Monitor	0.05	mg/l	Monthly	Grab
Barium, Total	Monitor	2.0	mg/l	Monthly	Grab
Cadmium, Total	Monitor	0.02	mg/l	Monthly	Grab
Chromium, Total	Monitor	0.1	mg/l	Monthly	Grab

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning with the start up of groundwater remediation and treatment system and lasting until 5 years from date of startup of groundwater remediation and treatment system. The discharges from the treatment facility shall be limited and monitored by the operator as specified below:

Outfall Number & Effluent Parameter	Discharge Limitations		Units	Minimum Monitoring Requirements	
	Daily Avg.	Daily Max.		Measurement Frequency	Sample Type
<u>001 - Treated Groundwater:</u>					
Copper, Total	Monitor	1.0	mg/l	Monthly	Grab
Iron Total ¹	Monitor	0.6	mg/l	Monthly	Grab
Manganese, Total ¹	Monitor	0.6	mg/l	Monthly	Grab
Nickel, Total	Monitor	2.0	mg/l	Monthly	Grab
Silver, Total	Monitor	0.1	mg/l	Monthly	Grab
Zinc, Total	Monitor	5.0	mg/l	Monthly	Grab

1. The combined concentration of iron, total and manganese, total shall not exceed 1.0 mg/l.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

APPENDIX A GENERAL CONDITIONS (Consent Orders)*

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* This version of General Conditions is intended to be incorporated as Appendix A of all Consent Orders for site remediation projects where a State Pollutant Discharge Elimination System permit is not required but where the order authorizes the treatment and discharge of wastewaters to the surface or groundwaters of New York State.

1. GENERAL PROVISIONS

- a. This order, or a true copy, shall be kept readily available for reference at the wastewater treatment facility.
- b. A determination has been made on the basis of a submitted plans, or other available information, that compliance with the provisions specified in this order will reasonably protect classified water use and assure compliance with applicable water quality standards. Satisfaction of these provisions notwithstanding, if operation pursuant to the order causes or contributes to a condition in contravention of State water quality standards, or if the Department determines, on the basis of notice provided by the operator and any related investigation, inspection or sampling, that a modification of the order is necessary to prevent impairment of the best use of the waters or to assure maintenance of water quality standards or compliance with other provisions of ECL, the Department may require such a modification and may require abatement action to be taken by the operator and may also prohibit the noticed act until the order has been modified.
- c. All discharges authorized by this order shall be consistent with the terms and conditions of this order. Facility expansion or other modifications, treatment and disposal system changes which will result in new or increased discharges of pollutants into the waters of the state must be reported by submission of a formal request for modification of this order. The discharge of any pollutant, not identified and authorized, or the discharge of any pollutant more frequently than, or at a level in excess of, that identified and authorized by this order shall constitute a violation of the terms and conditions of this order. Facility modifications which result in decreased discharges of pollutants must be reported by submission of written notice to the Department.
- d. Where the operator becomes aware that he/she failed to submit any relevant facts or submitted incorrect information prior to or in pursuit of this order or in any report to the Department, the operator shall promptly submit such facts or information.
- e. It shall not be a defense for an operator in an enforcement action that it would have been necessary to halt or reduce the authorized activity in order to maintain compliance with the conditions of this order, unless directed by the Department to continue the activity.
- f. The filing of a request for a modification of this order, or a notification of planned changes or anticipated noncompliance, does not stay any condition of this order.
- g. The operator shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, suspending, or revoking this order, or to determine compliance with this order. The operator shall also furnish to the Department, upon request, copies of records required to be kept by this order.

2. SPECIAL REPORTING REQUIREMENTS

Dischargers must notify the Department as soon as they know or have reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant (USEPA Priority Pollutants plus phenols, total) which is not specifically controlled in the order, pursuant to General Provision 1 (c) herein. For the purposes of this section, current accidental or unintentional spills or releases on a frequent basis shall be considered to be a discharge.
- b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the order, if that discharge will exceed five times the maximum concentration value reported for that pollutant in the information submitted prior to this order; or the level established by the Department.
- c. That they will begin to use any toxic pollutant which was not reported prior to this order and which is being or may be discharged to waters of the state.

3. EXCLUSIONS

- a. The issuance of this order by the Department and the receipt thereof by the operator does not supersede, revoke or rescind an order or modification thereof on consent or determination by the Commissioner issued heretofore by the Department or any of the terms, conditions or requirements contained in such order or modification thereof unless specifically intended by said order.

- b. The issuance of this order does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations; nor does it obviate the necessity of obtaining the assent of any other jurisdiction as required by law for the discharge authorized.
- c. Unless specifically authorized in this order, the construction of any onshore or offshore physical structures or facilities or the undertaking of any work in any navigable waters is not approved.

4. REPORTING NONCOMPLIANCE

- a. Anticipated noncompliance. The operator shall give advance notice to the Department of any planned changes in the authorized facility or activity which may result in noncompliance with this order as soon as the operator becomes aware that non-compliance will be unavoidable.
- b. Immediate and twenty-four hour reporting. The operator shall report any noncompliance which may endanger health or the environment. Any unusual situation, caused by a deviation from normal operation or experience (e.g. upsets, bypasses, inoperative treatment process units, spills or illegal chemical discharges or releases to the collection system) which create a potentially hazardous condition shall be orally reported immediately. Other information shall be provided orally within 24 hours from the time he or she becomes aware of the circumstances. A written noncompliance report shall also be provided within five (5) days of the time the operator becomes aware of the circumstances. The written noncompliance report shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent the noncompliance and its reoccurrence.
 - (1) The following shall be included as information which must be reported within 24 hours under paragraph (b) above:
 - (i) any unanticipated bypass which violates any effluent limitation in the order;
 - (ii) any upset which violates any effluent limitation in the order;
 - (iii) violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the order to be reported within 24 hours.
 - (2) The Department may waive, at their discretion, the written report on a case-by-case basis if the oral report has been received within 24 hours.
 - (3) Reports required by this section shall be filed with the Department's regional office having jurisdiction over the facility. During weekends and holidays, oral noncompliance reports, required by this paragraph, may be made at (518) 457-7362.
- c. Duty to mitigate. The operator shall take all reasonable steps to minimize or prevent any discharge in violation of this order which has a reasonable likelihood of adversely affecting human health or the environment.

5. INSPECTION AND ENTRY

The operator shall allow the Commissioner of the Department, the New York State Department of Health, the County Health Department, or their authorized representatives, upon the presentation of credentials and other documents as may be required by law, to:

- a. enter upon the operator's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this order;
- b. have access to and copy, at reasonable times, any records that must be kept under the conditions of this order, including records maintained for purposes of operation and maintenance;
- c. inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this order, and
- d. sample or monitor at reasonable times, for the purposes of assuring compliance with this order or as otherwise authorized by the Environmental Conservation Law, any substances or parameters at any location.

6. SPECIAL PROVISIONS - NEW OR MODIFIED DISPOSAL SYSTEMS

- a. Prior to construction of any new or modified waste disposal system or modification of a facility generating wastewater which could alter the design volume of, or the method or effect of treatment or disposing of the wastes from an existing waste disposal system, the operator shall submit to the Department or its designated field office for review, an approvable engineering report, plans, and specifications which have been prepared by a person or firm licensed to practice Professional Engineering in the State of New York.
- b. The construction of the above new or modified disposal system shall not start until the operator receives written approval of the system from the Department or its designated field office.
- c. The construction of the above new or modified disposal system shall be under the general supervision of a person or firm licensed to practice Professional Engineering in New York State. Upon completion of construction, that person or firm shall certify to the Department or its designated field office that the system has been fully completed in accordance with the approved engineering report, plans and specifications and letter of approval; and the operator shall receive written acceptance of such certificate from the Department or designated field agency prior to commencing discharge.
- d. The Department and its designated field offices review wastewater disposal system reports, plans, and specifications for treatment process capability only, and approval by either office does not constitute approval of the system's structural integrity.

7. MONITORING, RECORDING, AND REPORTING

7.1 GENERAL

- a. The operator shall comply with all recording, reporting, monitoring and sampling requirements specified in this order and such other additional terms, provisions, requirements or conditions that the Department may deem to be reasonably necessary to achieve the purposes of the Environmental Conservation Law, or rules and regulations adopted pursuant thereto.
- b. Samples and measurements taken to meet the monitoring requirements specified in this order shall be representative of the quantity and character of the monitored discharges. Composite samples shall be composed of a minimum of 8 grab samples, collected over the specified collection period, either at a constant sample volume for a constant flow interval or at a flow-proportioned sample volume for a constant time interval, unless otherwise specified in this order. For GC/MS Volatile Organic Analysis (VOA), aliquots must be combined in the laboratory immediately before analysis. At least 4 (rather than 8) aliquots or grab samples should be collected over the specified collection period. Grab sample means a single sample, taken over a period not exceeding 15 minutes.
- c. Accessible sampling locations must be provided, maintained and identified by the operator. New sampling locations shall be provided if proposed or existing locations are deemed unsuitable by the Department or its designated field agency.
- d. Actual measured values of all positive analytical results obtained above the Practical Quantitation Limit (PQL)¹ for all monitored parameters shall be recorded and reported, as required by this order; except, for parameters which are limited in this order to values below the PQL, actual measured values for all positive analytical results above the Method Detection Limit (MDL)² shall be reported.
- e. The operator shall periodically calibrate and perform manufacturer's recommended maintenance procedures on all monitoring and analytical instrumentation to insure accuracy of measurements. Verification of maintenance shall be logged into the daily record book(s) of the facility. The operator shall notify the Department's regional office immediately if any required instrumentation becomes inoperable. In addition, the operator shall verify the accuracy of their measuring equipment to the Department's Regional Office annually.

¹ Practical Quantitation Limit (PQL) is the lowest level that can be measured within specified limits of precision and accuracy during routine laboratory operations on most effluent matrices.

² Method Detection Limit (MDL) is the level at which the analytical procedure referenced is capable of determining with a 99% probability that the substance is present. This value is determined in distilled water with no interfering substances present. The precision at this level is +/- 100%.

7.2 SIGNATORIES AND CERTIFICATION

a. All reports required by this order shall be signed as follows:

(1) for a corporation: by a responsible corporate officer. For the purposes of this section, a responsible corporate officer means:

- (i) a president, secretary, treasurer, or a vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making function for the corporation, or
- (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(2) for a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

(3) for a municipality, state, federal, or other public agency: by either a principal or executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal agency includes: (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency; or

(4) a duly authorized representative of the person described in items (1), (2), or (3). A person is a duly authorized representative only if:

- (i) the authorization is made in writing by a person described in paragraph (a)(1), (2), or (3) of this section;
- (ii) the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and

(iii) the written authorization is submitted to the Department.

b. Changes to authorization: If an authorization under subparagraph (a)(4) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of subparagraph (a)(4) of this section must be submitted to the Department prior to or together with any reports, information, or applications to be signed by an authorized representative.

c. Certification: Any person signing a report shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision, in accordance with a system, designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the order or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

7.3 RECORDING OF MONITORING ACTIVITIES AND RESULTS

a. The operator shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this order, and records of all data used to complete the application for this order, for a period of at least 3 years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

- b. Records of monitoring information shall include:
- (1) the date, exact place, and time of sampling or measurements;
 - (2) the individual(s) who performed the sampling or measurements;
 - (3) the date(s) analyses were performed;
 - (4) the individual(s) who performed the analyses;
 - (5) the analytical techniques or methods used; and
 - (6) the results of such analyses.

7.4 TEST AND ANALYTICAL PROCEDURES

- a. Monitoring and analysis must be conducted using test procedures promulgated, pursuant to 40 CFR Part 136, except:
- (1) should the Department require the use of a particular test procedure, such test procedure will be specified in this order.
 - (2) should the operator desire to use a test method not approved herein, prior Department approval is required, pursuant to paragraph (b) of this section.
- b. Application for approval of test procedures shall be made to the Director of DEC's Division of Water, and shall contain:
- (1) the name and address of the applicant or the responsible person making the discharge, identification of this particular order and the telephone number of applicant's contact person;
 - (2) the names of the pollutants or parameters for which an alternate testing procedure is being requested, and the monitoring location(s) at which each testing procedure will be utilized;
 - (3) justification for using test procedures, other than those approved in paragraph (a) of this section; and
 - (4) a detailed description of the alternate procedure, together with:
 - (i) references to published studies, if any, of the applicability of the alternate test procedure to the effluent in question;
 - (ii) information on known interferences, if any; and
 - (5) a comparability study, using both approved and proposed methods. The study shall consist of 8 replicates of 3 samples from a well mixed waste stream for each outfall if less than 5 outfalls are involved, or from 5 outfalls if 5 or more outfalls are involved. Four (4) replicates from each of the samples must be analyzed using a method approved in paragraph (a) of this section, and four replicates of each sample must be analyzed using the proposed method. This results in 24 analyses per outfall up to a maximum of 120 analyses. A statistical analysis of the data must be submitted that shall include, as a minimum:
 - (i) calculated statistical mean and standard deviation;
 - (ii) a test for outliers at the mean ± 3 standard deviations level. Where an outlier is detected an additional sample must be collected and 8 replicates of the sample must be analyzed as specified above;
 - (iii) a plot distribution with frequency counts and histogram;
 - (iv) a test for equality among within sample standard deviation;
 - (v) a check for equality of pooled within sample variance with an F-Test;
 - (vi) a t-Test to determine equality of method means; and

copies of all data generated in the study.

Additional information can be obtained by contacting the Bureau of Technical Services & Research (NYSDEC, 50 Wolf Road, Albany, New York 12233 - 3502).

8.1 GENERAL

- a. The disposal system shall not receive or be committed to receive wastes from unapproved sources, nor wastes beyond its design capacity as to volume and character of wastes treated, nor shall the system be materially altered as to: type, degree, or capacity of treatment provided; disposal of treated effluent; or treatment and disposal of separated scum, liquids, solids or combination thereof resulting from the treatment process without written approval of the Department of Environmental Conservation or its designated field office.
- b. The operator shall, at all times, properly operate and maintain all facilities and systems of treatment and control (or related appurtenances) which are installed or used by the operator to achieve compliance with the conditions of this order. Proper operation and maintenance also includes as a minimum, the following: 1) A preventive/corrective maintenance program. 2) A site specific action orientated operation and maintenance manual for routine use, training new operators, adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of installed backup or auxiliary facilities or similar systems only when the operation is necessary to achieve compliance with the conditions of the order.
- c. The operator shall not discharge floating solids or visible foam.

8.2 BYPASS

a. Definitions:

- (1) "Bypass" means the intentional or unintentional diversion of waste stream(s) around any portion of a treatment facility for the purpose or having the effect of reducing the degree of treatment intended for the bypassed portion of the treatment facility.
- (2) "Severe property damage" means substantial damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which would not reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b. Bypass not exceeding limitations:

The operator may allow any bypass to occur which does not cause effluent limitations to be violated, but only if it also is for essential maintenance, repair or replacement to assure efficient and proper operation. These bypasses are not subject to the provisions of paragraph (c) and (d) of this section, provided that written notice is submitted prior to bypass (if anticipated) or as soon as possible after bypass (if unanticipated), and no public health hazard is created by the bypass.

c. Notice:

- (1) Anticipated bypass - If the operator knows in advance of the need for a bypass, it shall submit prior written notice, at least forty five (45) days before the date of the bypass.
- (2) Unanticipated bypass - The operator shall submit notice of an unanticipated bypass as required in Section 4, paragraph b. of this Part (24 hour notice).

d. Prohibition of bypass:

- (1) Bypass is prohibited, and the Department may take enforcement action against a operator for bypass, unless:
 - (i) bypass was unavoidable to prevent loss of life, personal injury, public health hazard, or severe property damage;
 - (ii) there were no feasible alternatives to the bypass such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal period of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance or if designed and installed backup equipment which could have prevented or mitigated the impact of the bypass is not operating during the bypass; and
 - (iii) the operator submitted notices as required under paragraph (c) of this section and, excepting emergency conditions, the proposed bypass was accepted by the Department.

a. Definition:

"Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with order effluent limitations because of factors beyond the reasonable control of the operator. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

b. Effect of an upset:

An upset constitutes an affirmative defense to an action brought for noncompliance with such order effluent limitations if the requirements of paragraph (c) of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

c. Conditions necessary for a demonstration of upset:

An operator who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operation logs, or other relevant evidence that:

- (1) an upset occurred and that the operator can identify the cause(s) of the upset;
- (2) the facility was at the time being properly operated; and
- (3) the operator submitted notice of the upset as required in Section 4, paragraph b of this part (24 hour notice).
- (4) the operator complied with any remedial measures required under Section 4, paragraph d of this part.

d. Burden of proof:

In any enforcement proceeding the operator seeking to establish the occurrence of an upset has the burden of proof.

8.4 SPECIAL CONDITION - DISPOSAL SYSTEMS WITH SEPTIC TANKS

If a septic tank is installed as part of the disposal system, it shall be inspected by the operator or his agent for scum and sludge accumulation at intervals not to exceed one year's duration, and such accumulation will be removed before the depth of either exceeds one-fourth (1/4) of the liquid depth so that no settleable solids or scum will leave in the septic tank effluent. Such accumulation shall be disposed of in an approved manner.

8.5 SLUDGE DISPOSAL

The storage or disposal of collected screenings, sludges, other solids, or precipitates separated from the authorized discharges and/or intake or supply water by the operator shall be done in such a manner as to prevent creation of nuisance conditions or entry of such materials into classified waters or their tributaries, and in a manner approved by the Department. Any live fish, shellfish, or other animals collected or trapped as a result of intake water screening or treatment should be returned to their water body habitat. The operator shall maintain records of disposal on all effluent screenings, sludges and other solids associated with the discharge(s) herein described. The following data shall be compiled and reported to the Department or its designated field office upon request:

- a. the sources of the materials to be disposed of;
- b. the approximate volumes, weights, water content and (if other than sewage sludge) chemical composition;
- c. the method by which they were removed and transported, including the name and permit number of the waste transporter; and
- d. their final disposal locations.

Appendix K

Letter to NYSDEC Detailing Work Done in November 2007

May 8, 2008

Mr. David Chiusano
NYS Department of Environmental Conservation
Remedial Bureau E, Section A
Division of Environmental Remediation
625 Broadway 12th Floor
Albany, NY 12233-7017

RE: Stauffer Management Company, Maestri Site #7-34-025, Onondaga County
Summary of Work Report

Dear Mr. Chiusano:

On behalf of Stauffer Management Company, LLC (SMC), Envirospec Engineering, PLLC (Envirospec) has prepared the following letter report to summarize field work completed at the SMC Maestri Site from November 19 to 20, 2007. The work was completed in accordance with the letter work plan submitted by Envirospec on October 5, 2007 with a response to New York State Department of Environmental Conservation (NYSDEC) comments on October 24, 2007. NYSDEC approval was granted in a letter dated October 24, 2007.

General Overview

Field activities were in response to site activities conducted on July 25, 2007, when two (2) test pits were excavated to address NYSDEC concerns resulting from a groundwater sample collected from MW-9 on April 3, 2007 which showed elevated levels of xylene. In order to complete the test pit activities, two (2) monitoring wells (MW-8 and MW-9) were removed. Field activities conducted in November 2007 consisted of the reinstallation of monitoring well MW-9 and the installation of four (4) soil borings outside the area of the July 2007 test pits in an effort to define the areal extent of possible xylene contamination. The locations of the new well and soil borings are shown on Figure 1.

Soil borings were advanced to refusal with split spoons collected at approximately two (2) foot intervals. Split spoons with recovery were characterized, screened with a PID, and bagged for headspace readings. The interval with the highest headspace reading was sent to the lab for analysis.

The replacement well MW-9 was installed in approximately the same location as the previous well. Purging and sampling of MW-9 was delayed until early January 2008 due to ground stability issues in the area of the new well.

The soil samples and subsequent groundwater sample were analyzed for xylene via EPA Method 8260. The concentration of xylene in the soil borings ranged from 0.54 to 4.4 ppm and groundwater sample collected from MW-9 showed xylene at 11 ppb. Details of the installation and sampling conducted for soil borings and the monitoring well are discussed further in subsequent sections.

Background

Field activities on July 25, 2007 were completed at the request of the NYSDEC in order to address concerns resulting from a groundwater sample collected from MW-9 on April 3, 2007 which showed elevated levels of xylene at 827 ppb. The NYSDEC had concerns that an area of soil contamination

remained in the area of MW-9 and MW-2A (formerly RW-2). To address NYSDEC concerns, two test pits were excavated in the vicinity of these wells to determine if a source of soil contamination remains. In order to complete the test pit activities, two (2) monitoring wells (MW-8 and MW-9) were removed.

During the test pit activities, an odor was noted at a depth of approximately 6.5 to eight (8) feet below ground surface (bgs). Headspace samples were taken throughout excavation of both test pits with results ranging from 0.0 ppm to 258 ppm. Overburden soils were staged on poly adjacent to the excavation, screened with the PID, and re-used as backfill upon confirmation of non-detectable PID screen readings and concurrence with the DEC. Excavated soils were loaded into five (5) lined rolloff boxes positioned next to the excavation. TP1 and TP2 were delineated with poly and backfilled with clean backfill and overburden soil from TP1. The location of the test pits are shown on Figure 1.

Due to continued concerns about the elevated xylene concentrations, MW-9 was proposed to be reinstalled along with the completion of four (4) soil borings as outlined in a letter to the NYSDEC dated October 5, 2007. It was agreed to by the NYSDEC that since MW-8 was no longer being utilized for sampling or elevation data reinstallation was not necessary. Since groundwater elevations had been recorded on a monthly basis from MW-9, its reinstallation was deemed appropriate. Responding to comments from the NYSDEC, EnviroSpec proposed a modified scope of the work on October 24, 2007 which was approved by the NYSDEC on October 24, 2007.

Objectives

The purpose of the field activities was to reinstall MW-9 and to further investigate soil conditions in the vicinity of MW-9.

Project Team

EnviroSpec Engineering, PLLC provided project management and field oversight. Abscope Environmental, Inc completed the site work. The NYSDEC provided regulatory oversight of the investigation activities and monitoring well replacement

Summary of Work

Field work was completed from November 19 to 20, 2007. A photographic log and field notes documenting the project tasks are attached to this letter report.

Monitoring Well Installation

Monitoring well installation began at approximately 10:05 AM on November 19. The well was installed in the same general location from which it was previously removed. A six (6) inch hollow stem auger was used to drill the well to a depth of approximately 17.33 feet. A six (6) inch PVC riser was installed at the well bottom followed by ten (10) feet of Schedule 40 PVC screen. The annular space in the screened interval was sand packed with a No. 2 filter sand pack to one (1) foot above the top of the screen. The annular space above the screened interval was then sealed with a layer of bentonite to provide a seal above the sand pack. The surface completion consisted of a stick-up protective steel casing fitted with a lockable cap.

When staff returned to the site the next morning, the backfilled area from the July 2007 work settled creating a "sink hole" effect which caused the metal casing of MW-9 to slip out of place and the fill appeared to have sloughed off from around the casing. The sink hole was most likely the result of backfill settling under the hard pan. During the previous test pit activities, much of the material was

removed laterally from under the hard pan creating a void. This combined with the removal of most of the hard pan layer in the area of the July 2007 activities led to a structurally weaker soil material. To correct the sink hole, additional backfill material was added to the area in front of the well on November 23, 2007 along with an additional layer of bentonite chips around the well casing. The well was allowed to develop overnight. Another sinkhole area was observed in December 2007 by site maintenance personnel, but it was at a far enough distance from the newly installed well that it did not affect the well.

The well was sampled on January 2, 2008. Three (3) well volumes were purged prior to sampling. The well was gauged for depth-to-water and total depth from the top of casing to determine the elevation of groundwater and volume of water in the well. The field record from the sampling activity is attached. The well was sampled using a dedicated disposable bailer. A sample was collected in laboratory provided sample jars and placed on ice for shipping or delivery under chain-of-custody protocols. The sample was analyzed for xylene via EPA Method 8260. The sample results showed a xylene concentration of 11 ppb. The laboratory results are attached to this letter report.

Soil Borings

To further investigate soil conditions in the area of work, SMC installed four (4) soil borings outside the area of site activities from July 25, 2007. Locations are shown on Figure 1.

Soil boring activities began at approximately 12:30 PM on November 19. SB-1 began approximately four (4) feet below ground surface (bgs). Hard pan was encountered at approximately 6.4 feet bgs and continued until approximately twelve (12) feet bgs. Only a few split spoon samples could be collected in this range due to the hard pan. The soil boring was advanced to refusal encountered at approximately twenty (20) feet bgs. The final interval, eighteen (18) to twenty (20) feet bgs, showed the highest headspace reading of 18.7 ppm and a grab sample was collected for laboratory analysis. EnviroSpec and the DEC discussed the headspace readings in the area above the hard pan and the DEC concurred to drilling straight through the pan and sampling below this region for the remaining soil borings. SB-4 began at approximately 3:30 PM on November 19. Split spoon sampling began at approximately thirteen (13) feet bgs. The soil boring was advanced to refusal encountered at 18.3 feet bgs. The final interval, seventeen (17) to 18.3 feet bgs, showed the highest headspace reading of 35.6 ppm and a grab sample was collected for laboratory analysis.

Soil boring work continued at 9:30 AM on November 20. While beginning SB-3, the original drill rig broke at approximately ten (10) feet bgs. A new rig arrived on site at approximately 12:00 PM. SB-3 continued at approximately 12:10 PM. Split spoon samples were started at approximately thirteen (13) feet bgs. The soil boring was advanced to refusal encountered at 16.5 feet bgs. The final interval, fifteen (15) to 16.5 feet bgs, showed the highest headspace reading of 39.4 ppm and a grab sample was collected for laboratory analysis. SB-2 began at approximately 12:50 PM on November 20. Split spoon sampling began at approximately ten (10) feet bgs. The soil boring was advanced to refusal encountered at 15.5 feet bgs. SMC and the NYSDEC had to collect grab samples from two (2) different intervals due to low recovery in each. The NYSDEC collected their sample from the final interval, fifteen (15) to 15.5 feet bgs, which showed the highest headspace reading. SMC collected their sample from the thirteen (13) to fifteen (15) feet bgs interval which showed the highest PID screen at 0.4 ppm. A summary of headspace readings is presented below in Table 1.

Table 1 – Bore Screen/Headspace Results

Soil Boring	Depth/Interval (ft)	PID Screen (ppm)	Headspace (ppm)
SB-1	4 - 6	0.0	0.0
SB-1	6 - 6.4	0.0	0.0
SB-1	6.4 - 8	-	-
SB-1	8 - 8.3	0.0	0.0
SB-1	8.3 - 10	-	-
SB-1	10 - 10.3	0.0	0.0
SB-1	10.3 - 12	-	-
SB-1	12 - 14	0.0	4.2
SB-1	14 - 14.5	5.8	8.9
SB-1	14.5 - 16	-	-
SB-1	16 - 18	9.0	14.2
SB-1	18 - 20	5.2	18.7
SB-2	10 - 10.5	0.0	1.0
SB-2	10.5 - 12	-	-
SB-2	12 - 12.2	0.0	1.1
SB-2	13 - 15	0.4	1.7
SB-2*	15 - 15.5	0.0	2.4
SB-3	13 - 15	0.0	2.3
SB-3	15 - 16.5	10.8	39.4
SB-4	13 - 15	0.0	1.6
SB-4	15 - 17	0.0	0.5
SB-4	17 - 18.3	25.0	35.6

* NYSDEC sample interval

(-) Interval not screened due to poor recovery and/or hard pan

The bolded intervals in Table 1 show the intervals that were jarred and sent to the laboratory. Samples were analyzed for xylene via EPA Method 8620. A summary of sampling results is listed in Table 2 below. A copy of the laboratory results are attached to this report. Results obtained by NYSDEC are not attached to this report.

Table 2 – Bore Sample Results

Soil Boring	Xylene Concentration (ppb)	Depth (feet)
SMC Samples		
SB-1	4400	18 – 20
SB-2	<150	13 – 15
SB-3	810	15 – 16.5
SB-4	540	18 – 18.3
NYSDEC Samples		
SB-1	26	18 – 20
SB-2	<10	15 - 15.5
SB-3	62	15 – 16.5
SB-4	69	18 – 18.3

As previously discussed, DEC split samples were collected from each soil boring. DEC grab samples were collected from the same interval as SMC samples if the split-spoon recovered enough material for two samples. Due to low recovery at SB-2, the SMC sample had to be collected from the higher interval. The DEC sample results show there to be low level xylene contamination but at concentrations lower than those observed in SMC samples. The results showed one sample with levels of xylene above SCGs (1200 ppm).

Waste Management

Since MW-9 was in an area known to contain clean fill material from the backfill activities in August 2007, soil cuttings from the installation of the new well were reused as backfill material around the well. Soil cuttings removed from the soil borings were placed back in the boreholes. Solid materials generated (gloves, plastic bags) were removed from the site and properly disposed. No additional waste was generated during the field work.

Summary and Recommendations

Envirospec recommends no further action for soils at the site. In addition, SMC is requesting to shut down the groundwater recovery system and the addition of RW-8 to quarterly sampling. The Maestri groundwater recovery wells are currently monitored monthly for elevation and sampled quarterly. One monitoring well, MW-2A, which was formerly a recovery well (RW-2) until April 2006 when it was overdrilled and converted to a monitoring well, is sampled. Following the test pit and soil boring activities, the first quarterly sampling event for 2008 occurred on January 8, 2008. The results are summarized in Table 3 below.

Table 3 – January 8, 2008 Sampling Event

Well	Total Xylene (ppb)
MW-2A (RW-2)	3
RW-3	<3.0
RW-5	14
RW-6	52
RW-7	<3.0

The results followed the general trend of previous sampling results from the past three (3) years as shown in Table 4 below.

Table 4 – Total Xylene Concentrations (µg/L) for Recovery Wells

Sample Date	MW-2A (RW-2)	RW-3	RW-5	RW-6	RW-7	RW-8
4-Jan-05	3400	<3.0	7.9	147	7.8	<3.0
1-Feb-05	3844	<3.0	5.8	25	175	<3.0
1-Mar-05	4190	<3.0	7.9	<3.0	39	<3.0
4-Apr-05	4160	<3.0	10	25	<3.0	<3.0
3-May-05	4647	<3.0	6.5	20	<3.0	<3.0
7-Jun-05	902	<7.5	<3.0	<3.0	110	<3.0
5-Jul-05	460	<3.0	<3.0	<3.0	146	<3.0
2-Aug-05	2222	<3.0	<3.0	<3.0	110	<3.0
5-Sep-05	2055	<3.0	<3.0	35	<15	<3.0
4-Oct-05	750	<3.0	<3.0	5.5	180	<3.0
1-Nov-05	2850	3.1	<3.0	<3.0	38	<3.0
6-Dec-05	4757	79	7.8	25	<15	<3.0

Sample Date	MW-2A (RW-2)	RW-3	RW-5	RW-6	RW-7	RW-8
3-Jan-06	4640	<3.0	<3.0	45	<3.0	<3.0
9-Feb-06	3890	<3.0	8.4	70	INC	<3.0
7-Mar-06	6250	<3.0	<3.0	3.2	129	<3.0
4-Apr-06¹	2070	<3.0	<3.0	142	<30	<3.0
2-May-06	2400	<3.0	<3.0	58	<30	<3.0
6-Jun-06²	NS	<3.0	<3.0	9	102	<3.0
4-Jul-06	665	<3.0	<3.0	34	130	NS
1-Aug-06	NS	5	<3.0	63	90	<3.0
3-Oct-06	<3.0	3.3	<3.0	3	55	NS
2-Jan-07	<3.0	<3.0	<3.0	29	40	NS
3-Apr-07	6.4	25	<3.0	145	3.7	NS
3-Jul-07	410	<3.0	<3.0	<3.0	<3.0	NS
2-Oct-07	1025	<3.0	<3.0	30	6	NS
8-Jan-08	3.0	<3.0	14	52	<3.0	NS
¹ RW-2 replaced with MW-2A on April 24-28 2006						
² RW-8 sampling ceased as per NYSDEC letter dated June, 6, 2006						

The groundwater treatment system has been operating since 1996. Quarterly sampling results currently serve as the basis for evaluating the effectiveness of groundwater remedial activities at the site. As stipulated in the ROD, the onsite groundwater treatment system is to be operated and evaluated annually until "concentrations of site contaminants can no longer be effectively removed or cleanup objectives are met." The levels of contaminants remaining in groundwater are low and the system is no longer effective as shown by the consistency of the results. The groundwater treatment system has achieved the goals of the ROD and SMC is therefore requesting to shut down the system.

Upon shutdown of the recovery system, it is proposed to sample perimeter wells monthly for three (3) months to ensure the plume does not migrate. The wells to be sampled include the current quarterly wells with the addition of PZ-4 and RW-8. Groundwater elevations will be collected from all onsite wells immediately prior to sampling. As shown in the site plan, the sampled wells show an ample cross section of the property and monitoring of those wells would indicate if the plume begins to migrate after pumping is ceased. A table of the wells and piezometers at the site is attached to this Report. The table indicates the screened interval of each of the wells or piezometer. The proposed sampling locations represent a similar screened interval to RW-6.

During the first three (3) months of sampling, monthly reports will be submitted to the NYSDEC. Groundwater elevations of current recovery and monitoring wells as well as piezometers will continue to be collected monthly and included in the monthly reports. Expedited sample results will be requested of the lab in an effort to obtain sample results within no more than five (5) days of sample collection. After three (3) months of sampling, SMC will propose an alternate sampling schedule based on results. If results indicate plume migration, next steps will be discussed with the NYSDEC. If after shutdown of the system flooding is observed in adjacent properties to the site, sampling of the surface water will be completed to determine if there is xylene contamination. The number of samples to be collected will depend on the extent of the flooding and will be discussed with the NYSDEC prior to sampling. If xylene results from the sampling are above SCGs, the system will be turned back on and next steps will be discussed with the NYSDEC. The system will be maintained for one (1) year after shutdown in case reactivation due to flooding or plume migration is necessary. Following the one (1) year shutdown, SMC will propose permanent demobilization of the treatment system in a subsequent proposal.

The site will continue to be monitored on a monthly basis during regular site work conducted each month while the treatment system remains active (i.e. groundwater elevations collected on a monthly basis). The area will be inspected weekly for three (3) months after the treatment system is shutdown to provide a proactive approach to monitor for potential sink hole development and site flooding.

The area of the previously observed sink hole was backfilled and graded on April 16, 2008. Additional site maintenance was conducted on April 16 and 17, 2008. Stone was added to the northwest corner of the site to mitigate site runoff to down gradient residences. Silt fence and hay bales were repaired for the same area. Additional silt fence and hay bales were installed along the southern perimeter. Disturbed areas of the site are scheduled be graded and re-seeded the week of May 19th.

SMC is proposing to shut down the system upon approval of this report by the NYSDEC. Should you have any questions regarding the project, please do not hesitate to contact me at (518) 453-2203.

Sincerely,

Gianna Aiezza

Gianna Aiezza, PE
Principal Engineer
Envirospec Engineering, PLLC

Enc

cc: B. Shay/P. Ekoniak – SMC
J. Abraham – SMC
L. Mona/M. Newman – Envirospec

Appendix L

Orders on Consent #A7-0139-88-01 and #A7-0226-90-03

Excavation completed
10/4/88

760500
Order for
Consent

STATE OF NEW YORK: DEPARTMENT OF ENVIRONMENTAL CONSERVATION

In the Matter of the
Development and Implementation
of an Interim Remedial Measure
Program at 904 State Fair
Boulevard, pursuant to Article 27,
Title 13, of the Environmental
Conservation Law of the State of
New York (the "ECL") by

INTERIM
ORDER
ON
CONSENT

INDEX # A7-0139-88-01
SITE # 7-34-025

STAUFFER MANAGEMENT COMPANY
Respondent.

WHEREAS,

1. The New York State Department of Environmental Conservation (the "Department") is responsible for enforcement of Article 27, Title 13, of the Environmental Conservation Law of the State of New York ("ECL"), entitled "Inactive Hazardous Waste Disposal Sites".

2. Stauffer Management Company ("Respondent"), is a corporation organized and existing under the laws of the State of Delaware, is doing business in the State of New York and is the parent of a wholly owned subsidiary which is the corporate successor in interest to Stauffer Chemical Company ("SCC").

3. Bert Maestri, residing at 129 Pleasant Beach Road, Syracuse, New York, owns a parcel of property located at 904 State Fair Boulevard, Solvay, New York (the "Site"). A map of the Site is attached to this order as Appendix A.

4. The Department alleges that beginning approximately in 1974 and continuing approximately until 1976, SCC, generated certain hazardous wastes which were disposed of at the Site.

5. Respondent alleges that Mr. John Maestri, and Mr. Robert Valerino, were at all relevant times partners in Westlake Construction Company, and transported and disposed of SCC's wastes at the Site.

6. The Site is an inactive hazardous waste disposal site, as that term is defined in ECL Section 27-1301(2), and has been listed in the Registry of Inactive Hazardous Waste Disposal Sites in New York State as Site Number 7-34-025.

7. The Department has identified and classified the site pursuant to ECL Section 27-1305, under classification 2, a "significant threat to the public health or environment - action required".

8. Pursuant to ECL Section 27-1313(3)(a), whenever the Commissioner of Environmental Conservation ("Commissioner") finds that hazardous wastes at an inactive hazardous waste disposal site constitute a significant threat to the Environment, he may order the owner of such site and/or any person responsible for the disposal of hazardous wastes at such site (i) to develop an inactive hazardous waste disposal site remedial program, subject to the approval of the department, at such site, and (ii) to implement such program within reasonable time limits specified in the order."

9. The Department and Respondent acknowledge that the goal of this Order shall be the expeditious development of an Interim Remedial Measure Program ("IRM Program") for the Site which shall include provision for the implementation of any Interim Remedial Measures ("IRMs") that may be needed. The Department and Respondent further acknowledge that Respondent has developed a plan ("the Work Plan") for a field investigation designed to generate sufficient data from which it will be possible to identify impacts that may require IRMs and to develop a plan for implementing appropriate IRMs and to implement appropriate IRMs, as needed, at the Site. The Work Plan has been approved by the Department and is incorporated into this Order as Appendix B.

10. While Respondent does not admit that it is responsible under law for the disposal of hazardous wastes at the Site, Respondent has agreed, subject to the terms and conditions of this Order, to fund and perform the work set forth in the Work Plan, incorporated as Appendix B, as a means of developing the IRM Program.

11. Respondent, having waived whatever right it may have to a hearing, to which it would otherwise be entitled before the Commissioner issues an Order pursuant to ECL § 27-1313(4) and having consented to the issuance and entry of this Order, agrees to be bound by the terms hereof.

NOW, having considered this matter and being duly advised, IT IS ORDERED THAT:

I. All investigations, proposals, reports, plans, remedial programs, and supplements and revisions thereto required by this Order shall address, as outlined in the Work Plan, both on-Site and off-Site contamination and impacts caused by the disposal of hazardous wastes at the Site, and shall be prepared, designed and executed in accordance with generally accepted engineering and technical practices, and shall be in compliance with all applicable federal, state and local laws and regulations.

II. As used herein, "hazardous wastes" shall mean hazardous wastes, as defined at 6 NYCRR 375.2.

III. A. All submittals made by Respondent pursuant to this Order shall be subject to Departmental review.

B. If the Department approves a submittal, Respondent shall perform the specified work or continue with Respondent's obligations under the Order in accordance with the terms of the approval and under the Department's supervision. The submittal once approved by the Department shall be appended to and made a part of this Order.

IV. Respondent shall undertake a site investigation and development and implementation of IRM Program in accordance with the Work Plan incorporated as Appendix B.

V. Respondent shall immediately commence performance of the work outlined in the Work Plan incorporated as

Appendix B, in accordance with the schedule specified therein.

VI. Pursuant to the time schedule set forth in the Work Plan, Respondent shall submit to the Department a report containing interim data from the initial phases of the site investigations and also containing a proposal which outlines any appropriate IRMs (the "Initial Report and Proposal").

VII. Within fourteen (14) days after receipt of the Initial Report and Proposal, the Department shall provide written notification to the Respondent of its approval or disapproval of the Initial Report and Proposal.

If the Department approves the Initial Report and Proposal, the Respondent shall promptly perform the specified work and begin implementation of the IRM(s) proposed in the Initial Report and Proposal in accordance with the terms of the approval and under the Department's supervision and also continue Respondent's obligations under the Work Plan and Order.

If the Department disapproves the Initial Report and Proposal, the Department shall notify the Respondent in writing of the Department's objections and the basis thereof. Within fourteen (14) days after its receipt of the notice of disapproval, Respondent shall prepare and submit a revised Initial Report and Proposal to the Department which addresses the Department's objections (the "Revised Initial Report and Proposal").

Within fourteen (14) days after receipt of the Revised Initial Report and Proposal, the Department shall provide written notice to the Respondent of its approval or disapproval of the Revised Initial Report and Proposal. If the Department approves the revised submittal, Respondent shall promptly perform the specified work and begin implementation of the IRM(s) proposed therein in accordance with the terms of the approval and under the Department's supervision and also continue with Respondent's obligations under the Work Plan and this Order.

If, after re-submission as provided above, the Department disapproves the Revised Initial Report and Proposal, the parties shall confer together in good faith to resolve their differences.

If after conferring in good faith, there is still a dispute concerning the terms of the submittal, the matter shall be settled in accordance with the dispute resolution procedures set forth in Paragraph X below.

VIII. Pursuant to the time schedule set forth in the Work Plan, incorporated as Appendix B, Respondent shall submit to the Department a report containing all data from the complete site investigation conducted as provided herein and also containing a proposal for the implementation of any appropriate IRMs, not previously proposed or conducted (the "Final Report and Proposal").

IX. Within twenty-one (21) days after receipt of the Final Report and Proposal, the Department shall provide

written notification to the Respondent of its approval or disapproval of the Final Report and Proposal.

If the Department approves the Report and Proposal, the Respondent shall promptly perform the specified work and begin implementation of all IRMs set forth in the Final Report and Proposal in accordance with the terms of the approval and under the Department's supervision and also continue with Respondent's obligations under the Order .

Ref
If the Department disapproves the Final Report and Proposal, the Department shall notify the Respondent in writing of the Department's objections and the basis thereof. Within fourteen ²¹~~(14)~~ days after its receipt of the notice of disapproval, Respondent shall prepare and submit a revised Final Report and Proposal to the Department which addresses the Department's objections (the "Revised Final Report and Proposal").

Within fourteen (14) days after receipt of the Revised Final Report and Proposal, the Department shall provide written notice to the Respondent of its approval or disapproval of the Revised Final Report and Proposal. If the Department approves the revised submittal, Respondent shall perform the specified work and begin implementation of the IRM(s) proposed therein in accordance with the terms of the approval and under the Department's supervision and also continue with its obligations under this Order.

If, after re-submission as provided above, the Department disapproves the Revised Final Report and

Proposal, the parties shall confer together in good faith to resolve their differences.

If after conferring in good faith there is still a dispute concerning the terms of the submittal, the matter shall be settled in accordance with the dispute resolution procedures set forth in Paragraph X below.

X. If after conferring in good faith, there is still a dispute between Respondent and the Department concerning matters related to paragraphs VI, VII, VIII, IX, XVIII and XXVI, such matters shall be settled in accordance with the following procedures:

Either party, upon written notice to the other, may request the Commissioner of Environmental Conservation to appoint an Administrative Law Judge ("ALJ"). Upon receipt of such request the Commissioner shall appoint an ALJ who shall convene a hearing to settle the dispute. If the ALJ deems it necessary to convene an evidentiary hearing, the taking of evidence shall be concluded within fifteen (15) working days (unless further extended for good cause) of the receipt of the written request to appoint an ALJ. If the ALJ deems it unnecessary to convene an evidentiary hearing, he shall within fifteen (15) working days (unless further extended for good cause) of the notice of request to appoint an ALJ, nevertheless convene a conference at which the issues may be presented and a record made.

In all proceedings hereunder:

1. The parties shall be Respondent and the Department.

2. The burden of going forward shall be on the Respondent.

3. The ALJ shall have all powers conferred by 6 NYCRR §622.12.

4. All proceedings conducted pursuant to this Paragraph shall be stenographically recorded. The Respondent shall arrange for an expedited stenographic transcript to be made within three (3) working days after conclusion of the proceeding, and for the original and two copies of the transcript to be delivered to the ALJ at the expense of the Respondent.

5. The ALJ shall prepare, no later than thirty (30) working days after receipt of the transcript of the proceeding, a written summary of the documentation and testimony received during the proceeding and a recommended decision. The summary and recommendation shall be hand-delivered to the Department's representative and sent by certified mail, return receipt requested, and another copy by Express Mail, to Respondent.

6. The ALJ's recommended decision shall become the final determination of the Commissioner unless, within five (5) working days from receipt of the recommended decision, either Respondent or the Department objects in writing. Any objections shall be submitted in writing to

the ALJ with a copy by express mail, telecopier or hand-delivery to the other party, which shall serve and file its response, if any, within two (2) working days of receipt of the objection by express mail, telecopier or hand-delivery. Upon receipt of the objections and any response, the ALJ shall refer the matter to the Commissioner for final determination.

7. The final determination of the Commissioner shall be made within fifteen (15) working days, or as soon as practicable, after receipt of the referral by the ALJ.

8. With respect to the final determination of the Commissioner, Respondent shall have those rights granted pursuant to Article 78 of the Civil Practice Law and Rules (CPLR) of New York, provided however that the period of four (4) months for petitioning thereunder shall be limited to one (1) month.

XI. Respondent shall submit a health & safety plan for each component of the site investigation described in this Order. Such plans are to be prepared and certified by a qualified industrial hygienist.

XII. The Department shall have the right to obtain "split samples" for the purpose of comparative analysis of all substances and materials sampled by Respondent pursuant to this Order.

XIII. Respondent shall provide notice to the Department of any excavating, drilling or sampling to be conducted

pursuant to the terms of this Order at least five (5) working days in advance of such proposed activities. The parties shall make every effort to mutually arrange the timing and schedule of such activity in a manner which will enable Department personnel to conduct, when it desires, on-site field oversight.

XIV. Respondent shall use its best efforts to obtain whatever authorizations, including permits, approvals, easements, rights of way and rights of entry are necessary in order to perform its obligations under this Order. Respondent shall promptly notify the Department in the event of Respondent's inability to obtain such authorizations on a timely basis. In the event Respondent is unable to obtain the necessary authorizations required to implement the Remedial Site Investigation, the Department shall, consistent with its legal authority, assist in obtaining such authorizations Respondent was unable to obtain. If Respondent cannot obtain such authorization, Respondent shall, pursuant to paragraph XXVI, request that this Order be appropriately modified.

XV. Insofar as it may be legally empowered to do so, Respondent shall permit any duly designated officer, employee, consultant, contractor or agent of the Department to enter upon the Site or areas in the vicinity of the Site which may be under the control of Respondent, and any areas necessary to gain access thereto, for purposes of inspection and of making or causing to be made such sampling and tests

as the Department deems necessary, and for assurance of Respondent's compliance with the terms of this Order.

XVI. Respondent shall retain a third-party professional engineering consultant and a Department certified laboratory to perform the technical, engineering and analytical obligations required by this Order. Respondent's third-party engineering consultant must be an engineering firm authorized to offer engineering services in the State of New York.

XVII. All decisions of the Department pursuant to this Order, including approvals, disapprovals, grants or denials of requests for extensions of time and requests for modifications of reports, work plans, specifications, schedules, or other work outputs shall be communicated in writing to Respondent by the Department, in accordance with the provisions of paragraph XXVII below.

XVIII. Respondent shall not suffer any penalty under any of the terms of this Order, or be subject to any proceeding or actions for any remedy or relief if it cannot comply with any requirements hereof including the time deadlines in schedules set forth in this Order or in the Work Plan, if caused by any of the following: (i) an act of God, (ii) unanticipated dangerous conditions at the Site about which timely notice has been given to the Department, (iii) any delays which result from failure to obtain access to the Site after Respondent has exhausted all efforts to obtain site access pursuant to its obligations as set forth in

paragraph XIV, (iv) any delay caused by the Department's failure to complete its review of plans and reports within the time period specified in this Order (v) any delays resulting from invocation of the dispute resolution procedures set forth in paragraph X or (vi) other condition as to which negligence or willful misconduct on the part of Respondent was not a proximate cause, provided however, that Respondent shall immediately notify the Department in writing when it obtains knowledge of any such condition, and shall identify with specificity the cause or causes of such delay and the estimated duration of the delay, and request an extension or modification of the terms of this Order. Respondent agrees to use its best efforts to minimize any delay which may result.

XIX. Nothing contained in this Order shall be construed as barring, diminishing, adjudicating or in any way affecting:

A. any legal or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against anyone other than Respondent, its directors, officers, employees, servants, agents, successors and assigns;

B. the Department's right to enforce at law or in equity the terms and conditions of this Order against Respondent, its directors, officers, employees, servants, agents, successors and assigns in the event that Respondent shall fail to satisfy any of the terms hereof;

C. the Department's right to bring any action at law or in equity to which the Department may be entitled against Respondent, its directors, officers, employees, servants, agents, successors and assigns with respect to areas or resources that may have been affected or contaminated as a result of the release or migration of hazardous or industrial wastes at or from the Site or to or from areas in the vicinity of the Site; and

D. the Department's right to bring any action or proceeding to which the Department may be entitled in connection with, relating to, or arising out of Respondent's alleged disposal of hazardous wastes at the Site.

XX. Respondent's sponsoring, developing and performing the IRM Program, does not constitute an admission by Respondent of liability for the conditions present on the site. Nor shall any studies, reports or other submissions developed pursuant to the terms of this Order be deemed evidence of an admission of liability for conditions present at the site.

XXI. The parties agree that the IRM Program is being conducted and funded by the Respondent to carry out the goals expressed in this Order. Respondent's signing of this Order, and its agreement to sponsor, fund and perform the work and activities outlined herein shall not constitute or be construed as a commitment or agreement, either express or implied to undertake any further activities, at the Site

other than those necessary to perform the activities set forth in the Work Plan in accordance with this Order.

XXII. The terms of this Order shall not be construed to prohibit the Commissioner or his duly authorized representative from exercising any summary abatement powers, either at common law or as granted pursuant to statute or regulation.

XXIII. Respondent shall indemnify and hold the Department, the State of New York, and their representatives and employees harmless for all claims, suits, actions, damages and costs of every name and description arising out of or resulting from the fulfillment or attempted fulfillment of the terms of this Order by Respondent, its directors, officers, employees, servants, agents, successors or assigns.

XXIV. Payment by Respondent in furtherance of any of the activities identified in the Work Plan or in furtherance of this Order shall not be deemed a waiver of, and shall not preclude Respondent from pursuing any actions or proceedings against any other potentially responsible party, with respect to the amounts paid in undertaking the work outlined in the Work Plan attached hereto as Appendix B.

XXV. The effective date of this Order shall be the date it is signed by the Commissioner.

XXVI. If Respondent desires that any terms of this Order be changed, including the terms of or time schedules set forth in the Work Plan attached hereto as Appendix B,

Respondent shall make timely written application to the Commissioner, setting forth reasonable grounds for the relief sought. The parties agree to confer in good faith in response to any such request for modification.

XXVII. All communication required by this Order to be made between the Department and Respondent shall be made in writing and transmitted by United States Postal Service Return Receipt Requested, express mail or hand delivered to the address listed below.

A. Communication to be made from Respondent to the Department shall be made as follows:

1. Two copies to the Division of Hazardous Waste Remediation, Room 212, 50 Wolf Road, Albany, New York 12233. Attention: Michael J. O'Toole, P.E., Director.

2. Two copies to the Division of Environmental Enforcement, Room 415, 50 Wolf Road, Albany, New York 12233. Attention: David Markell, Esq., Director.

3. Two copies to the NYS Department of Environmental Conservation, Region 7, 615 Erie Boulevard West, Syracuse, New York 13204 Attention: Regional Director.

4. Two copies to the NYS Department of Health, 667 South Salina Street, Syracuse, New York 13202 Attention: Ronald Heerkens.

B. Communication to be made from the Department to Respondent shall be made as follows:

1. Two copies to Stauffer Management Company, Law Department, Concord Pike & Murphy Road, Wilmington, Delaware 19897. Attention: Melford F. Tietze, Esq.

2. Two copies to Stauffer Management Company, Central Engineering Department, Concord Pike & Murphy Road, Wilmington, Delaware 19897. Attention: S.A. LaRocca.

3. Two copies to Environmental Resources Management, Inc., 855 Springdale Drive, Exton, Pennsylvania 19341. Attention: Alan MacGregor

C. The Department and Respondent respectively reserve the right to designate other or different addresses on notice to the other.

XXVIII. The terms of this Order shall be deemed to bind Respondent, its officers, directors, agents, servants, employees, successors and assigns.

XXIX. Nothing herein shall be construed to bind any entity not specifically bound by the terms of this Order.

XXX. The terms hereof shall constitute the complete and entire Order between Respondent and the Department concerning the Site. No terms, conditions, understandings or agreements purporting to modify or vary the terms hereof shall be binding unless made in writing and subscribed by the party to be bound. No informal advice, guidance, suggestions or comments by the Department regarding reports, proposals, plans, specifications, schedules or any other

writing submitted by Respondent shall be construed as relieving Respondent of its obligations to obtain such formal approvals as may be required by this Order.

DATED: *October 4, 1988* New York
1988

THOMAS C. JORLING
Commissioner
New York State Department of
Environmental Conservation

A handwritten signature in cursive script, reading "Thomas C. Jorling", is written over a horizontal line.

CONSENT BY RESPONDENT

Respondent hereby consents to the issuing and entering of this Order, waives its right to a hearing herein as provided by law, and agrees to be bound by the provisions, terms and conditions contained in this Order.

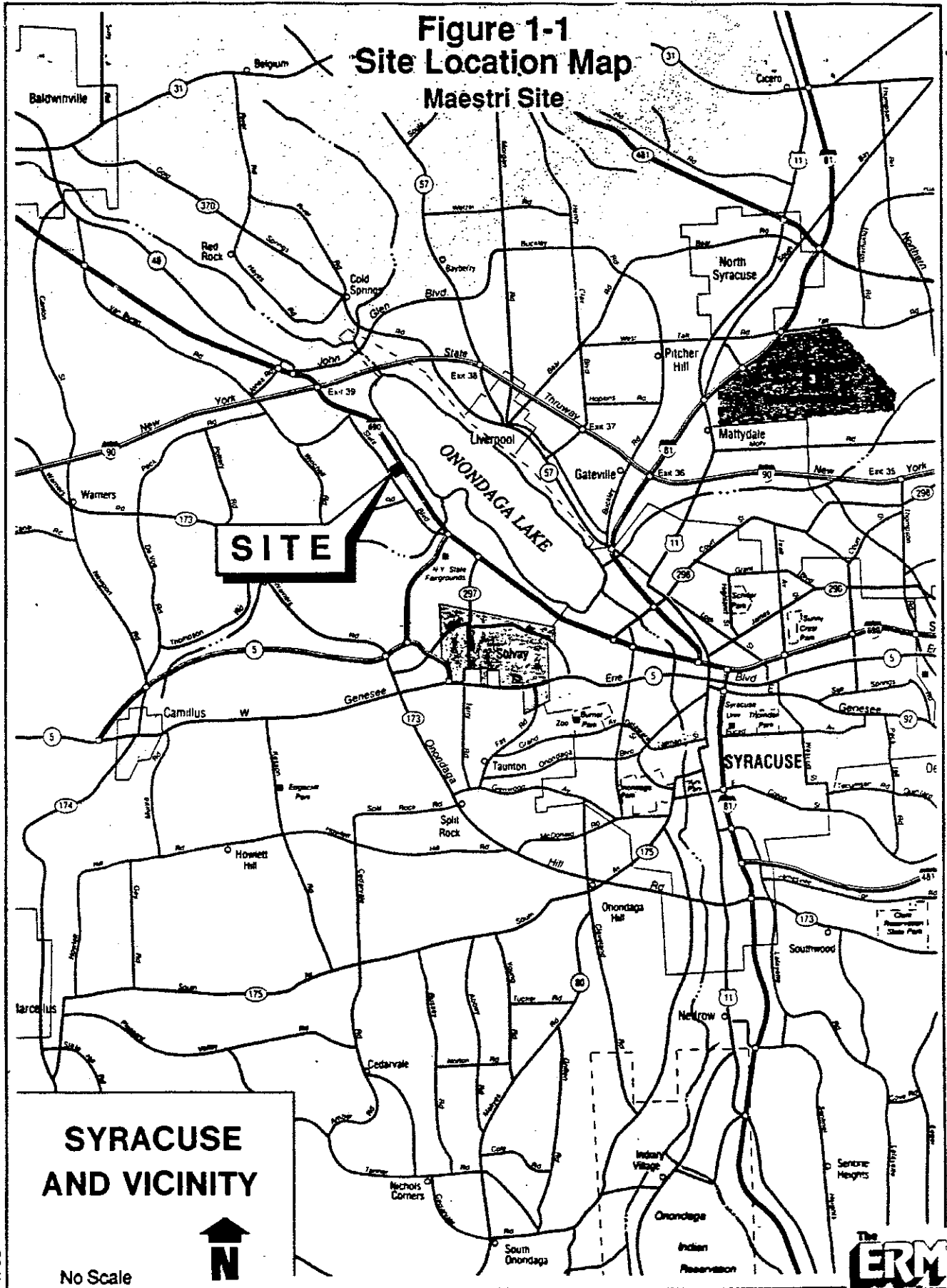
By: *A.C. Perren*Title: Vice President - Technology & Strategy *ms*Date: August 31, 1988

STATE OF DELAWARE)
) s.s.:
 COUNTY OF NEW CASTLE)

On this 31st day of August, 1988,
 before me personally came A.C. Perren
 to me known, who being duly sworn, did depose and say that he
 resides in Wilmington, Delaware;
 that he is the Vice President - Technology & Strategy of the
Stauffer Management corporation described in and
 which executed the foregoing instrument; that he knew the
 seal of said corporation; that the seal affixed to said
 instrument was such corporate seal; that it was so affixed by
 the order of the Board of Directors of said corporation, and
 that he signed his name thereto by like order.

Joanne C. Stella
 Notary Public

**Figure 1-1
Site Location Map
Maestri Site**



14703

3

STATE OF NEW YORK:
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

In the Matter of the Implementation of
an Interim Remedial Measure at an Inactive
Hazardous Waste Disposal Site by:

STAUFFER MANAGEMENT COMPANY,
Respondent.

Modification of
Order on Consent
Index # A7-0226-90-03
Site #7-34-025

WHEREAS:

1. The New York State Department of Environmental Conservation ("Department") is responsible for the enforcement of Article 27, Title 13, of the Environmental Conservation Law of the State of New York ("ECL"), entitled "Inactive Hazardous Waste Disposal Sites".

2. Stauffer Management Company ("Respondent"), is a corporation organized and existing under the laws of the State of Delaware and is doing business in the State of New York. Stauffer Management Company is an indirect successor to certain liabilities of Stauffer Chemical Company ("SCC"), a corporation which operated a manufacturing plant in Skaneateles Falls, New York from 1967 to 1981.

3. Bert Maestri, residing at 129 Pleasant Beach Road, Syracuse, New York, owns a parcel of property located at 904 State Fair Boulevard, Solvay, New York (the "Site"). A map of the Site is attached to this Order as Appendix A.

4. The Department alleges, without admission on Respondent's part, that beginning approximately in 1974 and continuing approximately until 1976, SCC, generated certain hazardous wastes which were disposed of at the Site.

5. The Site is an inactive hazardous waste disposal site, as that term is defined in ECL § 27-1301(2), and has been listed in the Registry of Inactive Hazardous Waste Disposal Sites in New York State as Site Number 7-34-025.

6. The Department has identified and classified the Site pursuant to ECL § 27-1305, under classification 2, a "significant threat to the public health or environment - action required."

7. Pursuant to ECL § 27-1313(3)(a), whenever the Commissioner of Environmental Conservation ("Commissioner") finds that hazardous wastes at an inactive hazardous waste disposal site constitute a significant threat to the environment, he may order the owner of such site and/or any person responsible for the disposal of hazardous wastes at such site (i) to develop an inactive hazardous waste disposal site remedial program, subject to the approval of the Department, at such site, and (ii) to implement such program within reasonable time limits specified in the Order."

8. On December 16, 1992 the Department entered into an Order on Consent (Index # A7-0226-90-03) with Respondent that requires a Remedial Investigation/ Feasibility Study for the Site and, if Respondent agrees to implement the remedy set forth in the Record of Decision, the development and implementation of a remedial design (RD) and remedial action (RA).

9. The Department and Respondent acknowledge that the goal of this Modification of Order on Consent #A7-0226-90-03 is that Respondent shall develop and implement an interim remedial measure ("IRM") at the Site. If the Department and Respondent agree that further IRMs are appropriate, Respondent shall submit

subsequent IRM Work Plans for the Department's review and approval prior to implementation pursuant to this Modification of Order on Consent.

10. For purposes of this Modification of Order on Consent an Interim Remedial Measure is defined as a remedial measure that reduces the threat of harm to the public health and/or the environment which are taken prior to the issuance of a Record of Decision by the Department.

11. The Department and Respondent agree that relevant information generated during Respondent's implementation of the approved interim remedial measures under this Modification of Order on Consent #A7-0226-90-03 will be included as an addendum to the Remedial Investigation.

12. While Respondent does not admit that it is responsible under law for the disposal of hazardous wastes at the Site, Respondent has agreed to fund and perform the work required in accordance with this Modification of Order on Consent #A7-0226-90-03 reserving its rights to seek contribution from any and/or all parties having any responsibility in connection therewith.

13. Respondent, having waived its right to a hearing herein, to which it is entitled before the Commissioner issues an Order pursuant to ECL 27-1313.4 and having consented to the issuance and entry of this Modification of Order on Consent #A7-0226-90-03, without any admission or denial of liability, agrees to be bound by the terms hereof.

NOW, THEREFORE, having considered this matter and being duly advised, it is ORDERED that:

I. Except where specifically modified or amended herein the terms, conditions, obligations and rights reserved under Order on Consent #A7-0226-90-03 shall remain unchanged and in full force and effect.

II. A new paragraph is to be added to the Order on Consent #A7-0226-90-03. The Order on Consent #A7-0226-90-03 is hereby amended and modified to read as follows:

XXXV. Within 30 days after the effective date of this Modification Respondent shall submit to the Department, for the Department's review and approval, a detailed work plan describing the methods and procedures to be implemented in performing an interim remedial measure ("IRM") at the Site ("IRM Work Plan"). Within 60 days of receipt of the Department's approval of the IRM Work Plan Respondent shall begin implementation of the Approved IRM Work Plan in accordance with the terms and schedule contained in the Approved IRM Work Plan. Within 60 days after completion of the IRM Respondent shall submit a final engineering report ("Final Report") and a certification that the activities were completed in accordance with the Approved IRM Work Plan, by an engineer licensed to practice by the State of New York. The Department reserves the right to require a clarification, modification,

and/or amplification and expansion of the Final Report by Respondent if the Department determines, as a result of reviewing data generated by the Approved IRM Work Plan and Final Report, or as a result of reviewing any other data or facts, that further information is required. After receipt of the Final Report and certification, the Department shall notify Respondent in writing whether it is satisfied with the quality and completeness of the IRM as being protective of human health and the environment. If the Department and Respondent agree that additional IRMs are appropriate then Respondent shall submit additional IRM Work Plans and implement such approved IRM Work Plans in accordance with procedures to be agreed upon at that time.

III. The effective date of the Modification of Order on Consent #A7-0226-90-03 shall be the date it is signed by the Commissioner or his designated representative.

DATED: *November 15*, 1993
Albany, New York

Ann DeBarbieri
Deputy Commissioner
New York State Department of
Environmental Conservation

Ann Marie DeBarbieri

CONSENT BY RESPONDENT

Respondent hereby consents to the issuing and entering of this Modification to Order on Consent #A7-0226-90-03 and agrees to be bound by the provisions, terms and conditions contained in this Modification to Order on Consent #A7-0226-90-03.

STAUFFER MANAGEMENT COMPANY

By:

Title:

Date:

Brian A. Spiller
President
Oct 20, 1993

STATE OF Delaware) s.s.:
 COUNTY OF New Castle)

On this 20th day of October, 1993, before me personally came Brian A. Spiller, to me known, who being duly sworn, did depose and say that he resides in _____; that he is the President of the Stauffer Mgmt Co. corporation, the corporation described herein and that he executed the foregoing instrument on behalf of said corporation, that he represents that he has the authorization to bind the corporation to this Order and that he has signed his name hereto.

Joanne C. Stelly
 Notary Public

Appendix M

Acceptance Letter for 2022 PRR

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 7
5786 Widewaters Parkway, Syracuse, NY 13214-1867
P: (315) 426-7519, (315) 426-7551
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April 11, 2023

Stauffer Management Company LLC
John-Paul Rossi
1800 Concord Pike P.O. Box 15437
FOP 3-415
Wilmington, DE 19850-5437

Re: Site Management Periodic Review Report Response Letter

Maestri Site, Site No.: 734025
Solvay, Onondaga County

Dear John-Paul Rossi:

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for following period: January 15, 2022, to January 15, 2023.

The Department hereby accepts the PRR and associated Certification with the following contingencies:

1. The Site Management Plan needs to be updated to reflect the proposed changes as presented in this PRR.
2. The screened intervals and depths of the wells shall be presented in future PRRs.

The frequency of Periodic Reviews for this site is one year; therefore, your next PRR is due on February 14, 2024. You will receive a reminder letter and updated certification form approximately 75 days prior to the due date. Regardless of receipt or not, of the reminder notice, the next PRR including the signed certification form, is still due on the date specified above.

If you have any questions, or need additional forms, please contact me at 315-426-7446 or e-mail: michael.belveg@dec.ny.gov.

Sincerely,



Michael Belveg
Project Manager



ec: Gary Priscott, DEC
James Sullivan, DOH
Rebecca Hensel, Arcadis

Appendix N

2022 PRR



Mr. Michael Belveg
New York State Department of Environmental Conservation (NYSDEC)
Region 7 Office
Division of Environmental Remediation
615 Erie Boulevard West
Syracuse, NY 13204

February 14, 2023

**Subject: Stauffer Management Company, LLC – Maestri Site
NYSDEC Site No. 7-34-025
900 State Fair Boulevard
Town of Geddes, NY**

Dear Mr. Belveg:

Arcadis on behalf of Stauffer Management Company, LLC (SMC), is submitting the enclosed 2022 Periodic Review Report for the Maestri Site.

If you have any questions or concerns, please do not hesitate to contact me at 315-671-9296 or Rebecca.Hensel@arcadis.com.

Sincerely,

Arcadis

A handwritten signature in black ink, appearing to read "Rebecca Hensel", written in a cursive style.

Rebecca Hensel
Project Manager

cc: John-Paul Rossi/Stauffer Management Company, LLC
Victor Finocchiaro/Arcadis

Stauffer Management Company LLC

2022 PERIODIC REVIEW REPORT

Maestri Site

Town of Geddes, New York

February 2023

Site Certification

Maestri Site
NYSDEC Site Number 7-34-025
Town of Geddes, New York

Based on my review of this Periodic Review Report, my own observations, and the observations of my staff while inspecting the Maestri Site (Site), I hereby certify, on behalf of Stauffer Management Company LLC, that the Site is compliant with the New York State Department of Environmental Conservation (NYSDEC)-approved Site Management Plan (May 2011).

- The on-site institutional and engineering controls are performing as designed and nothing has occurred that would impair the ability of the controls to continue to be protective of public health and environment.
- Nothing has occurred that would constitute a violation or a failure to comply with the Site Management Plan.
- Access to the Site to evaluate the controls continues to be available.
- The requirements of the Site Monitoring Plan are being met.
- The controls identified for the Site remain necessary for the continued effectiveness and protectiveness of the remedy.
- This Periodic Review Report and attachments (or the inspection/evaluations necessary to make this certification) were prepared under my direction and reviewed by me.

To the best of my knowledge, the conclusions described in this certification are in accordance with the requirements of the Site Management Plan, NYSDEC approval documents, and generally accepted engineering practices; the information presented is accurate and complete. Changes to the conditions at the Site, discovery of undisclosed information, or changes in activities at this Site since the last inspection may render this certification invalid. This report has been prepared solely for the use of Stauffer Management Company LLC at the Maestri Site for compliance with NYSDEC-required closure reporting protocols and the reminder notice provided by the NYSDEC on December 6, 2022 (Appendix A). Reliance on this report by others is strictly prohibited. All assumptions, clarifications, observations, and representations stated in this report apply to this certification.



Signature

077919-1, New York

Professional Engineer Registration Number & State

Timothy Miller

Principal Engineer

Name

Title

Arcadis U.S., Inc.

02/14/2023

Company

Date

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Appendices

Appendix A	NYSDEC Site Management PRR Notice
Appendix B	NYSDEC Low-Flow Approval Email
Appendix C	October 2022 Site Inspection Forms
Appendix D	NYSDEC Response to 2022 January PRR Comments and Approval

Appendix E	Well Decommissioning Logs
Appendix F	2022 Analytical Data Reports
Appendix G	Historical Well Xylene Concentrations and Water Table Elevations
Appendix H	2022 Low-Flow Sampling Logs
Appendix I	Institutional and Engineering Controls Certification Form

Acronyms and Abbreviations

EC	Engineering Controls
IC	Institutional Controls
NYSDEC	New York State Department of Environmental Conservation
PRR	Periodic Review Report
ROD	Record of Decision
SMC	Stauffer Management Company LLC
SMP	Site Management Plan
SVE	Soil Vapor Extraction
VOC	Volatile Organic Compound

1 Introduction

This Periodic Review Report (PRR) has been prepared by Arcadis U.S Inc. (Arcadis) on behalf of Stauffer Management Company LLC (SMC) for the Maestri Site, located in the Town of Geddes, New York (Site). The purpose of this report is to summarize compliance with the Site Management Plan (SMP) dated May 2011, and to provide the status of the Site institutional controls (IC) and engineering controls (EC) for Periodic Review Year 2022.

The Site has been remediated by SMC under Order on Consent Index # A7-0226-90-03 (December 1992), with the NYSDEC. In the 1970s, drums containing industrial waste were allegedly buried at the Site. In 1987, the Site owner, Mr. Bert Maestri, reportedly excavated soil and drums from an area of the Site, leading to investigations to evaluate the environmental effects of the former waste disposal area. A combination of soil vapor extraction (SVE) and biological treatment was chosen as the remedial technology for soil at the Site and a groundwater treatment system was constructed to remediate groundwater. The remedial action work began at the Site in June 1996 and was completed in May 2008. An SMP was approved by the NYSDEC in May 2011 and a Declaration of Covenants and Restrictions is currently in place. Since remaining residual soil and groundwater contamination are present at the Site, ICs/ECs have been implemented to protect public health and the environment for the applicable future use. The effectiveness of the Site IC/EC implementation and maintenance is discussed throughout this report.

2 Site Overview

The Site is located at 904 State Fair Boulevard, Geddes, New York, approximately three miles west of Syracuse, New York. The portion of the Site that is still actively monitored is approximately 2.5 acres. The Site is bordered by State Fair Boulevard to the southwest and residences along Alhan Parkway to the northeast. Vacant, wooded lots border the Site to the northwest and the southeast. A Site Location Map and Site Plan are provided in this report, as Figures 1 and 2, respectively.

2.1 Soil Remediation

Investigation into the extent of the environmental impacts at the Site began in 1987. That same year, the NYSDEC listed the Site on the New York State Registry of Inactive Hazardous Waste Disposal Sites as Site #7-34-025. SMC conducted a remedial investigation and feasibility study to determine the nature and extent of contamination and to select remedial technology for the Site. A combination of SVE and biological treatment was chosen as the most cost-effective remedy that was protective of human health and the environment. A Record of Decision (ROD) to complete soil remediation at the Site was signed in March 1995.

Soil remediation activities began in June 1996 with the excavation of over 10,000 cubic yards of soil and the construction of five above-grade biopiles for treatment of volatile organic compounds (VOC) and semi-volatile organic compounds with an SVE/bioremediation system. By September 1999, the last of the excavated material met the requirements of the ROD and was returned, with the Site re-graded and seeded in October 1999. Soil Remedial Action Objectives are provided in Table 1.

2.2 Groundwater Remediation

An on-site groundwater treatment system was constructed in 1992 and operated until 2008. The system treated water from six recovery wells, water collected from the soil excavation, and leachate accumulated from the biopiles during remedial activities. The water was treated with particulate filtration and carbon adsorption and was discharged, under a State Pollution Discharge Elimination System-equivalent permit, to a storm sewer that subsequently discharged to Onondaga Lake. The groundwater treatment system was shut down in May 2008 after it had achieved remedial goals outlined in the ROD. This required continued operation of the groundwater collection and treatment system with an annual evaluation until concentrations of contaminants at the Site could no longer be effectively removed, or cleanup objectives were met. To address remaining groundwater contamination and to enhance groundwater remediation, a series of chemical oxidation events were completed in 2001, 2002, and 2004. In an email dated May 18, 2021, the NYSDEC approved the use of low-flow sampling techniques starting in 2021 (Appendix B).

3 Institutional Controls and Engineering Controls

As provided in the SMP, ICs and ECs were designed to manage remaining contamination at the Site after completion of the remedial action work and to protect human health and the environment for the applicable future use. The ICs and ECs are designed to prevent the following:

- Ingestion/direct contact with contaminated soil.
- Inhalation of, or exposure to, contaminants volatilizing from contaminated soil.
- Ingestion of groundwater with contaminant levels that exceed applicable drinking water standards.
- Contact with, or inhalation of, volatiles from contaminated groundwater.
- Migration of contaminated groundwater resulting in off-site contamination.
- Migration of contaminants that would result in off-site groundwater or surface water contaminants.

The Site has the following ECs:

- Maintenance of the soil cover over the soil redeposition areas, consisting of three inches of loam, six inches of topsoil, and grass
- Continuous monitoring of groundwater.

The Site has the following ICs:

- Compliance with the established Declaration of Covenants and Restrictions with all elements of the SMP.
- Engineering Controls must be operated and maintained as specified in the SMP.
- Engineering Controls at the Site must be inspected and certified at a frequency and in a manner defined in the SMP.
- Groundwater monitoring must be performed as defined in the SMP.
- Data and information pertinent to the management of the Site must be reported at the frequency and in a manner defined in the SMP.
- On-site environmental monitoring devices, including but not limited to, groundwater monitoring wells, must be protected and replaced as necessary to ensure the devices function in the manner specified in the SMP.

Additionally, the Declaration of Covenants and Restrictions has placed the following restrictions on the property:

- Vegetable gardens and farming on the property are prohibited.
- Use of groundwater underlying the property is prohibited without treatment rendering it safe for the intended use as approved by the New York State Department of Health.
- As the topsoil cover over the excavated areas acts as a cover system at the Site, disturbance and incidental damage to this cover system shall be repaired upon discovery in a manner that complies with the SMP.
- All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Excavation Plan included in the SMP.
- The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated.
- The property may be used for residential use with restricted groundwater use, provided that the long-term ICs/ECs described in the SMP are employed and land zoning regulations are followed.

3.1 Effectiveness of Institutional Controls and Engineering Controls

The ICs/ECs specified in the SMP are in place and effective in protecting human health and the environment. In 2022, the ECs were operated and maintained as specified in the SMP. The soil cover was maintained, and the quality and integrity of the cover was inspected in 2022, as specified in the SMP. The 2022 site inspection report is provided in Appendix C. The semiannual groundwater monitoring continued in 2022 (May and October) as specified in the SMP. Groundwater flow directions for both 2022 monitoring events are provided in Figures 3 and 4, respectively. Groundwater analytical results from both of the events are identified, by sampling location, in Figures 5 and 6.

SMC received approval from NYSDEC on March 9, 2021 to remove PZ-4 from the sampling program and to properly decommission. However, SMC was unable to locate PZ-4 in 2022 similar to the reported activities in the 2021 PRR. The following activities were completed in an attempt to locate PZ-4:

- Reviewed historical aerial photos of the Site.
- Marked well location with hand GPS unit and hand-dug around the area.
- Walked the property with a metal detector.
- Interviewed previous consultants to aid in locating.
- Interviewed homeowner which revealed that the yard had been regraded.
- Attempted to locate with drillers while on site for abandonment work of wells RW-3, RW-5, and RW-8.

SMC proposes to complete the decommissioning form and specify the inability to locate well PZ-4 in the Water Well Abandonment and Decommissioning Report.

In addition to the ICs/ECs, a fence and locked gates prevent access to the Site.

3.2 Attaining Remedial Goals

Groundwater monitoring takes place to ensure that residual groundwater contamination is not migrating off site and to analyze the remaining levels of contamination in the groundwater, which is required for compliance with remedial goals.

Xylene concentrations continue to show seasonal fluctuations across semiannual sampling events. Specifically, the fluctuations are observed in monitoring locations RW-6, MW-2A, RW-7 and MW-9, as presented on Table 2. Samples from off-site downgradient wells PZ-20 and PZ-21 continue to show no detections, indicating that the plume is not migrating to the off-site downgradient area and remediation goals are attainable. Three wells, specifically RW-3, RW-5 and RW-8, have historically shown results less than the detection limit of the test procedure. Pursuant to the 2021 PRR that was approved on April 18, 2022 (Appendix A), groundwater monitoring wells PZ-20, RW-3, RW-5, and RW-8 were to be removed from the monitoring program, beginning in 2022. Monitoring wells RW-3, RW-5, and RW-8 were decommissioned, in accordance with NYSDEC Commissioner Policy 43: Groundwater Monitoring Well Decommissioning Policy, during the October 2022 semiannual sampling event. The decommissioning logs are presented in Appendix E.

A review of groundwater elevation data in comparison to total xylene concentrations (Appendix G) indicate that higher groundwater elevations at the time of sampling typically result in higher reported total xylene concentrations. The higher groundwater table elevations are typically observed during the second quarter (Spring) sampling event.

Historical xylene results are presented in Table 2, visual representation presented in Appendix G, and current analytical lab reports are presented in Appendix F. Additional historical details can be found in previously submitted PRRs.

3.3 Annual Site Inspection Results

The results from the annual site inspection show that the soil cover remains in place and intact and that the ICs/ECs continue to protect public health and the environment. The on-site ICs/ECs remain in place. They have proven to be effective and have not been impaired in their ability to protect human health and the environment. The Site remains accessible to evaluate the ICs/ECs and continues to be compliant with the established Declaration of Covenants and Restrictions. The site inspection report can be found in Appendix C. The NYSDEC Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form has been provided in Appendix I.

4 Summary of Site Evaluation

The Site is compliant with the ROD, as (1) the contaminated soil was treated, redeposited, and covered with a soil cover, (2) the groundwater treatment plant was operated until the contaminants were no longer able to be effectively removed or cleanup objectives were met, and (3) monitoring of the groundwater continues semiannually and has demonstrated no further off-site migration.

Groundwater analytical results from the 2022 sampling events indicated that groundwater collected from MW-2A, MW-9, and RW-7 were the only samples where xylene was detected at a concentration greater than the site-specific clean-up goal of 5 micrograms per liter. A review historical and current groundwater data from the existing monitoring points, beginning June 2014, demonstrate the following:

- Xylene has been detected at concentrations greater than the groundwater cleanup objectives in 3 of the 9 wells sampled (MW-2A, MW-9, and RW-7).
- Xylene has not been detected at a concentration equal to, or greater than, the groundwater cleanup objective in samples collected from PZ-20, PZ-21, RW-3, RW-5, and RW-8. Note that PZ-20, RW-3, RW-5, and RW-8 were all removed from sampling program in second half of 2022.

- Linear regression trend graphs for locations with xylene concentration greater than the cleanup objectives indicated stable to decreasing xylene trends (Figures 7A through 7D).

Analytical results from monitoring well MW-2A remain consistent with those from MW-9, due to their close proximity and well screen across the same groundwater interface. As such, it is proposed that monitoring well MW-2A be removed from the sampling program as the sampling data no longer serves a purpose.

The 2022 groundwater sampling events were conducted via low-flow sampling. The low-flow sampling logs are presented in Appendix H. The 2022 sampling results were consistent with historical results thus low-flow techniques will continue to be utilized at the Site.

5 Plans Moving Forward

Analytical results continue to indicate that the groundwater plume is stable to decreasing. The site remedy and the SMP are effective in complying with cleanup objectives and are protective of public health and the environment. Based on the current and historical data it is requested the following changes to the monitoring program be made:

- Groundwater sample collection via low-flow techniques should continue in 2023.
- Removal of MW-2A from the sampling program as, due to their location and well screens across the same groundwater interface, the analytical data is duplicative of the data from sampling location MW-9.
- Transition to annual sampling for monitoring wells MW-9, PZ-21, RW-6, and RW-7, to occur in the second quarter of each year.
- Cease the submittal of groundwater monitoring reports, only submitting the 2023 PRR by early 2024.
- Complete the Water Well Abandonment and Decommissioning Report for monitoring well PZ-4 based on the evidence documented in this PRR.

7 References

Envirospec Engineering, PLLC. 2010. *Site Management Plan*, Maestri Site, Onondaga County, New York, NYSDEC Site Number: 7-34-025. Prepared for Stauffer Management Company. August.

Tables

TABLE 1
REMEDIAL ACTION OBJECTIVES
2022 PERIOD REVIEW REPORT
MAESTRI SITE
GEDDES, NEW YORK

Parameter	Groundwater Cleanup Objectives (µg/L)
Volatile Organic Compound (VOC)	
Benzene	5
Ethylbenzene	5
t-1,2-dichloroethylene	5
Tetrachloroethylene	5
Toluene	5
Xylene	5
Total VOCs	100
Semi-Volatile Organic Compound (SVOC)	
Benzoic acid	5
2-methylphenol	50
4-methylphenol	50

Parameter	Soil Cleanup Objectives (µg/L)
Volatile Organic Compound (VOC)	
Benzene	0.06
Ethylbenzene	5.5
t-1,2-dichloroethylene	0.3
Tetrachloroethylene	1.4
Toluene	1.5
Xylene	1.2
Total VOC	10
Semi-Volatile Organic Compound (SVOC)	
Benzoic acid	2.7
2-methylphenol	0.1
4-methylphenol	0.9
Total SVOC	500

Notes:

Site Remedial Action Objectives are based on Remedial Objectives from the 2011 SMP.

TABLE 2
SUMMARY OF HISTORIC TOTAL XYLENE CONCENTRATIONS
2022 PERIODIC REVIEW REPORT
MAESTRI SITE
GEDDES, NEW YORK

Date Collected	MW-2A	MW-9	PZ-4	PZ-20	PZ-21	RW-3	RW-4	RW-5	RW-6	RW-7	RW-8
2-May-06	2400	NS	NS	*****	*****	<3.0	**	<3.0	58	<30	<3.0
6-Jun-06	NS	NS	NS	*****	*****	<3.0	**	<3.0	9	102	<3.0
4-Jul-06	665	NS	NS	*****	*****	<3.0	**	<3.0	34	130	NS
1-Aug-06	NS	NS	NS	*****	*****	5	**	<3.0	63	90	<3.0
3-Oct-06	<3.0	NS	NS	*****	*****	3.3	**	<3.0	3	55	NS
2-Jan-07	<3.0	NS	NS	*****	*****	<3.0	**	<3.0	29	40	NS
3-Apr-07	6.4	NS	NS	*****	*****	INC	**	<3.0	145	3.7	NS
3-Jul-07	410	NS	NS	*****	*****	<3.0	**	<3.0	<3.0	<3.0	NS
2-Oct-07	1025	NS	NS	*****	*****	<3.0	**	<3.0	30	6	NS
7-Jan-08	3.0	11	NS	*****	*****	<3.0	**	14	52	<3.0	NS
1-Apr-08	987	NS	NS	*****	*****	22	**	<3.0	27	15	NS
Treatment System Shutdown on May 27th, 2008											
Jun-08	68 [54]	964	<3.0	*****	*****	6.1	**	<3.0	84	119	<3.0
Jul-08	1,700	1,800	<3.0	*****	*****	4.4	**	<3.0 [<3.0]	71	124	<3.0
Aug-08	1,770 [1,200]	1,795	<3.0	*****	*****	4.3	**	<3.0	148	104	<3.0
Nov-08	16	73	<3.0	*****	*****	<3.0	**	<3.0	158	73	<3.0
Feb-09	9.1	<3.0	<3.0	*****	*****	<3.0	**	<3.0	590	<3.0 [<3.0]	<3.0
Jun-09	4,635	7,830	<3.0	<3.0	*****	<3.0	**	<3.0	641	23	<3.0
Dec-09	5,780	5,145	<3.0	<3.0	*****	<3.0	**	<3.0	417	169	<3.0
May-10	100 [122]	190	<3.0	<3.0	*****	<3.0	**	<3.0	862	15	<3.0
Oct-10	32	<3.0	<3.0	<3.0	*****	<3.0	**	<3.0	168 [157]	71	<3.0
Apr-11	685	3,598 [3,220]	10	<3.0	*****	<3.0	**	<3.0	208	66	<3.0
Jun-11	5,352	9,337	<3.0	<3.0	*****	NS	**	NS	906	7.7 [7.8]	NS
Nov-11	1,560 [1,980]	3.8	<3.0	<3.0	*****	<3.0	**	<3.0	749	<3.0	<3.0
Jun-12	230 [179]	5,370	<3.0	< 3.0	<3.0	<3.0	**	<3.0	622	41	<3.0
Dec-12	2,903	NS (DRY)	<3.0	<3.0 [<3.0]	<3.0	<3.0	**	13	511	145	7.2
Jun-13	<3.0	<3.0 [<3.0]	4.1	< 3.0	<3.0	<3.0	**	<3.0	14	<3.0	<3.0
Nov-13	2,722	7.0	4.9	< 3.0	<3.0 [<3.0]	<3.0	**	<3.0	418	91	<3.0

TABLE 2
SUMMARY OF HISTORIC TOTAL XYLENE CONCENTRATIONS
2022 PERIODIC REVIEW REPORT
MAESTRI SITE
GEDDES, NEW YORK

Date Collected	MW-2A	MW-9	PZ-4	PZ-20	PZ-21	RW-3	RW-4	RW-5	RW-6	RW-7	RW-8
Jun-14	4,700	2,800	<3.0	< 3.0	3.5	<3.0	**	<3.0 [<3.0]	770	8.0	<3.0
Oct-14	825	145	7.1	<1.0	<1.0	<1.0	**	<1.0	466 [470]	184.0	<1.0
May-15	407	<1.0	5.3	<1.0	<1.0 [<1.0]	<1.0	**	<1.0	604	16.6	2.0
Nov-15	769	739	5.3	<1.0	<1.0	15.4	**	<1.1	183 [208]	5.2	3.4
Apr-16	261	< 1.0	5.7	<1.0	<1.0	<1.0	**	<1.0	707	22.6 [23.2]	<1.0
Oct-16	68.3	< 1.0	4.3	<1.0	<1.0	<1.0	**	<1.0	88.9 [94.5]	<1.0	<1.0
Apr-17	3,350	3,380	6.4	<1.0	<1.0 [<1.0]	<1.0	**	<1.0	333	0.4	<1.0
Nov-17	<3.0	<3.0	4.6	<3.0	< 3.0	<3.0	**	< 3.0	<3.0	3.0	<3.0 [<3.0]
Jun-18	1,020	870	10	<3.0	<3.0	<3.0	**	<3.0	70	21	<3.0 [<3.0]
Oct-18	170 [160]	410	4.3	<1.0	<1.0	<1.0	**	<1.0	150	13	<1.0
May-19	1,630	6,400 [3,700]	5.8	<1.0	<1.0	<1.0	**	<1.0	300	33	1.6
Oct-19	32 [23]	230	4.3J	<1.0	<1.0	<1.0	**	<1.0	9.5	<1.0	<1.0
May-20	1,270 [1,630]	1,270	5.2	<5.0	<5.0	<5.0	**	<5.0	267	<5.0	<5.0
Oct-20	284	520	NA	<5.0	<5.0	<5.0	**	<5.0 [<5.0]	62	114	<5.0
May-21	<2.0	<2.0 [<2.0]	NA	<2.0	<2.0	<2.0	**	<2.0	<2.0	<2.0	<2.0
Nov-21	<2.0 [<2.0]	<2.0	NA	<2.0	<2.0	NR	**	NR	18	<2.0	NR
May-22	420 J	640 [620]	NA	<10	<10	<40	**	<10	2.8 J	<10	<10
Oct-22	120 [110]	<2.0	NA	NR	<2.0	NR	**	NR	4.9	14	NR

Notes:

All analytical results are in micrograms per liter (µg/L).

October 2022 samples were analyzed by Eurofins TestAmerica in Edison, NJ.

Monitoring well MW-2A was formerly known as RW-2 in 2006.

INC = Inconclusive laboratory result

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value

NA = Not available

NS = Not sampled

NR = Not required for sampling

** = Wells No. 1 and 4 were removed as part of the excavation

***** = PZ-20 was installed on June 24, 2009

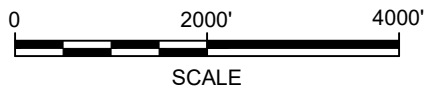
***** = PZ-21 was installed on June 7, 2012

< = Constituent is not detected; the associated value is the reporting limit

Figures



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., CAMILLUS AND SYRACUSE WEST, NEW YORK, 2019.



NEW YORK

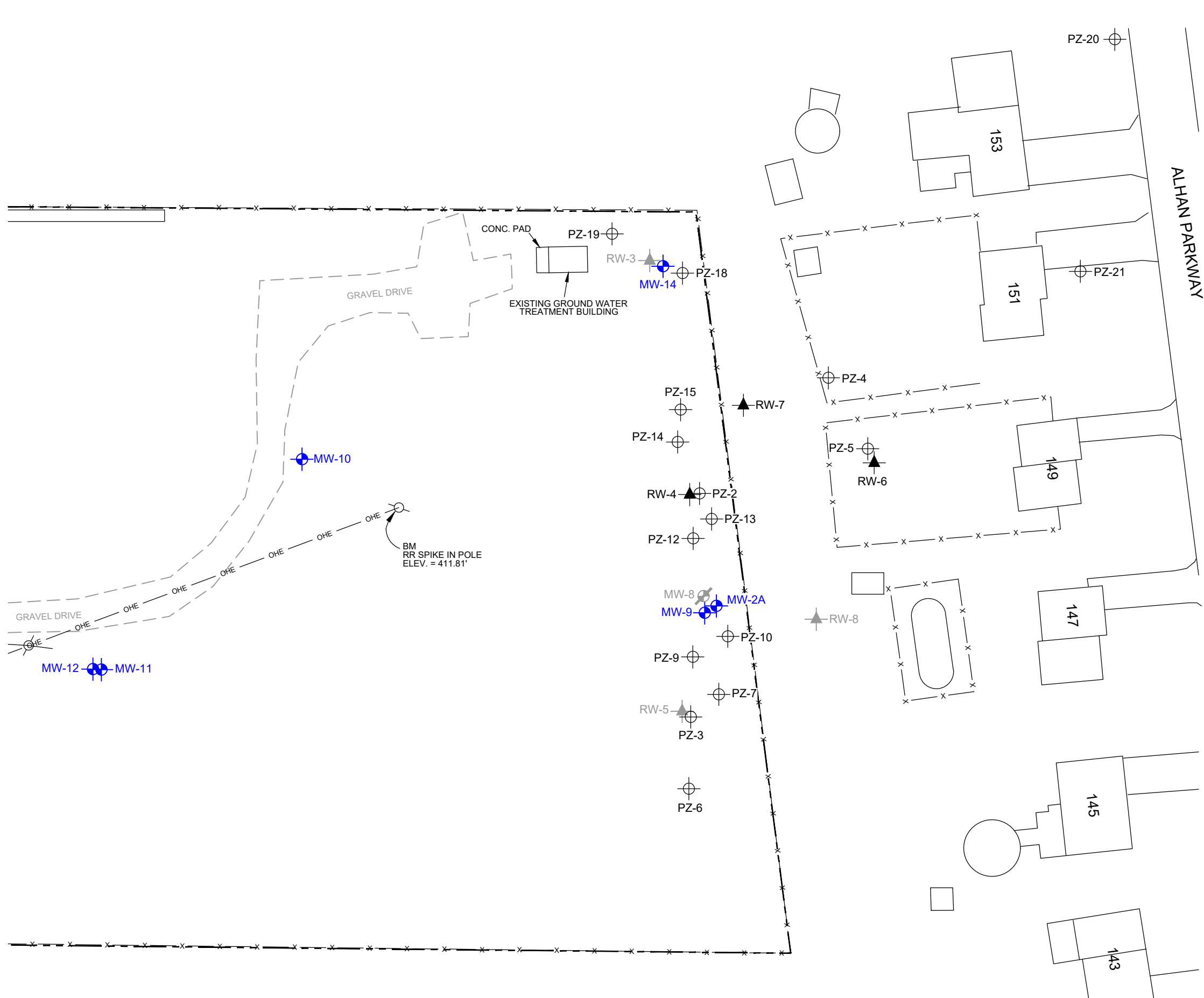
MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK
2022 PERIODIC REVIEW REPORT

SITE LOCATION MAP



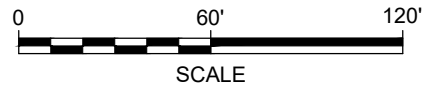
FIGURE

1



- LEGEND
- MAESTRI SITE PROPERTY BOUNDARY
 - 8' HIGH SECURITY FENCE
 - ELECTRIC POLE
 - OVERHEAD ELECTRIC LINE
 - MONITORING WELL
 - REMOVED MONITORING WELL
 - RECOVERY WELL
 - REMOVED RECOVERY WELL
 - PIEZOMETER

- NOTES:
- BASE MAP SUPPLIED BY IT CORPORATION. SURVEY BY CT MALE, 2008.
 - FEATURES AND LOCATIONS ARE APPROXIMATE.

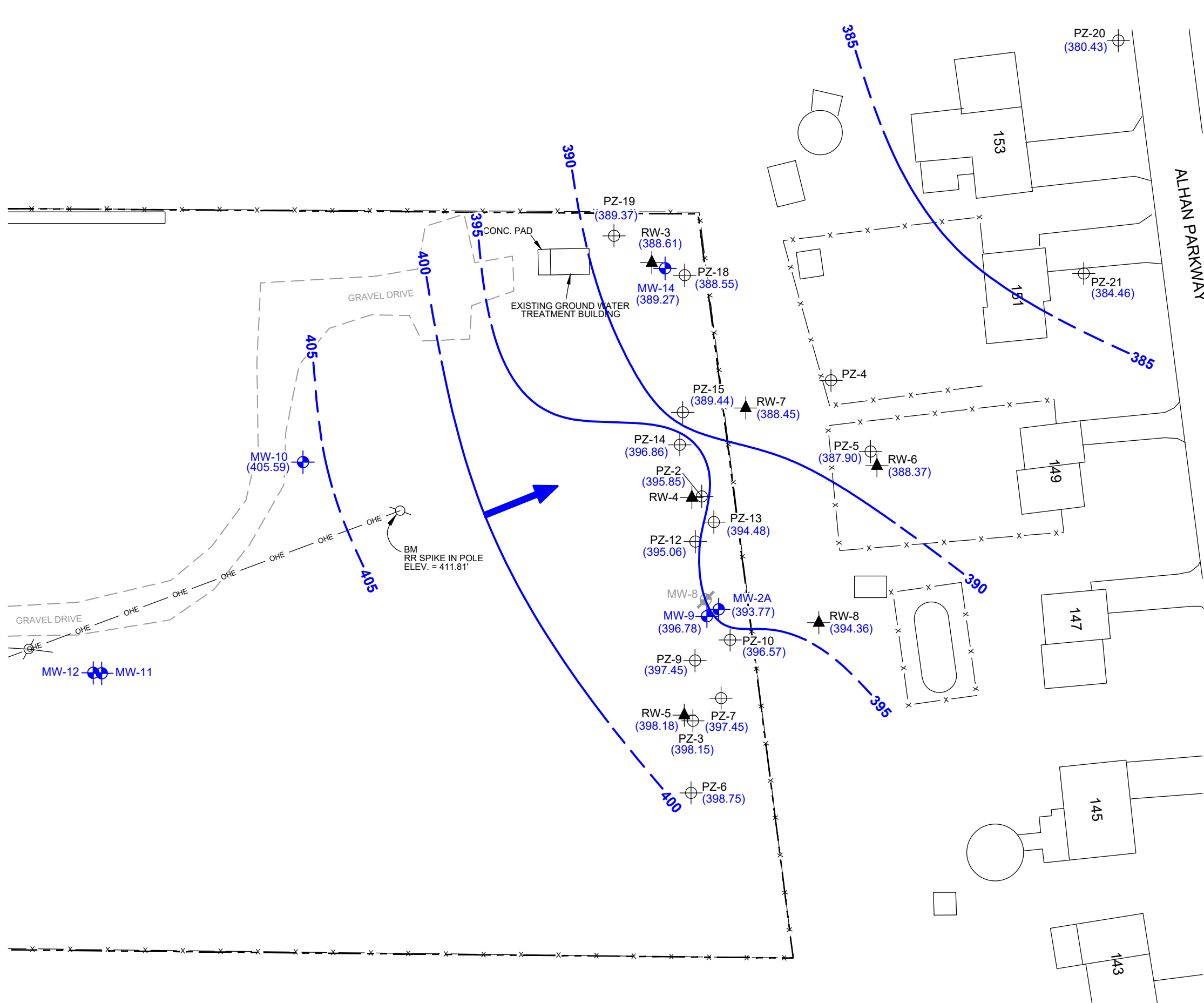


MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK
2022 PERIODIC REVIEW REPORT

SITE PLAN

ARCADIS

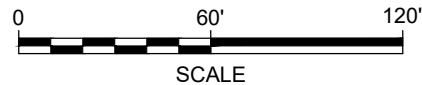
FIGURE
2



LEGEND

- MAESTRI SITE PROPERTY BOUNDARY
- 8' HIGH SECURITY FENCE
- ELECTRIC POLE
- OVERHEAD ELECTRIC LINE
- MONITORING WELL
- REMOVED MONITORING WELL
- RECOVERY WELL
- PIEZOMETER
- (405.59) GROUNDWATER ELEVATION (FEET)
- GROUNDWATER ELEVATION CONTOUR (FEET, DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

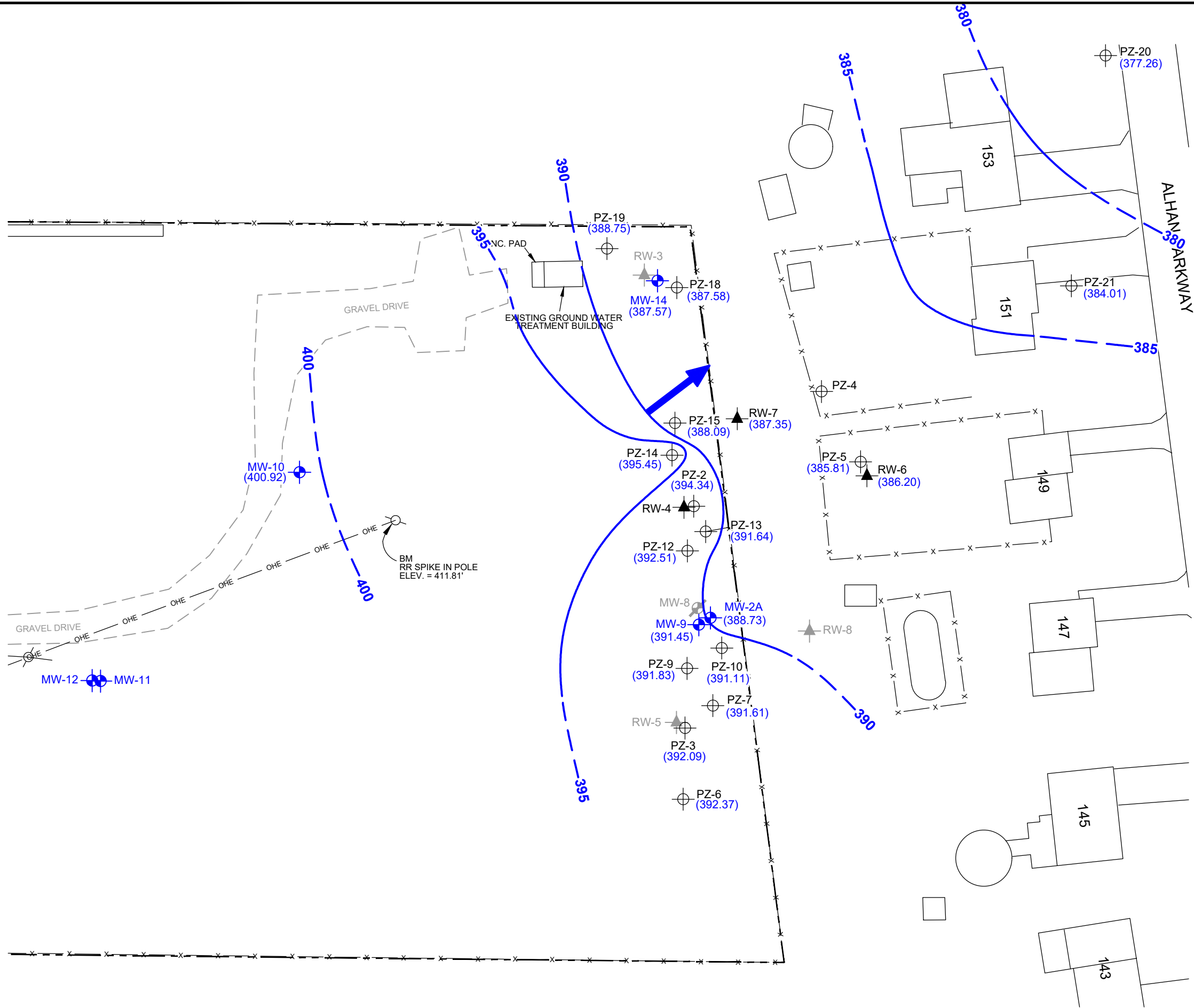
- NOTES:**
- BASE MAP SUPPLIED BY IT CORPORATION. SURVEY BY CT MALE, 2008.
 - FEATURES AND LOCATIONS ARE APPROXIMATE.
 - MONITORING WELLS WITHOUT GROUNDWATER ELEVATIONS ARE NOT GAUGED.



MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK
2022 PERIODIC REVIEW REPORT

**GROUNDWATER ELEVATION
CONTOUR MAP
MAY 24, 2022**

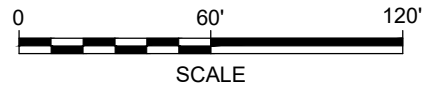




LEGEND

- MAESTRI SITE PROPERTY BOUNDARY
- 8' HIGH SECURITY FENCE
- ELECTRIC POLE
- OVERHEAD ELECTRIC LINE
- MONITORING WELL
- REMOVED MONITORING WELL
- RECOVERY WELL
- REMOVED RECOVERY WELL
- PIEZOMETER
- (400.92) GROUNDWATER ELEVATION (FEET)
- GROUNDWATER ELEVATION CONTOUR (FEET, DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

- NOTES:**
- BASE MAP SUPPLIED BY IT CORPORATION. SURVEY BY CT MALE, 2008.
 - FEATURES AND LOCATIONS ARE APPROXIMATE.
 - MONITORING WELLS WITHOUT GROUNDWATER ELEVATIONS ARE NOT GAUGED.

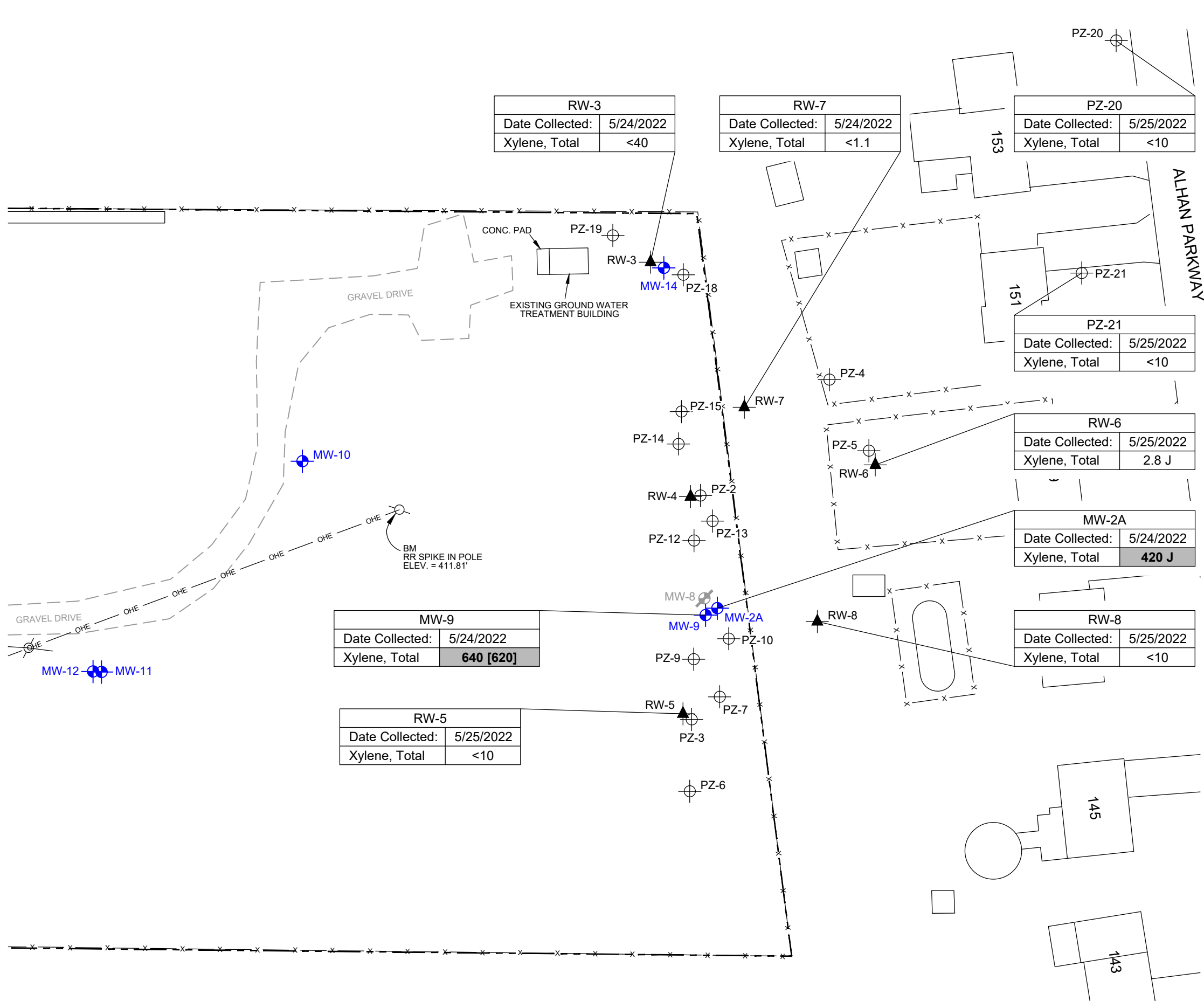


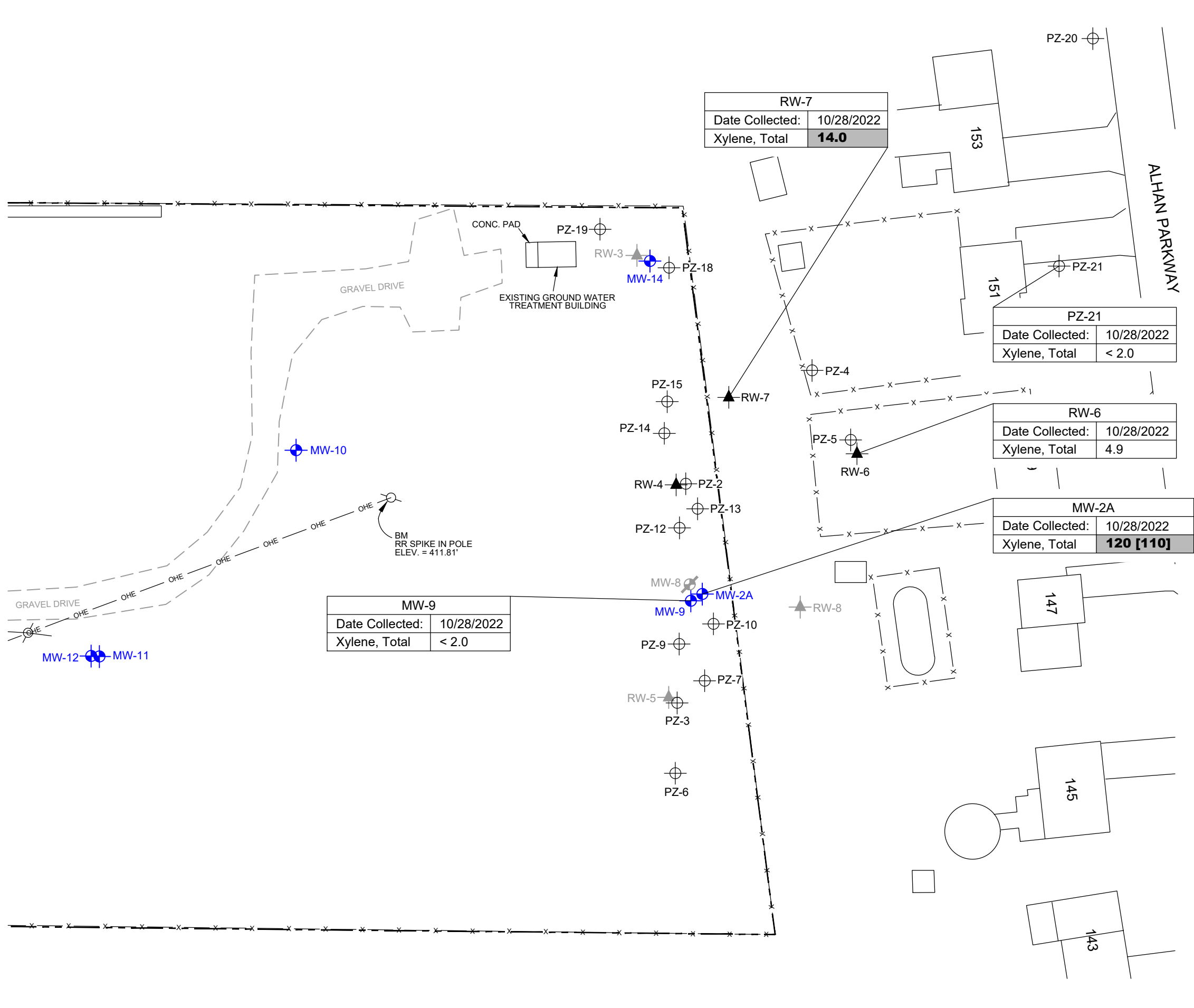
MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK
2022 PERIODIC REVIEW REPORT

**GROUNDWATER ELEVATION
CONTOUR MAP
OCTOBER 28, 2022**

ARCADIS

FIGURE
4





LEGEND

- MAESTRI SITE PROPERTY BOUNDARY
- 8' HIGH SECURITY FENCE
- ELECTRIC POLE
- OVERHEAD ELECTRIC LINE
- MONITORING WELL
- REMOVED MONITORING WELL
- RECOVERY WELL
- REMOVED RECOVERY WELL
- PIEZOMETER

Site Specific Cleanup Goals

Xylene, Total	5
---------------	---

NOTES:

- ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (µg/L).
- BASE MAP SUPPLIED BY IT CORPORATION. SURVEY BY CT MALE, 2008.
- BOLD VALUE AND SHADING DENOTES THAT THE CONCENTRATION WAS DETECTED ABOVE THE SITE SPECIFIC CLEANUP GOALS
- FEATURES AND LOCATIONS ARE APPROXIMATE.
- < = CONSTITUENT IS NOT DETECTED AND THE ASSOCIATED VALUE IS THE REPORTING LIMIT
- [] = INDICATES FIELD DUPLICATE SAMPLE RESULT

0 60' 120'

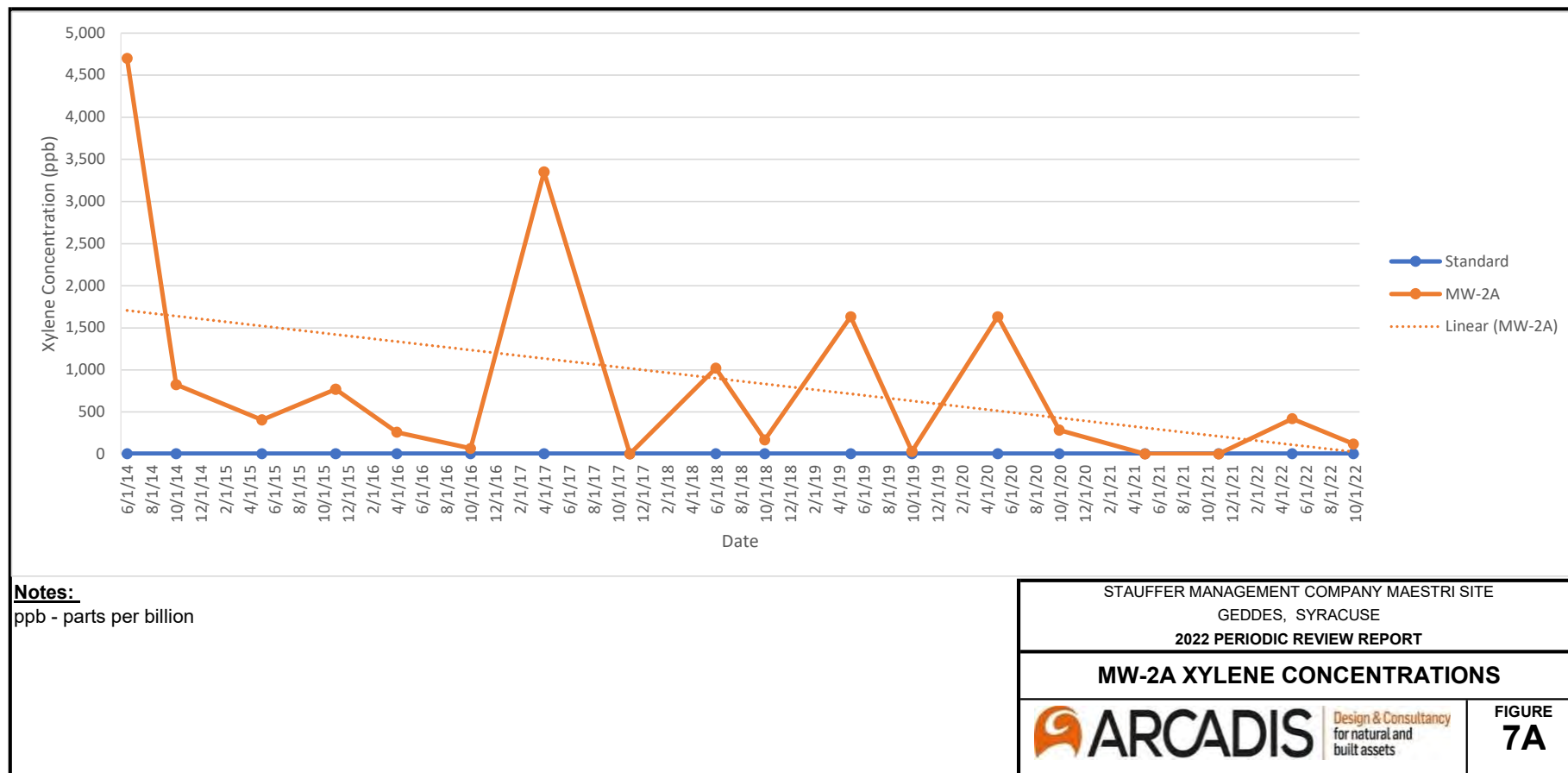
SCALE

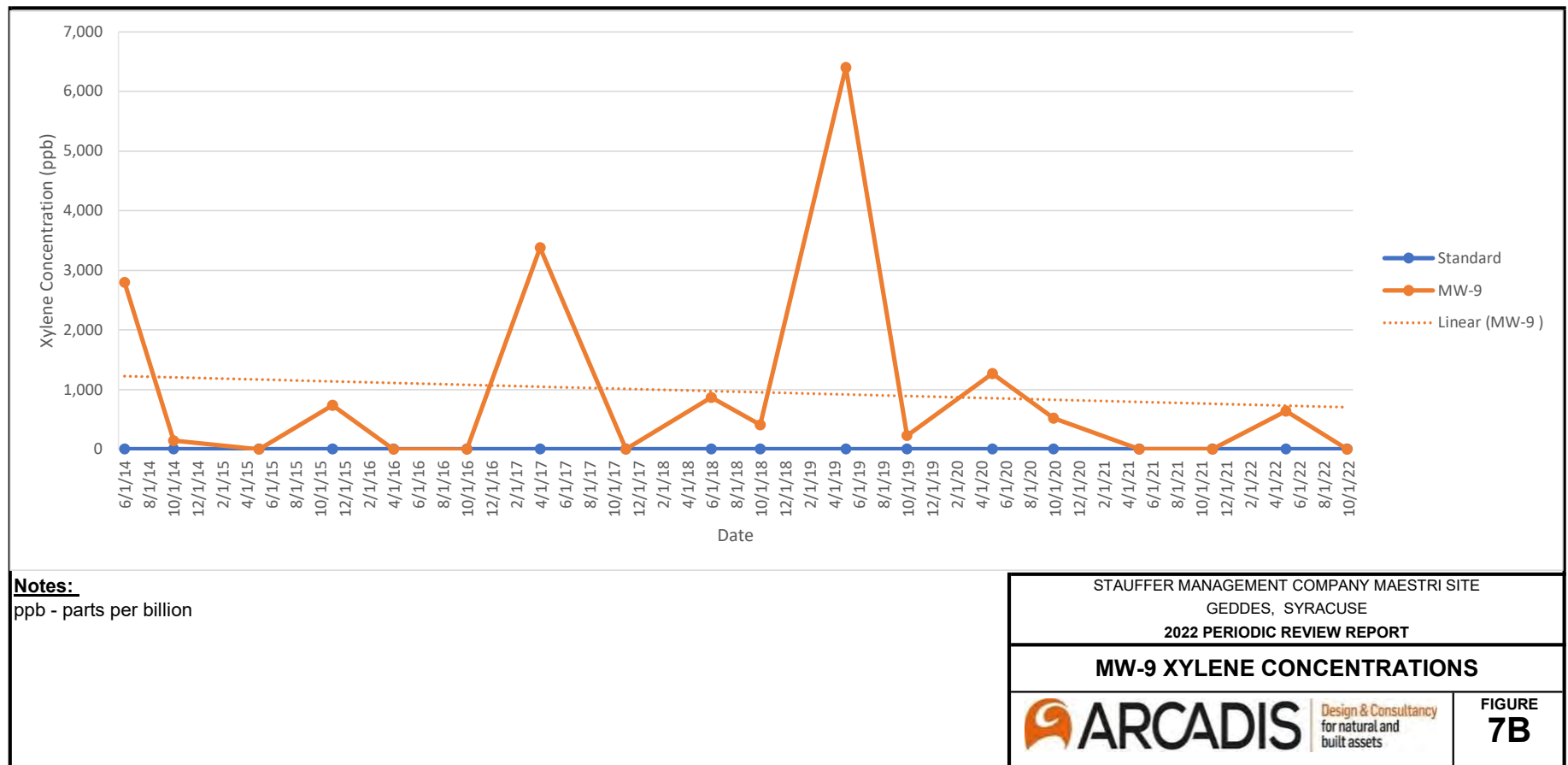
MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK
2022 PERIODIC REVIEW REPORT

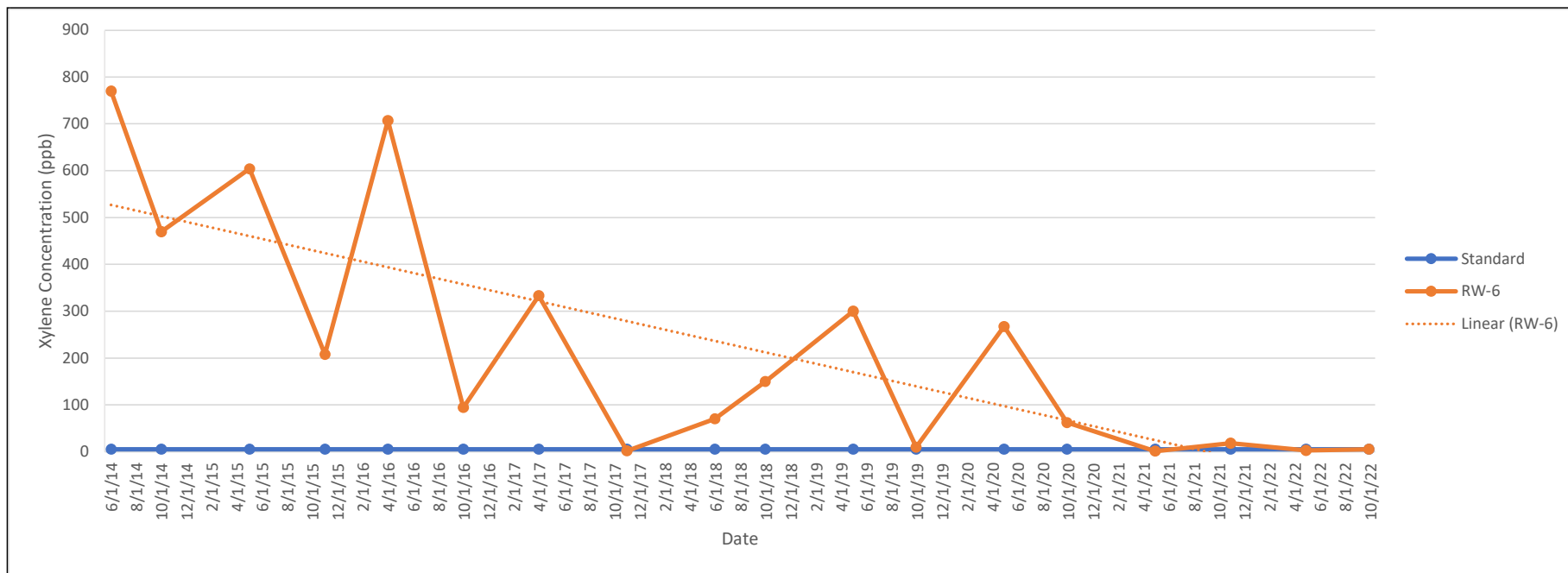
**GROUNDWATER ANALYTICAL RESULTS
OCTOBER 28, 2022**

ARCADIS

FIGURE
6







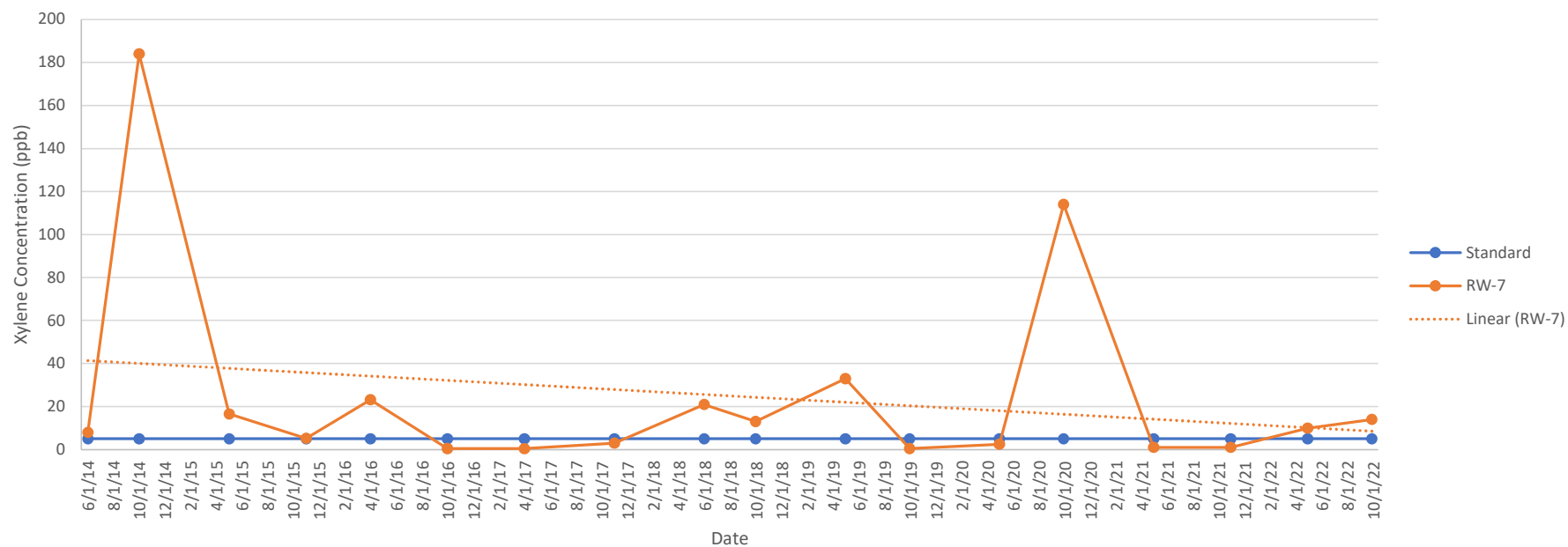
Notes:
ppb - parts per billion

STAUFFER MANAGEMENT COMPANY MAESTRI SITE
GEDDES, SYRACUSE
2022 PERIODIC REVIEW REPORT

RW-6 XYLENE CONCENTRATIONS



**FIGURE
7C**



Notes:
ppb - parts per billion

STAUFFER MANAGEMENT COMPANY MAESTRI SITE
GEDDES, SYRACUSE
2022 PERIODIC REVIEW REPORT

RW-7 XYLENE CONCENTRATIONS



FIGURE
7D

Appendix A

NYSDEC Site Management Periodic Review Report Notice

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation

625 Broadway, 11th Floor, Albany, NY 12233-7020

P: (518)402-9543 | F: (518)402-9547

www.dec.ny.gov

12/6/2022

John-Paul Rossi
Project Manager
Stauffer Management Company LLC
1800 Concord Pike P.O. Box 15437
FOP 3-415
Wilmington, DE 19850-5437
johnpaul.rossi@astrazeneca.com

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal

Site Name: Maestri Site

Site No.: 734025

Site Address: 900 State Fair Boulevard
Solvay, NY 13209

Dear John-Paul Rossi:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site-specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at <http://www.dec.ny.gov/regulations/67386.html>) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **February 14, 2023**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.



All site-related documents and data, including the PRR, must be submitted in electronic format to the Department of Environmental Conservation. The required format for documents is an Adobe PDF file with optical character recognition and no password protection. Data must be submitted as an electronic data deliverable (EDD) according to the instructions on the following webpage:

<https://www.dec.ny.gov/chemical/62440.html>

Documents may be submitted to the project manager either through electronic mail or by using the Department's file transfer service at the following webpage:

<https://fts.dec.state.ny.us/fts/>

The Department will not approve the PRR unless all documents and data generated in support of the PRR have been submitted using the required formats and protocols.

You may contact Michael Belveg, the Project Manager, at 315-426-7446 or michael.belveg@dec.ny.gov with any questions or concerns about the site. Please notify the project manager before conducting inspections or field work. You may also write to the project manager at the following address:

New York State Department of Environmental Conservation
615 Erie Blvd W

Syracuse, NY 13204

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

ec: w/ enclosures

ec: w/ enclosures

Michael Belveg, Project Manager
Gary Priscott, Hazardous Waste Remediation Supervisor, Region 7

Arcadis - Rebecca Hensel - rebecca.hensel@arcadis.com

The following parcel owner did not receive an ec:

Mark Maestri - Parcel Owner

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.
- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

Appendix B

NYSDEC Low-Flow Approval Email

Matt, Luke

From: Hensel, Rebecca
Sent: Tuesday, May 18, 2021 11:45 AM
To: Matt, Luke; O'Leary, Zoe
Subject: FW: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

Please save and file

Rebecca Hensel, EIT | Environmental Engineer | rebecca.hensel@arcadis.com

Arcadis | U.S., Inc.

110 West Fayette Street Suite 300, Syracuse, NY | 13202 | USA

T. +1 315.671.9296 C. +1 315.751.3069

Connect with us! www.arcadis.com | [LinkedIn](#) | [Twitter](#) | [Facebook](#)



Be green, leave it on the screen.

From: Belveg, Michael J (DEC) <michael.belveg@dec.ny.gov>
Sent: Tuesday, May 18, 2021 11:32 AM
To: Hensel, Rebecca <Rebecca.Hensel@arcadis.com>; Rossi, John-Paul <Johnpaul.rossi@astrazeneca.com>
Cc: Finocchiaro, Victor <Victor.Finocchiaro@arcadis.com>
Subject: Re: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

Hi Rebecca,

This is acceptable to the Department for the 2021 sampling events.

Thanks,
Mike

From: Hensel, Rebecca <Rebecca.Hensel@arcadis.com>
Sent: Thursday, May 13, 2021 2:09 PM
To: Rossi, John-Paul <Johnpaul.rossi@astrazeneca.com>; Belveg, Michael J (DEC) <michael.belveg@dec.ny.gov>
Cc: Finocchiaro, Victor <Victor.Finocchiaro@arcadis.com>
Subject: RE: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Good Morning Mike,

Thank you again for taking time to discuss the sampling activities at the Maestri site. As discussed during the meeting Stauffer Management Company is requesting to utilize low flow groundwater sampling methodology in place of 3 volume purge for the 2021 sampling events (May & October). A results comparison of the new results from the Low Flow sampling will be compared to the previously collected 3 Volume purge samples in the 2021 Periodic Review Report.

Please let us know if this is acceptable and if you have any additional questions

Thank you,
Rebecca

Rebecca Hensel, EIT | Environmental Engineer | rebecca.hensel@arcadis.com

Arcadis | U.S., Inc.

110 West Fayette Street Suite 300, Syracuse, NY | 13202 | USA

T. +1 315.671.9296 C. +1 315.751.3069

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Be green, leave it on the screen.

From: Rossi, John-Paul <Johnpaul.rossi@astrazeneca.com>

Sent: Tuesday, May 11, 2021 11:30 AM

To: Belveg, Michael J (DEC) <michael.belveg@dec.ny.gov>; Hensel, Rebecca <Rebecca.Hensel@arcadis.com>

Subject: RE: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

Thanks Mike for the information and taking the time to meet with us. Look forward to working with you on this matter. Best, John-Paul

From: Belveg, Michael J (DEC) <michael.belveg@dec.ny.gov>

Sent: Tuesday, May 11, 2021 9:14 AM

To: rebecca.hensel@arcadis.com

Cc: Rossi, John-Paul <Johnpaul.rossi@astrazeneca.com>

Subject: Re: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

james.sullivan@health.ny.gov

From: Hensel, Rebecca <Rebecca.Hensel@arcadis.com>

Sent: Monday, May 3, 2021 5:38 PM

To: Belveg, Michael J (DEC) <michael.belveg@dec.ny.gov>

Cc: Finocchiaro, Victor <Victor.Finocchiaro@arcadis.com>; Rossi, John-Paul <Johnpaul.rossi@astrazeneca.com>

Subject: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Good Afternoon Michael,

Arcadis has recently taken over the sampling and reporting activities for the Maestri and Novack sites and we would like to set up an introduction meeting to discuss upcoming sampling events and sampling methodologies.

Please let me know if you have preferred days/times you would like to meet.

Thank you,
Rebecca

Rebecca Hensel, EIT | Environmental Engineer | rebecca.hensel@arcadis.com

Arcadis | U.S., Inc.

110 West Fayette Street Suite 300, Syracuse, NY | 13202 | USA

T. +1 315.671.9296 C. +1 315.751.3069

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Appendix C

October 2022 Site Inspection Forms



110 West Fayette Street Suite 300
Syracuse
New York, 13202
Phone: 315 446 9120
Fax: 315 449 0017

Date: 10/28/2022
Time: 7:30

Site Inspection Report

Client	Stauffer Management Company LLC	Project No.	30077264 30120984
Location	Maestri Site, 904 State Fair Blvd, Geddes, NY	Inspected By:	T. Derleth

Please note any deficiencies, issues, or actions taken at the bottom of the page or on continuation pages

Site Security	Circle one			Comments/Action Required
1. Was gate closed and locked when arriving at site?	☒ Y	☐ N	NA	
2. Are there any holes or breaks in the fencing?	☒ Y	☐ N	NA	
3. Was the door to the treatment shed locked?	☒ Y	☐ N	NA	
4. Is the back gate closed and locked?	☒ Y	☐ N	NA	
5. Are there any signs of vandalism or unauthorized entry (odd tire tracks, damage to fence, strange debris [bottles, cans, etc])?	☒ Y	☐ N	NA	
5a. If so, explain below and notify SMC and Arcadis immediately				
Wells				
6. Are wells intact?	☒ Y	☐ N	NA	
7. Are all wells covered (with lid or cap)? (except wells noted below)	☒ Y	☐ N	NA	
8. Are all wells locked? (except wells noted below)	☒ Y	☐ N	NA	
Site Maintenance				
9. Is there any garbage or debris? If so, please remove/discard.	☒ Y	☐ N	NA	
10. Is there visible dust?	☒ Y	☐ N	NA	
11. Does the grass need to be mowed?	☒ Y	☐ N	NA	Recently mowed
12. Do any areas need to be weeded or shrub cleared?	☒ Y	☐ N	NA	
13. Are there any bald spots in grassy areas?	☒ Y	☐ N	NA	
14. Are the access roads clear?	☒ Y	☐ N	NA	
15. Do any areas (site roads or access to wells) need to be plowed?	☒ Y	☐ N	NA	
16. Are there any sink holes throughout the site?	☒ Y	☐ N	NA	
17. Any odors onsite?	☒ Y	☐ N	NA	
18. Are site signs still up and visible?	☒ Y	☐ N	NA	
Erosion Control				
19. Is silt fence still intact and upright?	☒ Y	☐ N	NA	
19a. If areas need repair or erosion control installed, indicate below and contact Abscope for repairs.				
20. Is there any evidence of runoff? (i.e. water flow paths on ground)	☒ Y	☐ N	NA	
21. Is there any standing, ponded, or pools of water?	☒ Y	☐ N	NA	
22. Are there any signs of runoff at the northeast corner? (stone area)	☒ Y	☐ N	NA	
23. Is there currently any surface water runoff?	☒ Y	☐ N	NA	
23a. If so, describe where, approximate flow, and appearance of water below.				
Treatment System				
24. Are the breakers for the pumps still in the off position?	☒ Y	☐ N	NA	
25. Does effluent totalizer on the wall for still read 2846902?	☒ Y	☐ N	NA	
25a. If not, contact Arcadis or SMC immediately and check that effluent valve is closed.				
26. Are all critical valves in the closed position?	☒ Y	☐ N	NA	
27. Are there any system status alarms on the computer?	☒ Y	☐ N	NA	
27a. If so, describe below how they have been handled. (this does not include well level alarms)				
28. Are all flow values on computer "zero"?	☒ Y	☐ N	NA	
("Flow to sewer," "Tot flow to sewer," "tot daily flow," and "TGAL" for each well should each be "zero")				
28. Check level of sump. Does sump need to be pumped out?	☒ Y	☐ N	NA	
29. List water level for each recovery well as shown on computer: (total depth of well is shown in brackets)				
RW-7 [27.5']	DTW 18.41 FT	RW-5 [24.5']	DTW 17.00 FT	
RW-2 (not online)	DTW	RW-8 [24.5']	DTW 16.76 FT	
RW-3 [25.3']	DTW 19.30 FT	RW-6 [21.8']	DTW 7.44 FT	
30. Are any recovery wells at close to overtopping? (ref total depth above)	☒ Y	☐ N	NA	
Upon leaving the site, check the following:				
31. Is the treatment shed locked?	☒ Y	☐ N	NA	
32. Were the gates closed and locked after leaving site?	☒ Y	☐ N	NA	

Note:

Signature of Inspector:

Include General Site Observations and Follow-Up Actions on the Reverse



110 West Fayette Street Suite 300
Syracuse
New York, 13202
Phone: 315 446 9120
Fax: 315 449 0017

Date: 10/28/22

Time: 7:30

Site Inspection Report

Continuation Page(s)

Page 2 of 2

Client	Stauffer Management Company LLC	Project No.	30120984
Location	Maestri Site, 904 State Fair Blvd, Geddes, NY	Inspected By:	T. Derleth

General Site Observations:

Site in good condition
well abandonment to take place
site recently mowed by landscaper

Follow-up: Indicate actions required, person(s) contacted, and dates for completion

No Follow up actions required, site in good standing

Signature of Inspector:

Appendix D

NYSDEC Response to 2021 January PRR Comments and Approval

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation

625 Broadway, 11th Floor, Albany, NY 12233-7020

P: (518)402-9543 | F: (518)402-9547

www.dec.ny.gov

April 18, 2022

Stauffer Management Company LLC
John-Paul Rossi
1800 Concord Pike P.O. Box 15437
FOP 3-415
Wilmington, DE 19850-5437

Re: Site Management Periodic Review Report Response Letter

Maestri Site, Site No.: 734025
Solvay, Onondaga County

Dear John-Paul Rossi:

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for the following period: January 15, 2021, to January 15, 2022.

The Department hereby accepts the PRR and associated Certification with the following modifications:

1. Section 6 Plans Moving Forward, Second Bullet – Monitoring location MW-2A shall continue to be sampled biannually for another reporting period using the low-flow sampling technique.
2. Section 6 Plans Moving Forward, Third Bullet - Groundwater monitoring shall continue to be sampled biannually in the second and fourth quarters for another reporting period using the low-flow sampling technique.

The frequency of Periodic Reviews for this site is one year; therefore, your next PRR is due on February 14, 2023. You will receive a reminder letter and updated certification form approximately 75 days prior to the due date. Regardless of receipt or not, of the reminder notice, the next PRR including the signed certification form, is still due on the date specified above.

If you have any questions, or need additional forms, please contact me at 315-426-7446 or e-mail: michael.belveg@dec.ny.gov.

Sincerely,

Michael Belveg

Michael Belveg
Project Manager



Department of
Environmental
Conservation

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation

625 Broadway, 11th Floor, Albany, NY 12233-7020

P: (518)402-9543 | F: (518)402-9547

www.dec.ny.gov

ec:

Gary Priscott, DEC
James Sullivan, DOH Project Manager
Rebecca Hensel, Arcadis

Appendix E

Well Decommissioning Logs

FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: Maestri Site	Well I.D.: RW-3
Site Location: Geddes, New York	Driller: Mark Eaves
Drilling Co.: Parratt-Wolff, Inc.	Inspector:
	Date: 10/28/22

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*																																																
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Sean Eaves
Drilling Contractor

Department Representative

FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: Maestri Site	Well I.D.: RW-5
Site Location: Geddes, New York	Driller: Mark Eaves
Drilling Co.: Parratt-Wolff, Inc.	Inspector:
	Date: 10/28/22

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*																																																
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Sean Eaves
Drilling Contractor

Department Representative

FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: Maestri Site	Well I.D.: RW-8
Site Location: Geddes, New York	Driller: Mark Eaves
Drilling Co.: Parratt-Wolff, Inc.	Inspector:
	Date: 10/28/22

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*																																																
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Sean Eaves
Drilling Contractor

Department Representative

Appendix F

May 2022 & November 2022 Analytical Data Reports

ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-198348-1
Client Project/Site: SMC Maestri Site
Revision: 1

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Ms. Rebecca Hensel



Authorized for release by:
7/14/2022 4:25:33 PM

John Schove, Project Manager II
(716)504-9838
John.Schove@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: SMC Maestri Site

Job ID: 480-198348-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: SMC Maestri Site

Job ID: 480-198348-1

Job ID: 480-198348-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-198348-1

Revision

This report has been revised to report Total Xylenes.

Comments

No additional comments.

Receipt

The samples were received on 5/26/2022 10:00 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 was 2.8° C.

GC/MS VOA

Method 624.1: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: RW-3 (480-198348-1) and RW-6 (480-198348-3). Elevated reporting limits (RLs) are provided.

Method 624.1: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-2A (480-198348-6), MW-2A (480-198348-6[MS]) and MW-2A (480-198348-6[MSD]). Elevated reporting limits (RLs) are provided.

Method 624.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-627798 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 624.1: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-9 (480-198348-7), BD_(052422) (480-198348-10), (480-198348-B-7 MS) and (480-198348-B-7 MSD). Elevated reporting limits (RLs) are provided.

Method 624.1: Due to the high concentration of m-Xylene & p-Xylene o-Xylene Xylenes, Total, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 480-627970 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: SMC Maestri Site

Job ID: 480-198348-1

Client Sample ID: RW-3

Lab Sample ID: 480-198348-1

No Detections.

Client Sample ID: RW-5

Lab Sample ID: 480-198348-2

No Detections.

Client Sample ID: RW-6

Lab Sample ID: 480-198348-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	2.8	J	20	2.2	ug/L	2		624.1	Total/NA

Client Sample ID: RW-7

Lab Sample ID: 480-198348-4

No Detections.

Client Sample ID: RW-8

Lab Sample ID: 480-198348-5

No Detections.

Client Sample ID: MW-2A

Lab Sample ID: 480-198348-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	420	F1	40	4.3	ug/L	4		624.1	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 480-198348-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	640	F1	80	8.6	ug/L	8		624.1	Total/NA

Client Sample ID: PZ-20

Lab Sample ID: 480-198348-8

No Detections.

Client Sample ID: PZ-21

Lab Sample ID: 480-198348-9

No Detections.

Client Sample ID: BD_(052422)

Lab Sample ID: 480-198348-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	620		80	8.6	ug/L	8		624.1	Total/NA

Client Sample ID: FB_(052422)

Lab Sample ID: 480-198348-11

No Detections.

Client Sample ID: FB_(052522)

Lab Sample ID: 480-198348-12

No Detections.

Client Sample ID: TB_(052422)

Lab Sample ID: 480-198348-13

No Detections.

Client Sample ID: TB_(022522)

Lab Sample ID: 480-198348-14

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: SMC Maestri Site

Job ID: 480-198348-1

Client Sample ID: RW-3

Date Collected: 05/24/22 18:17

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-1

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	4.3	U	40	4.3	ug/L			05/26/22 20:52	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 130					05/26/22 20:52	4
4-Bromofluorobenzene (Surr)	100		76 - 123					05/26/22 20:52	4
Dibromofluoromethane (Surr)	103		75 - 123					05/26/22 20:52	4
Toluene-d8 (Surr)	102		77 - 120					05/26/22 20:52	4

Client Sample ID: RW-5

Date Collected: 05/25/22 09:05

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-2

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.1	U	10	1.1	ug/L			05/26/22 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 130					05/26/22 21:16	1
4-Bromofluorobenzene (Surr)	99		76 - 123					05/26/22 21:16	1
Dibromofluoromethane (Surr)	101		75 - 123					05/26/22 21:16	1
Toluene-d8 (Surr)	100		77 - 120					05/26/22 21:16	1

Client Sample ID: RW-6

Date Collected: 05/25/22 11:15

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-3

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.8	J	20	2.2	ug/L			05/26/22 21:39	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 130					05/26/22 21:39	2
4-Bromofluorobenzene (Surr)	101		76 - 123					05/26/22 21:39	2
Dibromofluoromethane (Surr)	103		75 - 123					05/26/22 21:39	2
Toluene-d8 (Surr)	100		77 - 120					05/26/22 21:39	2

Client Sample ID: RW-7

Date Collected: 05/24/22 17:55

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-4

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.1	U	10	1.1	ug/L			05/26/22 22:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 130					05/26/22 22:03	1
4-Bromofluorobenzene (Surr)	102		76 - 123					05/26/22 22:03	1
Dibromofluoromethane (Surr)	104		75 - 123					05/26/22 22:03	1
Toluene-d8 (Surr)	100		77 - 120					05/26/22 22:03	1

Eurofins Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: SMC Maestri Site

Job ID: 480-198348-1

Client Sample ID: RW-8

Date Collected: 05/25/22 08:52

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-5

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.1	U	10	1.1	ug/L			05/26/22 22:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 130					05/26/22 22:27	1
4-Bromofluorobenzene (Surr)	99		76 - 123					05/26/22 22:27	1
Dibromofluoromethane (Surr)	100		75 - 123					05/26/22 22:27	1
Toluene-d8 (Surr)	99		77 - 120					05/26/22 22:27	1

Client Sample ID: MW-2A

Date Collected: 05/24/22 15:00

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-6

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	420	F1	40	4.3	ug/L			05/26/22 22:52	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 130					05/26/22 22:52	4
4-Bromofluorobenzene (Surr)	99		76 - 123					05/26/22 22:52	4
Dibromofluoromethane (Surr)	101		75 - 123					05/26/22 22:52	4
Toluene-d8 (Surr)	99		77 - 120					05/26/22 22:52	4

Client Sample ID: MW-9

Date Collected: 05/24/22 14:50

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-7

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	640	F1	80	8.6	ug/L			05/27/22 17:04	8
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		68 - 130					05/27/22 17:04	8
4-Bromofluorobenzene (Surr)	101		76 - 123					05/27/22 17:04	8
Dibromofluoromethane (Surr)	102		75 - 123					05/27/22 17:04	8
Toluene-d8 (Surr)	101		77 - 120					05/27/22 17:04	8

Client Sample ID: PZ-20

Date Collected: 05/25/22 13:43

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-8

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.1	U	10	1.1	ug/L			05/26/22 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 130					05/26/22 23:40	1
4-Bromofluorobenzene (Surr)	100		76 - 123					05/26/22 23:40	1
Dibromofluoromethane (Surr)	104		75 - 123					05/26/22 23:40	1
Toluene-d8 (Surr)	101		77 - 120					05/26/22 23:40	1

Eurofins Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: SMC Maestri Site

Job ID: 480-198348-1

Client Sample ID: PZ-21

Lab Sample ID: 480-198348-9

Date Collected: 05/25/22 11:08

Matrix: Water

Date Received: 05/26/22 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.1	U	10	1.1	ug/L			05/27/22 00:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		68 - 130					05/27/22 00:04	1
4-Bromofluorobenzene (Surr)	101		76 - 123					05/27/22 00:04	1
Dibromofluoromethane (Surr)	105		75 - 123					05/27/22 00:04	1
Toluene-d8 (Surr)	100		77 - 120					05/27/22 00:04	1

Client Sample ID: BD_(052422)

Lab Sample ID: 480-198348-10

Date Collected: 05/24/22 00:00

Matrix: Water

Date Received: 05/26/22 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	620		80	8.6	ug/L			05/27/22 17:28	8
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 130					05/27/22 17:28	8
4-Bromofluorobenzene (Surr)	100		76 - 123					05/27/22 17:28	8
Dibromofluoromethane (Surr)	105		75 - 123					05/27/22 17:28	8
Toluene-d8 (Surr)	100		77 - 120					05/27/22 17:28	8

Client Sample ID: FB_(052422)

Lab Sample ID: 480-198348-11

Date Collected: 05/24/22 19:35

Matrix: Water

Date Received: 05/26/22 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.1	U	10	1.1	ug/L			05/27/22 17:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 130					05/27/22 17:52	1
4-Bromofluorobenzene (Surr)	100		76 - 123					05/27/22 17:52	1
Dibromofluoromethane (Surr)	102		75 - 123					05/27/22 17:52	1
Toluene-d8 (Surr)	100		77 - 120					05/27/22 17:52	1

Client Sample ID: FB_(052522)

Lab Sample ID: 480-198348-12

Date Collected: 05/24/22 14:35

Matrix: Water

Date Received: 05/26/22 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.1	U	10	1.1	ug/L			05/27/22 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 130					05/27/22 18:16	1
4-Bromofluorobenzene (Surr)	99		76 - 123					05/27/22 18:16	1
Dibromofluoromethane (Surr)	102		75 - 123					05/27/22 18:16	1
Toluene-d8 (Surr)	100		77 - 120					05/27/22 18:16	1

Eurofins Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: SMC Maestri Site

Job ID: 480-198348-1

Client Sample ID: TB_(052422)

Lab Sample ID: 480-198348-13

Date Collected: 05/25/22 00:00

Matrix: Water

Date Received: 05/26/22 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.1	U	10	1.1	ug/L			05/27/22 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 130					05/27/22 18:40	1
4-Bromofluorobenzene (Surr)	100		76 - 123					05/27/22 18:40	1
Dibromofluoromethane (Surr)	103		75 - 123					05/27/22 18:40	1
Toluene-d8 (Surr)	101		77 - 120					05/27/22 18:40	1

Client Sample ID: TB_(022522)

Lab Sample ID: 480-198348-14

Date Collected: 05/25/22 00:00

Matrix: Water

Date Received: 05/26/22 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.1	U	10	1.1	ug/L			05/27/22 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		68 - 130					05/27/22 19:04	1
4-Bromofluorobenzene (Surr)	100		76 - 123					05/27/22 19:04	1
Dibromofluoromethane (Surr)	102		75 - 123					05/27/22 19:04	1
Toluene-d8 (Surr)	101		77 - 120					05/27/22 19:04	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: SMC Maestri Site

Job ID: 480-198348-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (68-130)	BFB (76-123)	DBFM (75-123)	TOL (77-120)
480-198348-1	RW-3	103	100	103	102
480-198348-2	RW-5	103	99	101	100
480-198348-3	RW-6	104	101	103	100
480-198348-4	RW-7	102	102	104	100
480-198348-5	RW-8	102	99	100	99
480-198348-6	MW-2A	102	99	101	99
480-198348-6 MS	MW-2A	97	97	97	100
480-198348-6 MSD	MW-2A	98	97	97	100
480-198348-7	MW-9	105	101	102	101
480-198348-7 MS	MW-9	100	98	102	96
480-198348-7 MSD	MW-9	98	99	99	101
480-198348-8	PZ-20	104	100	104	101
480-198348-9	PZ-21	105	101	105	100
480-198348-10	BD_(052422)	103	100	105	100
480-198348-11	FB_(052422)	104	100	102	100
480-198348-12	FB_(052522)	102	99	102	100
480-198348-13	TB_(052422)	103	100	103	101
480-198348-14	TB_(022522)	105	100	102	101
LCS 480-627798/7	Lab Control Sample	101	99	97	100
LCS 480-627970/7	Lab Control Sample	107	98	101	101
MB 480-627798/9	Method Blank	99	99	98	100
MB 480-627970/9	Method Blank	103	99	100	100

Surrogate Legend

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

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: SMC Maestri Site

Job ID: 480-198348-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-627798/9

Matrix: Water

Analysis Batch: 627798

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.1	U	10	1.1	ug/L			05/26/22 16:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		68 - 130					05/26/22 16:41	1
4-Bromofluorobenzene (Surr)	99		76 - 123					05/26/22 16:41	1
Dibromofluoromethane (Surr)	98		75 - 123					05/26/22 16:41	1
Toluene-d8 (Surr)	100		77 - 120					05/26/22 16:41	1

Lab Sample ID: LCS 480-627798/7

Matrix: Water

Analysis Batch: 627798

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	101		68 - 130						
4-Bromofluorobenzene (Surr)	99		76 - 123						
Dibromofluoromethane (Surr)	97		75 - 123						
Toluene-d8 (Surr)	100		77 - 120						

Lab Sample ID: 480-198348-6 MS

Matrix: Water

Analysis Batch: 627798

Client Sample ID: MW-2A

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	97		68 - 130						
4-Bromofluorobenzene (Surr)	97		76 - 123						
Dibromofluoromethane (Surr)	97		75 - 123						
Toluene-d8 (Surr)	100		77 - 120						

Lab Sample ID: 480-198348-6 MSD

Matrix: Water

Analysis Batch: 627798

Client Sample ID: MW-2A

Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	98		68 - 130						
4-Bromofluorobenzene (Surr)	97		76 - 123						
Dibromofluoromethane (Surr)	97		75 - 123						
Toluene-d8 (Surr)	100		77 - 120						

Lab Sample ID: MB 480-627970/9

Matrix: Water

Analysis Batch: 627970

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.1	U	10	1.1	ug/L			05/27/22 16:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 130					05/27/22 16:07	1

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QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: SMC Maestri Site

Job ID: 480-198348-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-627970/9

Matrix: Water

Analysis Batch: 627970

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		76 - 123		05/27/22 16:07	1
Dibromofluoromethane (Surr)	100		75 - 123		05/27/22 16:07	1
Toluene-d8 (Surr)	100		77 - 120		05/27/22 16:07	1

Lab Sample ID: LCS 480-627970/7

Matrix: Water

Analysis Batch: 627970

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		68 - 130
4-Bromofluorobenzene (Surr)	98		76 - 123
Dibromofluoromethane (Surr)	101		75 - 123
Toluene-d8 (Surr)	101		77 - 120

Lab Sample ID: 480-198348-7 MS

Matrix: Water

Analysis Batch: 627970

Client Sample ID: MW-9

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		68 - 130
4-Bromofluorobenzene (Surr)	98		76 - 123
Dibromofluoromethane (Surr)	102		75 - 123
Toluene-d8 (Surr)	96		77 - 120

Lab Sample ID: 480-198348-7 MSD

Matrix: Water

Analysis Batch: 627970

Client Sample ID: MW-9

Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		68 - 130
4-Bromofluorobenzene (Surr)	99		76 - 123
Dibromofluoromethane (Surr)	99		75 - 123
Toluene-d8 (Surr)	101		77 - 120

Eurofins Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: SMC Maestri Site

Job ID: 480-198348-1

GC/MS VOA

Analysis Batch: 627798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198348-1	RW-3	Total/NA	Water	624.1	
480-198348-2	RW-5	Total/NA	Water	624.1	
480-198348-3	RW-6	Total/NA	Water	624.1	
480-198348-4	RW-7	Total/NA	Water	624.1	
480-198348-5	RW-8	Total/NA	Water	624.1	
480-198348-6	MW-2A	Total/NA	Water	624.1	
480-198348-8	PZ-20	Total/NA	Water	624.1	
480-198348-9	PZ-21	Total/NA	Water	624.1	
MB 480-627798/9	Method Blank	Total/NA	Water	624.1	
LCS 480-627798/7	Lab Control Sample	Total/NA	Water	624.1	
480-198348-6 MS	MW-2A	Total/NA	Water	624.1	
480-198348-6 MSD	MW-2A	Total/NA	Water	624.1	

Analysis Batch: 627970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198348-7	MW-9	Total/NA	Water	624.1	
480-198348-10	BD_(052422)	Total/NA	Water	624.1	
480-198348-11	FB_(052422)	Total/NA	Water	624.1	
480-198348-12	FB_(052522)	Total/NA	Water	624.1	
480-198348-13	TB_(052422)	Total/NA	Water	624.1	
480-198348-14	TB_(022522)	Total/NA	Water	624.1	
MB 480-627970/9	Method Blank	Total/NA	Water	624.1	
LCS 480-627970/7	Lab Control Sample	Total/NA	Water	624.1	
480-198348-7 MS	MW-9	Total/NA	Water	624.1	
480-198348-7 MSD	MW-9	Total/NA	Water	624.1	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: SMC Maestri Site

Job ID: 480-198348-1

Client Sample ID: RW-3

Date Collected: 05/24/22 18:17

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		4	627798	05/26/22 20:52	ATG	TAL BUF

Client Sample ID: RW-5

Date Collected: 05/25/22 09:05

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	627798	05/26/22 21:16	ATG	TAL BUF

Client Sample ID: RW-6

Date Collected: 05/25/22 11:15

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		2	627798	05/26/22 21:39	ATG	TAL BUF

Client Sample ID: RW-7

Date Collected: 05/24/22 17:55

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	627798	05/26/22 22:03	ATG	TAL BUF

Client Sample ID: RW-8

Date Collected: 05/25/22 08:52

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	627798	05/26/22 22:27	ATG	TAL BUF

Client Sample ID: MW-2A

Date Collected: 05/24/22 15:00

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		4	627798	05/26/22 22:52	ATG	TAL BUF

Client Sample ID: MW-9

Date Collected: 05/24/22 14:50

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		8	627970	05/27/22 17:04	ATG	TAL BUF

Eurofins Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: SMC Maestri Site

Job ID: 480-198348-1

Client Sample ID: PZ-20

Date Collected: 05/25/22 13:43

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	627798	05/26/22 23:40	ATG	TAL BUF

Client Sample ID: PZ-21

Date Collected: 05/25/22 11:08

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	627798	05/27/22 00:04	ATG	TAL BUF

Client Sample ID: BD_(052422)

Date Collected: 05/24/22 00:00

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		8	627970	05/27/22 17:28	ATG	TAL BUF

Client Sample ID: FB_(052422)

Date Collected: 05/24/22 19:35

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	627970	05/27/22 17:52	ATG	TAL BUF

Client Sample ID: FB_(052522)

Date Collected: 05/24/22 14:35

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	627970	05/27/22 18:16	ATG	TAL BUF

Client Sample ID: TB_(052422)

Date Collected: 05/25/22 00:00

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	627970	05/27/22 18:40	ATG	TAL BUF

Client Sample ID: TB_(022522)

Date Collected: 05/25/22 00:00

Date Received: 05/26/22 10:00

Lab Sample ID: 480-198348-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	627970	05/27/22 19:04	ATG	TAL BUF

Laboratory References:

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

Eurofins Buffalo

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: SMC Maestri Site

Job ID: 480-198348-1

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	06-21-22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: SMC Maestri Site

Job ID: 480-198348-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

Laboratory References:

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

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: SMC Maestri Site

Job ID: 480-198348-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-198348-1	RW-3	Water	05/24/22 18:17	05/26/22 10:00
480-198348-2	RW-5	Water	05/25/22 09:05	05/26/22 10:00
480-198348-3	RW-6	Water	05/25/22 11:15	05/26/22 10:00
480-198348-4	RW-7	Water	05/24/22 17:55	05/26/22 10:00
480-198348-5	RW-8	Water	05/25/22 08:52	05/26/22 10:00
480-198348-6	MW-2A	Water	05/24/22 15:00	05/26/22 10:00
480-198348-7	MW-9	Water	05/24/22 14:50	05/26/22 10:00
480-198348-8	PZ-20	Water	05/25/22 13:43	05/26/22 10:00
480-198348-9	PZ-21	Water	05/25/22 11:08	05/26/22 10:00
480-198348-10	BD_(052422)	Water	05/24/22 00:00	05/26/22 10:00
480-198348-11	FB_(052422)	Water	05/24/22 19:35	05/26/22 10:00
480-198348-12	FB_(052522)	Water	05/24/22 14:35	05/26/22 10:00
480-198348-13	TB_(052422)	Water	05/25/22 00:00	05/26/22 10:00
480-198348-14	TB_(022522)	Water	05/25/22 00:00	05/26/22 10:00

Chain of Custody Record

Client Information		Sampler: Jason Butkowski		Lab PM: Schove, John R	Carrier: Syracuse	DOC No: 10-174180-37579.1
Client Contact: Ms. Rebecca Hensel		Phone: 315 436 3605		E-Mail: John.Schove@et.eurofinsus.com	State of Origin: #225	Page: Page 1 of 2
Company: ARCADIS U.S. Inc		PWSID:		Job #:		
Address: One Lincoln Center 110 West Fayette St, Suite 300		Due Date Requested:		Analysis Requested		
City: Syracuse		TAT Requested (days): Standard Turn		Preservation Codes:		
State, Zip: NY, 13202		Compliance Project: ☐ Yes ☒ No		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		
Phone: 315-446-9120(Tel)		PO #: 30120984		480-198348 Chain of Custody		
Email: rebecca.hensel@arcadis-us.com		WO #:				
Project Name: SMC Maestri Site		Project #: 48025201				
Site:		SSOW#:				
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)
RW-3	5/24/22	1817	G	Water	624.1, PREC - 624.1 - Xylenes	☒ A
RW-5	5/25/22	805	G	Water		☒ A
RW-6	5/25/22	1115	G	Water		☒ A
RW-7	5/24/22	1755	G	Water		☒ A
RW-8	5/25/22	6852	G	Water		☒ A
MW-2A	5/24/22	1500	G	Water		☒ A
MW-9	5/24/22	1450	G	Water		☒ A
PZ-20	5/25/22	1343	G	Water		☒ A
PZ-21	5/25/22	1108	G	Water		☒ A
MS (MW-2A)	5/24/22	1500	G	Water		☒ A
MSD (MW-2A)	5/24/22	1500	G	Water		☒ A
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological						
Deliverable Requested: I, II, III, IV, Other (specify)						
Empty Kit Relinquished by:						
Relinquished by: [Signature]		Date: 5/25/22		Time: 1632		
Relinquished by: [Signature]		Date/Time: 5/25/22, 1900		Company: A-roots		
Relinquished by: [Signature]		Date/Time:		Company: Syga		
Custody Seals Intact: ☐ Yes ☒ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: # 2.8		

Client Information						Lab PM:		Syracuse	
Client Contact:						Schove, John R			
Company:						E-Mail:		State of Origin:	
ARCADIS U.S. Inc						John. Schove@et.eurofinsus.com		#225	
Address:						PWSID:			
One Lincoln Center 110 West Fayette St, Suite 300									
City:									
Syracuse									
State, Zip:									
NY, 13202									
Phone:									
315-446-9120(Tel)									
Email:									
rebecca.hensel@arcadis-us.com									
Project Name:									
SMC Maestri Site									
Site:									
Due Date Requested:									
TAT Requested (days):									
Standard Turn									
Compliance Project: Δ Yes Δ No									
PO #:									
30120984									
WG #:									
Project #:									
48025201									
SSOW#:									
Sample Identification						Field Filtered Sample (Yes or No)		Total Number of Containers	
BD_(052422)						X X A		X	
FB_(052422)						W N 3			
FB_(052522)						W N 3			
TB_(052422)						W N 2			
TB_(052522)						W N 2			
Sample Date						Sample Time		Matrix	
5/24/22						—		Water	
5/24/22						1935		Water	
5/25/22						1435		Water	
—						—		Water	
—						—		Water	
Sample Type (C=Comp, G=grab)						Preservation Code:		Matrix	
G						A		Water	
G								Water	
G								Water	
—								Water	
—								Water	
Possible Hazard Identification						Radiological		Special Instructions/Note:	
Non-Hazardable						Poison B		Return To Client	
Flammable						Unknown		Disposal By Lab	
Skin Irritant								Archive For	
Deliverable Requested: I, II, III, IV, Other (specify)								Months	
Empty Kit Relinquished by:						Date:		Method of Shipment:	
Relinquished by:						Date:		Received by:	
Relinquished by:						Date:		Received by:	
Relinquished by:						Date:		Received by:	
Custody Seals Intact: Δ Yes Δ No						Cooler Temperature(s) °C and Other Remarks:		Company	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-198348-1

Login Number: 198348

List Number: 1

Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 460-268503-1

Job Description: Maestri - Geddes, NY

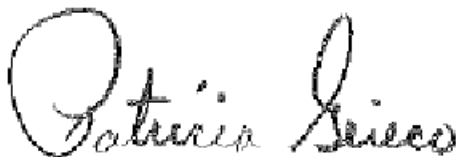
For:

ARCADIS U.S. Inc

655 3rd Avenue

New York, NY 10017

Attention: Ms. Rebecca Hensel



Approved for release.
Patricia Grieco
Senior Project Manager
11/8/2022 3:12 PM

Designee for
Grace Chang, Project Manager II
777 New Durham Road, Edison, NJ, 08817
(732)593-2579
Grace.Chang@et.eurofinsus.com
11/08/2022

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Eurofins Edison

777 New Durham Road, Edison, NJ 08817

Tel (732) 549-3900 Fax (732) 549-3679 www.EurofinsUS.com



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CASE NARRATIVE

Client: ARCADIS U.S. Inc

Project: Maestri - Geddes, NY

Report Number: 460-268503-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/29/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.5 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS BY GC/MS

Samples RW-6 (460-268503-1), RW-7 (460-268503-2), MW-2A (460-268503-3), MW-9 (460-268503-4), PZ-21 (460-268503-5), BD_(10282022) (460-268503-6), FB_(20221028) (460-268503-7) and TB_(20221028) (460-268503-8) were analyzed for Volatile Organic Compounds by GC/MS in accordance with EPA Method 624.1. The samples were analyzed on 11/03/2022.

No difficulties were encountered during the VOCs analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-268503-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-268503-1	RW-6	Water	10/28/22 13:40	10/29/22 12:20
460-268503-2	RW-7	Water	10/28/22 12:10	10/29/22 12:20
460-268503-3	MW-2A	Water	10/28/22 11:15	10/29/22 12:20
460-268503-4	MW-9	Water	10/28/22 13:00	10/29/22 12:20
460-268503-5	PZ-21	Water	10/28/22 15:30	10/29/22 12:20
460-268503-6	BD_(10282022)	Water	10/28/22 00:00	10/29/22 12:20
460-268503-7	FB_(20221028)	Water	10/28/22 00:00	10/29/22 12:20
460-268503-8	TB_(20221028)	Water	10/28/22 00:00	10/29/22 12:20

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-268503-1

Client Sample ID: RW-6

Lab Sample ID: 460-268503-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Xylenes, Total	4.9		2.0	0.65	ug/L	1			624.1	Total/NA

Client Sample ID: RW-7

Lab Sample ID: 460-268503-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Xylenes, Total	14		2.0	0.65	ug/L	1			624.1	Total/NA

Client Sample ID: MW-2A

Lab Sample ID: 460-268503-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Xylenes, Total	120		2.0	0.65	ug/L	1			624.1	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 460-268503-4

No Detections.

Client Sample ID: PZ-21

Lab Sample ID: 460-268503-5

No Detections.

Client Sample ID: BD_(10282022)

Lab Sample ID: 460-268503-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Xylenes, Total	110		2.0	0.65	ug/L	1			624.1	Total/NA

Client Sample ID: FB_(20221028)

Lab Sample ID: 460-268503-7

No Detections.

Client Sample ID: TB_(20221028)

Lab Sample ID: 460-268503-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-268503-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	EET EDI

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-268503-1

Client Sample ID: RW-6

Date Collected: 10/28/22 13:40

Date Received: 10/29/22 12:20

Lab Sample ID: 460-268503-1

Matrix: Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	4.9		2.0	0.65	ug/L			11/03/22 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	116		60 - 140		11/03/22 11:50	1
Dibromofluoromethane (Surr)	131		60 - 140		11/03/22 11:50	1
1,2-Dichloroethane-d4 (Surr)	95		60 - 140		11/03/22 11:50	1
Toluene-d8 (Surr)	86		60 - 140		11/03/22 11:50	1

Client Sample ID: RW-7

Date Collected: 10/28/22 12:10

Date Received: 10/29/22 12:20

Lab Sample ID: 460-268503-2

Matrix: Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	14		2.0	0.65	ug/L			11/03/22 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	113		60 - 140		11/03/22 17:40	1
Dibromofluoromethane (Surr)	117		60 - 140		11/03/22 17:40	1
1,2-Dichloroethane-d4 (Surr)	87		60 - 140		11/03/22 17:40	1
Toluene-d8 (Surr)	94		60 - 140		11/03/22 17:40	1

Client Sample ID: MW-2A

Date Collected: 10/28/22 11:15

Date Received: 10/29/22 12:20

Lab Sample ID: 460-268503-3

Matrix: Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	120		2.0	0.65	ug/L			11/03/22 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	112		60 - 140		11/03/22 18:05	1
Dibromofluoromethane (Surr)	118		60 - 140		11/03/22 18:05	1
1,2-Dichloroethane-d4 (Surr)	86		60 - 140		11/03/22 18:05	1
Toluene-d8 (Surr)	98		60 - 140		11/03/22 18:05	1

Client Sample ID: MW-9

Date Collected: 10/28/22 13:00

Date Received: 10/29/22 12:20

Lab Sample ID: 460-268503-4

Matrix: Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/03/22 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		60 - 140		11/03/22 16:50	1
Dibromofluoromethane (Surr)	123		60 - 140		11/03/22 16:50	1
1,2-Dichloroethane-d4 (Surr)	90		60 - 140		11/03/22 16:50	1
Toluene-d8 (Surr)	90		60 - 140		11/03/22 16:50	1

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-268503-1

Client Sample ID: PZ-21

Date Collected: 10/28/22 15:30

Date Received: 10/29/22 12:20

Lab Sample ID: 460-268503-5

Matrix: Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/03/22 17:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		60 - 140					11/03/22 17:15	1
Dibromofluoromethane (Surr)	114		60 - 140					11/03/22 17:15	1
1,2-Dichloroethane-d4 (Surr)	86		60 - 140					11/03/22 17:15	1
Toluene-d8 (Surr)	96		60 - 140					11/03/22 17:15	1

Client Sample ID: BD_(10282022)

Date Collected: 10/28/22 00:00

Date Received: 10/29/22 12:20

Lab Sample ID: 460-268503-6

Matrix: Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	110		2.0	0.65	ug/L			11/03/22 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	115		60 - 140					11/03/22 18:30	1
Dibromofluoromethane (Surr)	117		60 - 140					11/03/22 18:30	1
1,2-Dichloroethane-d4 (Surr)	85		60 - 140					11/03/22 18:30	1
Toluene-d8 (Surr)	90		60 - 140					11/03/22 18:30	1

Client Sample ID: FB_(20221028)

Date Collected: 10/28/22 00:00

Date Received: 10/29/22 12:20

Lab Sample ID: 460-268503-7

Matrix: Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/03/22 15:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	111		60 - 140					11/03/22 15:10	1
Dibromofluoromethane (Surr)	125		60 - 140					11/03/22 15:10	1
1,2-Dichloroethane-d4 (Surr)	89		60 - 140					11/03/22 15:10	1
Toluene-d8 (Surr)	88		60 - 140					11/03/22 15:10	1

Client Sample ID: TB_(20221028)

Date Collected: 10/28/22 00:00

Date Received: 10/29/22 12:20

Lab Sample ID: 460-268503-8

Matrix: Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/03/22 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	107		60 - 140					11/03/22 15:35	1
Dibromofluoromethane (Surr)	123		60 - 140					11/03/22 15:35	1
1,2-Dichloroethane-d4 (Surr)	89		60 - 140					11/03/22 15:35	1
Toluene-d8 (Surr)	92		60 - 140					11/03/22 15:35	1

Eurofins Edison

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-268503-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (60-140)	DBFM (60-140)	DCA (60-140)	TOL (60-140)
460-268503-1	RW-6	116	131	95	86
460-268503-1 MS	RW-6	119	116	88	99
460-268503-1 MSD	RW-6	119	113	86	98
460-268503-2	RW-7	113	117	87	94
460-268503-3	MW-2A	112	118	86	98
460-268503-4	MW-9	103	123	90	90
460-268503-5	PZ-21	103	114	86	96
460-268503-6	BD_(10282022)	115	117	85	90
460-268503-7	FB_(20221028)	111	125	89	88
460-268503-8	TB_(20221028)	107	123	89	92
LCS 460-875754/5	Lab Control Sample	116	114	86	97
MB 460-875754/8	Method Blank	110	117	86	90

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-268503-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-875754/8

Matrix: Water

Analysis Batch: 875754

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			11/03/22 10:53	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	110		60 - 140					11/03/22 10:53	1
Dibromofluoromethane (Surr)	117		60 - 140					11/03/22 10:53	1
1,2-Dichloroethane-d4 (Surr)	86		60 - 140					11/03/22 10:53	1
Toluene-d8 (Surr)	90		60 - 140					11/03/22 10:53	1

Lab Sample ID: LCS 460-875754/5

Matrix: Water

Analysis Batch: 875754

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m-Xylene & p-Xylene	20.0	17.2		ug/L		86	60 - 140
o-Xylene	20.0	16.7		ug/L		84	60 - 140
Xylenes, Total	40.0	33.9		ug/L		85	60 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	116		60 - 140				
Dibromofluoromethane (Surr)	114		60 - 140				
1,2-Dichloroethane-d4 (Surr)	86		60 - 140				
Toluene-d8 (Surr)	97		60 - 140				

Lab Sample ID: 460-268503-1 MS

Matrix: Water

Analysis Batch: 875754

Client Sample ID: RW-6

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
m-Xylene & p-Xylene	4.7		20.0	23.7		ug/L		95	60 - 140
o-Xylene	1.0	U	20.0	17.2		ug/L		86	60 - 140
Xylenes, Total	4.9		40.0	41.0		ug/L		90	60 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene	119		60 - 140						
Dibromofluoromethane (Surr)	116		60 - 140						
1,2-Dichloroethane-d4 (Surr)	88		60 - 140						
Toluene-d8 (Surr)	99		60 - 140						

Lab Sample ID: 460-268503-1 MSD

Matrix: Water

Analysis Batch: 875754

Client Sample ID: RW-6

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	4.7		20.0	24.1		ug/L		97	60 - 140	1	50
o-Xylene	1.0	U	20.0	17.5		ug/L		88	60 - 140	2	50
Xylenes, Total	4.9		40.0	41.6		ug/L		92	60 - 140	2	50

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-268503-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-268503-1 MSD

Matrix: Water

Analysis Batch: 875754

Client Sample ID: RW-6

Prep Type: Total/NA

<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
4-Bromofluorobenzene	119		60 - 140
Dibromofluoromethane (Surr)	113		60 - 140
1,2-Dichloroethane-d4 (Surr)	86		60 - 140
Toluene-d8 (Surr)	98		60 - 140

Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-268503-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Glossary

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

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-268503-1

GC/MS VOA

Analysis Batch: 875754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-268503-1	RW-6	Total/NA	Water	624.1	
460-268503-2	RW-7	Total/NA	Water	624.1	
460-268503-3	MW-2A	Total/NA	Water	624.1	
460-268503-4	MW-9	Total/NA	Water	624.1	
460-268503-5	PZ-21	Total/NA	Water	624.1	
460-268503-6	BD_(10282022)	Total/NA	Water	624.1	
460-268503-7	FB_(20221028)	Total/NA	Water	624.1	
460-268503-8	TB_(20221028)	Total/NA	Water	624.1	
MB 460-875754/8	Method Blank	Total/NA	Water	624.1	
LCS 460-875754/5	Lab Control Sample	Total/NA	Water	624.1	
460-268503-1 MS	RW-6	Total/NA	Water	624.1	
460-268503-1 MSD	RW-6	Total/NA	Water	624.1	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-268503-1

Client Sample ID: RW-6

Date Collected: 10/28/22 13:40

Date Received: 10/29/22 12:20

Lab Sample ID: 460-268503-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	875754	CJM	EET EDI	11/03/22 11:50

Client Sample ID: RW-7

Date Collected: 10/28/22 12:10

Date Received: 10/29/22 12:20

Lab Sample ID: 460-268503-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	875754	CJM	EET EDI	11/03/22 17:40

Client Sample ID: MW-2A

Date Collected: 10/28/22 11:15

Date Received: 10/29/22 12:20

Lab Sample ID: 460-268503-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	875754	CJM	EET EDI	11/03/22 18:05

Client Sample ID: MW-9

Date Collected: 10/28/22 13:00

Date Received: 10/29/22 12:20

Lab Sample ID: 460-268503-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	875754	CJM	EET EDI	11/03/22 16:50

Client Sample ID: PZ-21

Date Collected: 10/28/22 15:30

Date Received: 10/29/22 12:20

Lab Sample ID: 460-268503-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	875754	CJM	EET EDI	11/03/22 17:15

Client Sample ID: BD_(10282022)

Date Collected: 10/28/22 00:00

Date Received: 10/29/22 12:20

Lab Sample ID: 460-268503-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	875754	CJM	EET EDI	11/03/22 18:30

Client Sample ID: FB_(20221028)

Date Collected: 10/28/22 00:00

Date Received: 10/29/22 12:20

Lab Sample ID: 460-268503-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	875754	CJM	EET EDI	11/03/22 15:10

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-268503-1

Client Sample ID: TB_(20221028)

Lab Sample ID: 460-268503-8

Date Collected: 10/28/22 00:00

Matrix: Water

Date Received: 10/29/22 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	875754	CJM	EET EDI	11/03/22 15:35

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-268503-1

Laboratory: Eurofins Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-23

624.1_PREC

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-268503-1
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): Rtx-624 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
RW-6	460-268503-1	131	95	86	116
RW-7	460-268503-2	117	87	94	113
MW-2A	460-268503-3	118	86	98	112
MW-9	460-268503-4	123	90	90	103
PZ-21	460-268503-5	114	86	96	103
BD_(10282022)	460-268503-6	117	85	90	115
FB_(20221028)	460-268503-7	125	89	88	111
TB_(20221028)	460-268503-8	123	89	92	107
	MB 460-875754/8	117	86	90	110
	LCS 460-875754/5	114	86	97	116
RW-6 MS	460-268503-1 MS	116	88	99	119
RW-6 MSD	460-268503-1 MSD	113	86	98	119

	<u>QC LIMITS</u>
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	60-140
TOL = Toluene-d8 (Surr)	60-140
BFB = 4-Bromofluorobenzene	60-140

Column to be used to flag recovery values

FORM II 624.1

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-268503-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: J82194.D
Lab ID: LCS 460-875754/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
m-Xylene & p-Xylene	20.0	17.2	86	60-140	
o-Xylene	20.0	16.7	84	60-140	
Xylenes, Total	40.0	33.9	85	60-140	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-268503-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: J82200.D
Lab ID: 460-268503-1 MS Client ID: RW-6 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
m-Xylene & p-Xylene	20.0	4.7	23.7	95	60-140	
o-Xylene	20.0	1.0 U	17.2	86	60-140	
Xylenes, Total	40.0	4.9	41.0	90	60-140	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-268503-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: J82201.D
 Lab ID: 460-268503-1 MSD Client ID: RW-6 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
m-Xylene & p-Xylene	20.0	24.1	97	1	50	60-140	
o-Xylene	20.0	17.5	88	2	50	60-140	
Xylenes, Total	40.0	41.6	92	2	50	60-140	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Edison Job No.: 460-268503-1
 SDG No.: _____
 Lab File ID: J82197.D Lab Sample ID: MB 460-875754/8
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: CVOAMS8 Date Analyzed: 11/03/2022 10:53
 GC Column: Rtx-624 ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-875754/5	J82194.D	11/03/2022 09:28
RW-6	460-268503-1	J82199.D	11/03/2022 11:50
RW-6 MS	460-268503-1 MS	J82200.D	11/03/2022 12:15
RW-6 MSD	460-268503-1 MSD	J82201.D	11/03/2022 12:40
FB_(20221028)	460-268503-7	J82207.D	11/03/2022 15:10
TB_(20221028)	460-268503-8	J82208.D	11/03/2022 15:35
MW-9	460-268503-4	J82211.D	11/03/2022 16:50
PZ-21	460-268503-5	J82212.D	11/03/2022 17:15
RW-7	460-268503-2	J82213.D	11/03/2022 17:40
MW-2A	460-268503-3	J82214.D	11/03/2022 18:05
BD_(10282022)	460-268503-6	J82215.D	11/03/2022 18:30

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

Lab Name: Eurofins Edison Job No.: 460-268503-1
SDG No.: _____
Lab File ID: J81260.D BFB Injection Date: 10/12/2022
Instrument ID: CVOAMS8 BFB Injection Time: 22:40
Analysis Batch No.: 871602

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.8
75	30.0 - 60.0 % of mass 95	48.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.1
173	Less than 2.0 % of mass 174	0.3 (0.5) 1
174	Greater than 50% of mass 95	71.8
175	5.0 - 9.0 % of mass 174	5.6 (7.9) 1
176	95.0 - 101.0 % of mass 174	71.0 (98.8) 1
177	5.0 - 9.0 % of mass 176	4.5 (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
	STD7 460-871602/3	J81262.D	10/12/2022	23:30
	STD1 460-871602/4	J81263.D	10/12/2022	23:56
	STD5 460-871602/5	J81264.D	10/13/2022	0:21
	STD20 460-871602/6	J81265.D	10/13/2022	0:46
	STD50 460-871602/7	J81266.D	10/13/2022	1:11
	STD200 460-871602/8	J81267.D	10/13/2022	1:36
	STD500 460-871602/9	J81268.D	10/13/2022	2:01
	ICV 460-871602/16	J81275.D	10/13/2022	4:56

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

Lab Name: Eurofins Edison Job No.: 460-268503-1
SDG No.: _____
Lab File ID: J82190.D BFB Injection Date: 11/03/2022
Instrument ID: CVOAMS8 BFB Injection Time: 07:37
Analysis Batch No.: 875754

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.3
75	30.0 - 60.0 % of mass 95	45.0
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	0.5 (0.6) 1
174	Greater than 50% of mass 95	94.1
175	5.0 - 9.0 % of mass 174	6.2 (6.6) 1
176	95.0 - 101.0 % of mass 174	91.1 (96.8) 1
177	5.0 - 9.0 % of mass 176	5.3 (5.8) 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 460-875754/3	J82192.D	11/03/2022	8:29
	LCS 460-875754/5	J82194.D	11/03/2022	9:28
	MB 460-875754/8	J82197.D	11/03/2022	10:53
RW-6	460-268503-1	J82199.D	11/03/2022	11:50
RW-6 MS	460-268503-1 MS	J82200.D	11/03/2022	12:15
RW-6 MSD	460-268503-1 MSD	J82201.D	11/03/2022	12:40
FB_(20221028)	460-268503-7	J82207.D	11/03/2022	15:10
TB_(20221028)	460-268503-8	J82208.D	11/03/2022	15:35
MW-9	460-268503-4	J82211.D	11/03/2022	16:50
PZ-21	460-268503-5	J82212.D	11/03/2022	17:15
RW-7	460-268503-2	J82213.D	11/03/2022	17:40
MW-2A	460-268503-3	J82214.D	11/03/2022	18:05
BD_(10282022)	460-268503-6	J82215.D	11/03/2022	18:30

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

Lab Name: Eurofins Edison Job No.: 460-268503-1
 SDG No.: _____
 Sample No.: STD20 460-871602/6 Date Analyzed: 10/13/2022 00:46
 Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm)
 Lab File ID (Standard): J81265.D Heated Purge: (Y/N) N
 Calibration ID: 91516

	TBAd9		BUT		FB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	181731	2.41	285282	3.32	460431	4.35	
UPPER LIMIT	363462	2.91	570564	3.82	920862	4.85	
LOWER LIMIT	90866	1.91	142641	2.82	230216	3.85	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-871602/16		183376	2.41	290133	3.33	453232	4.35

TBA_d9 = TBA-d₉ (IS)
 BUT = 2-Butanone-d₅
 FB = Fluorobenzene

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 Edison Job No.: 460-268503-1
 SDG No.: _____
 Sample No.: STD20 460-871602/6 Date Analyzed: 10/13/2022 00:46
 Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm)
 Lab File ID (Standard): J81265.D Heated Purge: (Y/N) N
 Calibration ID: 91516

	DXE		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	23858	5.06	344187	8.01	189292	10.39
UPPER LIMIT	47716	5.56	688374	8.51	378584	10.89
LOWER LIMIT	11929	4.56	172094	7.51	94646	9.89
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 460-871602/16		22507	5.06	324862	8.02	180160 10.39

DXE = 1,4-Dioxane-d8

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 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 Edison Job No.: 460-268503-1
 SDG No.: _____
 Sample No.: CCVIS 460-875754/3 Date Analyzed: 11/03/2022 08:29
 Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm)
 Lab File ID (Standard): J82192.D Heated Purge: (Y/N) N
 Calibration ID: 91516

	TBAd9		BUT		FB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	150637	2.40	186523	3.32	469380	4.33	
UPPER LIMIT	301274	2.90	373046	3.82	938760	4.83	
LOWER LIMIT	75319	1.90	93262	2.82	234690	3.83	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-875754/5		136061	2.40	176579	3.31	479687	4.33
MB 460-875754/8		121739	2.40	152854	3.31	446264	4.33
460-268503-1	RW-6	106769	2.40	125442	3.31	380559	4.33
460-268503-1 MS	RW-6 MS	127026	2.40	160860	3.31	446417	4.33
460-268503-1 MSD	RW-6 MSD	140710	2.40	175894	3.31	479127	4.33
460-268503-7	FB_(20221028)	110848	2.40	138622	3.32	423506	4.33
460-268503-8	TB_(20221028)	121334	2.40	149976	3.31	432274	4.33
460-268503-4	MW-9	127412	2.40	154598	3.31	424798	4.33
460-268503-5	PZ-21	134188	2.40	162140	3.31	473261	4.33
460-268503-2	RW-7	126003	2.40	159187	3.31	453744	4.33
460-268503-3	MW-2A	126783	2.40	161335	3.31	452727	4.33
460-268503-6	BD_(10282022)	126387	2.40	151585	3.31	452698	4.33

TBAd9 = TBA-d9 (IS)
 BUT = 2-Butanone-d5
 FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 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 Edison Job No.: 460-268503-1
 SDG No.: _____
 Sample No.: CCVIS 460-875754/3 Date Analyzed: 11/03/2022 08:29
 Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm)
 Lab File ID (Standard): J82192.D Heated Purge: (Y/N) N
 Calibration ID: 91516

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		31040	5.04	459118	7.99	298524	10.37
UPPER LIMIT		62080	5.54	918236	8.49	597048	10.87
LOWER LIMIT		15520	4.54	229559	7.49	149262	9.87
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-875754/5		30790	5.04	454658	7.99	292839	10.37
MB 460-875754/8		25536	5.04	413500	7.99	246116	10.37
460-268503-1	RW-6	23094	5.04	386619	8.00	245829	10.37
460-268503-1 MS	RW-6 MS	27974	5.04	438814	7.99	291589	10.37
460-268503-1 MSD	RW-6 MSD	30815	5.04	454847	8.00	300191	10.37
460-268503-7	FB_(20221028)	21571	5.04	384810	8.00	239032	10.37
460-268503-8	TB_(20221028)	23920	5.04	393270	8.00	233246	10.38
460-268503-4	MW-9	21829	5.04	404720	8.00	238236	10.38
460-268503-5	PZ-21	23194	5.04	398108	8.00	236740	10.37
460-268503-2	RW-7	21245	5.04	395793	8.00	248485	10.37
460-268503-3	MW-2A	21454	5.04	400901	8.00	243247	10.38
460-268503-6	BD_(10282022)	24008	5.04	391611	7.99	247354	10.37

DXE = 1,4-Dioxane-d8

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 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 Edison Job No.: 460-268503-1
 SDG No.: _____
 Client Sample ID: RW-6 Lab Sample ID: 460-268503-1
 Matrix: Water Lab File ID: J82199.D
 Analysis Method: 624.1 Date Collected: 10/28/2022 13:40
 Sample wt/vol: 5 (mL) Date Analyzed: 11/03/2022 11:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 875754 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	4.9		2.0	0.65

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	116		60-140
1868-53-7	Dibromofluoromethane (Surr)	131		60-140
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		60-140
2037-26-5	Toluene-d8 (Surr)	86		60-140

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82199.D
 Lims ID: 460-268503-B-1
 Client ID: RW-6
 Sample Type: Client
 Inject. Date: 03-Nov-2022 11:50:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-268503-B-1
 Misc. Info.: 460-0152676-010
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 07-Nov-2022 08:35:46 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1678

First Level Reviewer: KG2Q

Date: 03-Nov-2022 12:13:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 TBA-d9 (IS)	65	2.399	2.402	-0.003	75	106769	1000.0	
* 43 2-Butanone-d5	46	3.312	3.315	-0.003	88	125442	250.0	
\$ 55 Dibromofluoromethane (Surr)	113	3.738	3.740	-0.002	96	108688	65.7	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.072	4.069	0.003	0	108223	47.6	
* 66 Fluorobenzene	96	4.328	4.331	-0.003	98	380559	50.0	
* 72 1,4-Dioxane-d8	96	5.039	5.036	0.003	0	23094	1000.0	
\$ 83 Toluene-d8 (Surr)	98	6.043	6.040	0.003	99	355799	43.0	
* 94 Chlorobenzene-d5	117	7.996	7.993	0.003	85	386619	50.0	
98 m-Xylene & p-Xylene	106	8.294	8.291	0.003	0	20864	4.71	
99 o-Xylene	106	8.732	8.741	-0.009	93	865	0.1942	7M
\$ 105 4-Bromofluorobenzene	174	9.322	9.319	0.003	97	159263	58.0	
* 121 1,4-Dichlorobenzene-d4	152	10.369	10.371	-0.002	95	245829	50.0	
S 137 Xylenes, Total	100				0		4.90	
S 138 Total BTEX	1				0		4.90	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

8260ISNEW_00171 Amount Added: 1.00 Units: uL Run Reagent
 8260SURR250_00233 Amount Added: 1.00 Units: uL Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82199.D

Injection Date: 03-Nov-2022 11:50:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-268503-B-1

Lab Sample ID: 460-268503-1

Worklist Smp#: 10

Client ID: RW-6

Purge Vol: 5.000 mL

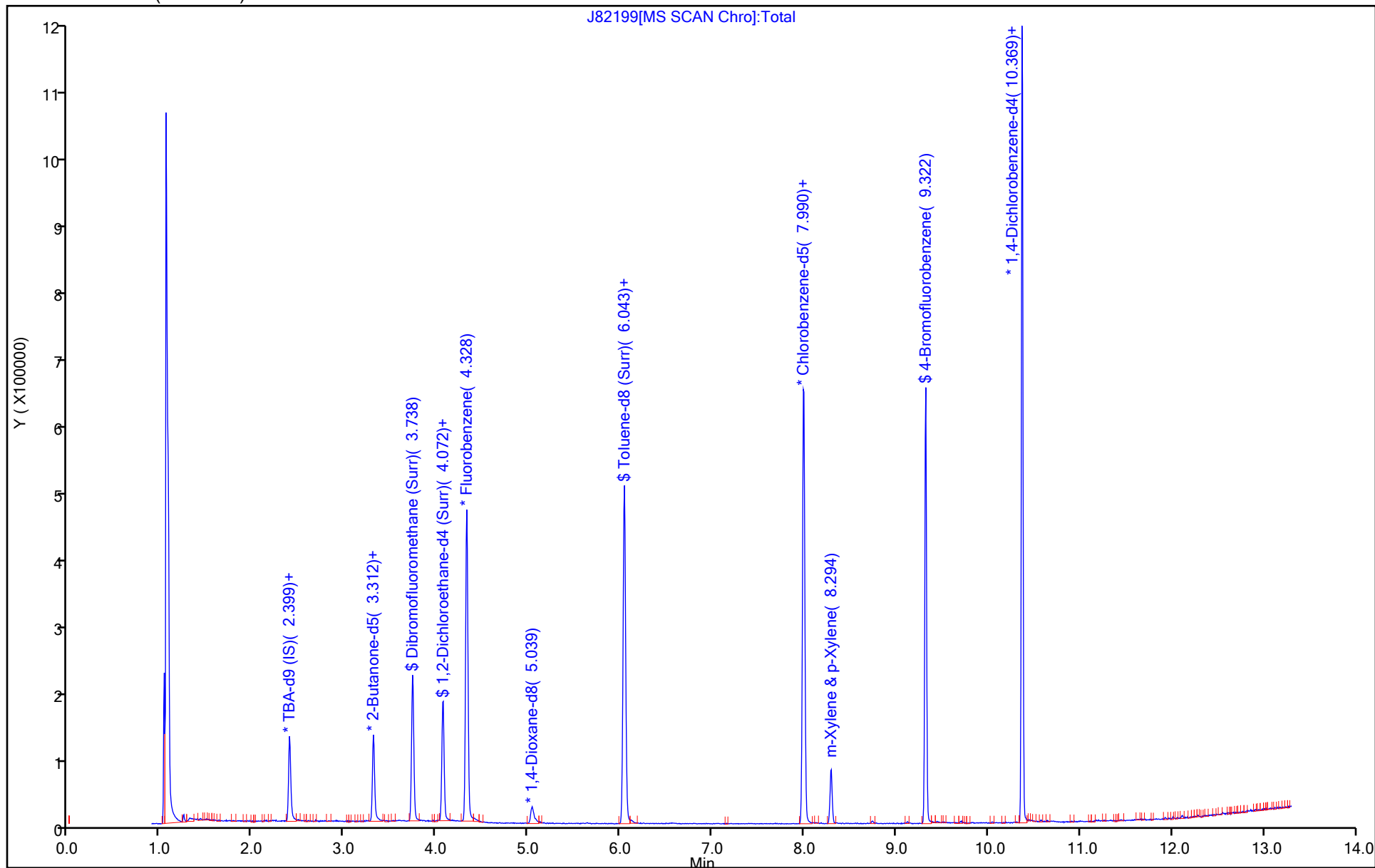
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison
Recovery Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82199.D
 Lims ID: 460-268503-B-1
 Client ID: RW-6
 Sample Type: Client
 Inject. Date: 03-Nov-2022 11:50:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-268503-B-1
 Misc. Info.: 460-0152676-010
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 07-Nov-2022 08:35:46 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1678

First Level Reviewer: KG2Q

Date: 03-Nov-2022 12:13:39

Compound	Amount Added	Amount Recovered	% Rec.
\$ 55 Dibromofluoromethane (Surr)	50.0	65.7	131.37
\$ 61 1,2-Dichloroethane-d4 (Surr)	50.0	47.6	95.12
\$ 83 Toluene-d8 (Surr)	50.0	43.0	86.04
\$ 105 4-Bromofluorobenzene	50.0	58.0	116.05

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82199.D

Injection Date: 03-Nov-2022 11:50:30

Instrument ID: CVOAMS8

Lims ID: 460-268503-B-1

Lab Sample ID: 460-268503-1

Client ID: RW-6

Operator ID:

ALS Bottle#: 9 Worklist Smp#: 10

Purge Vol: 5.000 mL

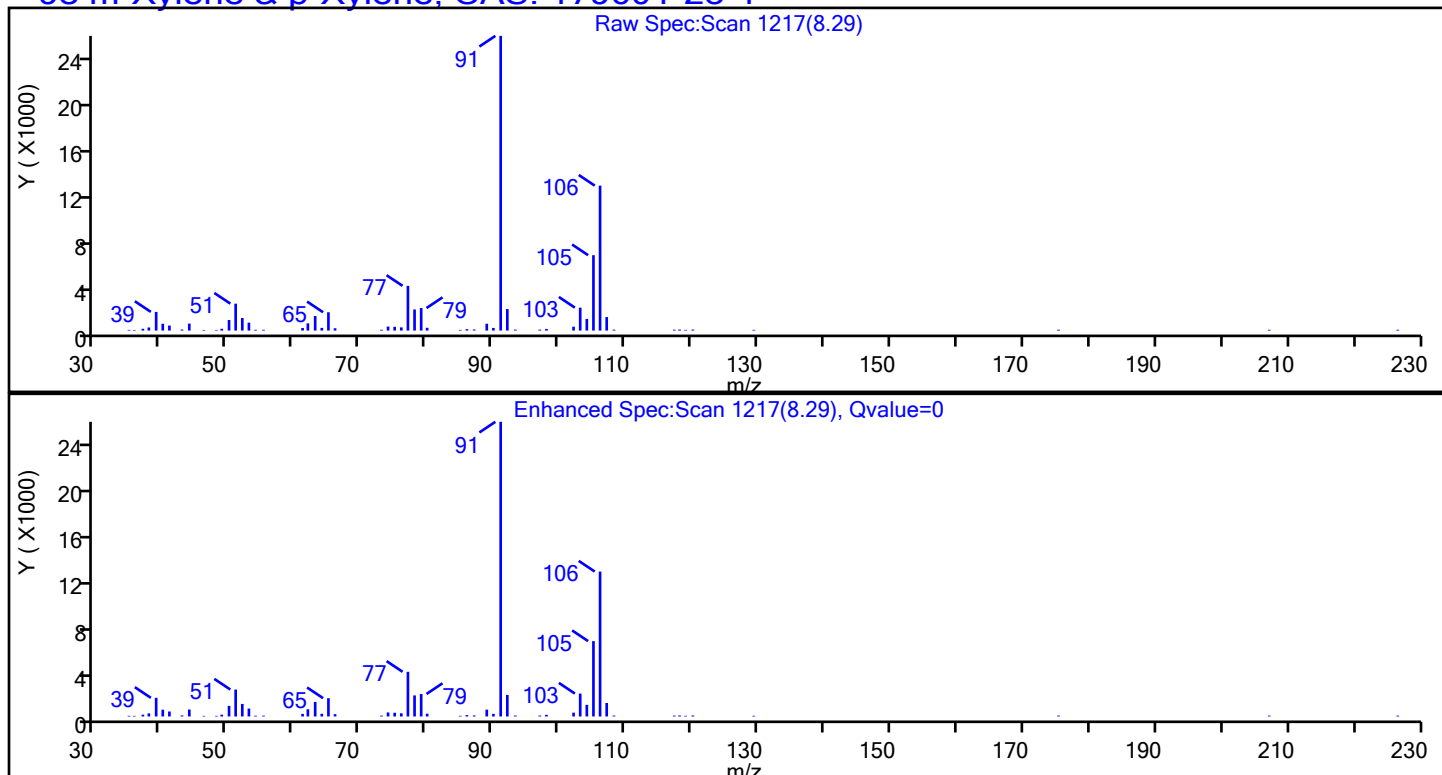
Dil. Factor: 1.0000

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

98 m-Xylene & p-Xylene, CAS: 179601-23-1

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82199.D

Injection Date: 03-Nov-2022 11:50:30

Instrument ID: CVOAMS8

Lims ID: 460-268503-B-1

Lab Sample ID: 460-268503-1

Client ID: RW-6

Operator ID:

ALS Bottle#:

Worklist Smp#: 10

Purge Vol: 5.000 mL

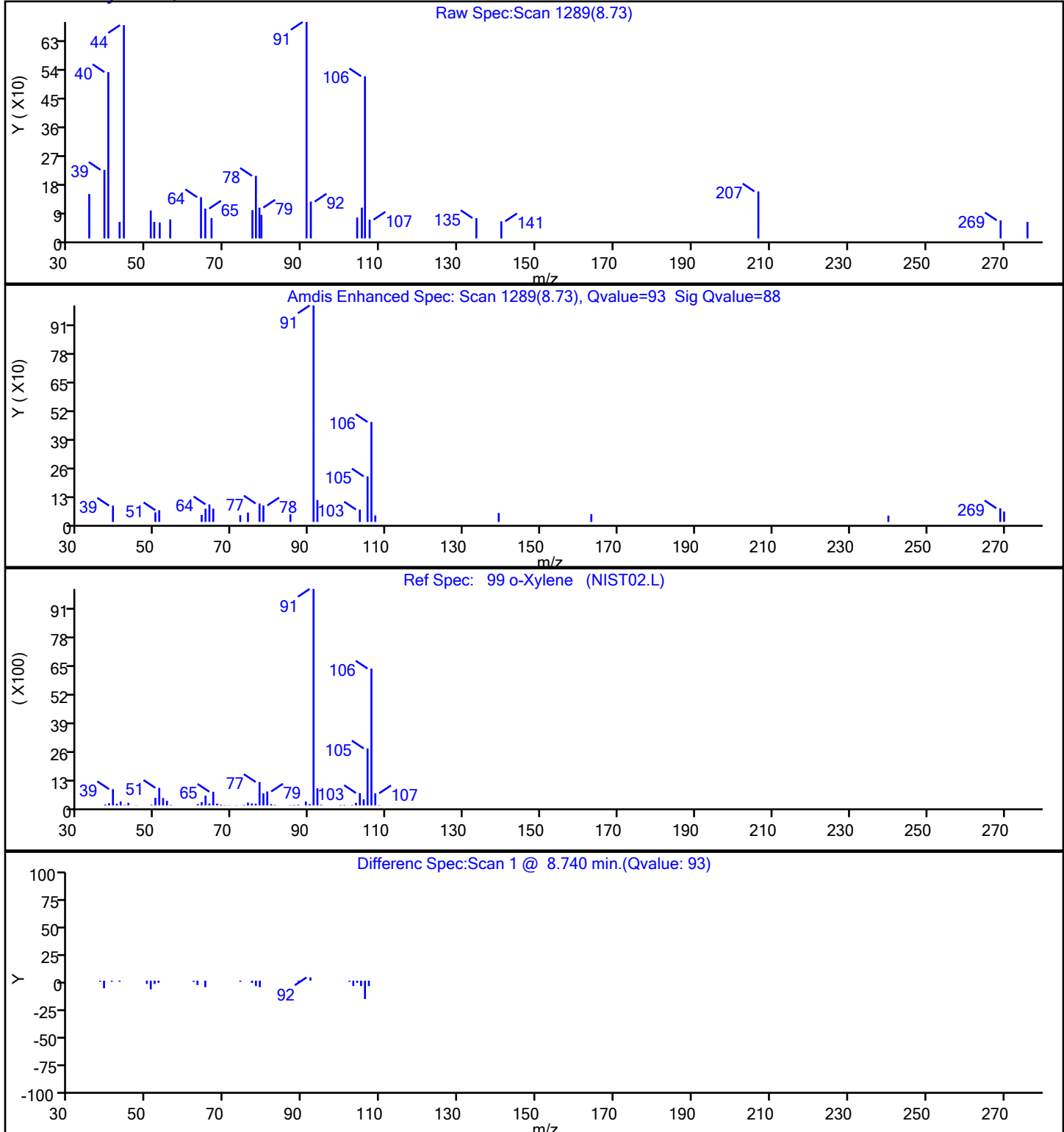
Dil. Factor: 1.0000

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

99 o-Xylene, CAS: 95-47-6

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82199.D

Injection Date: 03-Nov-2022 11:50:30

Instrument ID: CVOAMS8

Lims ID: 460-268503-B-1

Lab Sample ID: 460-268503-1

Client ID: RW-6

Operator ID:

ALS Bottle#:

9

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

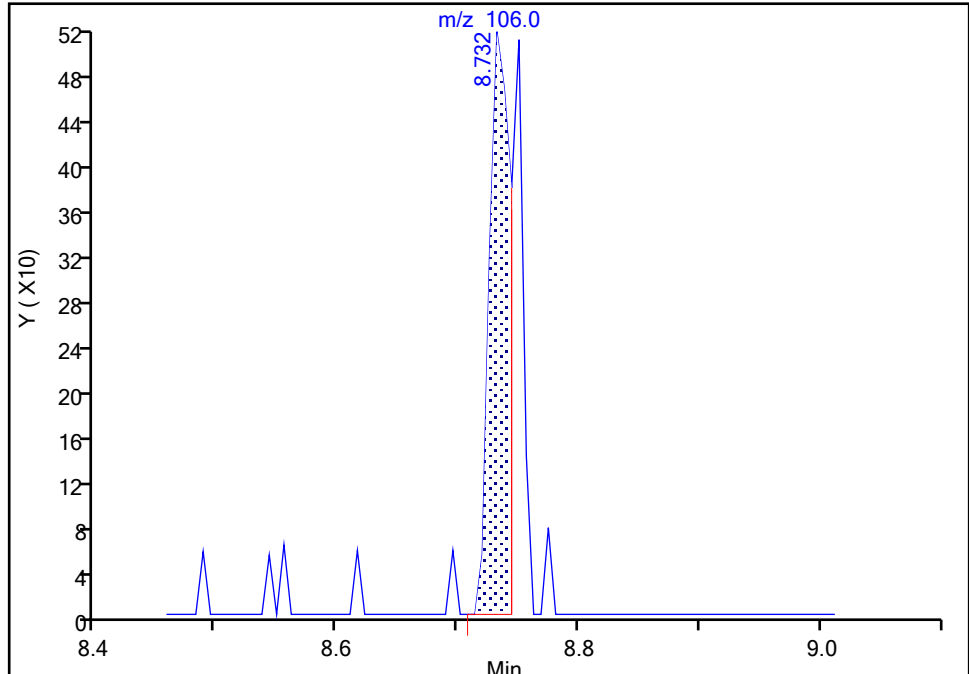
Detector: MS SCAN

99 o-Xylene, CAS: 95-47-6

Signal: 1

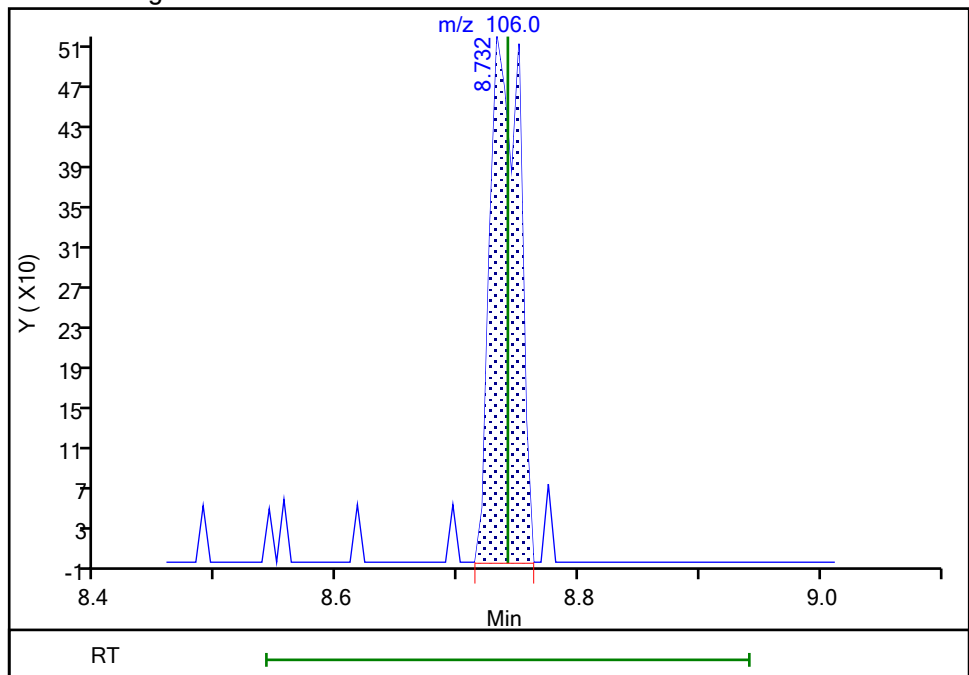
RT: 8.73
Area: 627
Amount: 0.140780
Amount Units: ug/l

Processing Integration Results



RT: 8.73
Area: 865
Amount: 0.194218
Amount Units: ug/l

Manual Integration Results



Reviewer: NN6A, 07-Nov-2022 08:35:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Edison</u>	Job No.: <u>460-268503-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-7</u>	Lab Sample ID: <u>460-268503-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>J82213.D</u>
Analysis Method: <u>624.1</u>	Date Collected: <u>10/28/2022 12:10</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/03/2022 17:40</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>Rtx-624</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: <u>7.0</u>
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>875754</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	14		2.0	0.65

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	113		60-140
1868-53-7	Dibromofluoromethane (Surr)	117		60-140
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		60-140
2037-26-5	Toluene-d8 (Surr)	94		60-140

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82213.D
 Lims ID: 460-268503-B-2
 Client ID: RW-7
 Sample Type: Client
 Inject. Date: 03-Nov-2022 17:40:30 ALS Bottle#: 23 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-268503-B-2
 Misc. Info.: 460-0152676-024
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 16:45:09 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: HVW2

Date: 03-Nov-2022 19:11:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 TBA-d9 (IS)	65	2.402	2.402	0.000	75	126003	1000.0	
* 43 2-Butanone-d5	46	3.314	3.315	-0.001	88	159187	250.0	
\$ 55 Dibromofluoromethane (Surr)	113	3.740	3.740	0.000	97	115288	58.4	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.069	4.069	0.000	0	117370	43.3	
* 66 Fluorobenzene	96	4.330	4.331	-0.001	99	453744	50.0	
* 72 1,4-Dioxane-d8	96	5.036	5.036	0.000	0	21245	1000.0	
\$ 83 Toluene-d8 (Surr)	98	6.046	6.040	0.006	99	398401	47.1	
* 94 Chlorobenzene-d5	117	7.999	7.993	0.006	85	395793	50.0	
98 m-Xylene & p-Xylene	106	8.291	8.291	0.000	0	38143	8.41	
99 o-Xylene	106	8.741	8.741	0.000	94	27733	6.08	
\$ 105 4-Bromofluorobenzene	174	9.325	9.319	0.006	97	158637	56.5	
* 121 1,4-Dichlorobenzene-d4	152	10.371	10.371	0.000	95	248485	50.0	
S 137 Xylenes, Total	100				0		14.5	

QC Flag Legend

Processing Flags

Reagents:

8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00233	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82213.D

Injection Date: 03-Nov-2022 17:40:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-268503-B-2

Lab Sample ID: 460-268503-2

Worklist Smp#: 24

Client ID: RW-7

Purge Vol: 5.000 mL

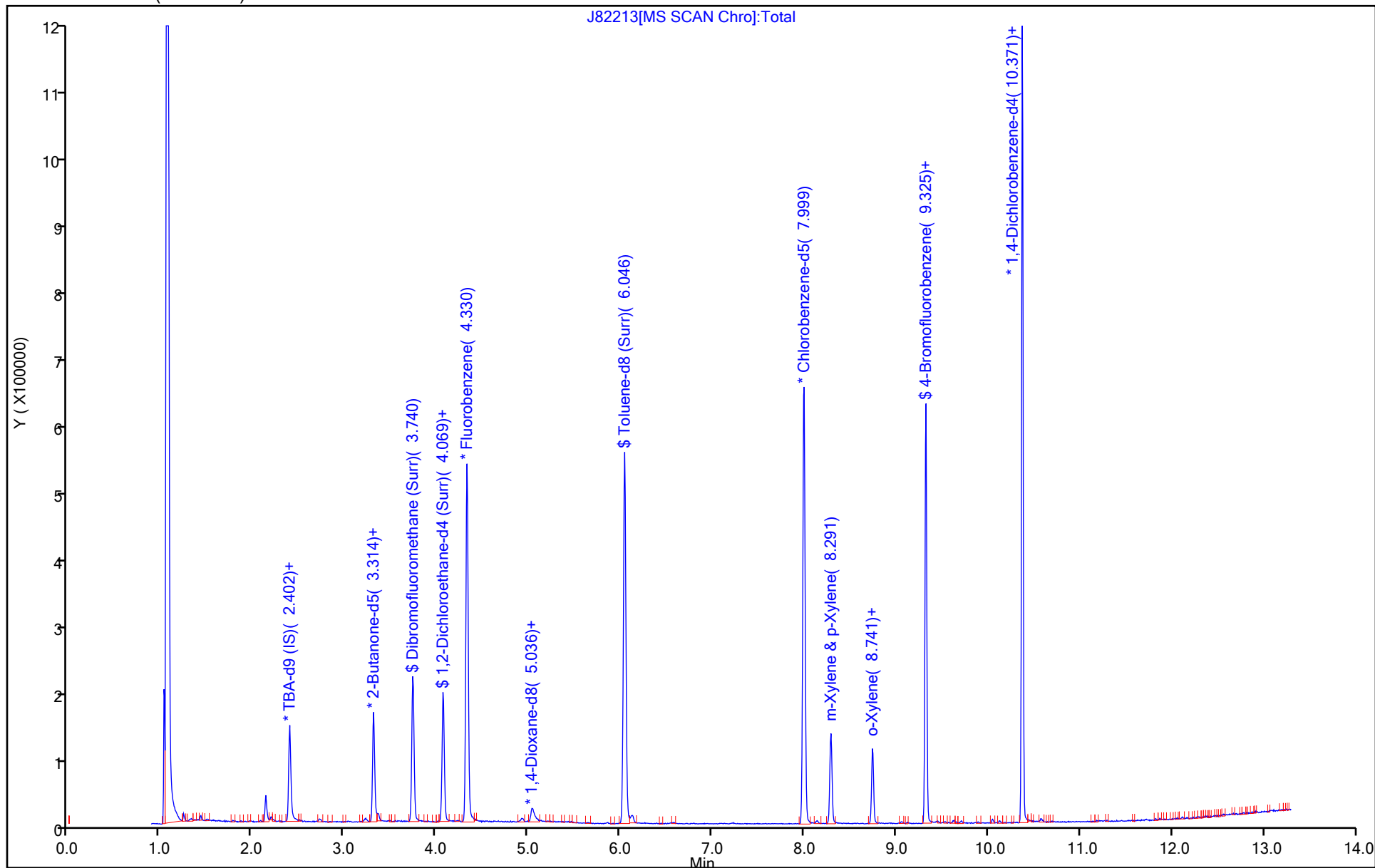
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison
Recovery Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82213.D
 Lims ID: 460-268503-B-2
 Client ID: RW-7
 Sample Type: Client
 Inject. Date: 03-Nov-2022 17:40:30 ALS Bottle#: 23 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-268503-B-2
 Misc. Info.: 460-0152676-024
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 16:45:09 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: HVW2

Date: 03-Nov-2022 19:11:21

Compound	Amount Added	Amount Recovered	% Rec.
\$ 55 Dibromofluoromethane (Surr)	50.0	58.4	116.87
\$ 61 1,2-Dichloroethane-d4 (Surr)	50.0	43.3	86.53
\$ 83 Toluene-d8 (Surr)	50.0	47.1	94.10
\$ 105 4-Bromofluorobenzene	50.0	56.5	112.92

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82213.D

Injection Date: 03-Nov-2022 17:40:30

Instrument ID: CVOAMS8

Lims ID: 460-268503-B-2

Lab Sample ID: 460-268503-2

Client ID: RW-7

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

24

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

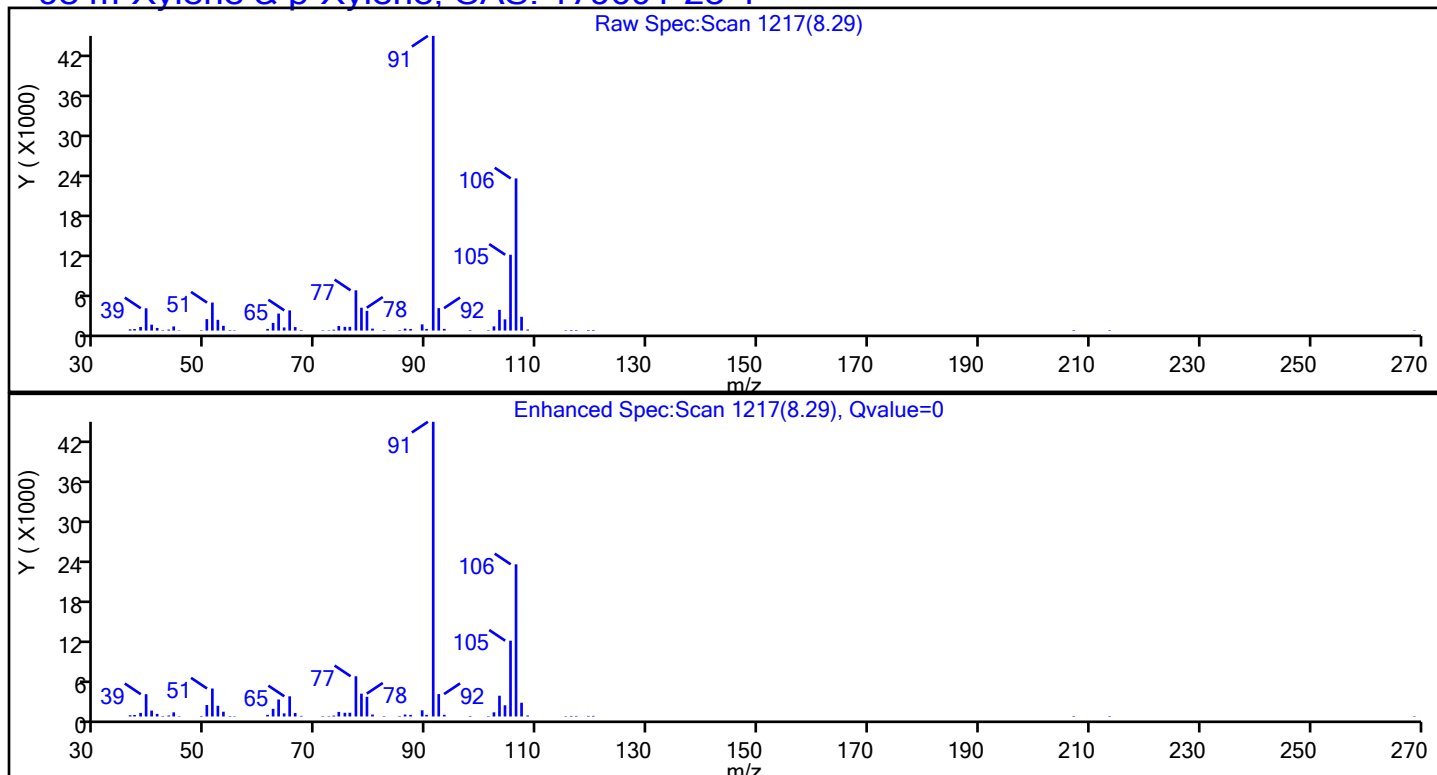
Limit Group:

VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

98 m-Xylene & p-Xylene, CAS: 179601-23-1

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82213.D

Injection Date: 03-Nov-2022 17:40:30

Instrument ID: CVOAMS8

Lims ID: 460-268503-B-2

Lab Sample ID: 460-268503-2

Client ID: RW-7

Operator ID:

ALS Bottle#: 23 Worklist Smp#: 24

Purge Vol: 5.000 mL

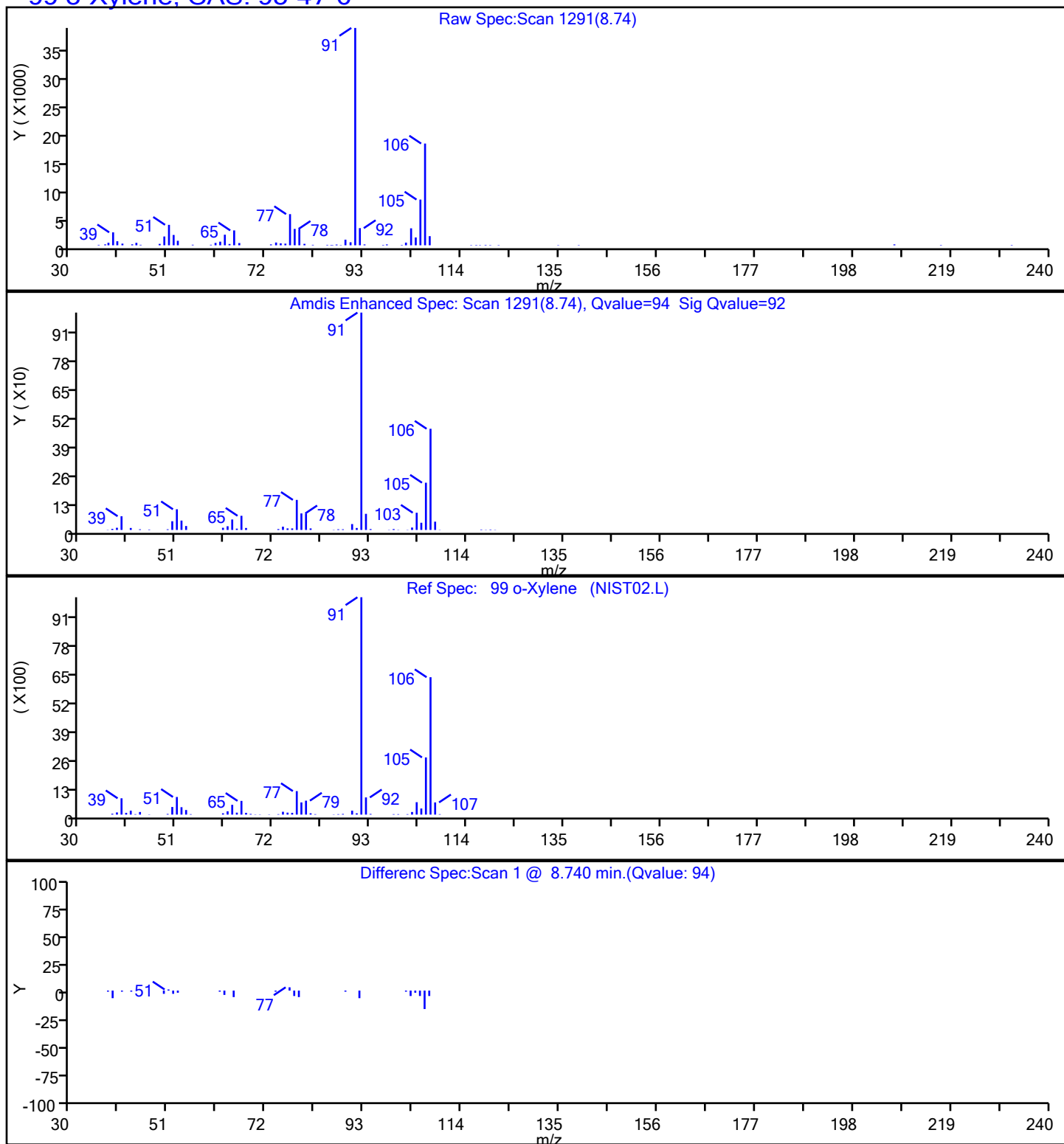
Dil. Factor: 1.0000

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

99 o-Xylene, CAS: 95-47-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Edison</u>	Job No.: <u>460-268503-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-2A</u>	Lab Sample ID: <u>460-268503-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>J82214.D</u>
Analysis Method: <u>624.1</u>	Date Collected: <u>10/28/2022 11:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/03/2022 18:05</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>Rtx-624</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>875754</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	120		2.0	0.65

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	112		60-140
1868-53-7	Dibromofluoromethane (Surr)	118		60-140
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		60-140
2037-26-5	Toluene-d8 (Surr)	98		60-140

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82214.D
 Lims ID: 460-268503-B-3
 Client ID: MW-2A
 Sample Type: Client
 Inject. Date: 03-Nov-2022 18:05:30 ALS Bottle#: 24 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-268503-B-3
 Misc. Info.: 460-0152676-025
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 16:45:09 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: HVW2

Date: 03-Nov-2022 19:11:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 TBA-d9 (IS)	65	2.401	2.402	-0.001	75	126783	1000.0	
* 43 2-Butanone-d5	46	3.314	3.315	-0.001	88	161335	250.0	
\$ 55 Dibromofluoromethane (Surr)	113	3.740	3.740	0.000	97	116342	59.1	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.068	4.069	-0.001	0	116746	43.1	
* 66 Fluorobenzene	96	4.330	4.331	-0.001	99	452727	50.0	
* 72 1,4-Dioxane-d8	96	5.042	5.036	0.006	0	21454	1000.0	
\$ 83 Toluene-d8 (Surr)	98	6.045	6.040	0.005	99	418229	48.8	
* 94 Chlorobenzene-d5	117	7.998	7.993	0.005	84	400901	50.0	
98 m-Xylene & p-Xylene	106	8.296	8.291	0.005	0	551960	120.2	
99 o-Xylene	106	8.746	8.741	0.005	95	1865	0.4038	
\$ 105 4-Bromofluorobenzene	174	9.324	9.319	0.005	95	159290	56.0	
* 121 1,4-Dichlorobenzene-d4	152	10.377	10.371	0.006	94	243247	50.0	
S 137 Xylenes, Total	100				0		120.6	

QC Flag Legend

Processing Flags

Reagents:

8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00233	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82214.D

Injection Date: 03-Nov-2022 18:05:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-268503-B-3

Lab Sample ID: 460-268503-3

Worklist Smp#: 25

Client ID: MW-2A

Purge Vol: 5.000 mL

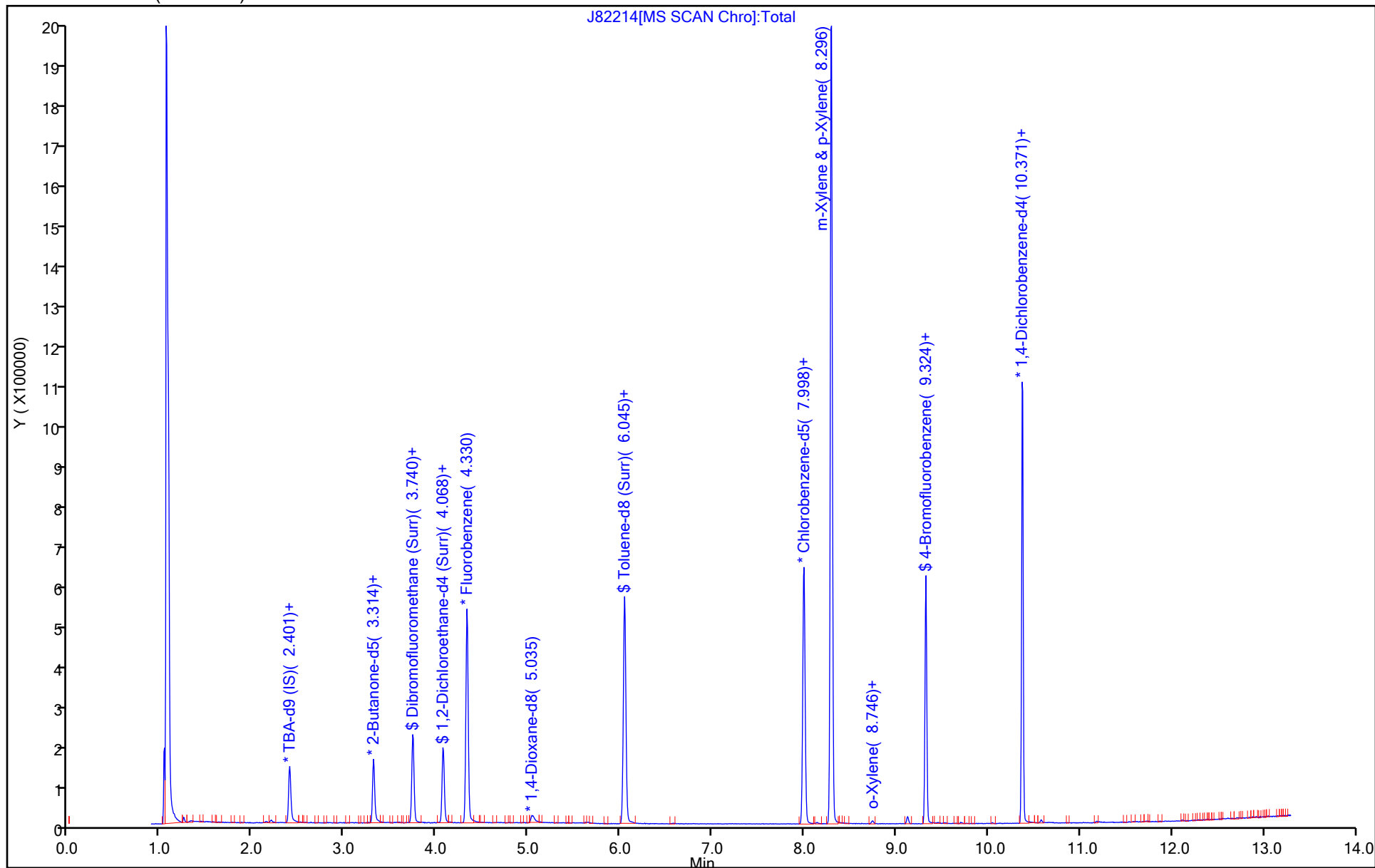
Dil. Factor: 1.0000

ALS Bottle#: 24

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison
Recovery Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82214.D
Lims ID: 460-268503-B-3
Client ID: MW-2A
Sample Type: Client
Inject. Date: 03-Nov-2022 18:05:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-268503-B-3
Misc. Info.: 460-0152676-025
Operator ID: Instrument ID: CVOAMS8
Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
Limit Group: VOA 624.1 ICAL
Last Update: 03-Nov-2022 16:45:09 Calib Date: 13-Oct-2022 02:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1619

First Level Reviewer: HVW2

Date: 03-Nov-2022 19:11:31

Compound	Amount Added	Amount Recovered	% Rec.
\$ 55 Dibromofluoromethane (Surr)	50.0	59.1	118.20
\$ 61 1,2-Dichloroethane-d4 (Surr)	50.0	43.1	86.26
\$ 83 Toluene-d8 (Surr)	50.0	48.8	97.53
\$ 105 4-Bromofluorobenzene	50.0	56.0	111.94

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82214.D

Injection Date: 03-Nov-2022 18:05:30

Instrument ID: CVOAMS8

Lims ID: 460-268503-B-3

Lab Sample ID: 460-268503-3

Client ID: MW-2A

Operator ID:

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 5.000 mL

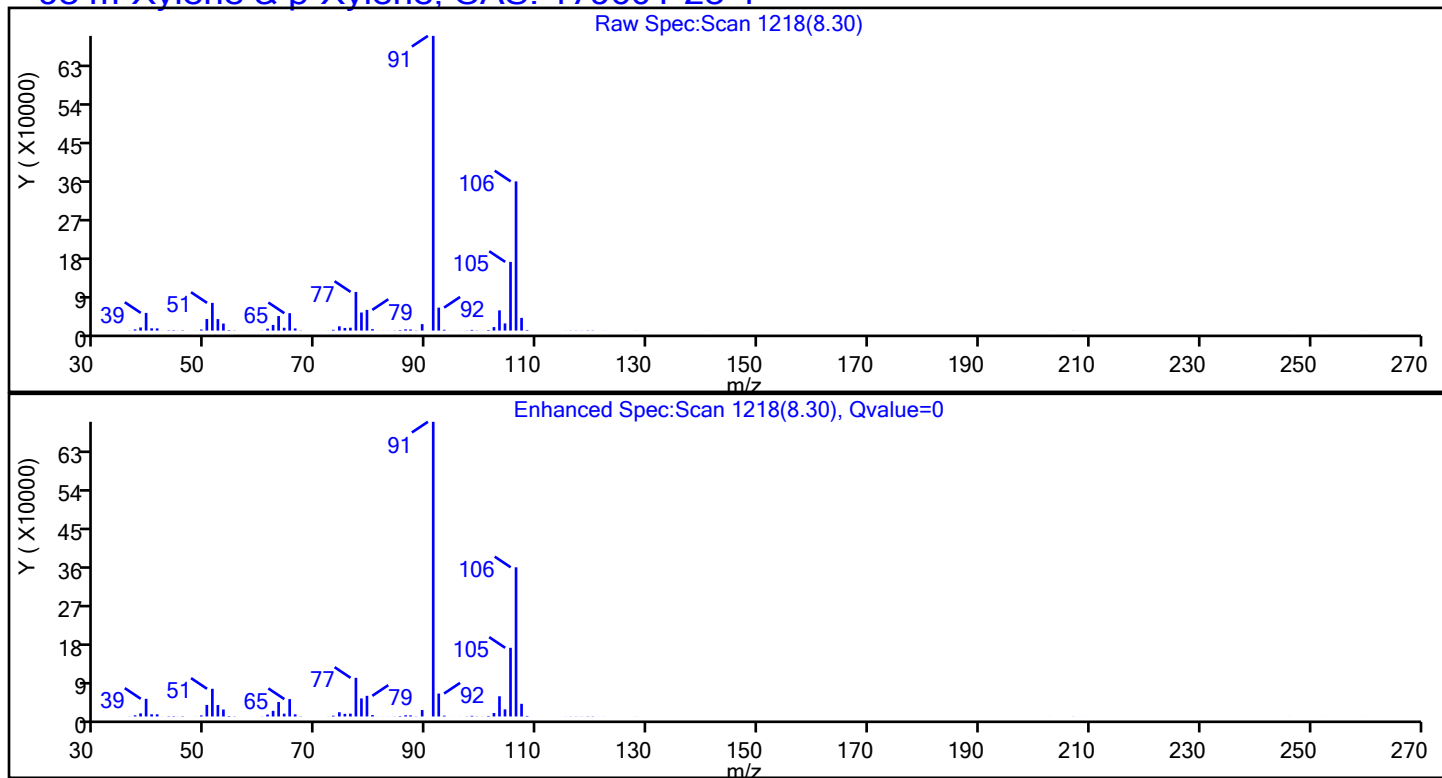
Dil. Factor: 1.0000

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

98 m-Xylene & p-Xylene, CAS: 179601-23-1

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82214.D

Injection Date: 03-Nov-2022 18:05:30

Instrument ID: CVOAMS8

Lims ID: 460-268503-B-3

Lab Sample ID: 460-268503-3

Client ID: MW-2A

Operator ID:

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 5.000 mL

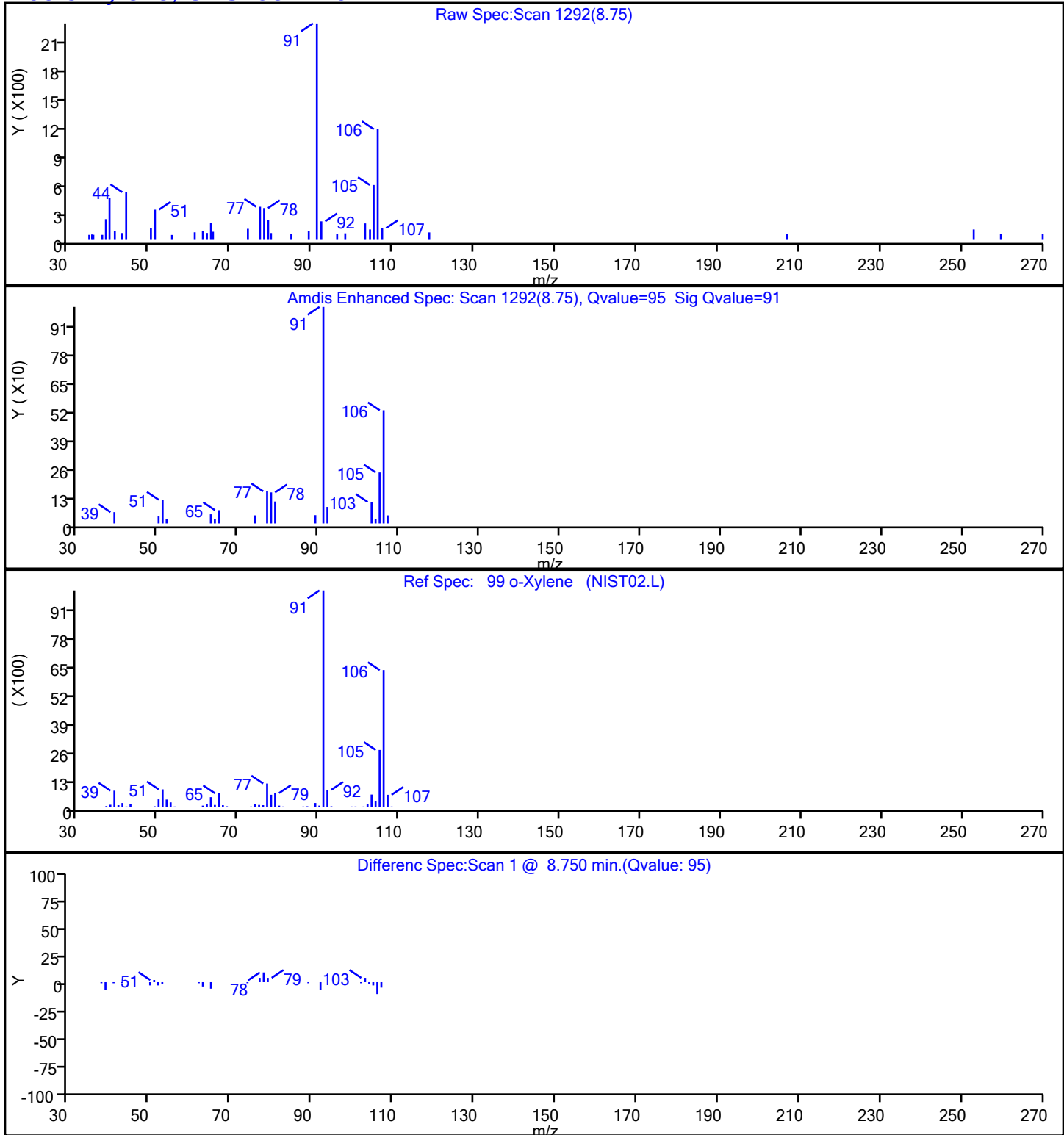
Dil. Factor: 1.0000

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

99 o-Xylene, CAS: 95-47-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Edison</u>	Job No.: <u>460-268503-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-9</u>	Lab Sample ID: <u>460-268503-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>J82211.D</u>
Analysis Method: <u>624.1</u>	Date Collected: <u>10/28/2022 13:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/03/2022 16:50</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>Rtx-624</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>875754</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.65

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	103		60-140
1868-53-7	Dibromofluoromethane (Surr)	123		60-140
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		60-140
2037-26-5	Toluene-d8 (Surr)	90		60-140

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82211.D
 Lims ID: 460-268503-B-4
 Client ID: MW-9
 Sample Type: Client
 Inject. Date: 03-Nov-2022 16:50:30 ALS Bottle#: 21 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-268503-B-4
 Misc. Info.: 460-0152676-022
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 16:45:09 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: HVW2

Date: 03-Nov-2022 19:11:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 TBA-d9 (IS)	65	2.399	2.402	-0.003	75	127412	1000.0	
* 43 2-Butanone-d5	46	3.312	3.315	-0.003	88	154598	250.0	
\$ 55 Dibromofluoromethane (Surr)	113	3.744	3.740	0.004	96	113723	61.6	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.072	4.069	0.003	0	114610	45.1	
* 66 Fluorobenzene	96	4.328	4.331	-0.003	99	424798	50.0	
* 72 1,4-Dioxane-d8	96	5.040	5.036	0.004	0	21829	1000.0	
\$ 83 Toluene-d8 (Surr)	98	6.043	6.040	0.003	98	391173	45.2	
* 94 Chlorobenzene-d5	117	7.996	7.993	0.003	84	404720	50.0	
\$ 105 4-Bromofluorobenzene	174	9.322	9.319	0.003	95	148380	51.6	
* 121 1,4-Dichlorobenzene-d4	152	10.375	10.371	0.004	94	238236	50.0	

Reagents:

8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00233	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82211.D

Injection Date: 03-Nov-2022 16:50:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-268503-B-4

Lab Sample ID: 460-268503-4

Worklist Smp#: 22

Client ID: MW-9

Purge Vol: 5.000 mL

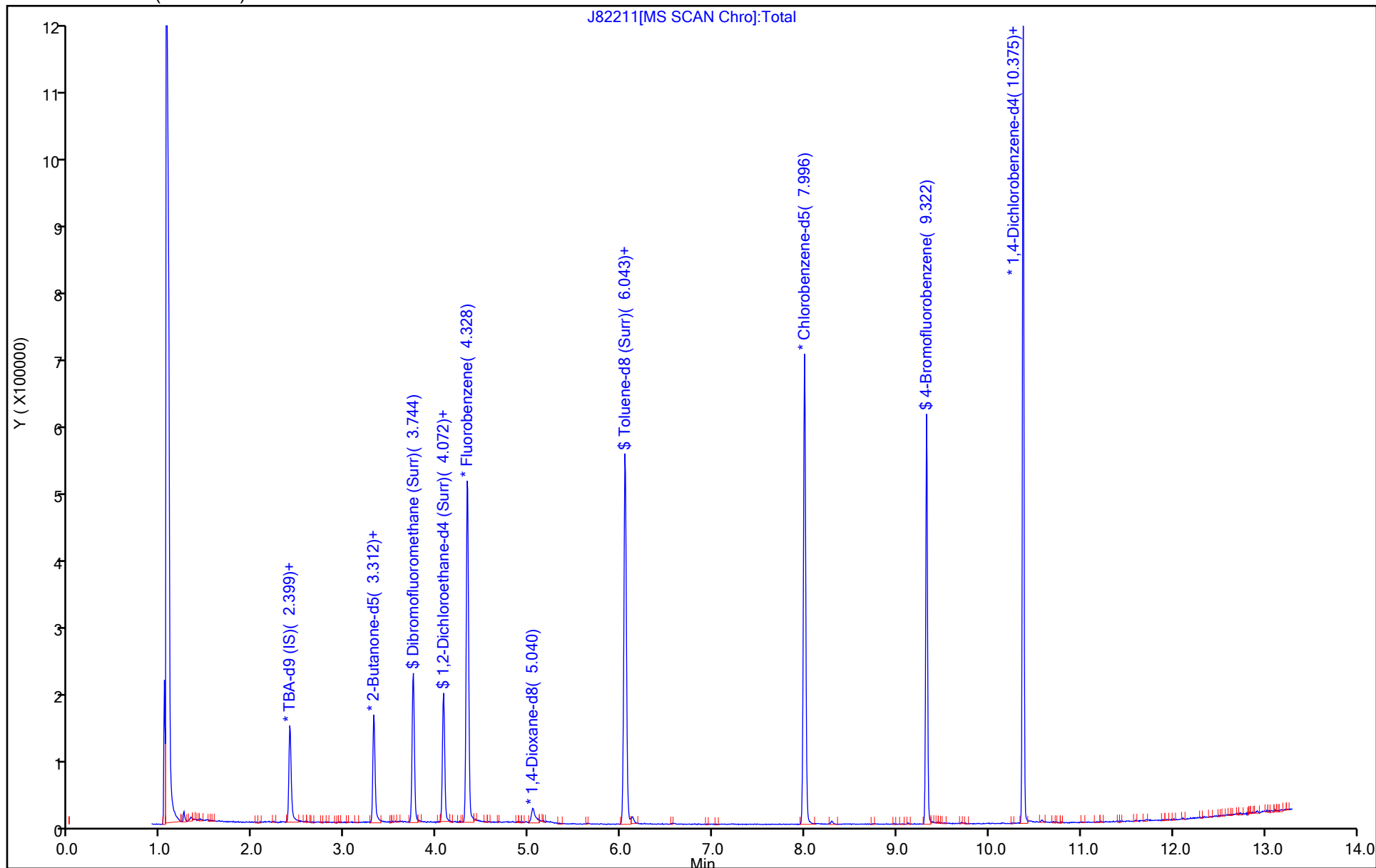
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison
Recovery Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82211.D
 Lims ID: 460-268503-B-4
 Client ID: MW-9
 Sample Type: Client
 Inject. Date: 03-Nov-2022 16:50:30 ALS Bottle#: 21 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-268503-B-4
 Misc. Info.: 460-0152676-022
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 16:45:09 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: HVW2

Date: 03-Nov-2022 19:11:05

Compound	Amount Added	Amount Recovered	% Rec.
\$ 55 Dibromofluoromethane (Surr)	50.0	61.6	123.14
\$ 61 1,2-Dichloroethane-d4 (Surr)	50.0	45.1	90.25
\$ 83 Toluene-d8 (Surr)	50.0	45.2	90.36
\$ 105 4-Bromofluorobenzene	50.0	51.6	103.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Edison</u>	Job No.: <u>460-268503-1</u>
SDG No.: _____	
Client Sample ID: <u>PZ-21</u>	Lab Sample ID: <u>460-268503-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>J82212.D</u>
Analysis Method: <u>624.1</u>	Date Collected: <u>10/28/2022 15:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/03/2022 17:15</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>Rtx-624</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>875754</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.65

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	103		60-140
1868-53-7	Dibromofluoromethane (Surr)	114		60-140
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		60-140
2037-26-5	Toluene-d8 (Surr)	96		60-140

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82212.D
 Lims ID: 460-268503-B-5
 Client ID: PZ-21
 Sample Type: Client
 Inject. Date: 03-Nov-2022 17:15:30 ALS Bottle#: 22 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-268503-B-5
 Misc. Info.: 460-0152676-023
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 16:45:09 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: HVW2

Date: 03-Nov-2022 19:11:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 TBA-d9 (IS)	65	2.404	2.402	0.002	75	134188	1000.0	
* 43 2-Butanone-d5	46	3.311	3.315	-0.004	88	162140	250.0	
\$ 55 Dibromofluoromethane (Surr)	113	3.742	3.740	0.002	96	117077	56.9	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.071	4.069	0.002	0	121173	42.8	
* 66 Fluorobenzene	96	4.333	4.331	0.002	99	473261	50.0	
* 72 1,4-Dioxane-d8	96	5.038	5.036	0.002	0	23194	1000.0	
\$ 83 Toluene-d8 (Surr)	98	6.042	6.040	0.002	99	409252	48.1	
* 94 Chlorobenzene-d5	117	7.995	7.993	0.002	85	398108	50.0	
\$ 105 4-Bromofluorobenzene	174	9.327	9.319	0.008	98	145704	51.6	
* 121 1,4-Dichlorobenzene-d4	152	10.373	10.371	0.002	94	236740	50.0	

Reagents:

8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00233	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82212.D

Injection Date: 03-Nov-2022 17:15:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-268503-B-5

Lab Sample ID: 460-268503-5

Worklist Smp#: 23

Client ID: PZ-21

Purge Vol: 5.000 mL

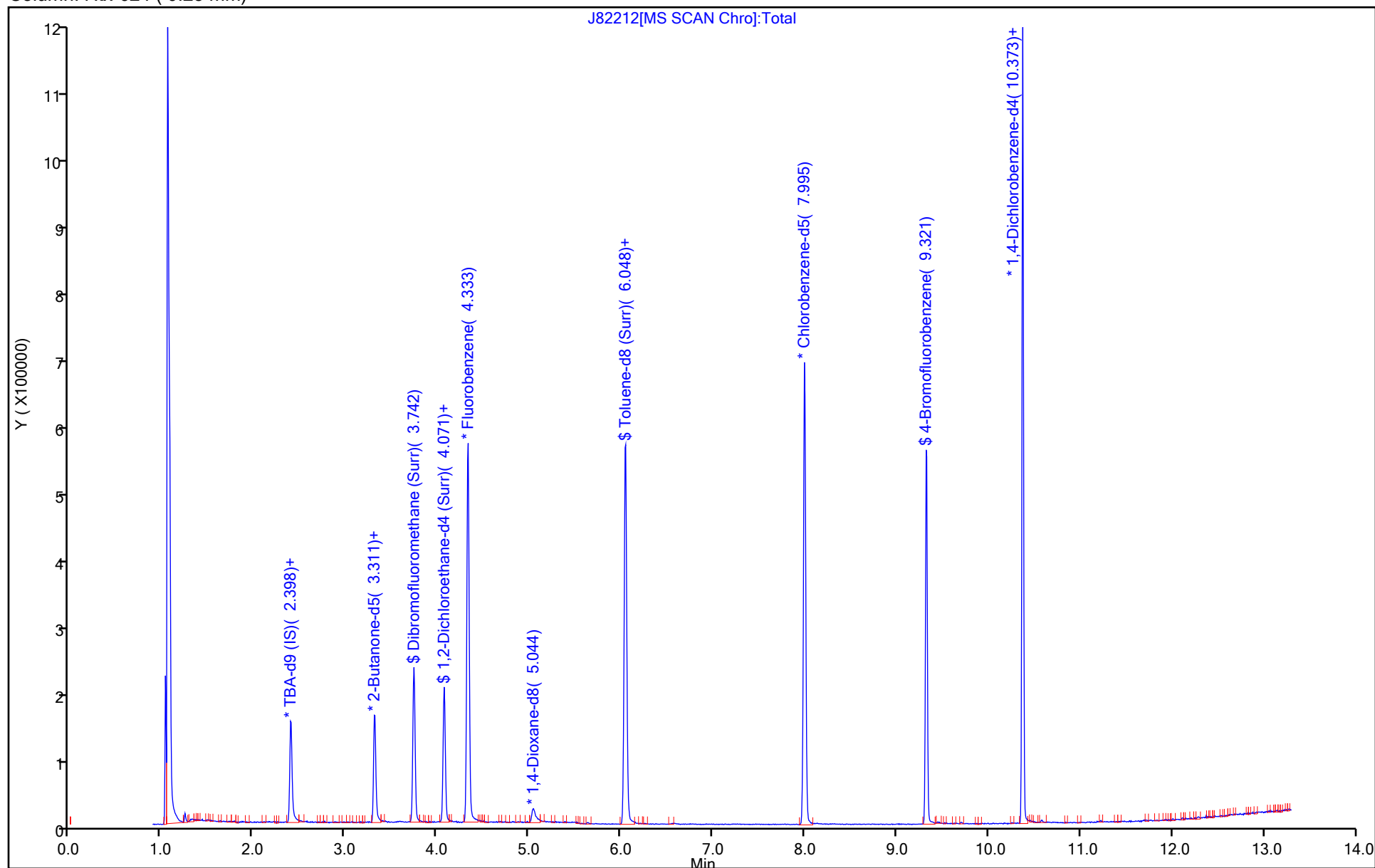
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison
Recovery Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82212.D
 Lims ID: 460-268503-B-5
 Client ID: PZ-21
 Sample Type: Client
 Inject. Date: 03-Nov-2022 17:15:30 ALS Bottle#: 22 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-268503-B-5
 Misc. Info.: 460-0152676-023
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 16:45:09 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: HVW2

Date: 03-Nov-2022 19:11:13

Compound	Amount Added	Amount Recovered	% Rec.
\$ 55 Dibromofluoromethane (Surr)	50.0	56.9	113.79
\$ 61 1,2-Dichloroethane-d4 (Surr)	50.0	42.8	85.64
\$ 83 Toluene-d8 (Surr)	50.0	48.1	96.11
\$ 105 4-Bromofluorobenzene	50.0	51.6	103.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison Job No.: 460-268503-1
 SDG No.: _____
 Client Sample ID: BD_(10282022) Lab Sample ID: 460-268503-6
 Matrix: Water Lab File ID: J82215.D
 Analysis Method: 624.1 Date Collected: 10/28/2022 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 11/03/2022 18:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 875754 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	110		2.0	0.65

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	115		60-140
1868-53-7	Dibromofluoromethane (Surr)	117		60-140
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		60-140
2037-26-5	Toluene-d8 (Surr)	90		60-140

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82215.D
 Lims ID: 460-268503-B-6
 Client ID: BD_(10282022)
 Sample Type: Client
 Inject. Date: 03-Nov-2022 18:30:30 ALS Bottle#: 25 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-268503-B-6
 Misc. Info.: 460-0152676-026
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 20:00:48 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: HVW2

Date: 03-Nov-2022 20:22:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 TBA-d9 (IS)	65	2.402	2.402	0.000	75	126387	1000.0	
* 43 2-Butanone-d5	46	3.314	3.315	-0.001	88	151585	250.0	
\$ 55 Dibromofluoromethane (Surr)	113	3.740	3.740	0.000	97	114709	58.3	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.069	4.069	0.000	0	114515	42.3	
* 66 Fluorobenzene	96	4.330	4.331	-0.001	99	452698	50.0	
* 72 1,4-Dioxane-d8	96	5.042	5.036	0.006	0	24008	1000.0	
\$ 83 Toluene-d8 (Surr)	98	6.046	6.040	0.006	99	377566	45.1	
* 94 Chlorobenzene-d5	117	7.993	7.993	-0.001	85	391611	50.0	
98 m-Xylene & p-Xylene	106	8.291	8.291	0.000	0	483778	107.8	
99 o-Xylene	106	8.741	8.741	0.000	93	1657	0.3673	
\$ 105 4-Bromofluorobenzene	174	9.325	9.319	0.006	97	160465	57.7	
* 121 1,4-Dichlorobenzene-d4	152	10.371	10.371	0.000	95	247354	50.0	
S 137 Xylenes, Total	100				0		108.2	

QC Flag Legend

Processing Flags

Reagents:

8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00233	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82215.D

Injection Date: 03-Nov-2022 18:30:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-268503-B-6

Lab Sample ID: 460-268503-6

Worklist Smp#: 26

Client ID: BD_(10282022)

Purge Vol: 5.000 mL

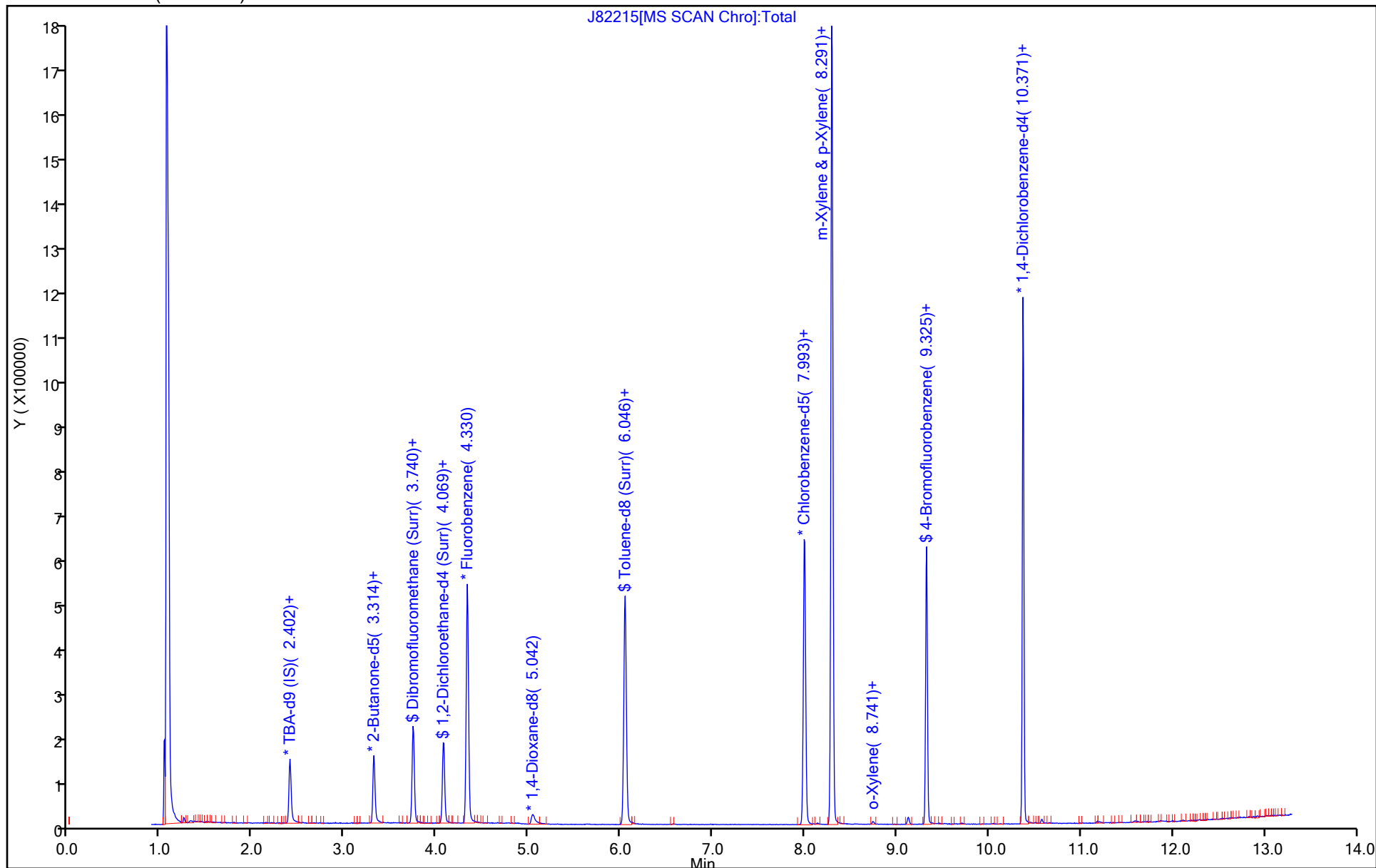
Dil. Factor: 1.0000

ALS Bottle#: 25

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison
Recovery Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82215.D
Lims ID: 460-268503-B-6
Client ID: BD_(10282022)
Sample Type: Client
Inject. Date: 03-Nov-2022 18:30:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-268503-B-6
Misc. Info.: 460-0152676-026
Operator ID: Instrument ID: CVOAMS8
Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
Limit Group: VOA 624.1 ICAL
Last Update: 03-Nov-2022 20:00:48 Calib Date: 13-Oct-2022 02:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1619

First Level Reviewer: HVW2

Date: 03-Nov-2022 20:22:03

Compound	Amount Added	Amount Recovered	% Rec.
\$ 55 Dibromofluoromethane (Surr)	50.0	58.3	116.55
\$ 61 1,2-Dichloroethane-d4 (Surr)	50.0	42.3	84.62
\$ 83 Toluene-d8 (Surr)	50.0	45.1	90.14
\$ 105 4-Bromofluorobenzene	50.0	57.7	115.44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82215.D

Injection Date: 03-Nov-2022 18:30:30

Instrument ID: CVOAMS8

Lims ID: 460-268503-B-6

Lab Sample ID: 460-268503-6

Client ID: BD_(10282022)

Operator ID:

ALS Bottle#:

25

Worklist Smp#:

26

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

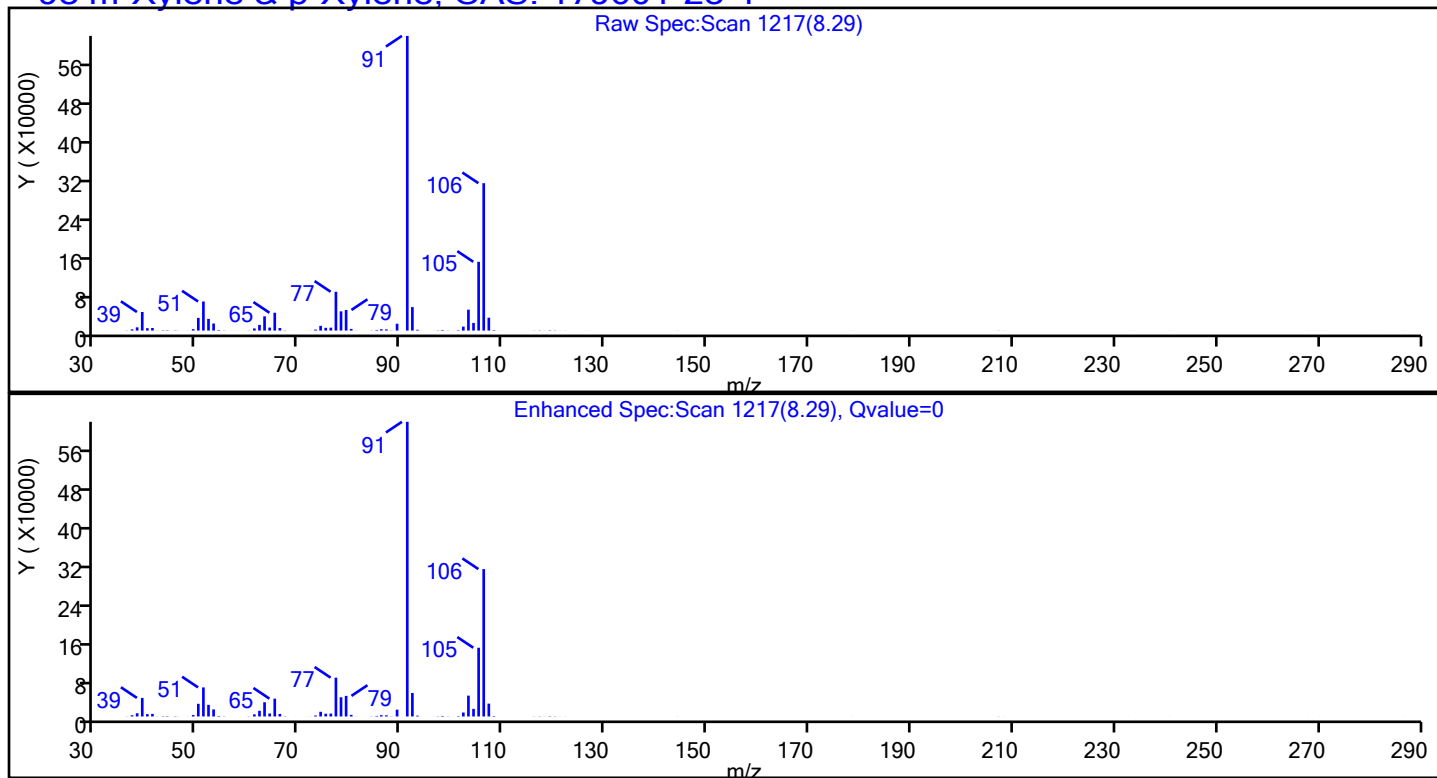
Limit Group:

VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

98 m-Xylene & p-Xylene, CAS: 179601-23-1

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82215.D

Injection Date: 03-Nov-2022 18:30:30

Instrument ID: CVOAMS8

Lims ID: 460-268503-B-6

Lab Sample ID: 460-268503-6

Client ID: BD_(10282022)

Operator ID:

ALS Bottle#:

25

Worklist Smp#:

26

Purge Vol: 5.000 mL

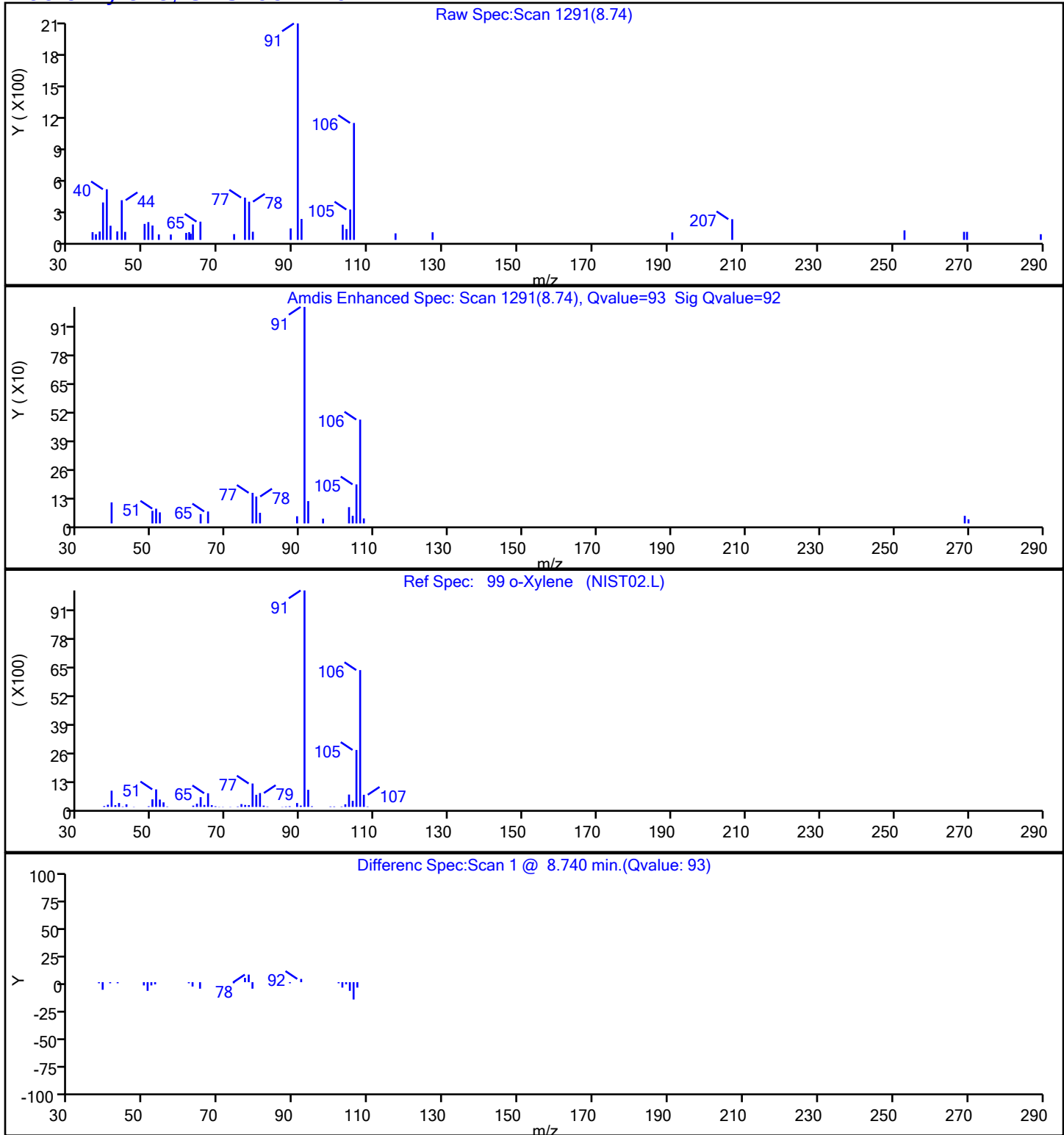
Dil. Factor: 1.0000

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

99 o-Xylene, CAS: 95-47-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison Job No.: 460-268503-1
 SDG No.: _____
 Client Sample ID: FB_(20221028) Lab Sample ID: 460-268503-7
 Matrix: Water Lab File ID: J82207.D
 Analysis Method: 624.1 Date Collected: 10/28/2022 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 11/03/2022 15:10
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 875754 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.65

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	111		60-140
1868-53-7	Dibromofluoromethane (Surr)	125		60-140
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		60-140
2037-26-5	Toluene-d8 (Surr)	88		60-140

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82207.D
 Lims ID: 460-268503-B-7
 Client ID: FB_(20221028)
 Sample Type: Client
 Inject. Date: 03-Nov-2022 15:10:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-268503-B-7
 Misc. Info.: 460-0152676-018
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 16:45:09 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: HVW2

Date: 03-Nov-2022 19:10:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 TBA-d9 (IS)	65	2.402	2.402	0.000	75	110848	1000.0	
* 43 2-Butanone-d5	46	3.315	3.315	0.000	87	138622	250.0	
\$ 55 Dibromofluoromethane (Surr)	113	3.741	3.740	0.001	96	114849	62.4	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.069	4.069	0.000	0	112243	44.3	
* 66 Fluorobenzene	96	4.331	4.331	0.000	99	423506	50.0	
* 72 1,4-Dioxane-d8	96	5.043	5.036	0.007	0	21571	1000.0	
\$ 83 Toluene-d8 (Surr)	98	6.046	6.040	0.006	99	363990	44.2	
* 94 Chlorobenzene-d5	117	7.999	7.993	0.006	85	384810	50.0	
\$ 105 4-Bromofluorobenzene	174	9.325	9.319	0.006	98	151757	55.6	
* 121 1,4-Dichlorobenzene-d4	152	10.372	10.371	0.001	94	239032	50.0	

Reagents:

8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00233	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82207.D

Injection Date: 03-Nov-2022 15:10:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-268503-B-7

Lab Sample ID: 460-268503-7

Worklist Smp#: 18

Client ID: FB_(20221028)

Purge Vol: 5.000 mL

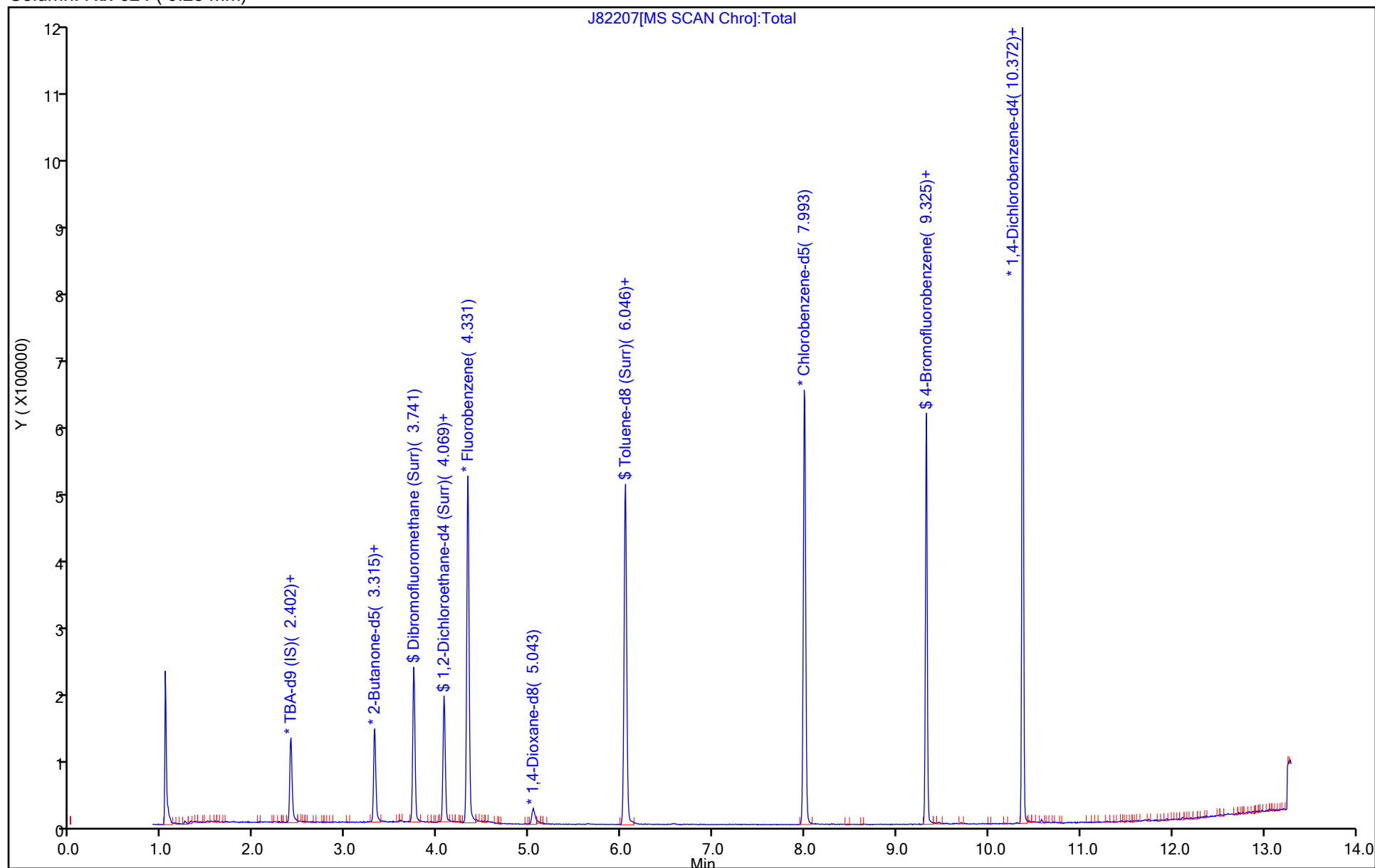
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison
Recovery Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82207.D
 Lims ID: 460-268503-B-7
 Client ID: FB_(20221028)
 Sample Type: Client
 Inject. Date: 03-Nov-2022 15:10:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-268503-B-7
 Misc. Info.: 460-0152676-018
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 16:45:09 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: HVW2

Date: 03-Nov-2022 19:10:28

Compound	Amount Added	Amount Recovered	% Rec.
\$ 55 Dibromofluoromethane (Surr)	50.0	62.4	124.74
\$ 61 1,2-Dichloroethane-d4 (Surr)	50.0	44.3	88.65
\$ 83 Toluene-d8 (Surr)	50.0	44.2	88.43
\$ 105 4-Bromofluorobenzene	50.0	55.6	111.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison Job No.: 460-268503-1
 SDG No.: _____
 Client Sample ID: TB_(20221028) Lab Sample ID: 460-268503-8
 Matrix: Water Lab File ID: J82208.D
 Analysis Method: 624.1 Date Collected: 10/28/2022 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 11/03/2022 15:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 875754 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.65

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	107		60-140
1868-53-7	Dibromofluoromethane (Surr)	123		60-140
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		60-140
2037-26-5	Toluene-d8 (Surr)	92		60-140

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82208.D
 Lims ID: 460-268503-B-8
 Client ID: TB_(20221028)
 Sample Type: Client
 Inject. Date: 03-Nov-2022 15:35:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-268503-B-8
 Misc. Info.: 460-0152676-019
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 16:45:09 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: HVW2

Date: 03-Nov-2022 19:10:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 TBA-d9 (IS)	65	2.399	2.402	-0.003	75	121334	1000.0	
* 43 2-Butanone-d5	46	3.312	3.315	-0.003	88	149976	250.0	
\$ 55 Dibromofluoromethane (Surr)	113	3.744	3.740	0.004	96	115678	61.5	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.072	4.069	0.003	0	114772	44.4	
* 66 Fluorobenzene	96	4.328	4.331	-0.003	99	432274	50.0	
* 72 1,4-Dioxane-d8	96	5.040	5.036	0.004	0	23920	1000.0	
\$ 83 Toluene-d8 (Surr)	98	6.043	6.040	0.003	99	386471	45.9	
* 94 Chlorobenzene-d5	117	7.996	7.993	0.003	85	393270	50.0	
\$ 105 4-Bromofluorobenzene	174	9.322	9.319	0.003	94	149784	53.6	
* 121 1,4-Dichlorobenzene-d4	152	10.375	10.371	0.004	94	233246	50.0	

Reagents:

8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00233	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82208.D

Injection Date: 03-Nov-2022 15:35:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-268503-B-8

Lab Sample ID: 460-268503-8

Worklist Smp#: 19

Client ID: TB_(20221028)

Purge Vol: 5.000 mL

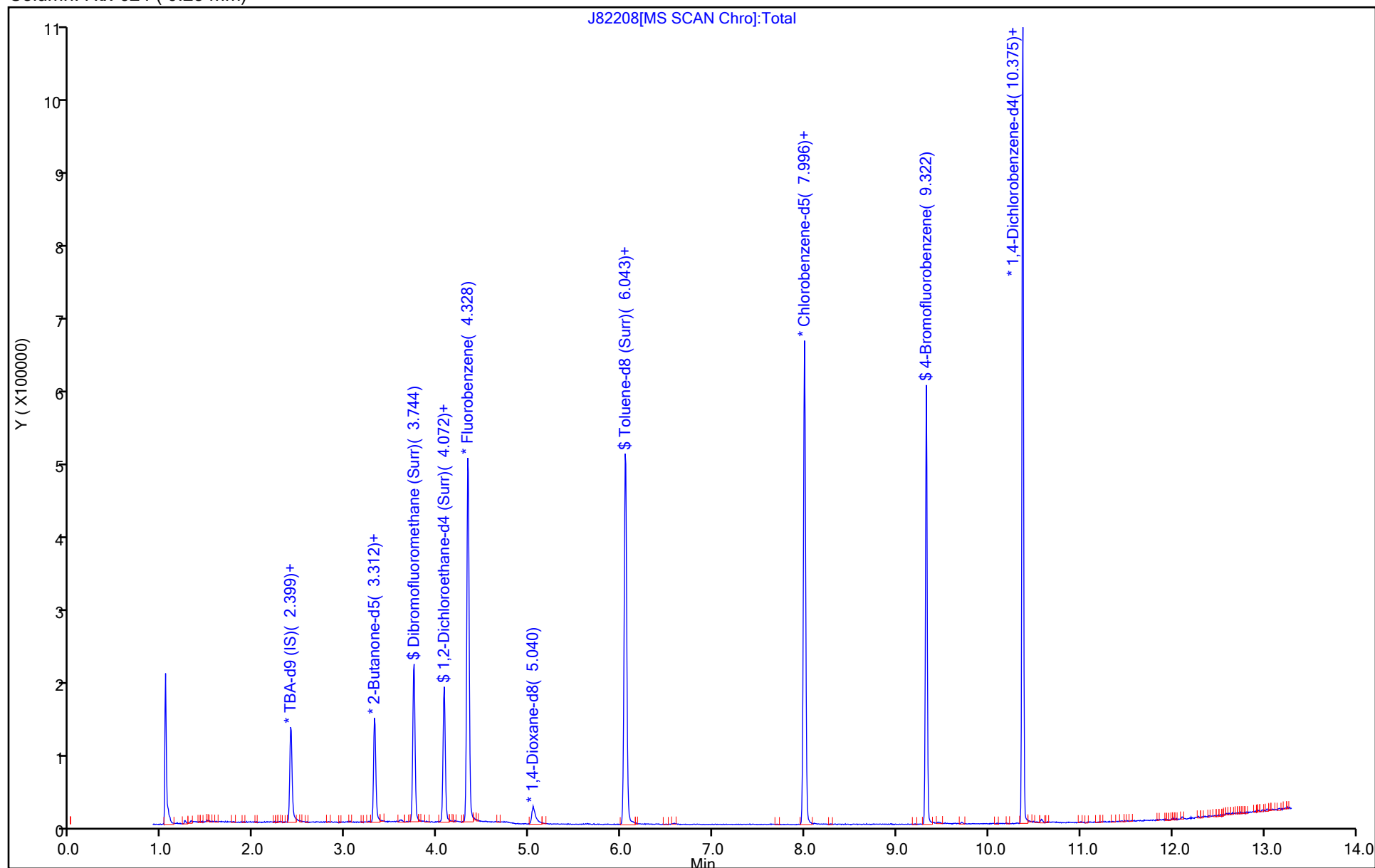
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison
Recovery Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82208.D
 Lims ID: 460-268503-B-8
 Client ID: TB_(20221028)
 Sample Type: Client
 Inject. Date: 03-Nov-2022 15:35:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-268503-B-8
 Misc. Info.: 460-0152676-019
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 16:45:09 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: HVW2

Date: 03-Nov-2022 19:10:35

Compound	Amount Added	Amount Recovered	% Rec.
\$ 55 Dibromofluoromethane (Surr)	50.0	61.5	123.09
\$ 61 1,2-Dichloroethane-d4 (Surr)	50.0	44.4	88.81
\$ 83 Toluene-d8 (Surr)	50.0	45.9	91.87
\$ 105 4-Bromofluorobenzene	50.0	53.6	107.30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-871602/3	J81262.D
Level 2	STD1 460-871602/4	J81263.D
Level 3	STD5 460-871602/5	J81264.D
Level 4	STD20 460-871602/6	J81265.D
Level 5	STD50 460-871602/7	J81266.D
Level 6	STD200 460-871602/8	J81267.D
Level 7	STD500 460-871602/9	J81268.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	+++++ 0.3866	0.3568 0.3752	0.3839	0.3517	0.3503	Ave		0.367 4				4.5		35.0			
Chloromethane	+++++ 0.5313	0.5850 0.5175	0.5398	0.5079	0.5010	Ave		0.530 4				5.7		35.0			
Vinyl chloride	+++++ 0.3438	0.4045 0.3227	0.3592	0.3468	0.3394	Ave		0.352 7				7.9		35.0			
Butadiene	0.3620 0.3327	0.3745 0.2977	0.3562	0.3306	0.3175	Ave		0.338 7				8.0		35.0			
Bromomethane	+++++ 0.1350	0.1357 0.1407	0.1236	0.1231	0.1211	Ave		0.129 9				6.3		35.0			
Chloroethane	+++++ 0.1620	0.1862 0.1516	0.1980	0.1794	0.1665	Ave		0.174 0				9.8		35.0			
Trichlorofluoromethane	+++++ 0.3685	0.4182 0.3437	0.3882	0.3676	0.3619	Ave		0.374 7				6.8		35.0			
Pentane	+++++ 0.4132	0.4247 0.3464	0.5226	0.4774	0.4388	Ave		0.437 2				13.7		35.0			
Ethanol	+++++ 0.0361	0.0491 0.0403	0.0472	0.0513	0.0462	Ave		0.045 0				12.7		35.0			
Ethyl ether	+++++ 0.2142	0.2391 0.1871	0.2156	0.2282	0.2211	Ave		0.217 6				8.0		35.0			
2-Methyl-1,3-butadiene	+++++ 0.2580	0.3080 0.2305	0.3004	0.2765	0.2740	Ave		0.274 6				10.3		35.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2149	0.2313 0.1978	0.2407	0.2254	0.2199	Ave		0.221 7				6.6		35.0			
Acrolein	+++++ 1.7676	2.0821 1.7100	1.8575	1.6380	1.7370	Ave		1.798 7				8.7		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloroethene	++++ 0.2031	0.2802 0.1895	0.2296	0.2188	0.2105	Ave		0.221 9				14.3		35.0			
Acetone	++++ 0.6729	0.7991 0.6423	0.6542	0.6099	0.5979	Ave		0.662 7				10.9		35.0			
Iodomethane	++++ 0.2762	0.1891 0.2572	0.1528	0.2093	0.2492	Lin2	-0.06 1	0.235 3				19.1		35.0			
Isopropyl alcohol	++++ 0.5049	0.4218 0.5617	0.5371	0.5088	0.5829	Ave		0.519 6				10.9		35.0			
Carbon disulfide	++++ 0.7923	0.9372 0.7213	0.7971	0.8167	0.8286	Ave		0.815 5				8.6		35.0			
3-Chloro-1-propene	++++ 0.1456	0.1936 0.1251	0.1570	0.1592	0.1536	Ave		0.155 7				14.3		35.0			
Methyl acetate	++++ 0.2095	0.2443 0.1856	0.2071	0.2160	0.2231	Ave		0.214 3				9.1		35.0			
Acetonitrile	++++ 1.2453	1.2358 1.5108	1.2687	1.3351	1.3568	Ave		1.325 4				7.8		35.0			
Methylene Chloride	++++ 0.2572	0.3297 0.2396	0.2814	0.2763	0.2623	Ave		0.274 4				11.3		35.0			
2-Methyl-2-propanol	++++ 0.7334	0.8998 0.8074	0.7784	0.7739	0.8174	Ave		0.801 7				7.0		35.0			
Methyl tert-butyl ether	++++ 0.6872	0.7326 0.6282	0.6482	0.6853	0.7079	Ave		0.681 6				5.6		35.0			
trans-1,2-Dichloroethene	++++ 0.2311	0.3206 0.2142	0.2597	0.2440	0.2390	Ave		0.251 5				14.7		35.0			
Acrylonitrile	5.0821 4.3947	5.3163 3.8435	4.9801	5.1319	4.7366	Ave		4.783 6				10.7		35.0			
Hexane	++++ 0.3135	0.3052 0.2773	0.3302	0.3294	0.3246	Ave		0.313 3				6.4		35.0			
Isopropyl ether	++++ 1.0622	1.0622 0.9354	1.0274	1.0723	1.0906	Ave		1.041 7				5.4		35.0			
1,1-Dichloroethane	++++ 0.5292	0.6580 0.4661	0.6094	0.5699	0.5575	Ave		0.565 0				11.7		35.0			
Vinyl acetate	++++ 0.6571	0.6906 0.5241	0.6940	0.7233	0.6801	Ave		0.661 5				10.7		35.0			
2,2-Dichloropropane	++++ 0.1299	0.2127 0.1219	0.1408	0.1341	0.1325	Ave		0.145 3				23.1		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
cis-1,2-Dichloroethene	++++ 0.2595	0.3373 0.2428	0.2865	0.2690	0.2635	Ave		0.276 4				11.9		35.0			
2-Butanone (MEK)	++++ 0.1915	0.2397 0.1868	0.1975	0.1882	0.1756	Ave		0.196 6				11.3		35.0			
Ethyl acetate	++++ 0.2008	0.2198 0.2044	0.1994	0.2085	0.1985	Ave		0.205 2				3.9		35.0			
Chlorobromomethane	++++ 0.1112	0.1611 0.1041	0.1208	0.1202	0.1167	Ave		0.122 4				16.3		35.0			
Tetrahydrofuran	++++ 0.1943	0.1558 0.1848	0.2252	0.2141	0.2022	Ave		0.196 1				12.4		35.0			
Chloroform	++++ 0.4673	0.5872 0.4113	0.5180	0.4961	0.4809	Ave		0.493 5				11.8		35.0			
Cyclohexane	++++ 0.2930	0.3313 0.2693	0.3345	0.3112	0.3029	Ave		0.307 0				8.0		35.0			
1,1,1-Trichloroethane	++++ 0.3770	0.4487 0.3515	0.4026	0.3860	0.3768	Ave		0.390 4				8.5		35.0			
Carbon tetrachloride	++++ 0.3096	0.3292 0.3009	0.3143	0.3046	0.3049	Ave		0.310 6				3.3		35.0			
1,1-Dichloropropene	++++ 0.3625	0.4095 0.3478	0.3807	0.3767	0.3698	Ave		0.374 5				5.5		35.0			
Benzene	++++ 1.2966	1.6349 1.1755	1.4449	1.4388	1.3717	Ave		1.393 7				11.1		35.0			
Isopropyl acetate	++++ 0.8052	0.7887 0.7474	0.7458	0.7871	0.8261	Ave		0.783 4				4.1		35.0			
1,2-Dichloroethane	++++ 0.3980	0.4858 0.3762	0.4230	0.4223	0.4053	Ave		0.418 4				8.9		35.0			
n-Heptane	++++ 0.1219	0.1425 0.1113	0.1260	0.1233	0.1233	Ave		0.124 7				8.1		35.0			
n-Butanol	++++ 0.1925	0.1339 0.2236	0.1746	0.1898	0.2206	Ave		0.189 2				17.4		35.0			
Trichloroethene	++++ 0.2593	0.3543 0.2498	0.2769	0.2623	0.2659	Ave		0.278 1				13.8		35.0			
Methylcyclohexane	++++ 0.3156	0.3139 0.2903	0.3288	0.3250	0.3205	Ave		0.315 7				4.3		35.0			
Ethyl acrylate	++++ 0.6687	0.7385 0.6159	0.6487	0.6667	0.6870	Ave		0.670 9				6.1		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloropropane	++++ 0.3107	0.4078 0.2910	0.3321	0.3283	0.3181	Ave		0.331 3				12.1		35.0			
Methyl methacrylate	++++ 0.0508	0.0533 0.0486	0.0476	0.0499	0.0503	Ave		0.050 1				3.9		35.0			
1,4-Dioxane	++++ 0.5006	0.3592 0.5429	0.7050	0.5376	0.6154	Ave		0.543 4				21.3		35.0			
Dibromomethane	++++ 0.1711	0.2315 0.1642	0.1778	0.1761	0.1747	Ave		0.182 6				13.4		35.0			
n-Propyl acetate	++++ 0.4316	0.4407 0.4131	0.3685	0.4180	0.4362	Ave		0.418 0				6.3		35.0			
Dichlorobromomethane	++++ 0.3683	0.4174 0.3659	0.3587	0.3587	0.3576	Ave		0.371 1				6.2		35.0			
2-Chloroethyl vinyl ether	++++ 0.1922	0.1842 0.1843	0.1755	0.1771	0.1900	Ave		0.183 9				3.6		35.0			
Epichlorohydrin	0.2342 0.1961	0.1919 0.1967	0.1992	0.1943	0.1937	Ave		0.200 9				7.4		35.0			
cis-1,3-Dichloropropene	++++ 0.6677	0.6737 0.6324	0.6434	0.6691	0.6535	Ave		0.656 6				2.5		35.0			
4-Methyl-2-pentanone (MIBK)	++++ 2.3248	2.5249 2.1996	2.3915	2.4539	2.3298	Ave		2.370 8				4.8		35.0			
Toluene	++++ 1.4136	1.6571 1.3035	1.4623	1.4860	1.4140	Ave		1.456 1				8.0		35.0			
trans-1,3-Dichloropropene	++++ 0.6126	0.5874 0.5871	0.5500	0.5817	0.5870	Ave		0.584 3				3.4		35.0			
1,1,2-Trichloroethane	++++ 0.3087	0.3201 0.2929	0.3058	0.3145	0.3032	Ave		0.307 5				3.1		35.0			
Tetrachloroethene	++++ 0.2995	0.3250 0.2846	0.3050	0.3139	0.2957	Ave		0.304 0				4.7		35.0			
1,3-Dichloropropane	++++ 0.5733	0.5906 0.5267	0.5638	0.5941	0.5618	Ave		0.568 4				4.3		35.0			
2-Hexanone	++++ 0.7708	0.8025 0.7485	0.7985	0.7659	0.7599	Ave		0.774 4				2.8		35.0			
n-Butyl acetate	++++ 0.6822	0.7005 0.6185	0.6750	0.6754	0.6833	Ave		0.672 5				4.2		35.0			
Chlorodibromomethane	++++ 0.3526	0.3142 0.3438	0.2913	0.3177	0.3272	Ave		0.324 5				6.8		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethylene Dibromide	++++ 0.3287	0.3539 0.3138	0.3205	0.3418	0.3281	Ave		0.331 1				4.4		35.0			
Chlorobenzene	++++ 0.8488	0.9778 0.8037	0.8953	0.8913	0.8597	Ave		0.879 4				6.7		35.0			
Ethylbenzene	++++ 0.4539	0.4872 0.4276	0.4746	0.4635	0.4547	Ave		0.460 2				4.4		35.0			
1,1,1,2-Tetrachloroethane	++++ 0.3140	0.2997 0.3059	0.2840	0.2911	0.3014	Ave		0.299 4				3.6		35.0			
m-Xylene & p-Xylene	++++ 0.5398	0.6526 0.5182	0.5793	0.5844	0.5629	Ave		0.572 9				8.1		35.0			
o-Xylene	++++ 0.5553	0.6253 0.5216	0.5970	0.5958	0.5609	Ave		0.576 0				6.4		35.0			
n-Butyl acrylate	++++ 0.2914	0.3093 0.2804	0.2789	0.2945	0.2920	Ave		0.291 1				3.8		35.0			
Styrene	++++ 0.9670	1.0947 0.9003	0.9706	1.0150	0.9761	Ave		0.987 3				6.5		35.0			
Bromoform	++++ 0.2331	0.1817 0.2378	0.1676	0.1942	0.2041	Ave		0.203 1				13.7		35.0			
Amyl acetate (mixed isomers)	++++ 1.4175	1.4998 1.2703	1.4384	1.5441	1.4905	Ave		1.443 4				6.7		35.0			
Isopropylbenzene	++++ 1.3496	1.5627 1.2559	1.4516	1.4309	1.3569	Ave		1.401 3				7.5		35.0			
Bromobenzene	++++ 0.6740	0.8172 0.6207	0.7224	0.7046	0.6781	Ave		0.702 8				9.4		35.0			
1,1,2,2-Tetrachloroethane	++++ 0.8268	0.8664 0.7553	0.8300	0.8674	0.8346	Ave		0.830 1				4.9		35.0			
N-Propylbenzene	++++ 3.1276	3.7916 2.6720	3.4272	3.4296	3.3200	Ave		3.294 7				11.3		35.0			
1,2,3-Trichloropropane	++++ 0.1780	0.2076 0.1643	0.1914	0.1784	0.1779	Ave		0.182 9				8.1		35.0			
2-Chlorotoluene	++++ 2.2601	2.6322 2.0377	2.4238	2.4423	2.3222	Ave		2.353 0				8.5		35.0			
1,3,5-Trimethylbenzene	++++ 2.1559	2.4439 1.9099	2.2749	2.2387	2.1467	Ave		2.195 0				8.0		35.0			
4-Chlorotoluene	++++ 2.2325	2.5653 1.9452	2.3295	2.3136	2.2448	Ave		2.271 8				8.8		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Butyl Methacrylate	++++ 0.8781	0.8534 0.8106	0.8422	0.8741	0.8629	Ave		0.853 6				2.9		35.0			
tert-Butylbenzene	++++ 1.5914	1.8751 1.4237	1.7088	1.7194	1.6492	Ave		1.661 2				9.0		35.0			
1,2,4-Trimethylbenzene	++++ 2.2887	2.5492 2.0246	2.3446	2.3900	2.3326	Ave		2.321 6				7.4		35.0			
sec-Butylbenzene	++++ 2.3741	2.8107 2.1090	2.6187	2.5840	2.5118	Ave		2.501 4				9.6		35.0			
1,3-Dichlorobenzene	++++ 1.2436	1.3969 1.1161	1.2811	1.2823	1.2532	Ave		1.262 2				7.1		35.0			
4-Isopropyltoluene	++++ 2.0483	2.2948 1.7765	2.1083	2.1279	2.1032	Ave		2.076 5				8.1		35.0			
1,4-Dichlorobenzene	++++ 1.2918	1.4794 1.1734	1.3323	1.3469	1.3002	Ave		1.320 7				7.5		35.0			
1,2,3-Trimethylbenzene	++++ 2.4227	2.6600 2.1634	2.5226	2.5354	2.4625	Ave		2.461 1				6.8		35.0			
Benzyl chloride	++++ 1.5324	1.1978 1.4298	1.1713	1.3005	1.4001	Ave		1.338 6				10.5		35.0			
n-Butylbenzene	++++ 1.1420	1.3006 1.0007	1.2083	1.1842	1.1582	Ave		1.165 7				8.4		35.0			
1,2-Dichlorobenzene	++++ 1.2426	1.3874 1.1299	1.2675	1.2694	1.2277	Ave		1.254 1				6.6		35.0			
1,2-Dibromo-3-Chloropropane	++++ 0.1414	0.1227 0.1350	0.1289	0.1273	0.1307	Ave		0.131 0				4.9		35.0			
1,2,4-Trichlorobenzene	++++ 0.8142	0.9399 0.7370	0.7851	0.8069	0.8058	Ave		0.814 8				8.3		35.0			
Hexachlorobutadiene	++++ 0.2713	0.3049 0.2624	0.2951	0.2839	0.2697	Ave		0.281 2				5.8		35.0			
Naphthalene	++++ 2.0843	2.3701 1.8876	2.0494	2.1153	2.1200	Ave		2.104 4				7.4		35.0			
1,2,3-Trichlorobenzene	++++ 0.7547	0.8585 0.6977	0.7023	0.7466	0.7392	Ave		0.749 8				7.8		35.0			
Dibromofluoromethane (Surr)	0.2307 0.2212	0.2280 0.2184	0.1858	0.2196	0.2183	Ave		0.217 4				6.8		35.0			
1,2-Dichloroethane-d4 (Surr)	0.3106 0.3089	0.3104 0.3079	0.2565	0.2988	0.2996	Ave		0.299 0				6.5		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Toluene-d8 (Surr)	1.0614 1.1300	1.0765 1.0989	0.9081	1.1162	1.0965	Ave		1.069 6				7.0		35.0			
4-Bromofluorobenzene	0.3593 0.3587	0.3657 0.3772	0.2999	0.3670	0.3570	Ave		0.355 0				7.1		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-871602/3	J81262.D
Level 2	STD1 460-871602/4	J81263.D
Level 3	STD5 460-871602/5	J81264.D
Level 4	STD20 460-871602/6	J81265.D
Level 5	STD50 460-871602/7	J81266.D
Level 6	STD200 460-871602/8	J81267.D
Level 7	STD500 460-871602/9	J81268.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	++++ 729408	3135 1850513	17424	64772	164101	++++ 200	1.00 500	5.00	20.0	50.0
Chloromethane	FB	Ave	++++ 1002289	5140 2552636	24499	93533	234711	++++ 200	1.00 500	5.00	20.0	50.0
Vinyl chloride	FB	Ave	++++ 648672	3554 1591757	16302	63880	159015	++++ 200	1.00 500	5.00	20.0	50.0
Butadiene	FB	Ave	809 627578	3290 1468363	16168	60887	148773	0.250 200	1.00 500	5.00	20.0	50.0
Bromomethane	FB	Ave	++++ 254644	1192 694129	5612	22670	56748	++++ 200	1.00 500	5.00	20.0	50.0
Chloroethane	FB	Ave	++++ 305622	1636 747795	8988	33037	78010	++++ 200	1.00 500	5.00	20.0	50.0
Trichlorofluoromethane	FB	Ave	++++ 695233	3674 1695311	17621	67708	169536	++++ 200	1.00 500	5.00	20.0	50.0
Pentane	FB	Ave	++++ 1558853	7463 3417145	47440	175847	411174	++++ 400	2.00 1000	10.0	40.0	100
Ethanol	TBAd 9	Ave	++++ 59052	343 167008	1672	7465	18619	++++ 8000	40.0 20000	200	800	2000
Ethyl ether	FB	Ave	++++ 404180	2101 923063	9784	42021	103598	++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-1,3-butadiene	FB	Ave	++++ 486738	2706 1136977	13635	50915	128379	++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 405461	2032 975662	10924	41509	103015	++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
Acrolein	TBAd 9	Ave	++++ 72291	1455 141694	6575	11907	35021	++++ 200	4.00 400	20.0	40.0	100
1,1-Dichloroethene	FB	Ave	++++ 383118	2462 934657	10419	40293	98642	++++ 200	1.00 500	5.00	20.0	50.0
Acetone	BUT	Ave	++++ 846983	4181 1990820	17697	69593	184664	++++ 1000	5.00 2500	25.0	100	250
Iodomethane	FB	Lin2	++++ 521096	1661 1268801	6937	38539	116770	++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl alcohol	TBAd 9	Ave	++++ 206503	737 581800	4753	18494	58764	++++ 2000	10.0 5000	50.0	200	500
Carbon disulfide	FB	Ave	++++ 1494626	8234 3557940	36178	150419	388233	++++ 200	1.00 500	5.00	20.0	50.0
3-Chloro-1-propene	FB	Ave	++++ 274694	1701 617231	7128	29320	71984	++++ 200	1.00 500	5.00	20.0	50.0
Methyl acetate	FB	Ave	++++ 790377	4293 1830598	18802	79558	209052	++++ 400	2.00 1000	10.0	40.0	100
Acetonitrile	TBAd 9	Ave	++++ 509290	2159 1564806	11227	48527	136774	++++ 2000	10.0 5000	50.0	200	500
Methylene Chloride	FB	Ave	++++ 485161	2897 1182036	12771	50896	122912	++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-2-propanol	TBAd 9	Ave	++++ 299960	1572 836237	6888	28129	82405	++++ 2000	10.0 5000	50.0	200	500
Methyl tert-butyl ether	FB	Ave	++++ 1296415	6436 3098875	29418	126213	331676	++++ 200	1.00 500	5.00	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	++++ 435927	2817 1056563	11789	44943	111993	++++ 200	1.00 500	5.00	20.0	50.0
Acrylonitrile	TBAd 9	Ave	1806 1797357	9288 3980971	44070	186525	477492	2.00 2000	10.0 5000	50.0	200	500
Hexane	FB	Ave	++++ 591478	2681 1367564	14985	60667	152063	++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl ether	FB	Ave	++++	9332	46632	197494	510990	++++	1.00	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
			2003793	4614135				200	500			
1,1-Dichloroethane	FB	Ave	++++ 998356	5781 2299176	27661	104968	261202	++++ 200	1.00 500	5.00	20.0	50.0
Vinyl acetate	FB	Ave	++++ 2479096	12134 5169943	62993	266416	637251	++++ 400	2.00 1000	10.0	40.0	100
2,2-Dichloropropane	FB	Ave	++++ 244978	1869 601291	6392	24706	62081	++++ 200	1.00 500	5.00	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	++++ 489556	2963 1197715	13004	49548	123461	++++ 200	1.00 500	5.00	20.0	50.0
2-Butanone (MEK)	BUT	Ave	++++ 241063	1254 579102	5342	21476	54251	++++ 1000	5.00 2500	25.0	100	250
Ethyl acetate	BUT	Ave	++++ 101093	460 253434	2157	9516	24524	++++ 400	2.00 1000	10.0	40.0	100
Chlorobromomethane	FB	Ave	++++ 209701	1415 513653	5485	22138	54682	++++ 200	1.00 500	5.00	20.0	50.0
Tetrahydrofuran	BUT	Ave	++++ 97840	326 229080	2437	9771	24978	++++ 400	2.00 1000	10.0	40.0	100
Chloroform	FB	Ave	++++ 881586	5159 2028735	23510	91370	225331	++++ 200	1.00 500	5.00	20.0	50.0
Cyclohexane	FB	Ave	++++ 552748	2911 1328328	15181	57310	141932	++++ 200	1.00 500	5.00	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	++++ 711163	3942 1733938	18272	71090	176527	++++ 200	1.00 500	5.00	20.0	50.0
Carbon tetrachloride	FB	Ave	++++ 584066	2892 1484179	14263	56094	142869	++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloropropene	FB	Ave	++++ 683826	3598 1715702	17277	69378	173240	++++ 200	1.00 500	5.00	20.0	50.0
Benzene	CBNZ d5	Ave	++++ 1877633	11308 4554246	49674	198090	492802	++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl acetate	FB	Ave	++++ 1518941	6929 3686419	33852	144954	387065	++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloroethane	FB	Ave	++++ 750759	4268 1855837	19199	77775	189915	++++ 200	1.00 500	5.00	20.0	50.0
n-Heptane	FB	Ave	++++ 229923	1252 548849	5721	22700	57755	++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
n-Butanol	TBAd 9	Ave	++++ 196784	585 578875	3863	17245	55587	++++ 5000	25.0 12500	125	500	1250
Trichloroethene	FB	Ave	++++ 489095	3113 1231962	12567	48315	124583	++++ 200	1.00 500	5.00	20.0	50.0
Methylcyclohexane	FB	Ave	++++ 595387	2758 1432134	14924	59856	150147	++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acrylate	FB	Ave	++++ 1261596	6488 3038171	29444	122785	321873	++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloropropane	FB	Ave	++++ 586171	3583 1435525	15072	60458	149051	++++ 200	1.00 500	5.00	20.0	50.0
Methyl methacrylate	FB	Ave	++++ 191705	937 479117	4325	18376	47148	++++ 400	2.00 1000	10.0	40.0	100
1,4-Dioxane	DXE	Ave	++++ 55365	443 174106	1656	5130	16143	++++ 4000	50.0 10000	100	400	1000
Dibromomethane	FB	Ave	++++ 322712	2034 809742	8071	32438	81852	++++ 200	1.00 500	5.00	20.0	50.0
n-Propyl acetate	FB	Ave	++++ 814239	3872 2037619	16727	76992	204392	++++ 200	1.00 500	5.00	20.0	50.0
Dichlorobromomethane	FB	Ave	++++ 694794	3667 1804834	16281	66063	167544	++++ 200	1.00 500	5.00	20.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	++++ 363490	1622 911082	7983	32686	89247	++++ 200	1.00 501	5.01	20.0	50.1
Epichlorohydrin	BUT	Ave	1218 987405	4017 2438316	21548	88675	239367	5.00 4000	20.0 10000	100	400	1000
cis-1,3-Dichloropropene	CBNZ d5	Ave	++++ 966856	4660 2450122	22120	92114	234776	++++ 200	1.00 500	5.00	20.0	50.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	++++ 2926389	13211 6818163	64689	280021	719589	++++ 1000	5.00 2500	25.0	100	250
Toluene	CBNZ d5	Ave	++++ 2046949	11462 5050245	50271	204579	507992	++++ 200	1.00 500	5.00	20.0	50.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	++++ 887130	4063 2274666	18907	80082	210875	++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 446967	2214 1134865	10512	43294	108946	++++ 200	1.00 500	5.00	20.0	50.0
Tetrachloroethene	CBNZ d5	Ave	++++ 433721	2248 1102554	10485	43218	106239	++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichloropropane	CBNZ d5	Ave	++++ 830225	4085 2040410	19381	81788	201831	++++ 200	1.00 500	5.00	20.0	50.0
2-Hexanone	BUT	Ave	++++ 970278	4199 2320160	21600	87403	234708	++++ 1000	5.00 2500	25.0	100	250
n-Butyl acetate	CBNZ d5	Ave	++++ 987937	4845 2396191	23204	92982	245488	++++ 200	1.00 500	5.00	20.0	50.0
Chlorodibromomethane	CBNZ d5	Ave	++++ 510623	2173 1331880	10015	43742	117568	++++ 200	1.00 500	5.00	20.0	50.0
Ethylene Dibromide	CBNZ d5	Ave	++++ 475919	2448 1215875	11018	47055	117885	++++ 200	1.00 500	5.00	20.0	50.0
Chlorobenzene	CBNZ d5	Ave	++++ 1229142	6763 3113658	30778	122710	308874	++++ 200	1.00 500	5.00	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	++++ 657252	3370 1656518	16314	63813	163350	++++ 200	1.00 500	5.00	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 454722	2073 1185206	9762	40080	108277	++++ 200	1.00 500	5.00	20.0	50.0
m-Xylene & p-Xylene	CBNZ d5	Ave	++++ 781707	4514 2007832	19914	80463	202215	++++ 200	1.00 500	5.00	20.0	50.0
o-Xylene	CBNZ d5	Ave	++++ 804180	4325 2020993	20522	82024	201515	++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
n-Butyl acrylate	CBNZ d5	Ave	++++ 421915	2139 1086316	9588	40541	104902	++++ 200	1.00 500	5.00	20.0	50.0
Styrene	CBNZ d5	Ave	++++ 1400273	7572 3488106	33366	139738	350671	++++ 200	1.00 500	5.00	20.0	50.0
Bromoform	CBNZ d5	Ave	++++ 337489	1257 921147	5762	26732	73334	++++ 200	1.00 500	5.00	20.0	50.0
Amyl acetate (mixed isomers)	DCBd 4	Ave	++++ 1152166	5671 2911135	27264	116915	291831	++++ 200	1.00 500	5.00	20.0	50.0
Isopropylbenzene	CBNZ d5	Ave	++++ 1954403	10809 4865564	49904	197001	487486	++++ 200	1.00 500	5.00	20.0	50.0
Bromobenzene	DCBd 4	Ave	++++ 547850	3090 1422418	13692	53347	132774	++++ 200	1.00 500	5.00	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	++++ 672005	3276 1730998	15731	65677	163403	++++ 200	1.00 500	5.00	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	++++ 2542113	14337 6123342	64960	259677	650039	++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	++++ 144668	785 376478	3628	13508	34837	++++ 200	1.00 500	5.00	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	++++ 1837011	9953 4669756	45940	184924	454681	++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	++++ 1752352	9241 4376970	43118	169505	420309	++++ 200	1.00 500	5.00	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	++++ 1814584	9700 4457934	44154	175178	439529	++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
Butyl Methacrylate	DCBd 4	Ave	++++ 713743	3227 1857726	15963	66185	168959	++++ 200	1.00 500	5.00	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	++++ 1293495	7090 3262653	32388	130184	322907	++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	++++ 1860268	9639 4639682	44439	180961	456709	++++ 200	1.00 500	5.00	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	++++ 1929650	10628 4833209	49635	195651	491806	++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	++++ 1010832	5282 2557865	24283	97090	245368	++++ 200	1.00 500	5.00	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	++++ 1664901	8677 4071140	39960	161116	411794	++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	++++ 1050024	5594 2689129	25252	101985	254577	++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	++++ 1969152	10058 4957957	47814	191974	482150	++++ 200	1.00 500	5.00	20.0	50.0
Benzyl chloride	DCBd 4	Ave	++++ 1245583	4529 3276591	22201	98468	274141	++++ 200	1.00 500	5.00	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	++++ 928253	4918 2293278	22902	89665	226774	++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	++++ 1009974	5246 2589395	24024	96116	240378	++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	++++ 114907	464 309301	2444	9639	25589	++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++	3554	14881	61096	157773	+++++	1.00	5.00	20.0	50.0
			661790	1688922				200	500			
Hexachlorobutadiene	DCBd 4	Ave	+++++	1153	5594	21498	52806	+++++	1.00	5.00	20.0	50.0
			220516	601278				200	500			
Naphthalene	DCBd 4	Ave	+++++	8962	38845	160166	415085	+++++	1.00	5.00	20.0	50.0
			1694112	4325742				200	500			
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++	3246	13311	56533	144726	+++++	1.00	5.00	20.0	50.0
			613422	1598850				200	500			
Dibromofluoromethane (Surr)	FB	Ave	103108	100153	84338	101089	102265	50.0	50.0	50.0	50.0	50.0
			104303	107724				50.0	50.0			
1,2-Dichloroethane-d4 (Surr)	FB	Ave	138853	136337	116439	137585	140365	50.0	50.0	50.0	50.0	50.0
			145667	151860				50.0	50.0			
Toluene-d8 (Surr)	CBNZ d5	Ave	372868	372297	312172	384192	393919	50.0	50.0	50.0	50.0	50.0
			409084	425746				50.0	50.0			
4-Bromofluorobenzene	CBNZ d5	Ave	126223	126472	103084	126311	128266	50.0	50.0	50.0	50.0	50.0
			129852	146141				50.0	50.0			

Curve Type Legend

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-871602/3	J81262.D
Level 2	STD1 460-871602/4	J81263.D
Level 3	STD5 460-871602/5	J81264.D
Level 4	STD20 460-871602/6	J81265.D
Level 5	STD50 460-871602/7	J81266.D
Level 6	STD200 460-871602/8	J81267.D
Level 7	STD500 460-871602/9	J81268.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	++++ 2.1	-2.9	4.5	-4.3	-4.7	5.2	30	50	30	30	30	30
Chloromethane	++++ -2.4	10.3	1.8	-4.3	-5.6	0.2	30	50	30	30	30	30
Vinyl chloride	++++ -8.5	14.7	1.8	-1.7	-3.8	-2.5	30	50	30	30	30	30
Butadiene	6.9 -12.1	10.6	5.2	-2.4	-6.3	-1.8	50 30	30	30	30	30	30
Bromomethane	++++ 8.4	4.5	-4.8	-5.2	-6.7	3.9	30	50	30	30	30	30
Chloroethane	++++ -12.8	7.0	13.8	3.1	-4.3	-6.9	30	50	30	30	30	30
Trichlorofluoromethane	++++ -8.3	11.6	3.6	-1.9	-3.4	-1.6	30	50	30	30	30	30
Pentane	++++ -20.8	-2.8	19.5	9.2	0.4	-5.5	30	50	30	30	30	30
Ethanol	++++ -10.5	9.0	4.9	14.0	2.5	-19.9	30	50	30	30	30	30
Ethyl ether	++++ -14.0	9.9	-0.9	4.9	1.6	-1.5	30	50	30	30	30	30
2-Methyl-1,3-butadiene	++++ -16.0	12.2	9.4	0.7	-0.2	-6.0	30	50	30	30	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ -10.8	4.3	8.6	1.7	-0.8	-3.0	30	50	30	30	30	30
Acrolein	++++ -4.9	15.8	3.3	-8.9	-3.4	-1.7	30	50	30	30	30	30
1,1-Dichloroethene	++++ -14.6	26.3	3.4	-1.4	-5.1	-8.5	30	50	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

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
Acetone	++++ -3.1	20.6	-1.3	-8.0	-9.8	1.5	30	50	30	30	30	30
Iodomethane	++++ 9.4	6.2	-29.9	-9.8	6.5	17.5	30	50	30	30	30	30
Isopropyl alcohol	++++ 8.1	-18.8	3.4	-2.1	12.2	-2.8	30	50	30	30	30	30
Carbon disulfide	++++ -11.6	14.9	-2.3	0.1	1.6	-2.9	30	50	30	30	30	30
3-Chloro-1-propene	++++ -19.6	24.3	0.9	2.2	-1.3	-6.5	30	50	30	30	30	30
Methyl acetate	++++ -13.4	14.0	-3.3	0.8	4.1	-2.2	30	50	30	30	30	30
Acetonitrile	++++ 14.0	-6.8	-4.3	0.7	2.4	-6.0	30	50	30	30	30	30
Methylene Chloride	++++ -12.7	20.2	2.5	0.7	-4.4	-6.3	30	50	30	30	30	30
2-Methyl-2-propanol	++++ 0.7	12.2	-2.9	-3.5	2.0	-8.5	30	50	30	30	30	30
Methyl tert-butyl ether	++++ -7.8	7.5	-4.9	0.5	3.9	0.8	30	50	30	30	30	30
trans-1,2-Dichloroethene	++++ -14.8	27.5	3.3	-3.0	-4.9	-8.1	30	50	30	30	30	30
Acrylonitrile	6.2 -19.7	11.1	4.1	7.3	-1.0	-8.1	50 30	30	30	30	30	30
Hexane	++++ -11.5	-2.6	5.4	5.1	3.6	0.1	30	50	30	30	30	30
Isopropyl ether	++++ -10.2	2.0	-1.4	2.9	4.7	2.0	30	50	30	30	30	30
1,1-Dichloroethane	++++ -17.5	16.5	7.9	0.9	-1.3	-6.3	30	50	30	30	30	30
Vinyl acetate	++++ -20.8	4.4	4.9	9.3	2.8	-0.7	30	50	30	30	30	30
2,2-Dichloropropane	++++ -16.1	46.4	-3.1	-7.7	-8.8	-10.6	30	50	30	30	30	30
cis-1,2-Dichloroethene	++++ -12.2	22.0	3.6	-2.7	-4.7	-6.1	30	50	30	30	30	30
2-Butanone (MEK)	++++ -5.0	21.9	0.5	-4.3	-10.6	-2.6	30	50	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

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
Ethyl acetate	++++ -0.4	7.1	-2.9	1.6	-3.3	-2.2	30	50	30	30	30	30
Chlorobromomethane	++++ -14.9	31.6	-1.2	-1.8	-4.6	-9.1	30	50	30	30	30	30
Tetrahydrofuran	++++ -5.8	-20.5	14.9	9.2	3.1	-0.9	30	50	30	30	30	30
Chloroform	++++ -16.7	19.0	5.0	0.5	-2.5	-5.3	30	50	30	30	30	30
Cyclohexane	++++ -12.3	7.9	8.9	1.3	-1.3	-4.6	30	50	30	30	30	30
1,1,1-Trichloroethane	++++ -10.0	14.9	3.1	-1.1	-3.5	-3.4	30	50	30	30	30	30
Carbon tetrachloride	++++ -3.1	6.0	1.2	-1.9	-1.8	-0.3	30	50	30	30	30	30
1,1-Dichloropropene	++++ -7.1	9.4	1.6	0.6	-1.3	-3.2	30	50	30	30	30	30
Benzene	++++ -15.7	17.3	3.7	3.2	-1.6	-7.0	30	50	30	30	30	30
Isopropyl acetate	++++ -4.6	0.7	-4.8	0.5	5.5	2.8	30	50	30	30	30	30
1,2-Dichloroethane	++++ -10.1	16.1	1.1	0.9	-3.1	-4.9	30	50	30	30	30	30
n-Heptane	++++ -10.8	14.3	1.1	-1.2	-1.2	-2.3	30	50	30	30	30	30
n-Butanol	++++ 18.2	-29.2	-7.7	0.3	16.6	1.7	30	50	30	30	30	30
Trichloroethene	++++ -10.2	27.4	-0.4	-5.7	-4.4	-6.8	30	50	30	30	30	30
Methylcyclohexane	++++ -8.0	-0.6	4.2	2.9	1.5	0.0	30	50	30	30	30	30
Ethyl acrylate	++++ -8.2	10.1	-3.3	-0.6	2.4	-0.3	30	50	30	30	30	30
1,2-Dichloropropane	++++ -12.2	23.1	0.2	-0.9	-4.0	-6.2	30	50	30	30	30	30
Methyl methacrylate	++++ -3.0	6.5	-4.9	-0.4	0.4	1.4	30	50	30	30	30	30
1,4-Dioxane	++++ -0.1	-33.9	29.7	-1.1	13.2	-7.9	30	50	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

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
Dibromomethane	++++ -10.1	26.8	-2.6	-3.5	-4.3	-6.3	30	50	30	30	30	30
n-Propyl acetate	++++ -1.2	5.4	-11.8	0.0	4.4	3.2	30	50	30	30	30	30
Dichlorobromomethane	++++ -1.4	12.5	-3.3	-3.3	-3.6	-0.8	30	50	30	30	30	30
2-Chloroethyl vinyl ether	++++ 0.2	0.2	-4.6	-3.7	3.4	4.5	30	50	30	30	30	30
Epichlorohydrin	16.6 -2.1	-4.4	-0.9	-3.3	-3.5	-2.4	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	++++ -3.7	2.6	-2.0	1.9	-0.5	1.7	30	50	30	30	30	30
4-Methyl-2-pentanone (MIBK)	++++ -7.2	6.5	0.9	3.5	-1.7	-1.9	30	50	30	30	30	30
Toluene	++++ -10.5	13.8	0.4	2.1	-2.9	-2.9	30	50	30	30	30	30
trans-1,3-Dichloropropene	++++ 0.5	0.5	-5.9	-0.4	0.5	4.8	30	50	30	30	30	30
1,1,2-Trichloroethane	++++ -4.7	4.1	-0.6	2.3	-1.4	0.4	30	50	30	30	30	30
Tetrachloroethene	++++ -6.4	6.9	0.3	3.3	-2.7	-1.5	30	50	30	30	30	30
1,3-Dichloropropane	++++ -7.3	3.9	-0.8	4.5	-1.2	0.9	30	50	30	30	30	30
2-Hexanone	++++ -3.3	3.6	3.1	-1.1	-1.9	-0.5	30	50	30	30	30	30
n-Butyl acetate	++++ -8.0	4.2	0.4	0.4	1.6	1.5	30	50	30	30	30	30
Chlorodibromomethane	++++ 5.9	-3.2	-10.2	-2.1	0.9	8.7	30	50	30	30	30	30
Ethylene Dibromide	++++ -5.2	6.9	-3.2	3.2	-0.9	-0.7	30	50	30	30	30	30
Chlorobenzene	++++ -8.6	11.2	1.8	1.4	-2.2	-3.5	30	50	30	30	30	30
Ethylbenzene	++++ -7.1	5.9	3.1	0.7	-1.2	-1.4	30	50	30	30	30	30
1,1,1,2-Tetrachloroethane	++++ 2.2	0.1	-5.1	-2.7	0.7	4.9	30	50	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

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
m-Xylene & p-Xylene	++++ -9.5	13.9	1.1	2.0	-1.7	-5.8	30	50	30	30	30	30
o-Xylene	++++ -9.4	8.6	3.6	3.4	-2.6	-3.6	30	50	30	30	30	30
n-Butyl acrylate	++++ -3.7	6.2	-4.2	1.2	0.3	0.1	30	50	30	30	30	30
Styrene	++++ -8.8	10.9	-1.7	2.8	-1.1	-2.1	30	50	30	30	30	30
Bromoform	++++ 17.1	-10.5	-17.5	-4.4	0.5	14.8	30	50	30	30	30	30
Amyl acetate (mixed isomers)	++++ -12.0	3.9	-0.3	7.0	3.3	-1.8	30	50	30	30	30	30
Isopropylbenzene	++++ -10.4	11.5	3.6	2.1	-3.2	-3.7	30	50	30	30	30	30
Bromobenzene	++++ -11.7	16.3	2.8	0.2	-3.5	-4.1	30	50	30	30	30	30
1,1,2,2-Tetrachloroethane	++++ -9.0	4.4	0.0	4.5	0.5	-0.4	30	50	30	30	30	30
N-Propylbenzene	++++ -18.9	15.1	4.0	4.1	0.8	-5.1	30	50	30	30	30	30
1,2,3-Trichloropropane	++++ -10.2	13.5	4.6	-2.5	-2.7	-2.7	30	50	30	30	30	30
2-Chlorotoluene	++++ -13.4	11.9	3.0	3.8	-1.3	-4.0	30	50	30	30	30	30
1,3,5-Trimethylbenzene	++++ -13.0	11.3	3.6	2.0	-2.2	-1.8	30	50	30	30	30	30
4-Chlorotoluene	++++ -14.4	12.9	2.5	1.8	-1.2	-1.7	30	50	30	30	30	30
Butyl Methacrylate	++++ -5.0	0.0	-1.3	2.4	1.1	2.9	30	50	30	30	30	30
tert-Butylbenzene	++++ -14.3	12.9	2.9	3.5	-0.7	-4.2	30	50	30	30	30	30
1,2,4-Trimethylbenzene	++++ -12.8	9.8	1.0	2.9	0.5	-1.4	30	50	30	30	30	30
sec-Butylbenzene	++++ -15.7	12.4	4.7	3.3	0.4	-5.1	30	50	30	30	30	30
1,3-Dichlorobenzene	++++ -11.6	10.7	1.5	1.6	-0.7	-1.5	30	50	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Edison Job No.: 460-268503-1 Analy Batch No.: 871602

SDG No.: _____

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2022 23:30 Calibration End Date: 10/13/2022 02:01 Calibration ID: 91516

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
4-Isopropyltoluene	++++ -14.4	10.5	1.5	2.5	1.3	-1.4	30	50	30	30	30	30
1,4-Dichlorobenzene	++++ -11.2	12.0	0.9	2.0	-1.6	-2.2	30	50	30	30	30	30
1,2,3-Trimethylbenzene	++++ -12.1	8.1	2.5	3.0	0.1	-1.6	30	50	30	30	30	30
Benzyl chloride	++++ 6.8	-10.5	-12.5	-2.9	4.6	14.5	30	50	30	30	30	30
n-Butylbenzene	++++ -14.2	11.6	3.7	1.6	-0.6	-2.0	30	50	30	30	30	30
1,2-Dichlorobenzene	++++ -9.9	10.6	1.1	1.2	-2.1	-0.9	30	50	30	30	30	30
1,2-Dibromo-3-Chloropropane	++++ 3.0	-6.3	-1.6	-2.8	-0.2	7.9	30	50	30	30	30	30
1,2,4-Trichlorobenzene	++++ -9.6	15.4	-3.6	-1.0	-1.1	-0.1	30	50	30	30	30	30
Hexachlorobutadiene	++++ -6.7	8.4	4.9	1.0	-4.1	-3.5	30	50	30	30	30	30
Naphthalene	++++ -10.3	12.6	-2.6	0.5	0.7	-1.0	30	50	30	30	30	30
1,2,3-Trichlorobenzene	++++ -7.0	14.5	-6.3	-0.4	-1.4	0.7	30	50	30	30	30	30
Dibromofluoromethane (Surr)	6.1 0.5	4.9	-14.5	1.0	0.4	1.7	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	3.9 3.0	3.8	-14.2	0.0	0.2	3.3	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.8 2.7	0.6	-15.1	4.4	2.5	5.6	50 30	30	30	30	30	30
4-Bromofluorobenzene	1.2 6.3	3.0	-15.5	3.4	0.6	1.0	50 30	30	30	30	30	30

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 12-Oct-2022 23:30:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD7
 Misc. Info.: 460-0151655-003
 Operator ID: Instrument ID: CVOAMS8
 Sublist: chrom-8260_W8*sub61
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 14-Oct-2022 16:01:44 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: HVW2

Date: 12-Oct-2022 23:54:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Butadiene	54	1.375	1.376	-0.001	90	809	0.2500	0.2671	
* 30 TBA-d9 (IS)	65	2.409	2.410	-0.001	75	177682	1000.0	1000.0	
35 Acrylonitrile	53	2.641	2.635	0.006	86	1806	2.00	2.12	
* 43 2-Butanone-d5	46	3.322	3.323	-0.001	85	260052	250.0	250.0	
\$ 55 Dibromofluoromethane (Surr)	113	3.754	3.754	0.000	95	103108	50.0	53.0	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.082	4.083	-0.001	0	138853	50.0	52.0	
* 66 Fluorobenzene	96	4.344	4.345	-0.001	97	447005	50.0	50.0	
* 72 1,4-Dioxane-d8	96	5.056	5.056	0.000	0	23304	1000.0	1000.0	
80 Epichlorohydrin	57	5.749	5.750	-0.001	63	1218	5.00	5.83	
\$ 83 Toluene-d8 (Surr)	98	6.060	6.060	0.000	97	372868	50.0	49.6	
* 94 Chlorobenzene-d5	117	8.012	8.013	-0.001	92	351311	50.0	50.0	
96 Ethylbenzene	106	8.158	8.153	0.005	1	71		0.0220	
\$ 105 4-Bromofluorobenzene	174	9.332	9.333	-0.001	84	126223	50.0	50.6	
* 121 1,4-Dichlorobenzene-d4	152	10.385	10.385	0.000	98	190101	50.0	50.0	
S 138 Total BTEX	1				0			0.0220	

QC Flag Legend

Processing Flags

Reagents:

8260MIX1COMB_00160	Amount Added: 0.00	Units: uL	
524freon_00058	Amount Added: 0.00	Units: uL	
ACROLEIN W_00145	Amount Added: 0.00	Units: uL	
GASES Li_00497	Amount Added: 2.50	Units: uL	
14DIOXINTER_00146	Amount Added: 0.00	Units: uL	
GAS Hi_00426	Amount Added: 0.00	Units: uL	
ACRY/EPIH MIX_00105	Amount Added: 20.00	Units: uL	
MIX 2 Hi_00128	Amount Added: 0.00	Units: uL	
MIX I Hi_00155	Amount Added: 0.00	Units: uL	
8FreonHi_00049	Amount Added: 0.00	Units: uL	
Ethanol mix_00069	Amount Added: 0.00	Units: uL	
8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00232	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: STD7

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

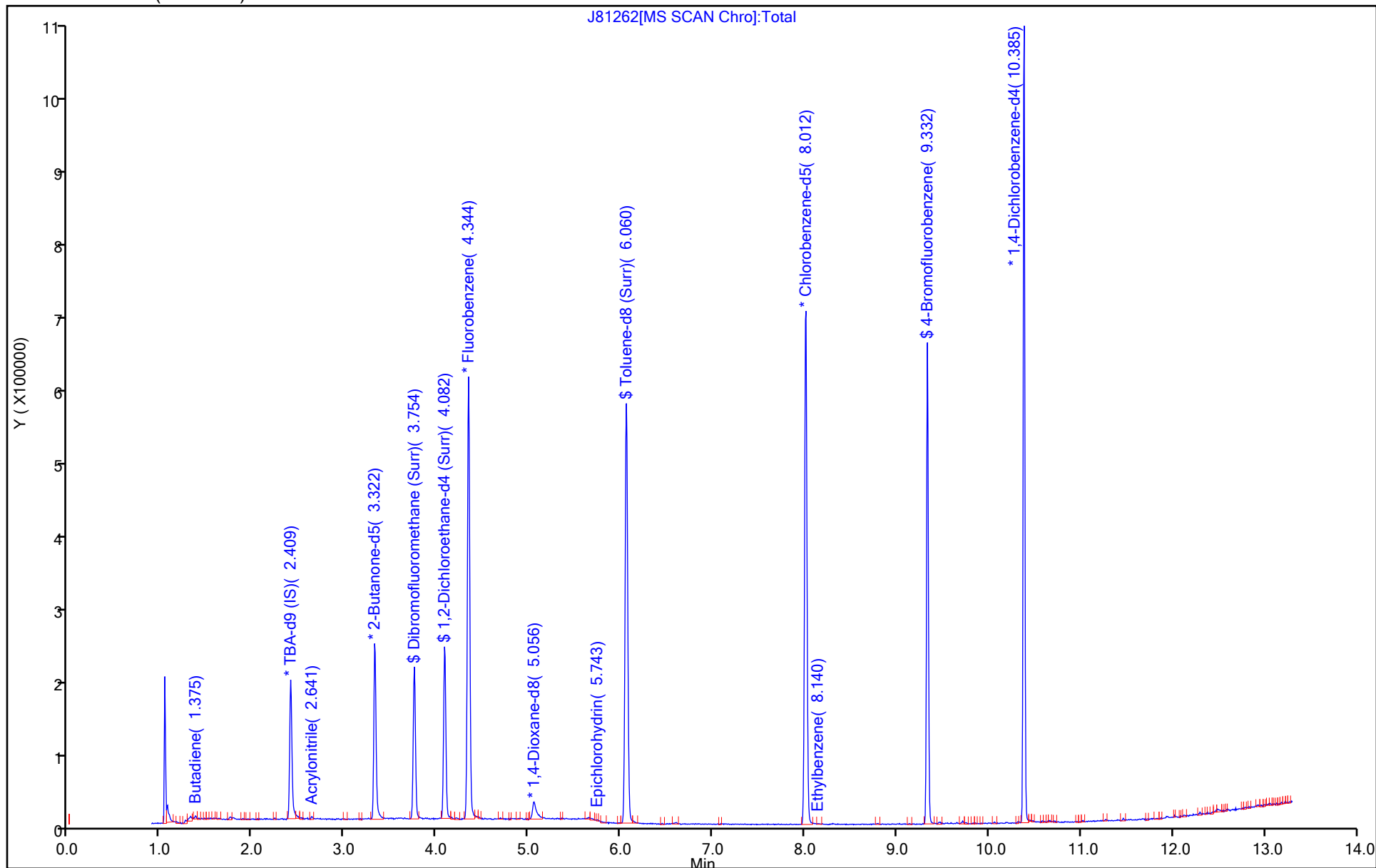
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

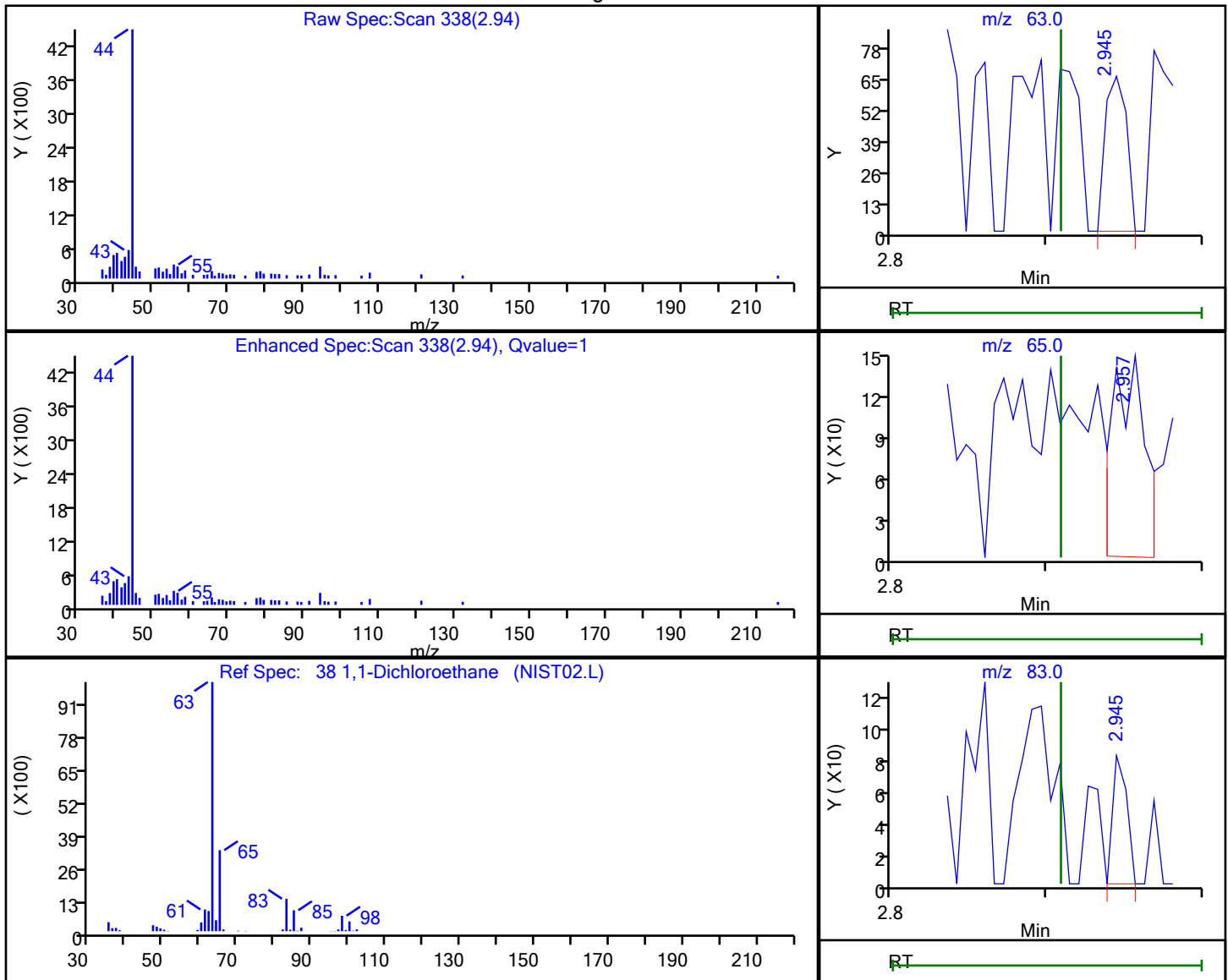
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

38 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



RT	Mass	Response	Amount
2.94	63.00	63	0.012472
2.96	65.00	212	
2.94	83.00	51	

Reviewer: W9CM, 14-Oct-2022 15:01:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

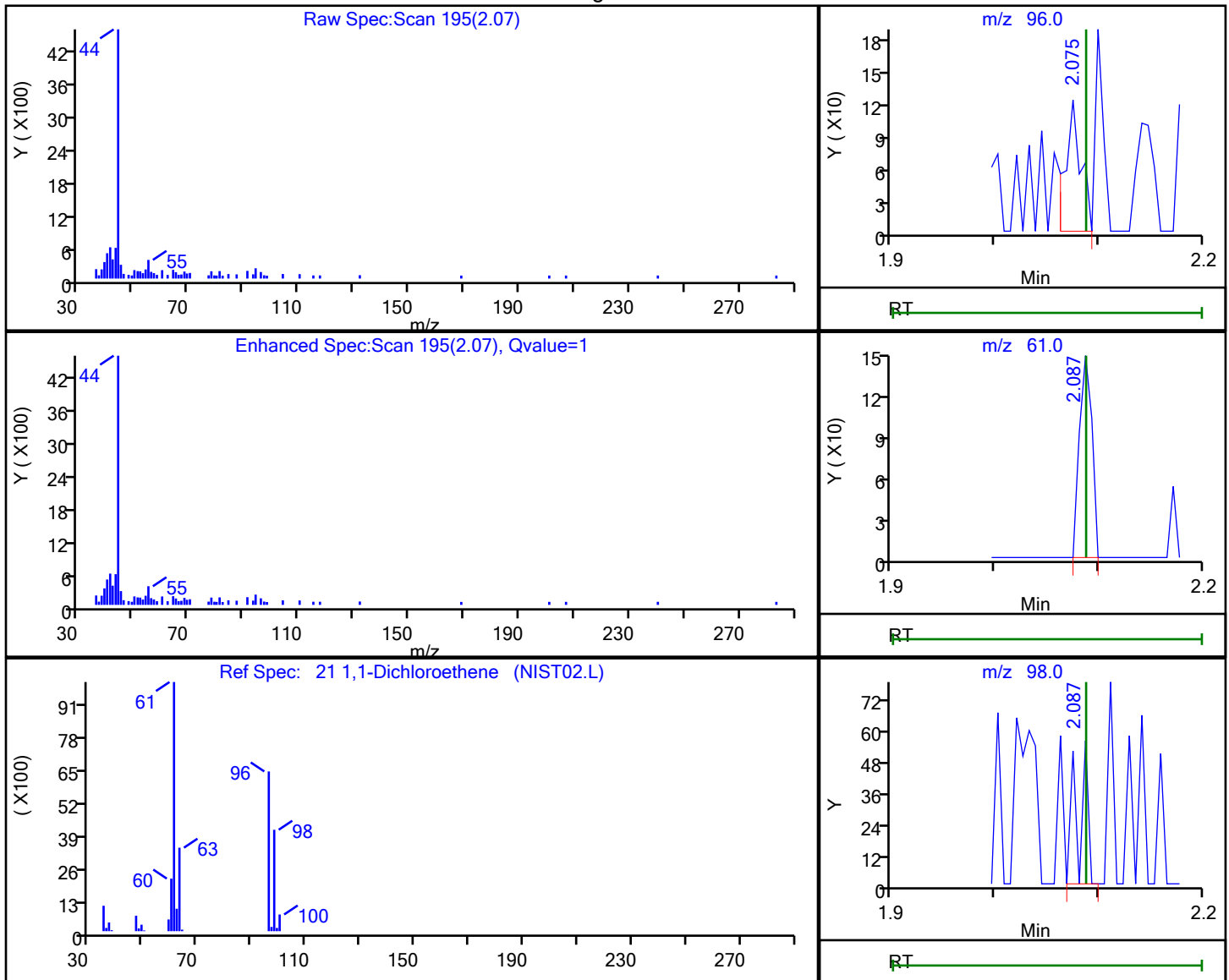
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



RT	Mass	Response	Amount
2.07	96.00	124	0.062493
2.09	61.00	120	
2.09	98.00	39	
2.07	63.00	35	

Reviewer: W9CM, 14-Oct-2022 15:00:49

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

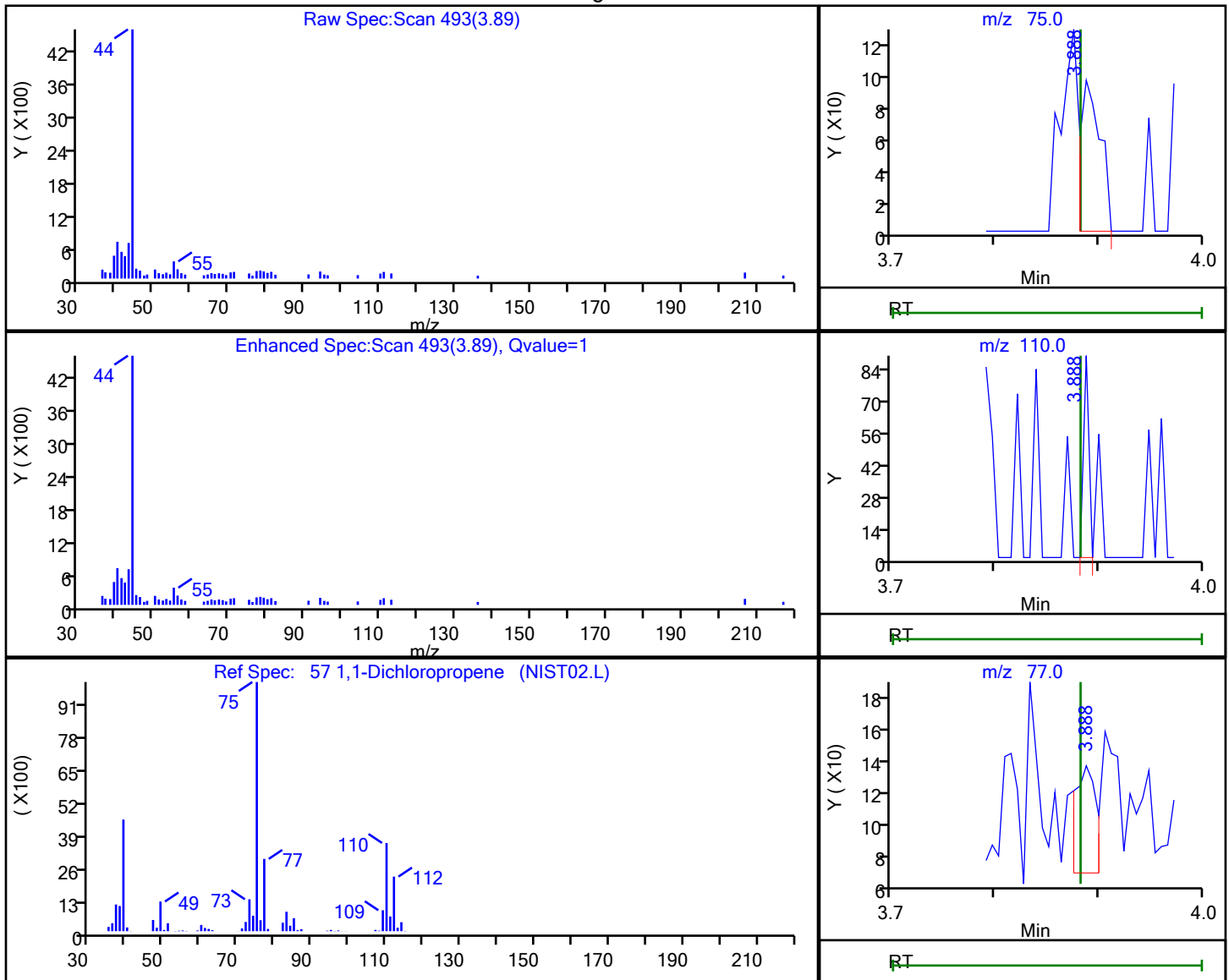
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

57 1,1-Dichloropropene, CAS: 563-58-6

Processing Results



RT	Mass	Response	Amount
3.89	75.00	124	0.037037
3.89	110.00	33	
3.89	77.00	100	

Reviewer: W9CM, 14-Oct-2022 15:02:00

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

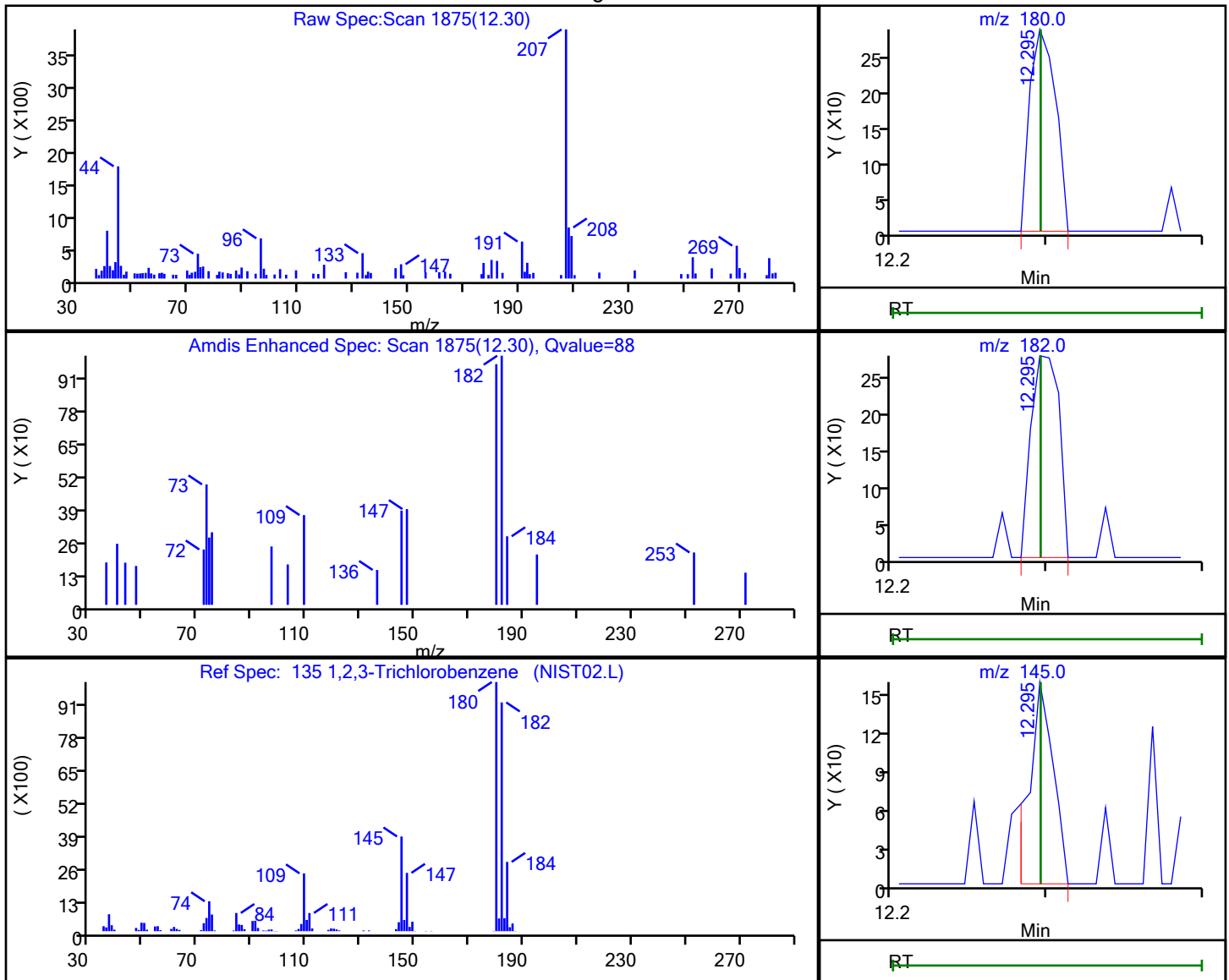
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

135 1,2,3-Trichlorobenzene, CAS: 87-61-6

Processing Results



RT	Mass	Response	Amount
12.30	180.00	331	0.116107
12.30	182.00	341	
12.30	145.00	173	

Reviewer: W9CM, 14-Oct-2022 15:03:34

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

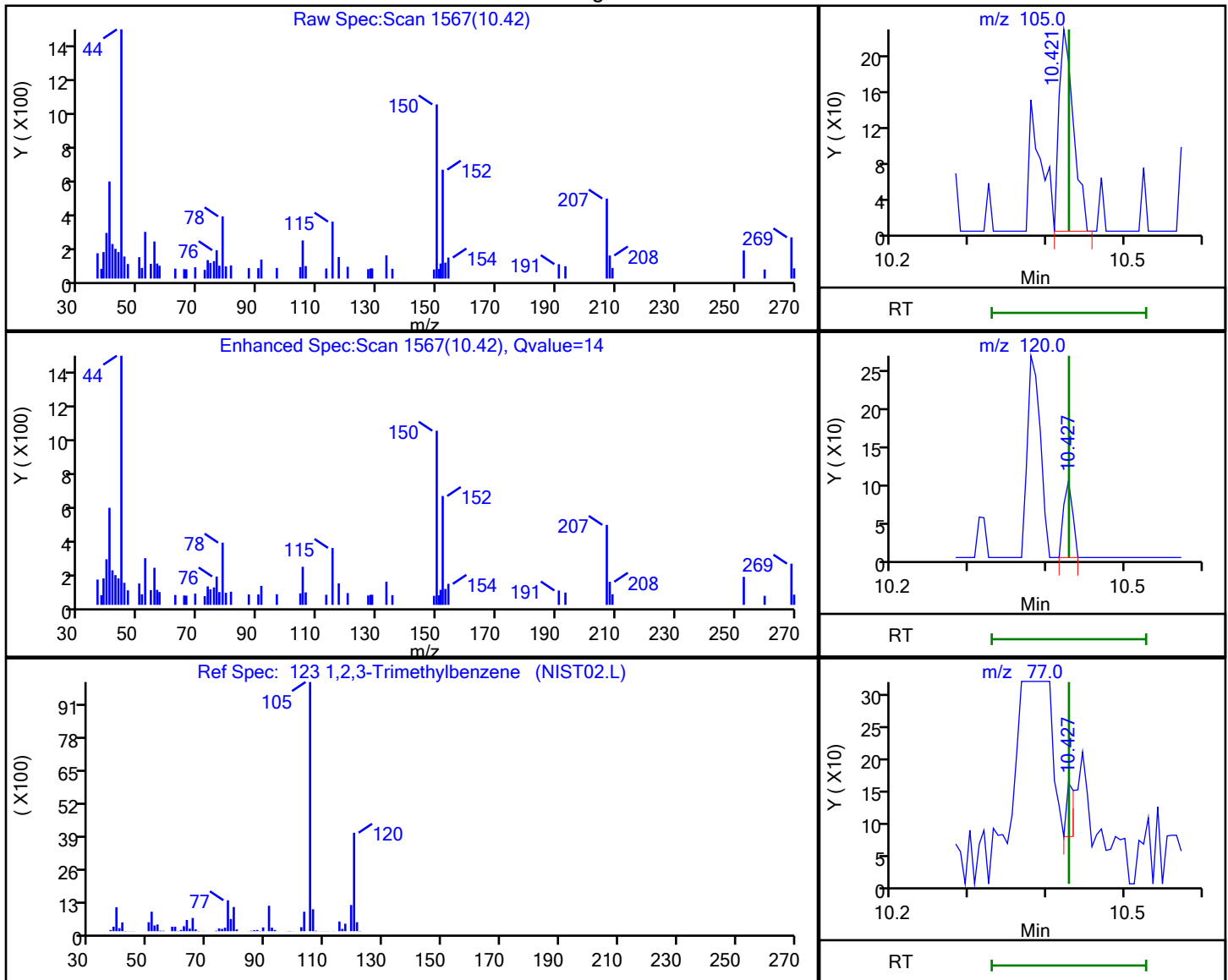
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

123 1,2,3-Trimethylbenzene, CAS: 526-73-8

Processing Results



RT	Mass	Response	Amount
10.42	105.00	288	0.030779
10.43	120.00	82	
10.43	77.00	58	

Reviewer: W9CM, 14-Oct-2022 15:03:06

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

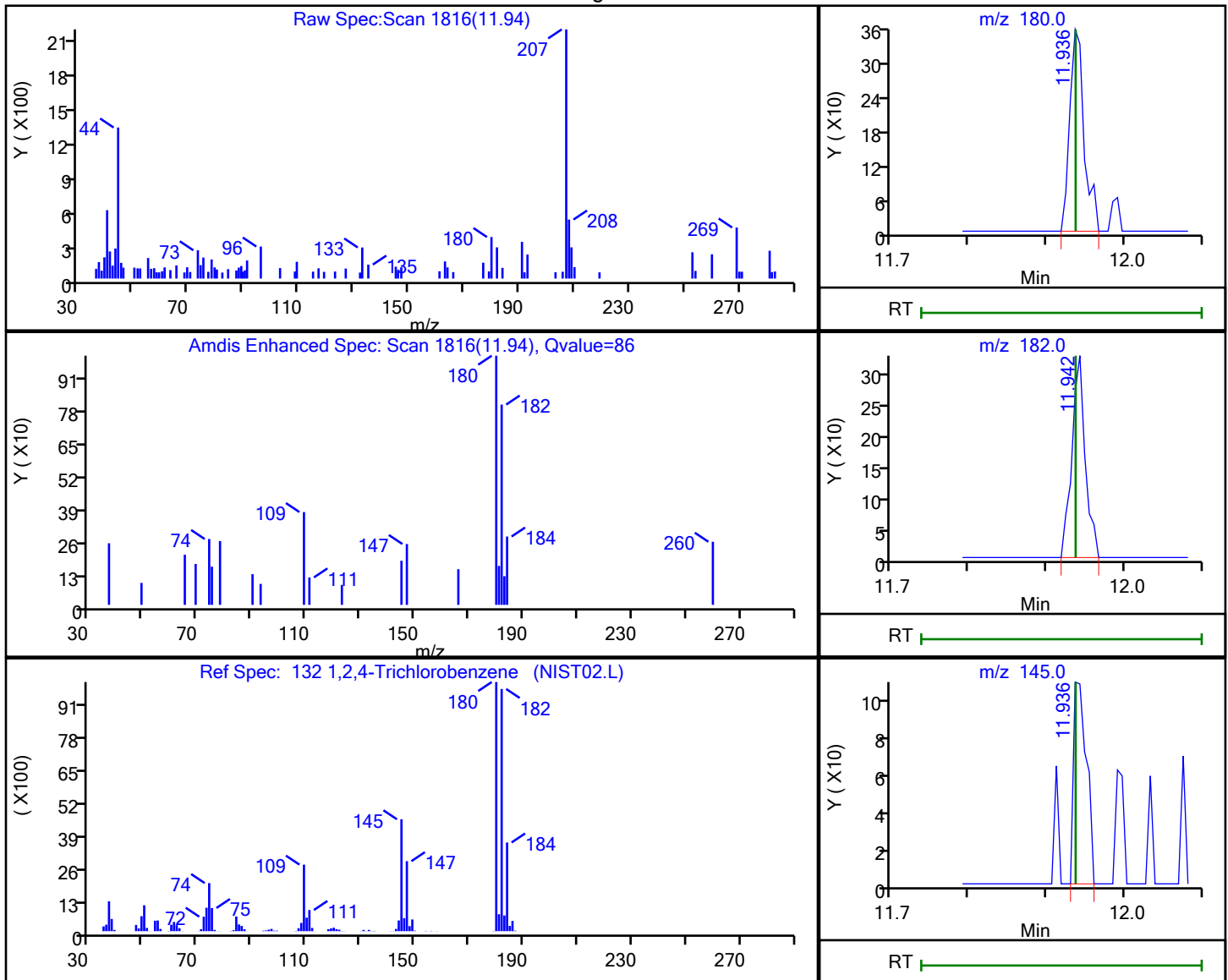
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

132 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
11.94	180.00	458	0.147840
11.94	182.00	389	
11.94	145.00	118	

Reviewer: W9CM, 14-Oct-2022 15:03:27

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

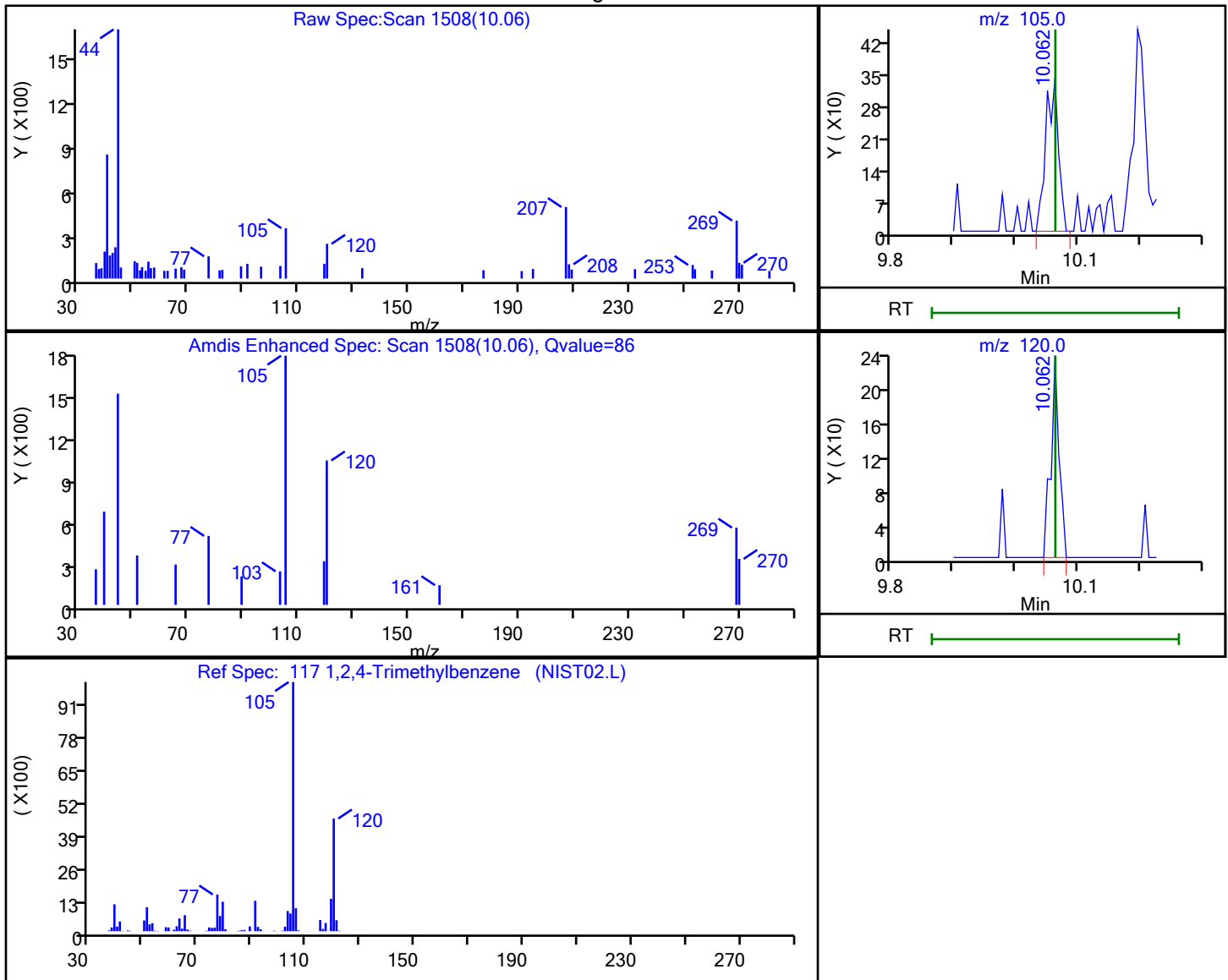
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

117 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
10.06	105.00	479	0.054267
10.06	120.00	218	

Reviewer: W9CM, 14-Oct-2022 15:02:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

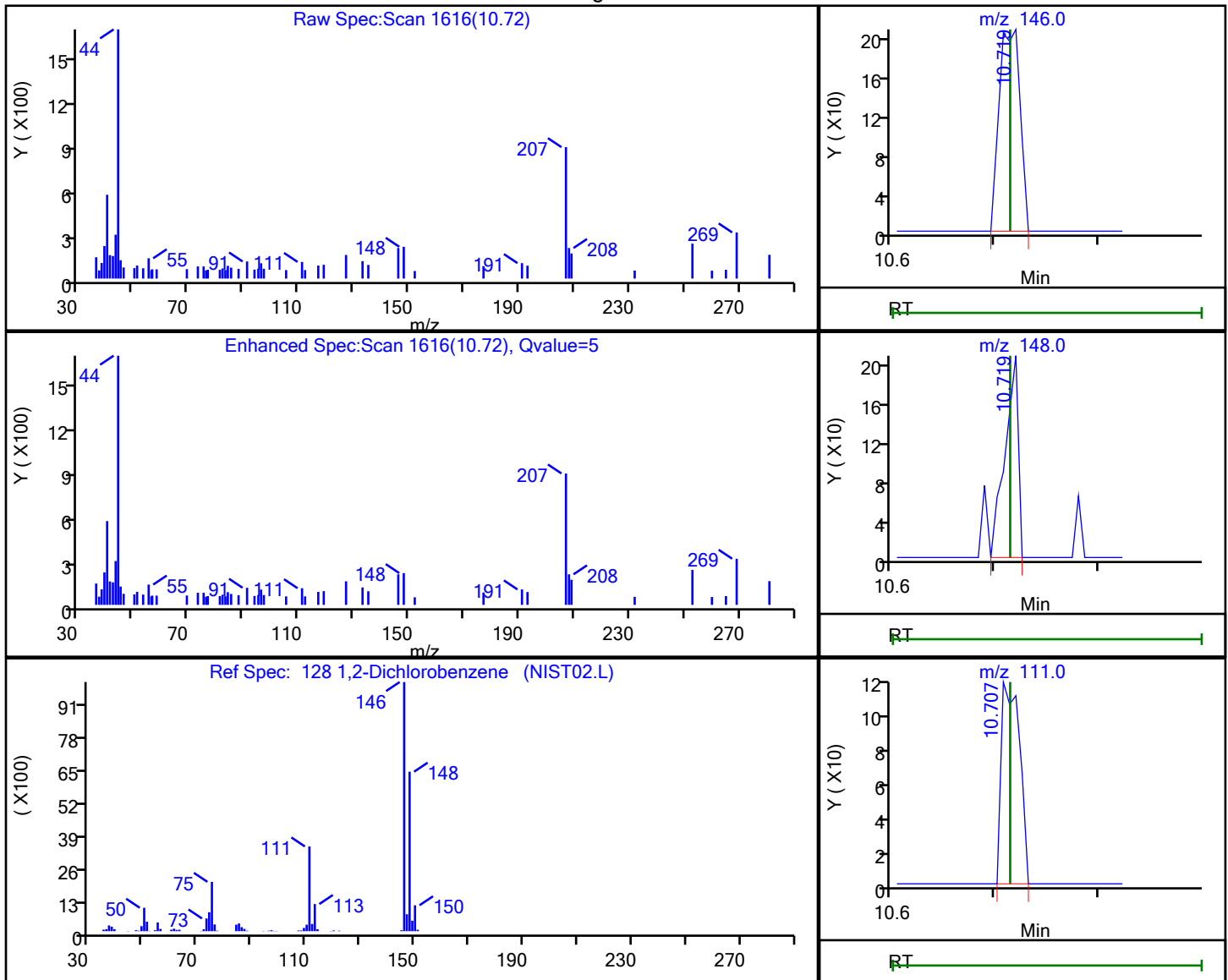
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

128 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



RT	Mass	Response	Amount
10.72	146.00	284	0.059564
10.72	148.00	187	
10.71	111.00	145	

Reviewer: W9CM, 14-Oct-2022 15:03:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

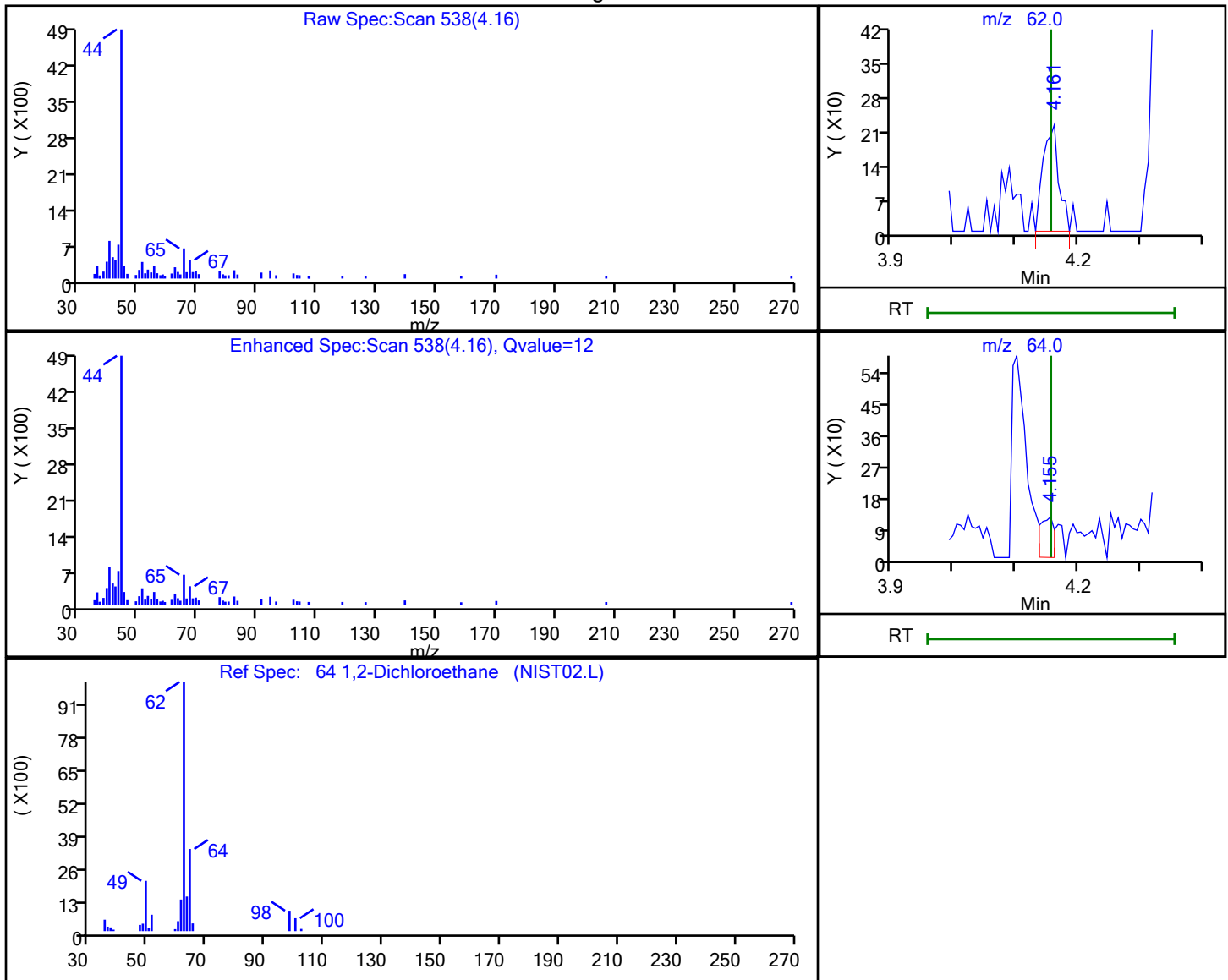
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

64 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.16	62.00	390	0.104253
4.16	64.00	184	

Reviewer: W9CM, 14-Oct-2022 15:02:08

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

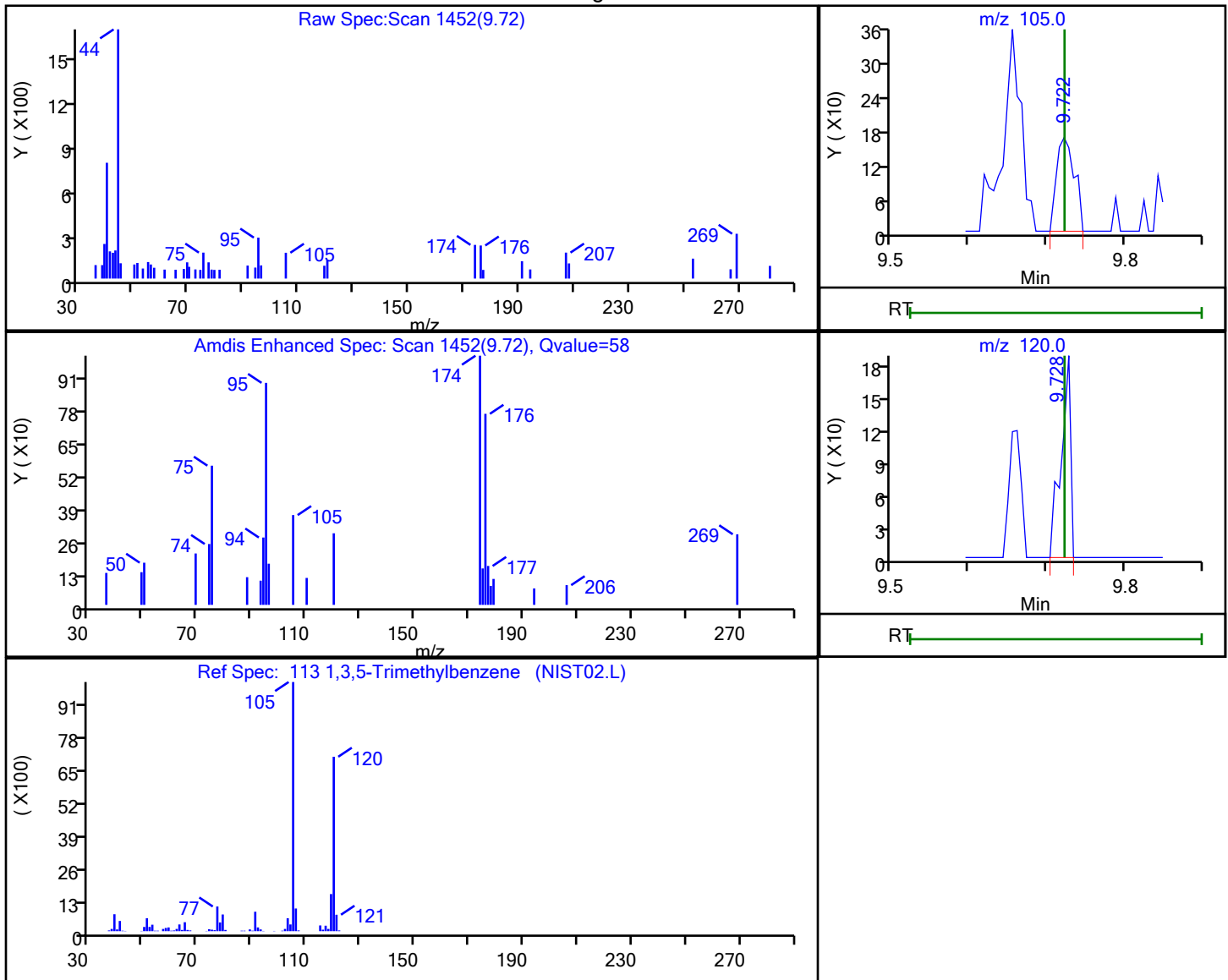
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

113 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
9.72	105.00	269	0.032233
9.73	120.00	159	

Reviewer: W9CM, 14-Oct-2022 15:02:51

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

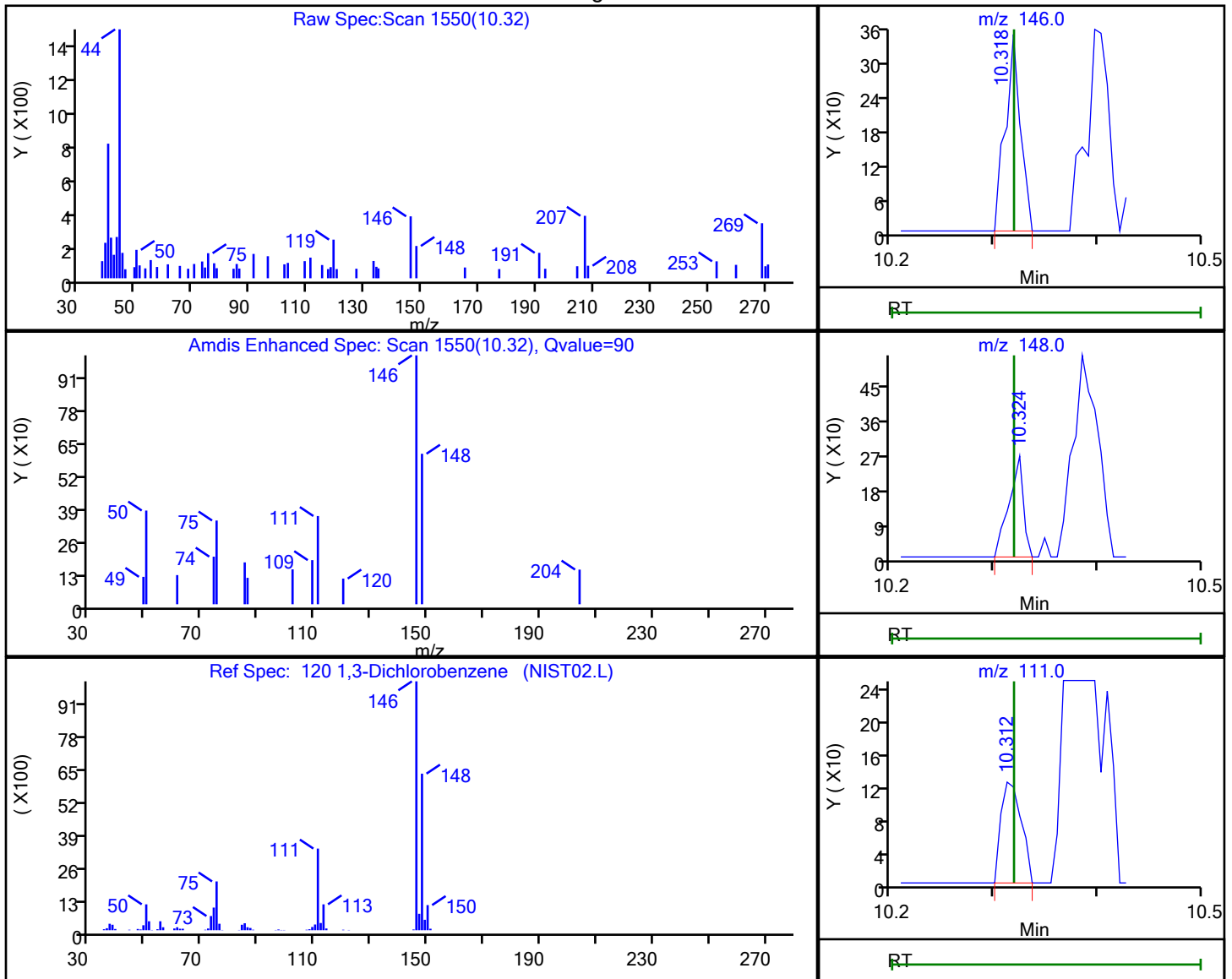
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

120 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
10.32	146.00	359	0.074808
10.32	148.00	258	
10.31	111.00	169	

Reviewer: W9CM, 14-Oct-2022 15:03:01

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

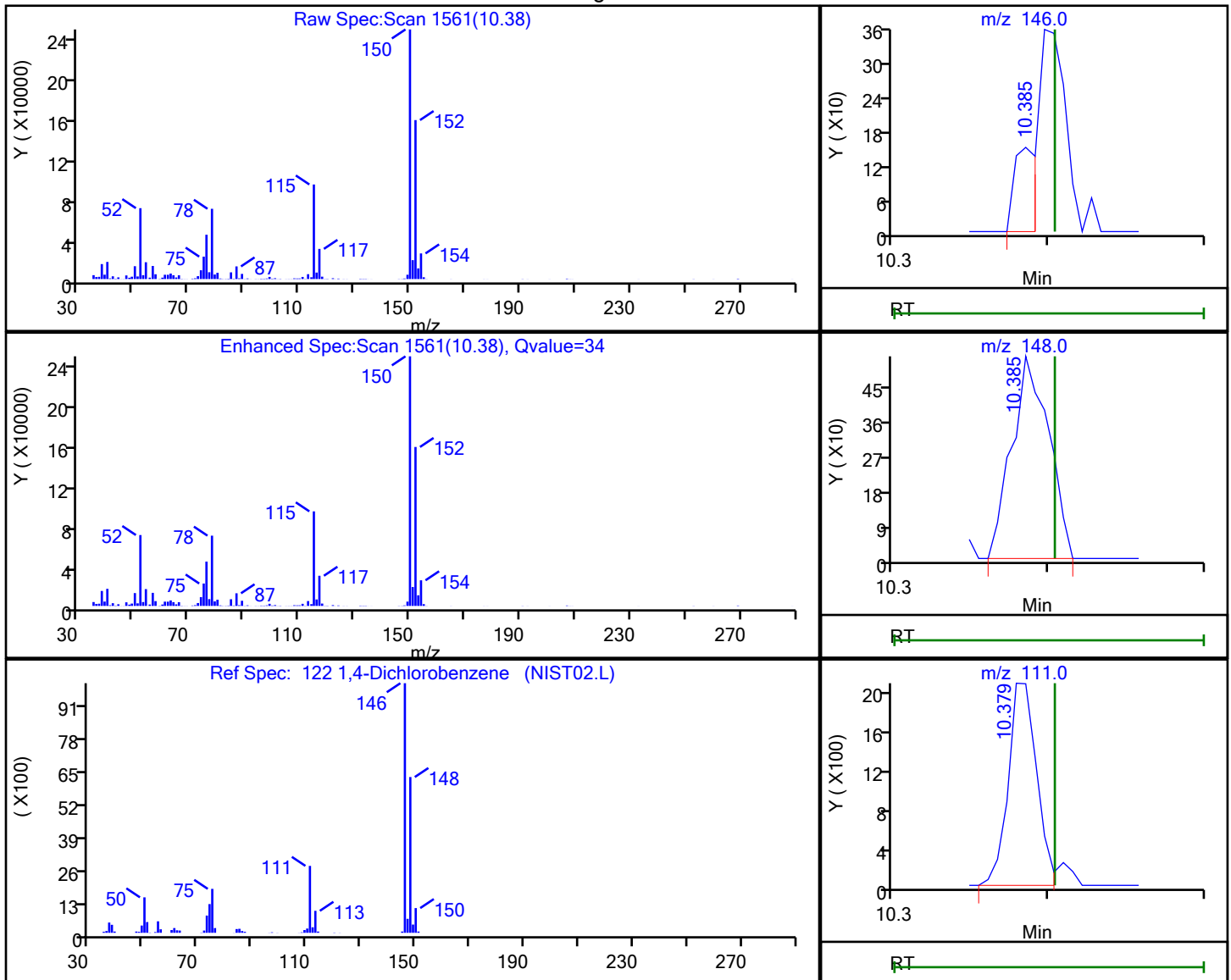
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

122 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
10.38	146.00	153	0.030470
10.38	148.00	881	
10.38	111.00	2659	

Reviewer: W9CM, 14-Oct-2022 15:03:05

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

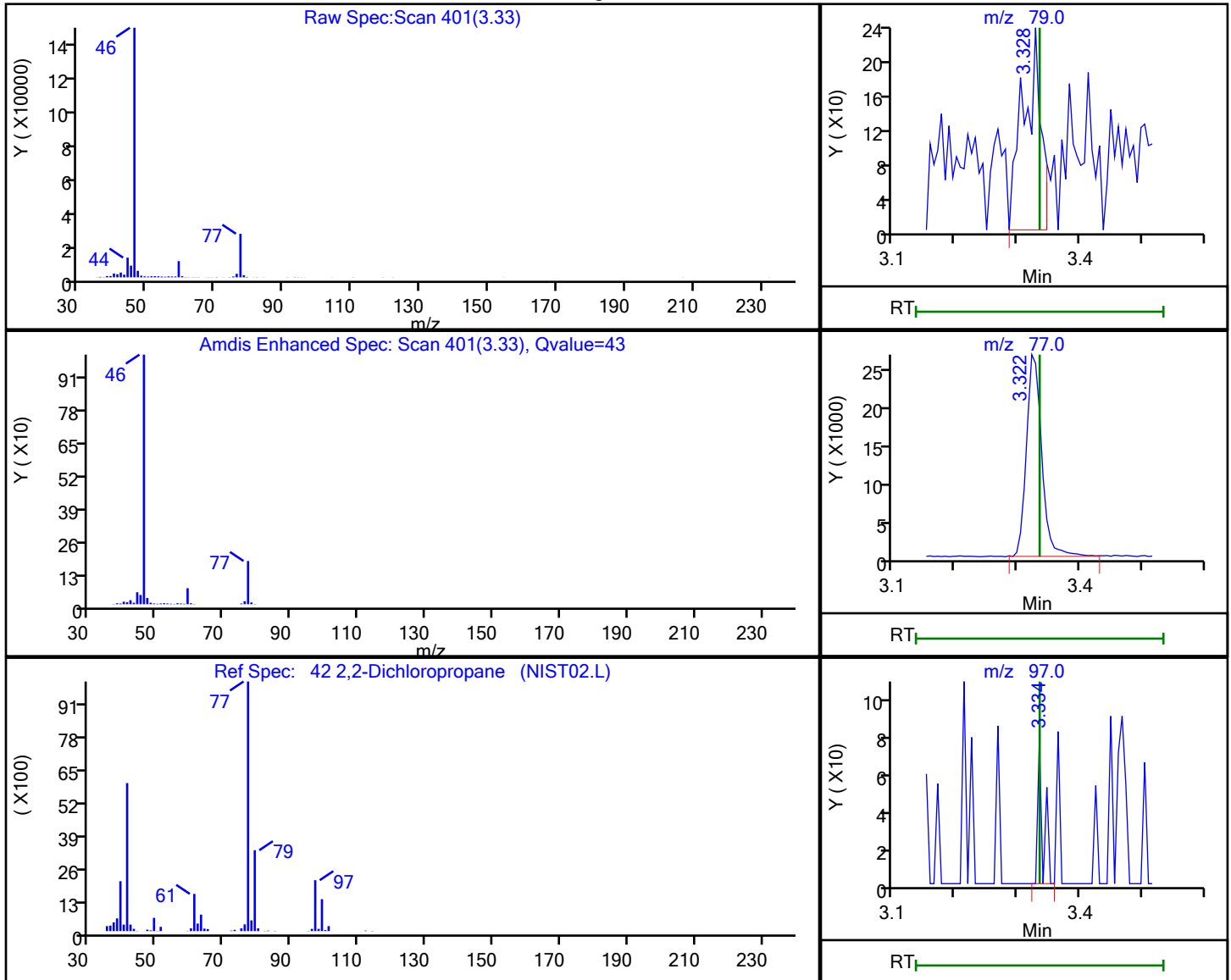
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

42 2,2-Dichloropropane, CAS: 594-20-7

Processing Results



RT	Mass	Response	Amount
3.33	79.00	464	0.384535
3.32	77.00	44855	
3.33	97.00	45	

Reviewer: W9CM, 14-Oct-2022 15:01:39

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

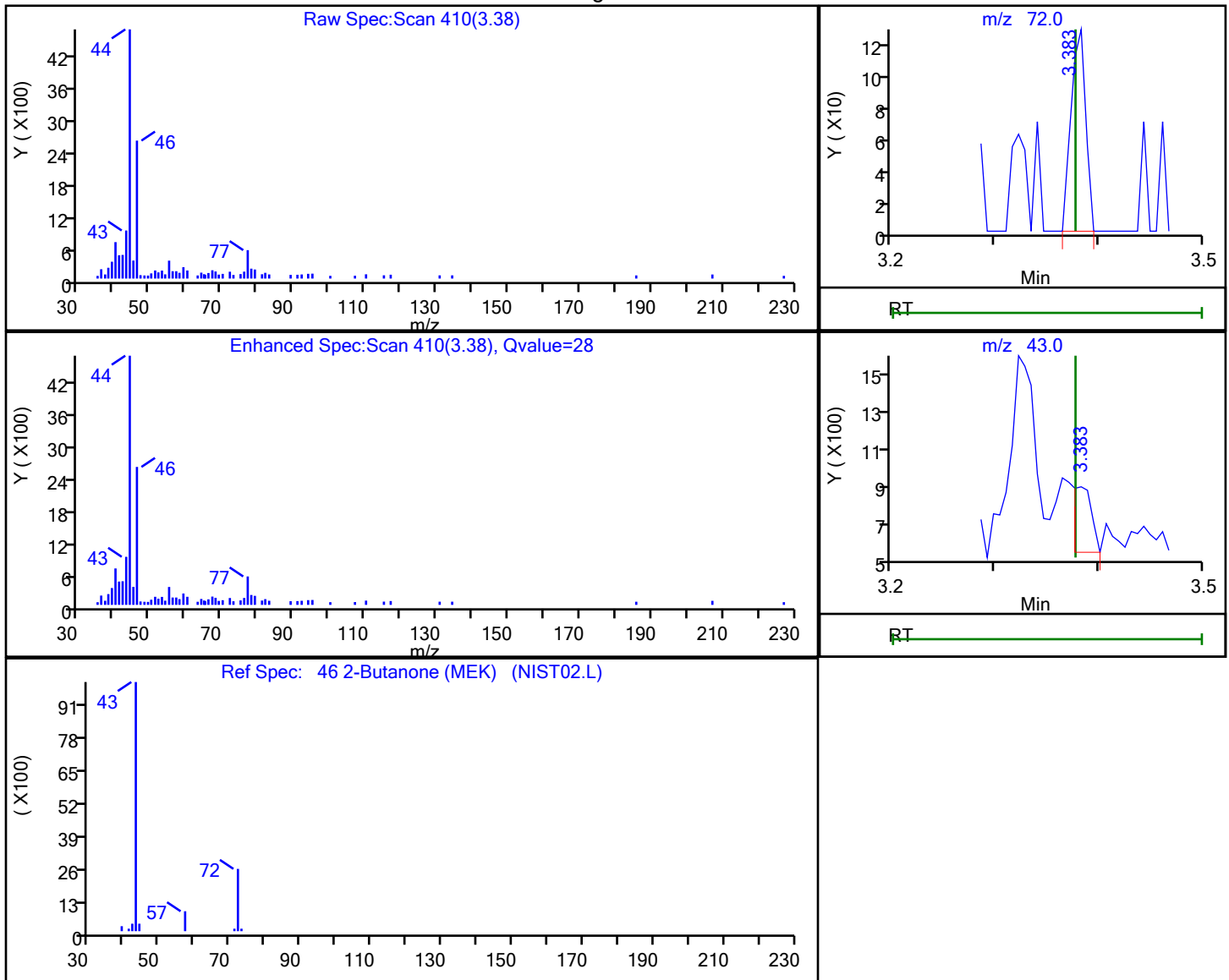
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector MS SCAN

46 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
3.38	72.00	128	0.626039
3.38	43.00	415	

Reviewer: W9CM, 14-Oct-2022 15:01:43

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

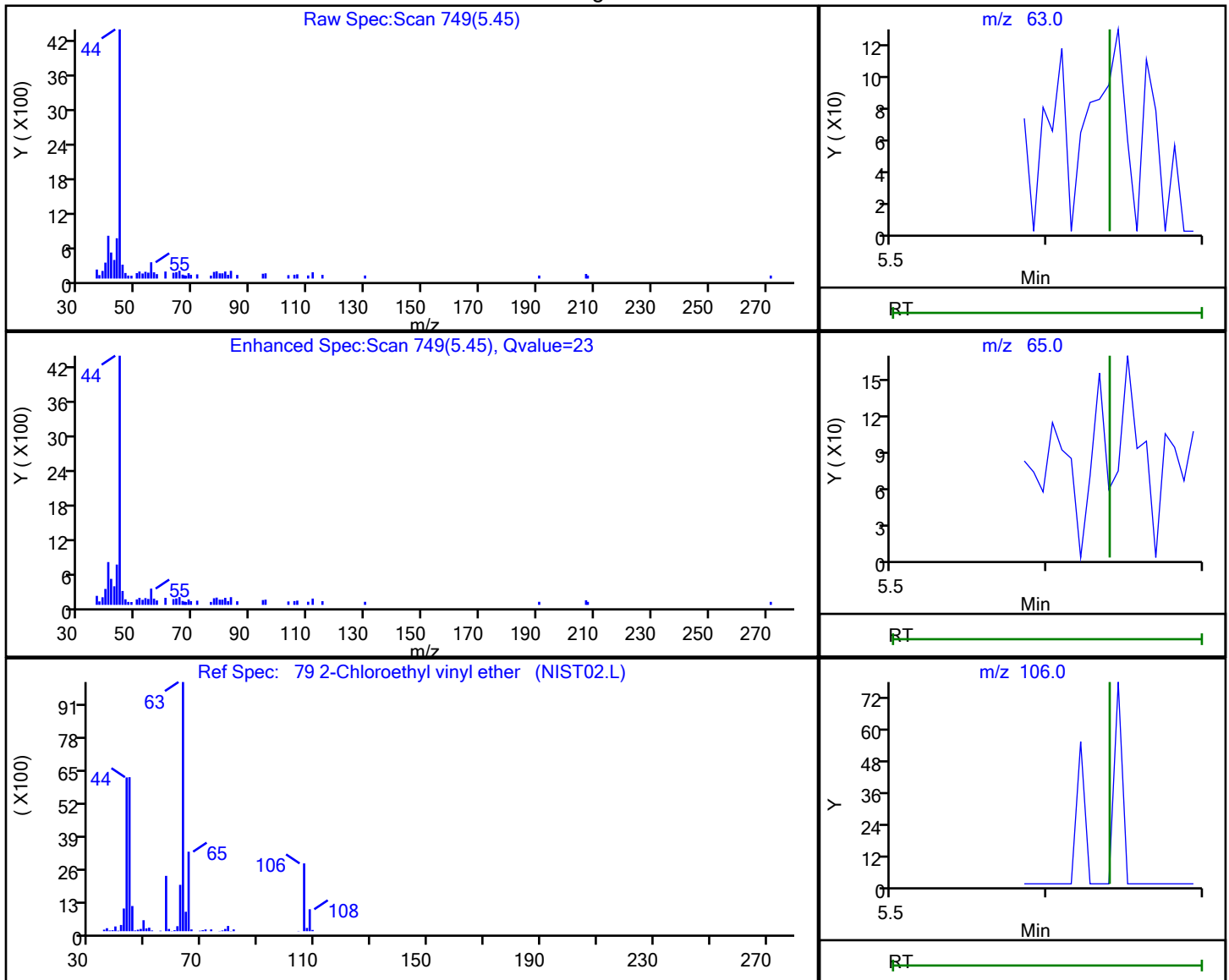
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

79 2-Chloroethyl vinyl ether, CAS: 110-75-8

Processing Results



RT	Mass	Response	Amount
5.45	63.00	85	0.051710
5.45	65.00	75	
5.45	106.00	27	

Reviewer: W9CM, 14-Oct-2022 15:02:24

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

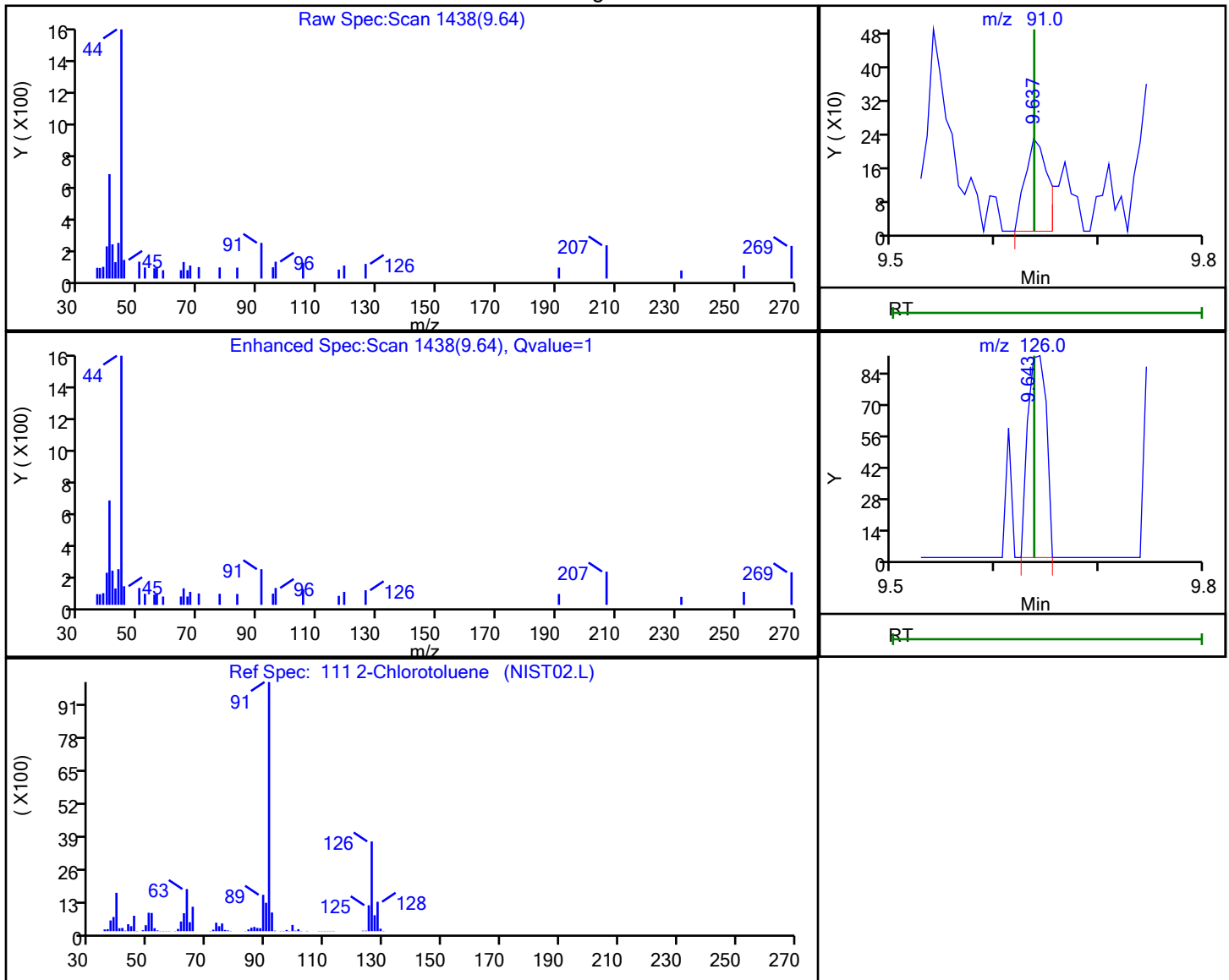
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

111 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
9.64	91.00	335	0.037446
9.64	126.00	115	

Reviewer: W9CM, 14-Oct-2022 15:02:49

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

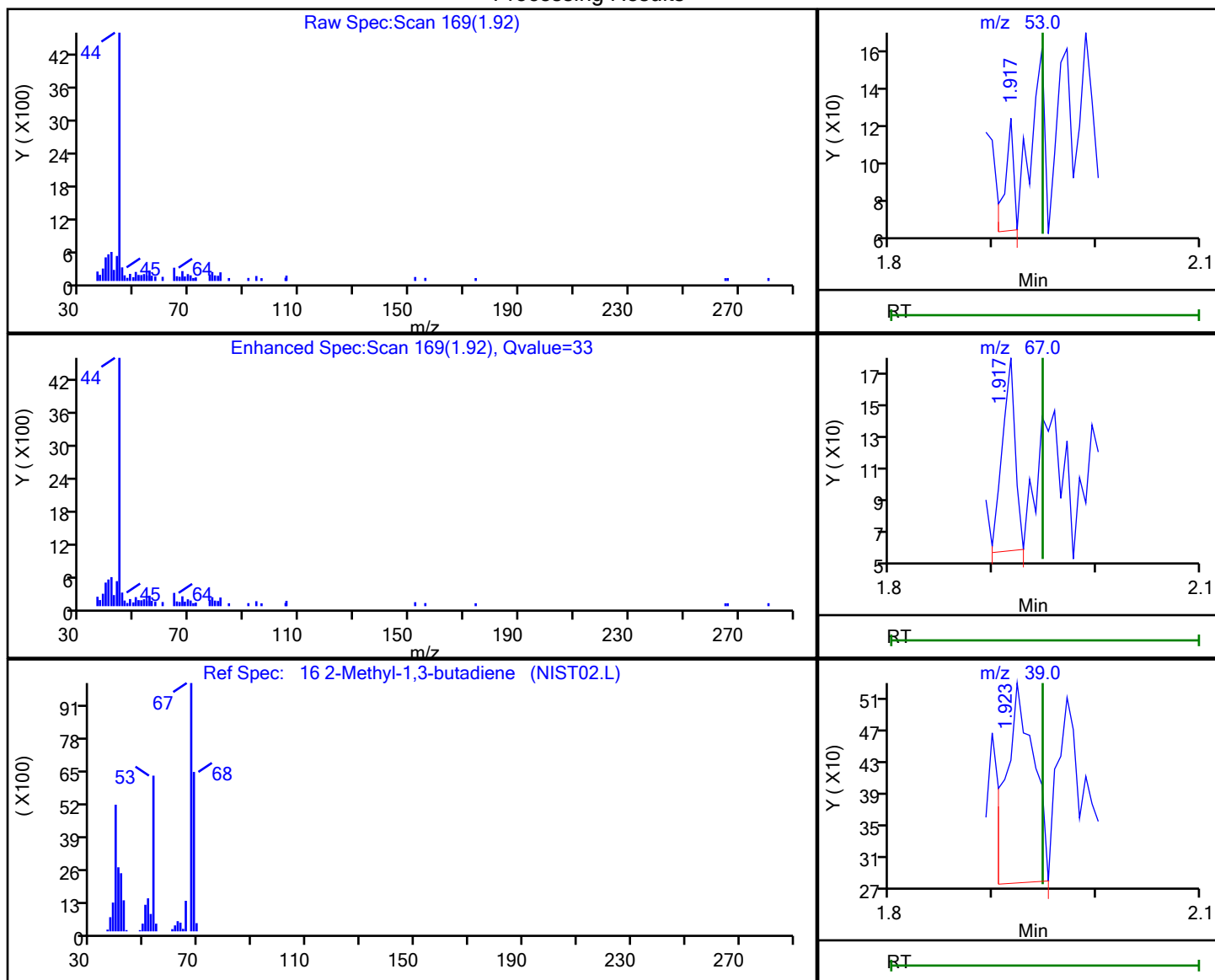
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

16 2-Methyl-1,3-butadiene, CAS: 78-79-5

Processing Results



RT	Mass	Response	Amount
1.92	53.00	32	0.013037
1.92	67.00	105	
1.92	39.00	467	

Reviewer: W9CM, 14-Oct-2022 15:00:43

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#:

3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

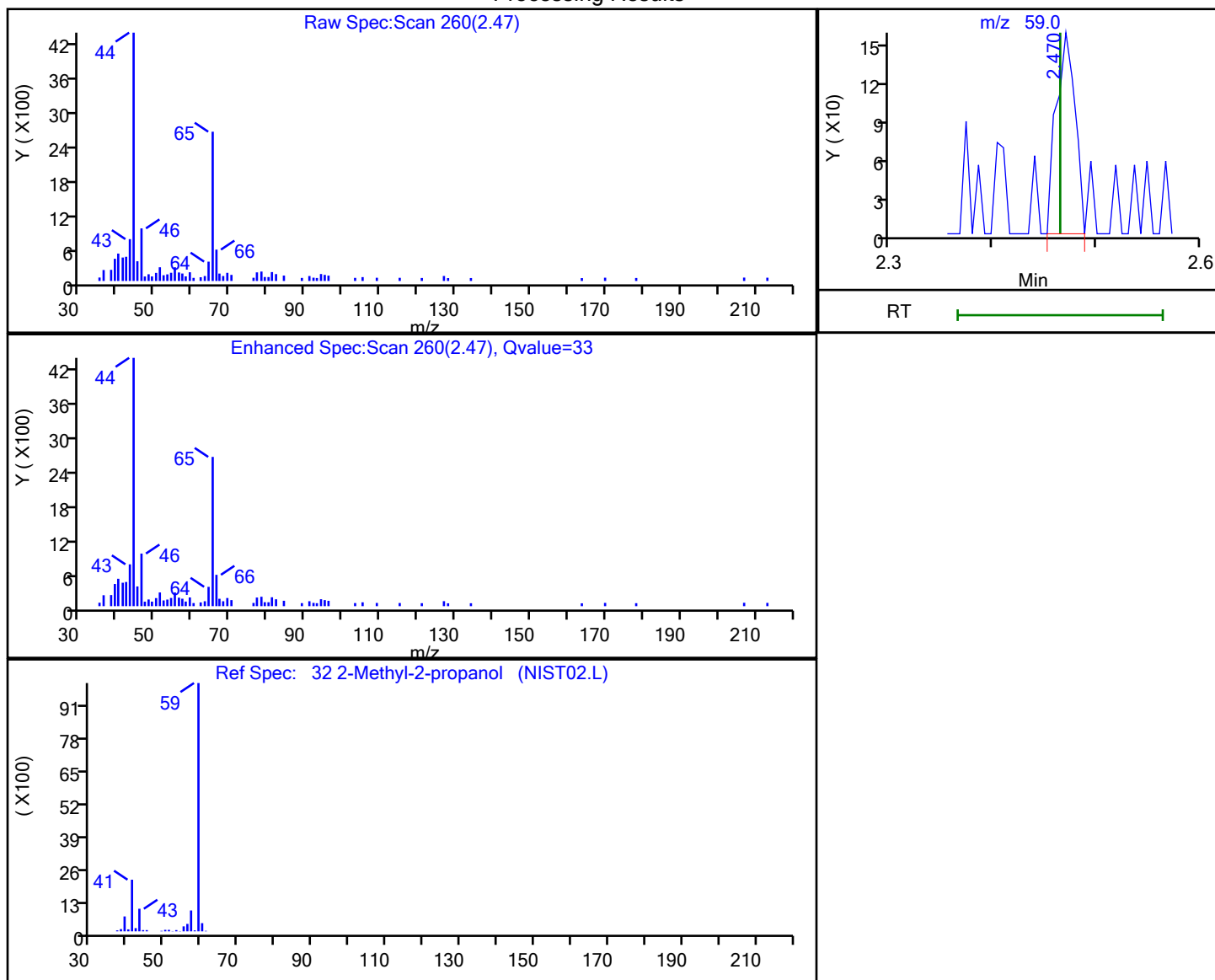
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

32 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results



RT	Mass	Response	Amount
2.47	59.00	195	1.368890

Reviewer: W9CM, 14-Oct-2022 15:01:24

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

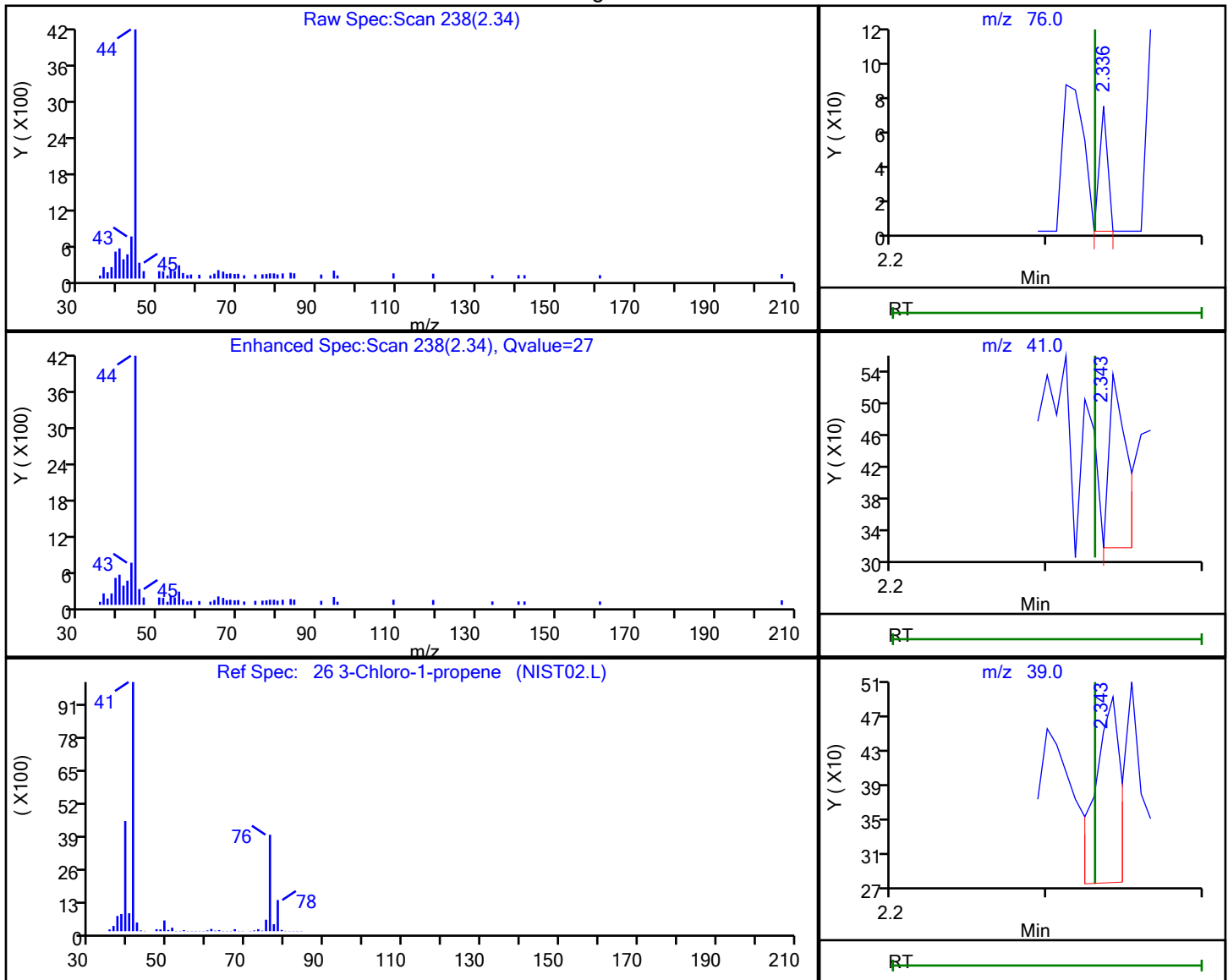
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

26 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
2.34	76.00	26	0.018678
2.34	41.00	166	
2.34	39.00	244	

Reviewer: W9CM, 14-Oct-2022 15:00:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

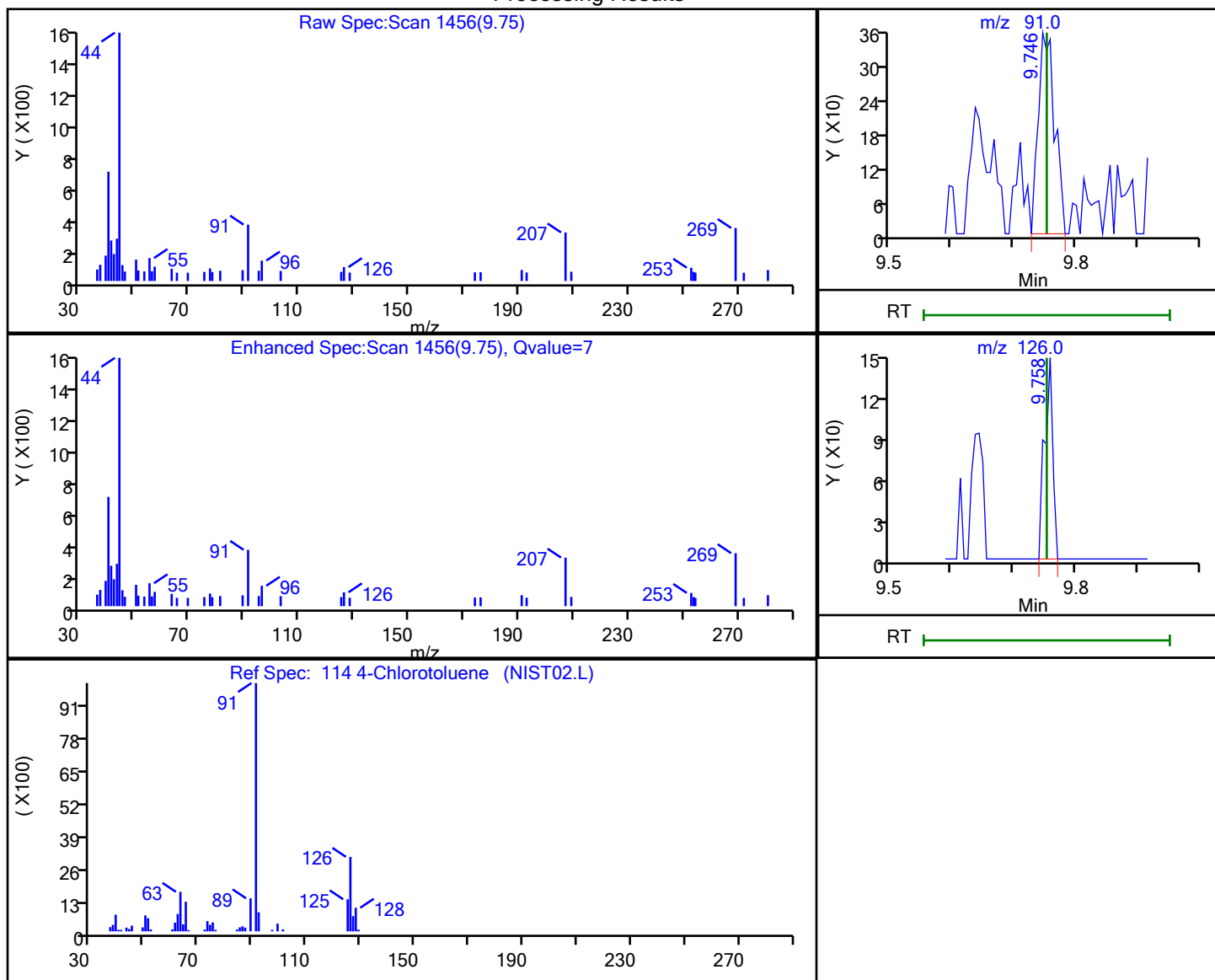
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

114 4-Chlorotoluene, CAS: 106-43-4

Processing Results



RT	Mass	Response	Amount
9.75	91.00	656	0.075948
9.76	126.00	136	

Reviewer: W9CM, 14-Oct-2022 15:02:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

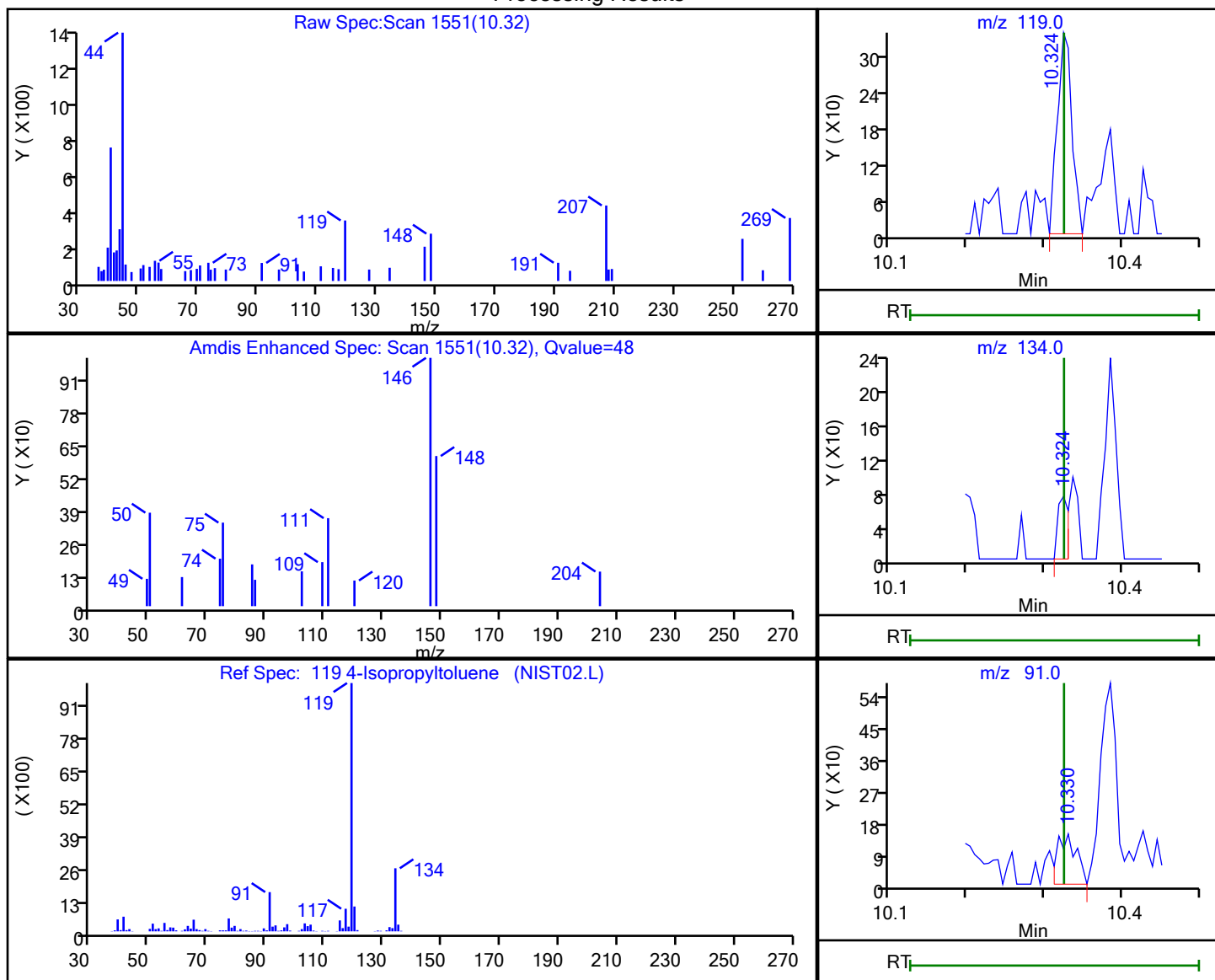
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

119 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



RT	Mass	Response	Amount
10.32	119.00	445	0.056366
10.32	134.00	72	
10.33	91.00	244	

Reviewer: W9CM, 14-Oct-2022 15:03:02

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#:

3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

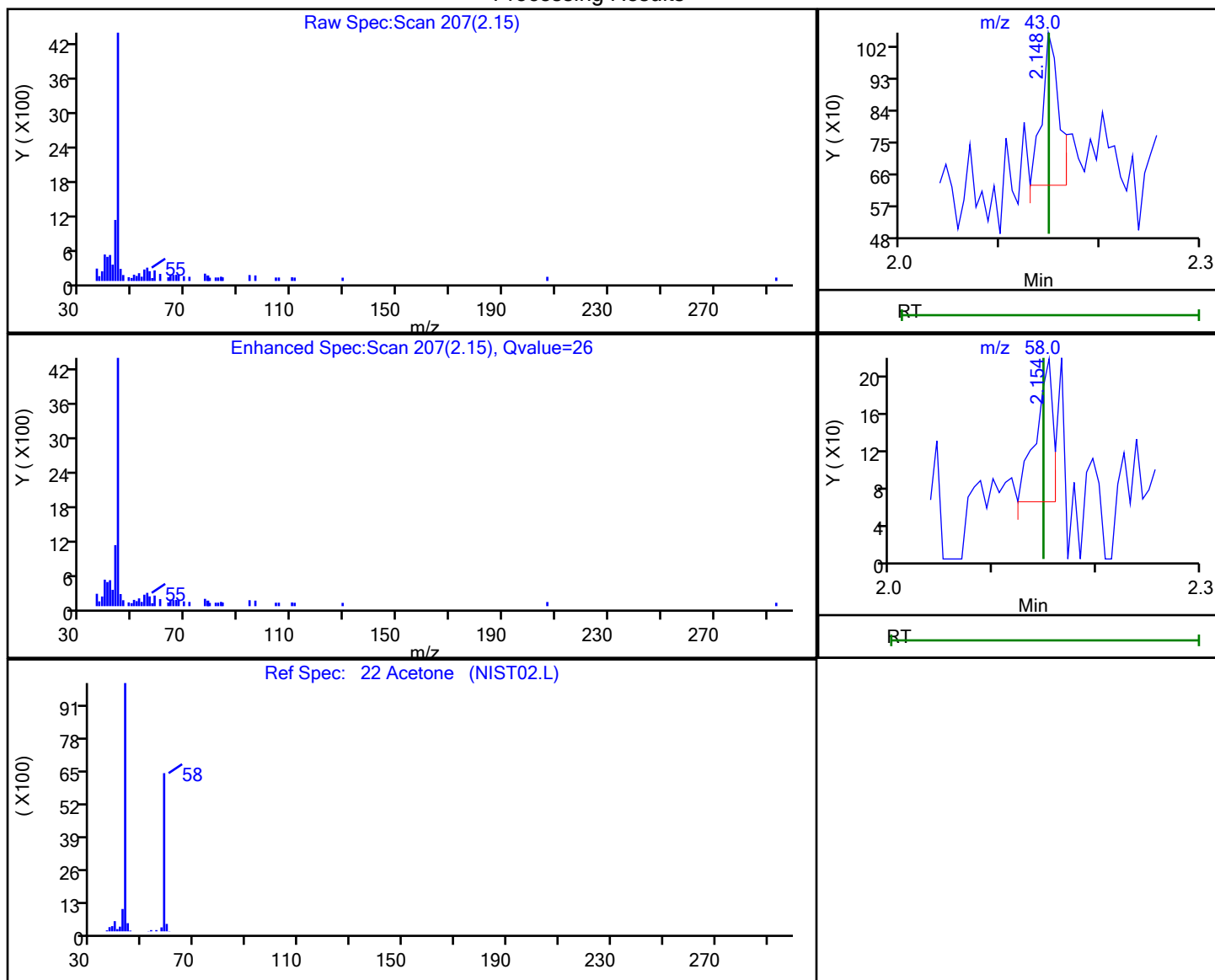
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

22 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
2.15	43.00	518	0.751434
2.15	58.00	180	

Reviewer: W9CM, 14-Oct-2022 15:00:51

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

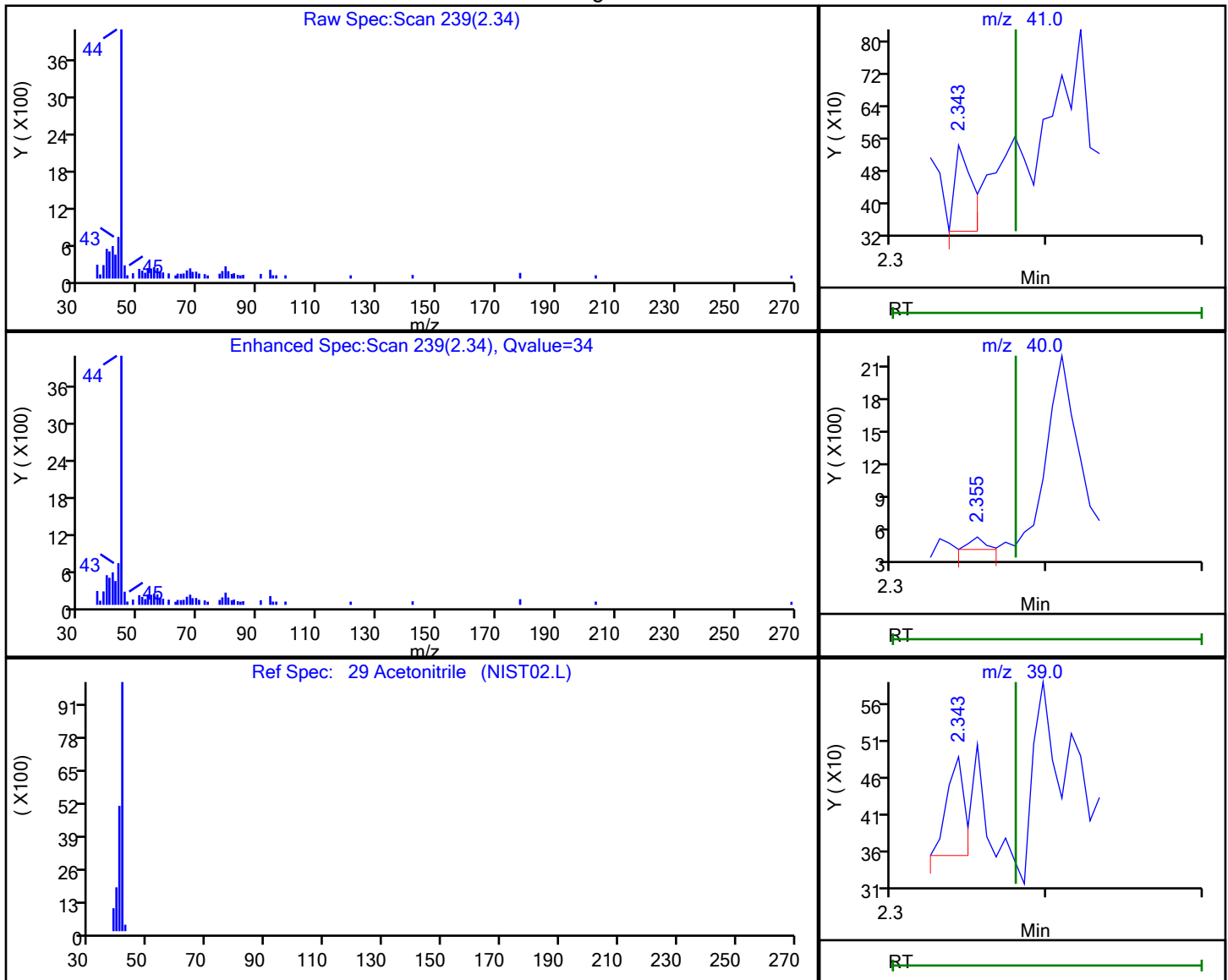
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

29 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
2.34	41.00	166	0.704882
2.35	40.00	76	
2.34	39.00	107	
2.34	38.00	88	

Reviewer: W9CM, 14-Oct-2022 15:01:03

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

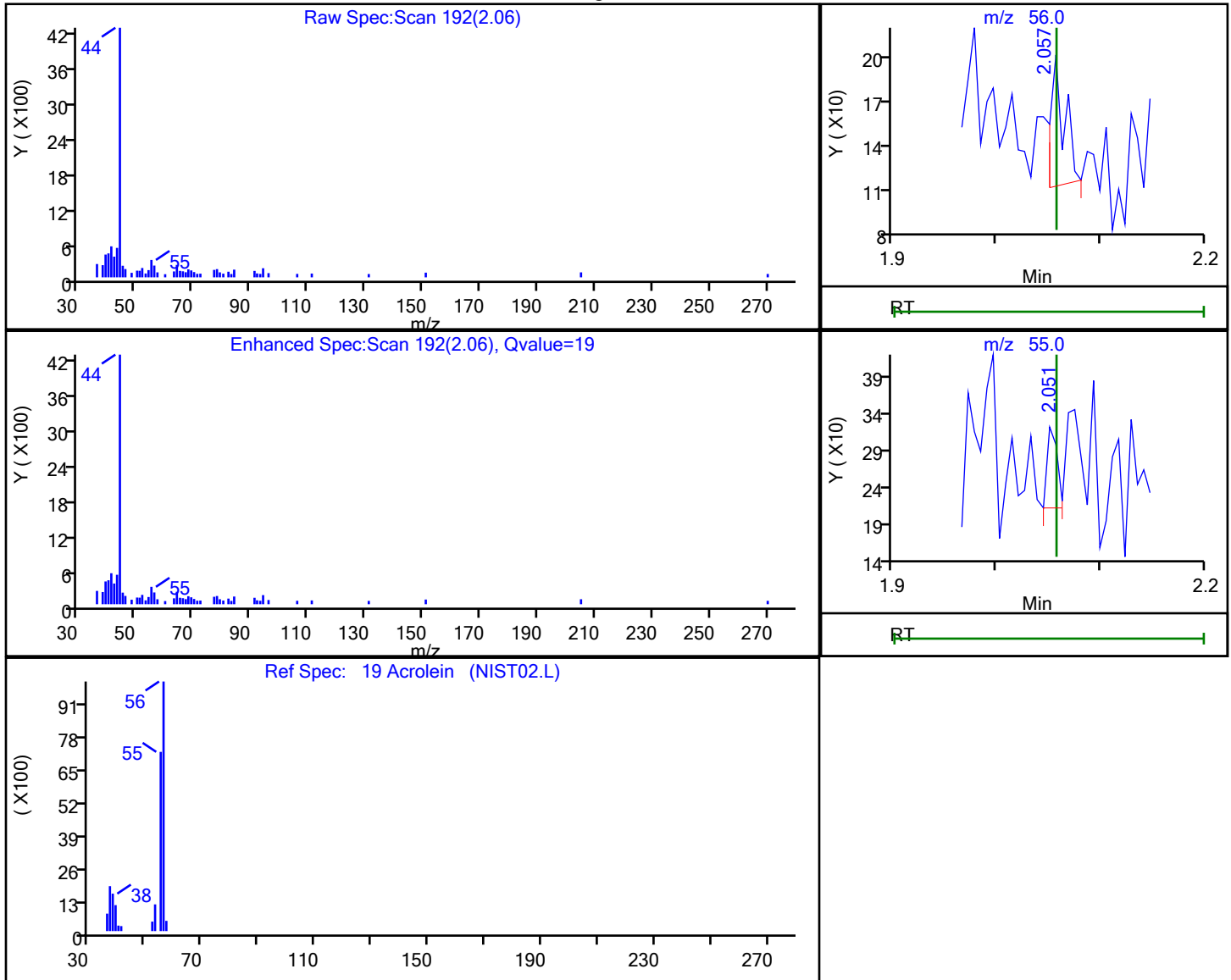
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

19 Acrolein, CAS: 107-02-8

Processing Results



RT	Mass	Response	Amount
2.06	56.00	80	0.250316
2.05	55.00	72	

Reviewer: W9CM, 14-Oct-2022 15:00:46

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

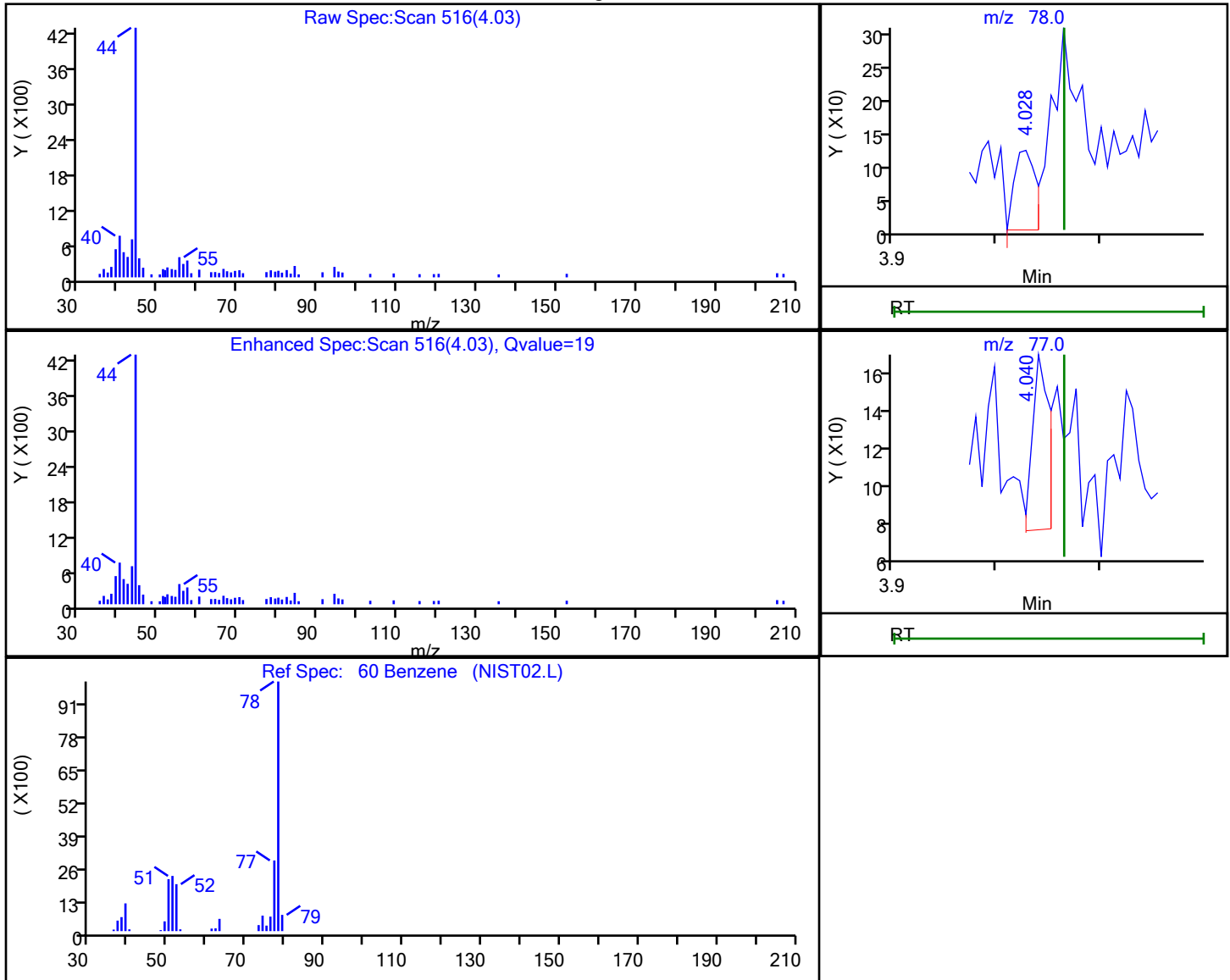
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

60 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
4.03	78.00	172	0.017564
4.04	77.00	99	

Reviewer: W9CM, 14-Oct-2022 15:02:05

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

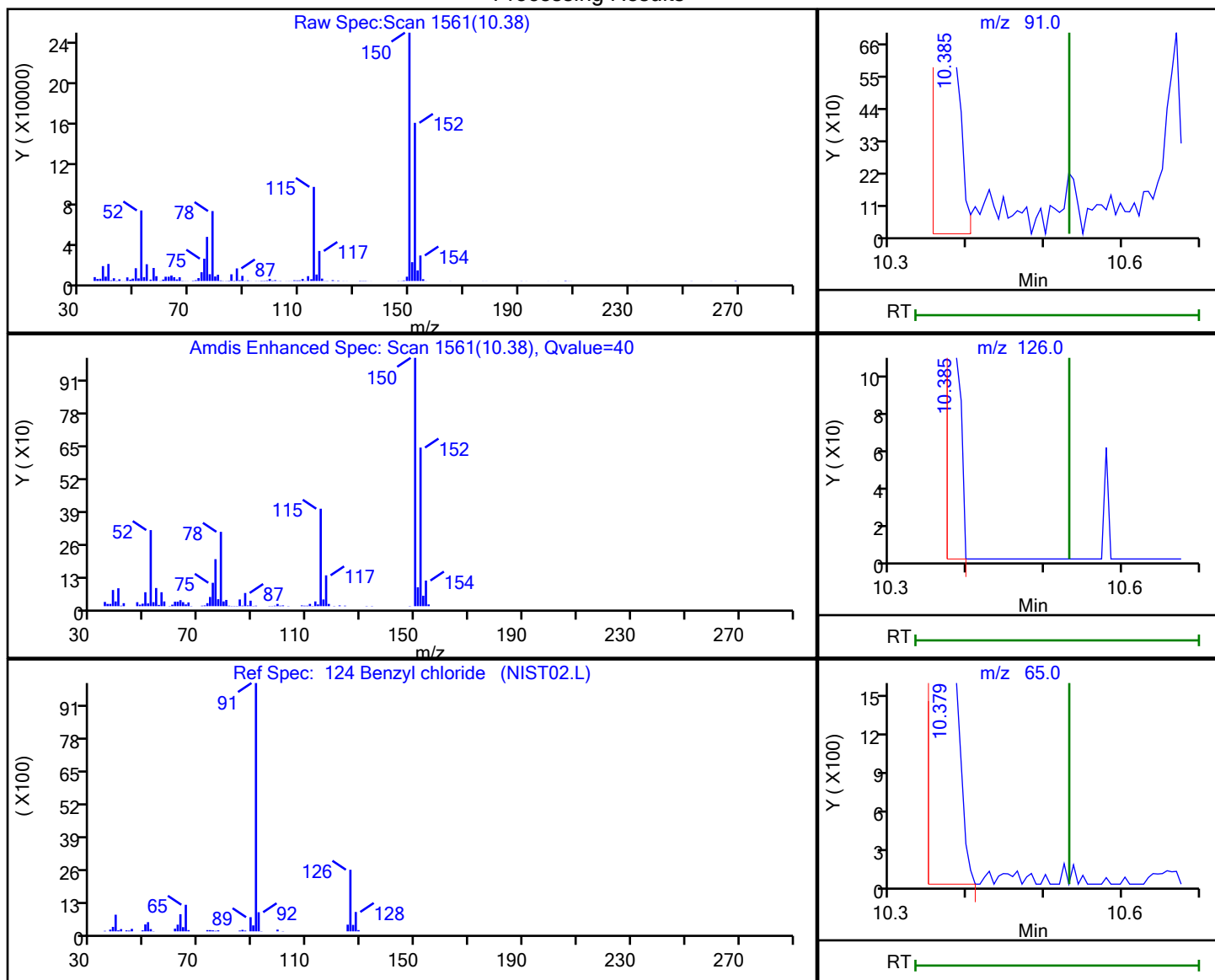
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

124 Benzyl chloride, CAS: 100-44-7

Processing Results



RT	Mass	Response	Amount
10.38	91.00	827	0.162490
10.38	126.00	87	
10.38	65.00	2164	

Reviewer: W9CM, 14-Oct-2022 15:03:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

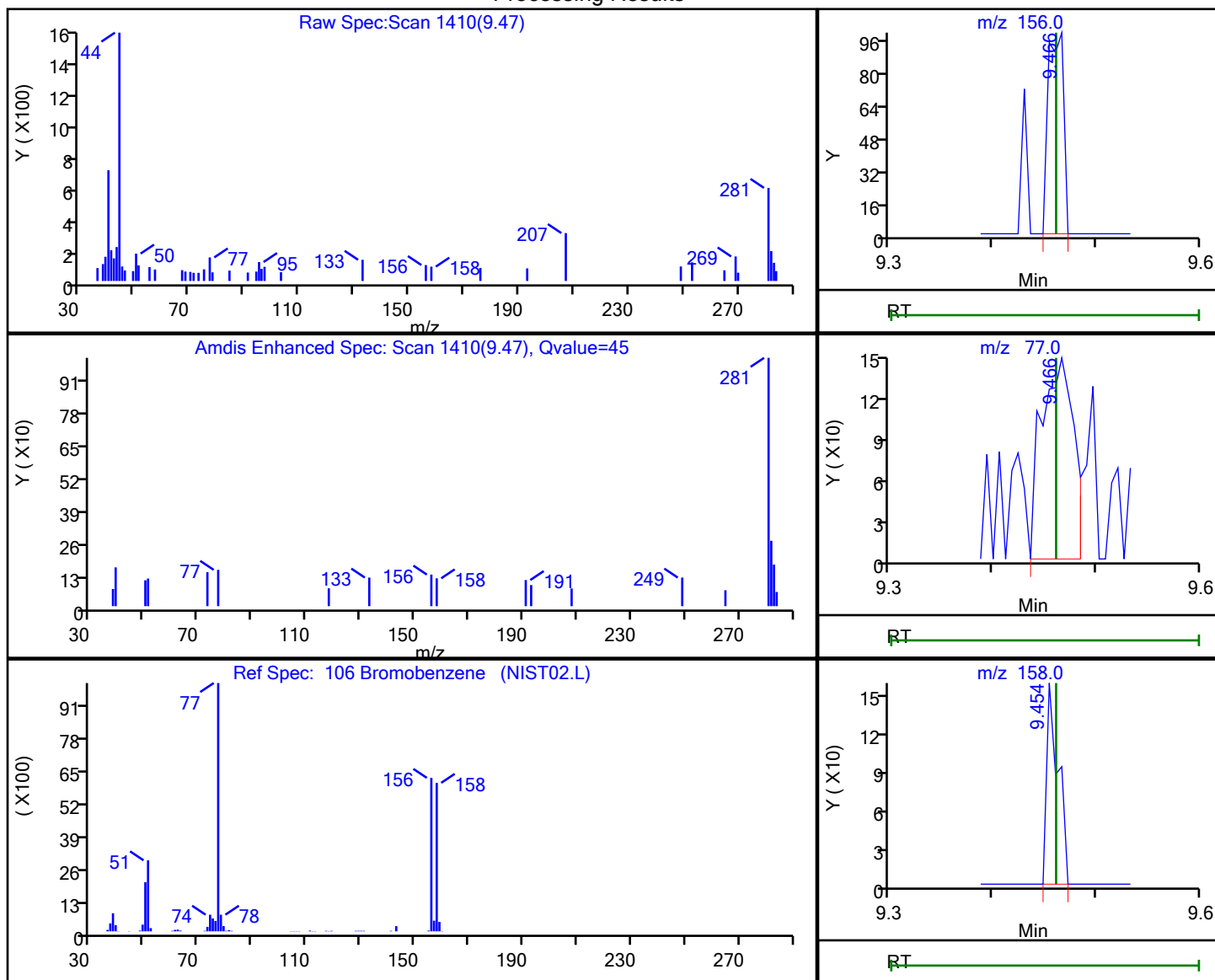
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

106 Bromobenzene, CAS: 108-86-1

Processing Results



RT	Mass	Response	Amount
9.47	156.00	104	0.038920
9.47	77.00	324	
9.45	158.00	120	

Reviewer: W9CM, 14-Oct-2022 15:02:44

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

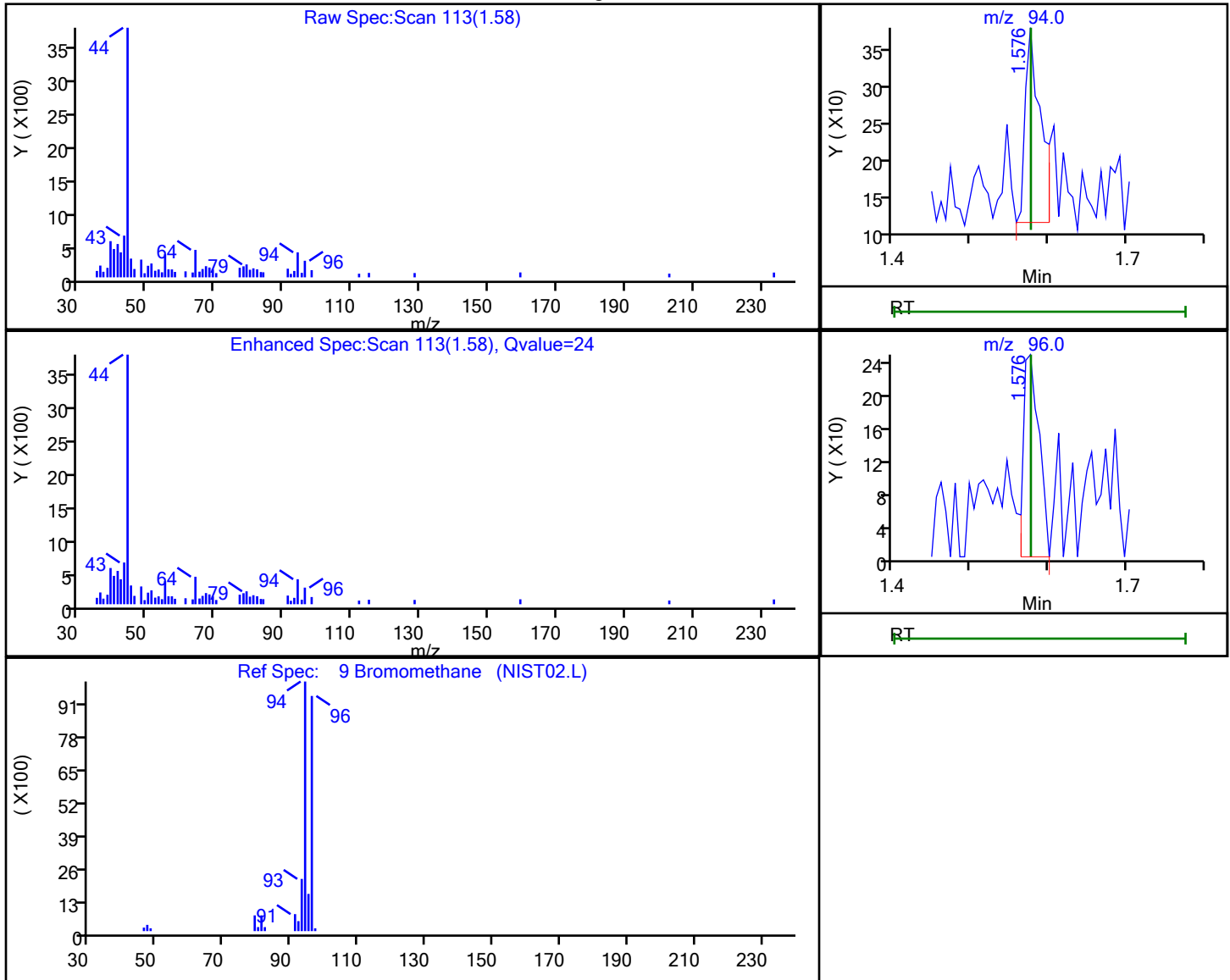
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

9 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
1.58	94.00	364	0.250000
1.58	96.00	346	

Reviewer: HVW2, 12-Oct-2022 23:53:30

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

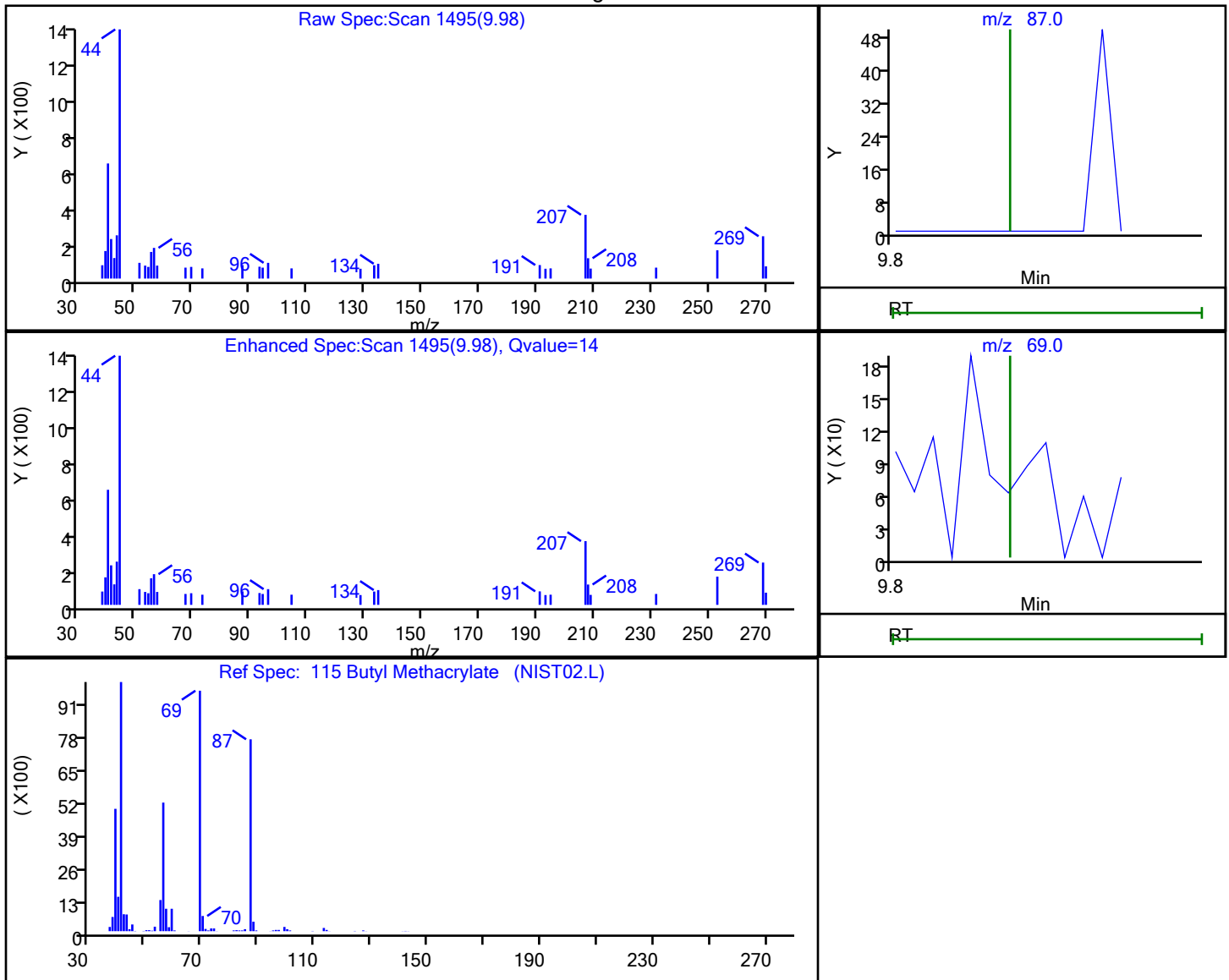
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

115 Butyl Methacrylate, CAS: 97-88-1

Processing Results



RT	Mass	Response	Amount
9.98	87.00	27	0.008320
9.98	69.00	43	

Reviewer: W9CM, 14-Oct-2022 15:02:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#:

3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

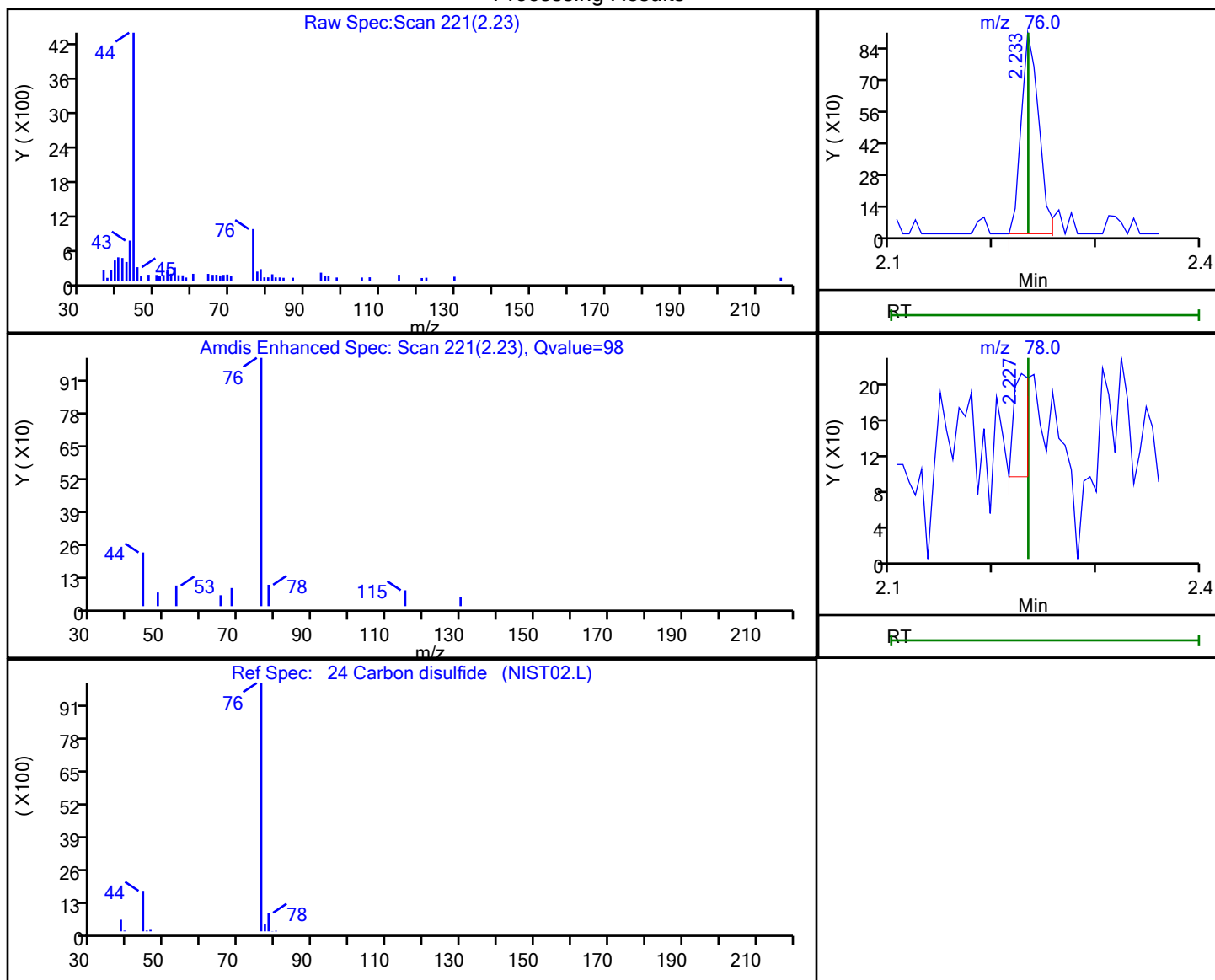
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.23	76.00	1080	0.148127
2.23	78.00	122	

Reviewer: W9CM, 14-Oct-2022 15:00:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

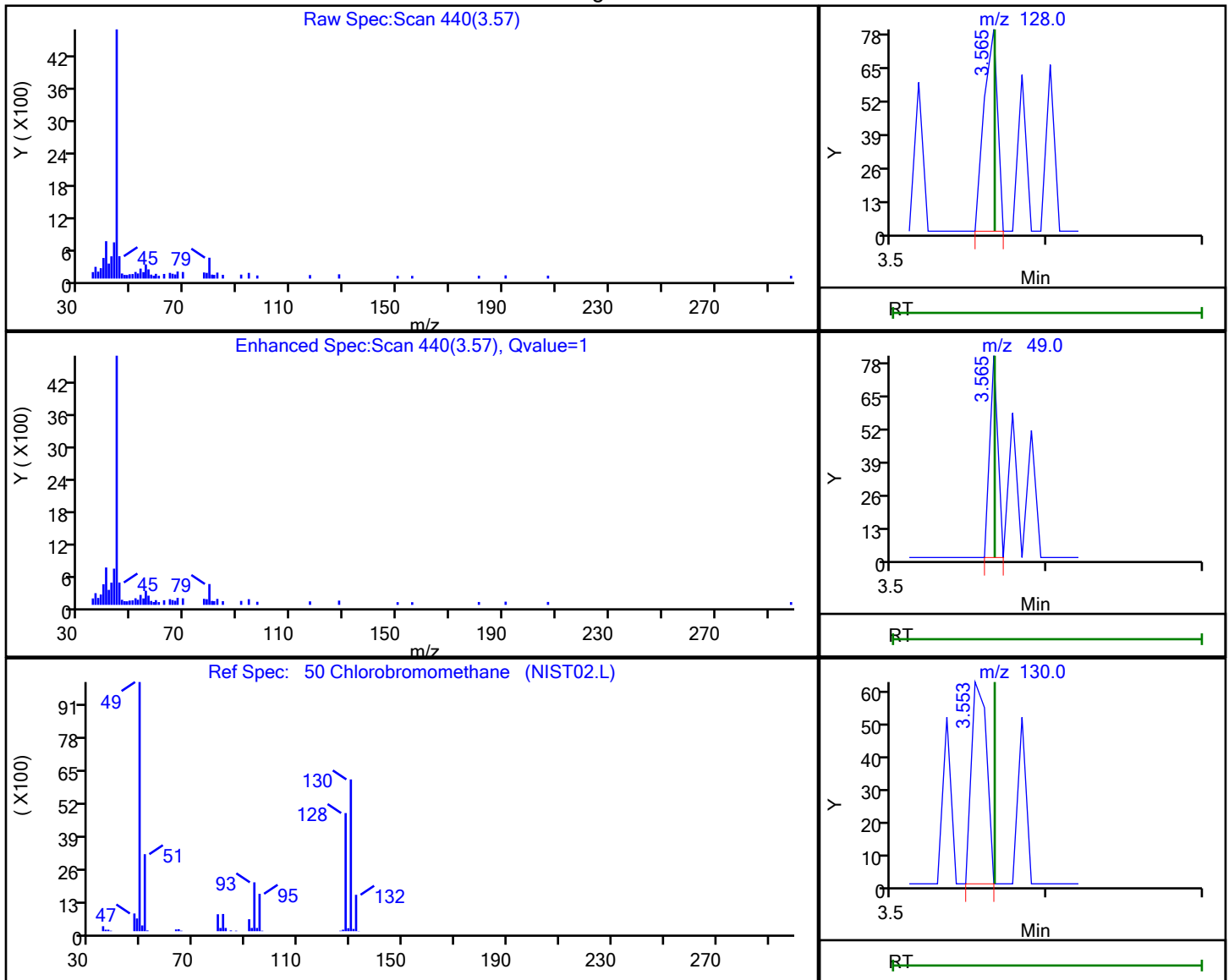
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

50 Chlorobromomethane, CAS: 74-97-5

Processing Results



RT	Mass	Response	Amount
3.57	128.00	49	0.044796
3.57	49.00	30	
3.55	130.00	43	

Reviewer: W9CM, 14-Oct-2022 15:01:53

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

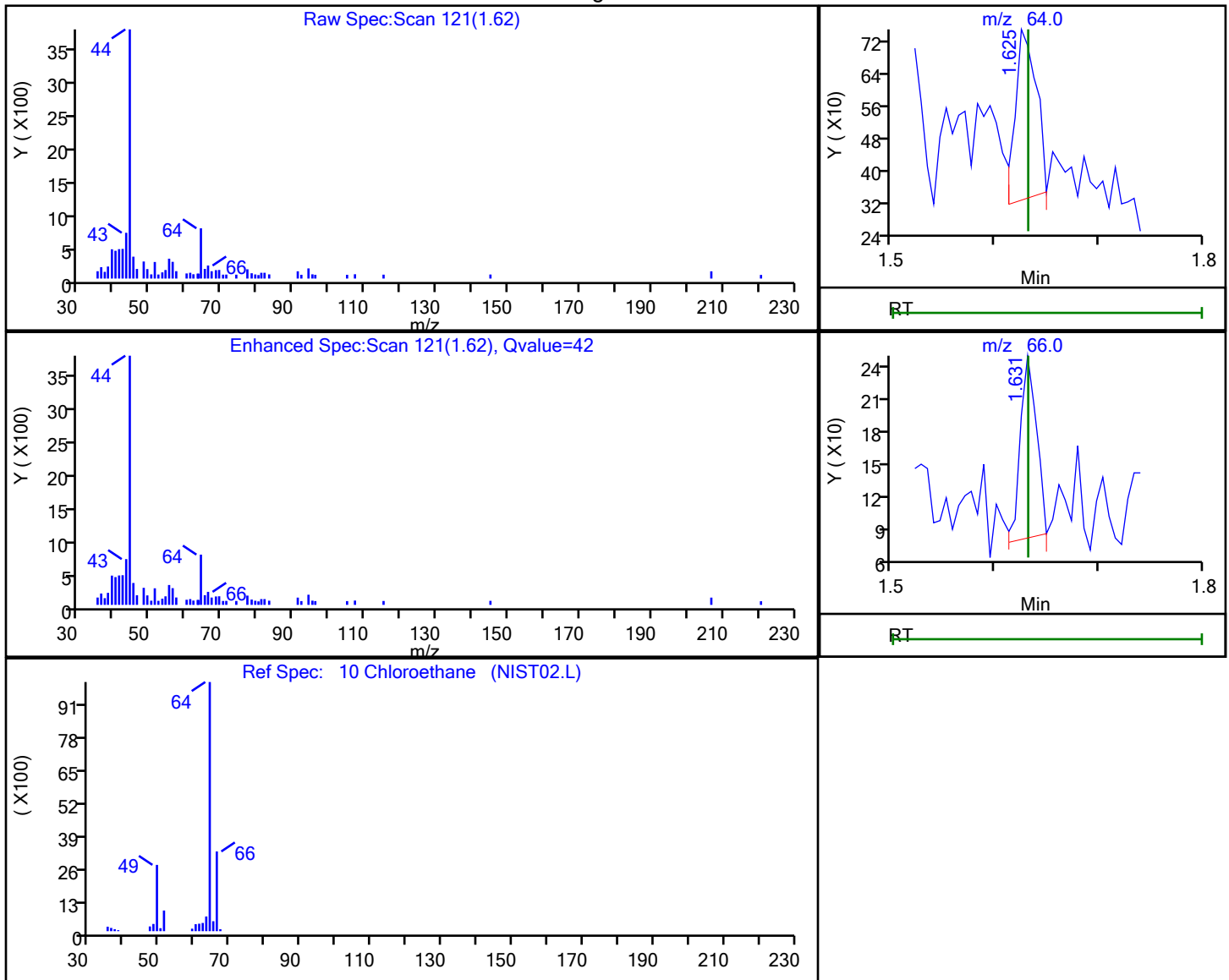
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

10 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.62	64.00	600	0.250000
1.63	66.00	184	

Reviewer: HVW2, 12-Oct-2022 23:53:31

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

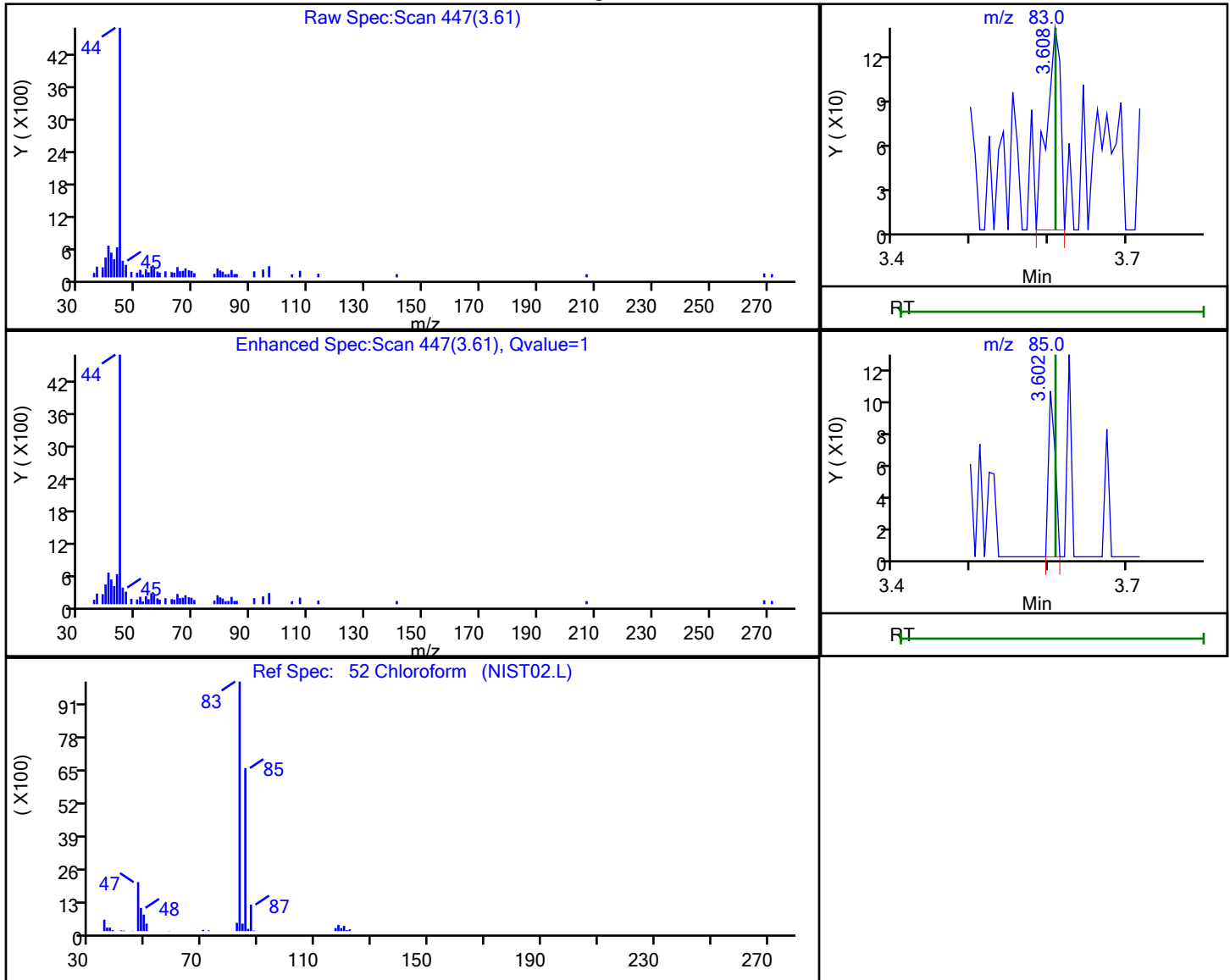
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

52 Chloroform, CAS: 67-66-3

Processing Results



RT	Mass	Response	Amount
3.61	83.00	172	0.038987
3.60	85.00	59	

Reviewer: W9CM, 14-Oct-2022 15:01:57

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

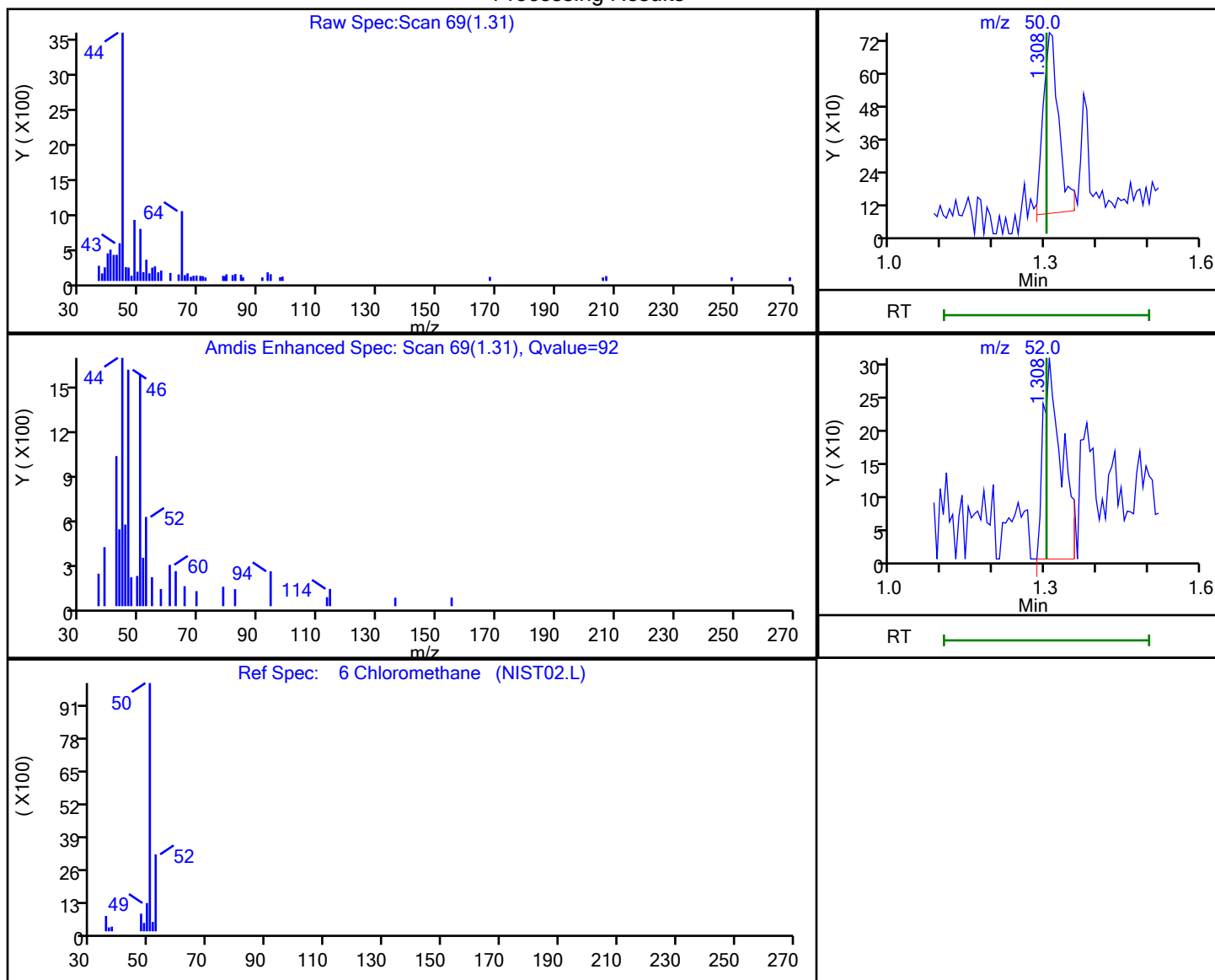
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

6 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.31	50.00	1393	0.250000
1.31	52.00	746	

Reviewer: HVW2, 12-Oct-2022 23:53:26

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

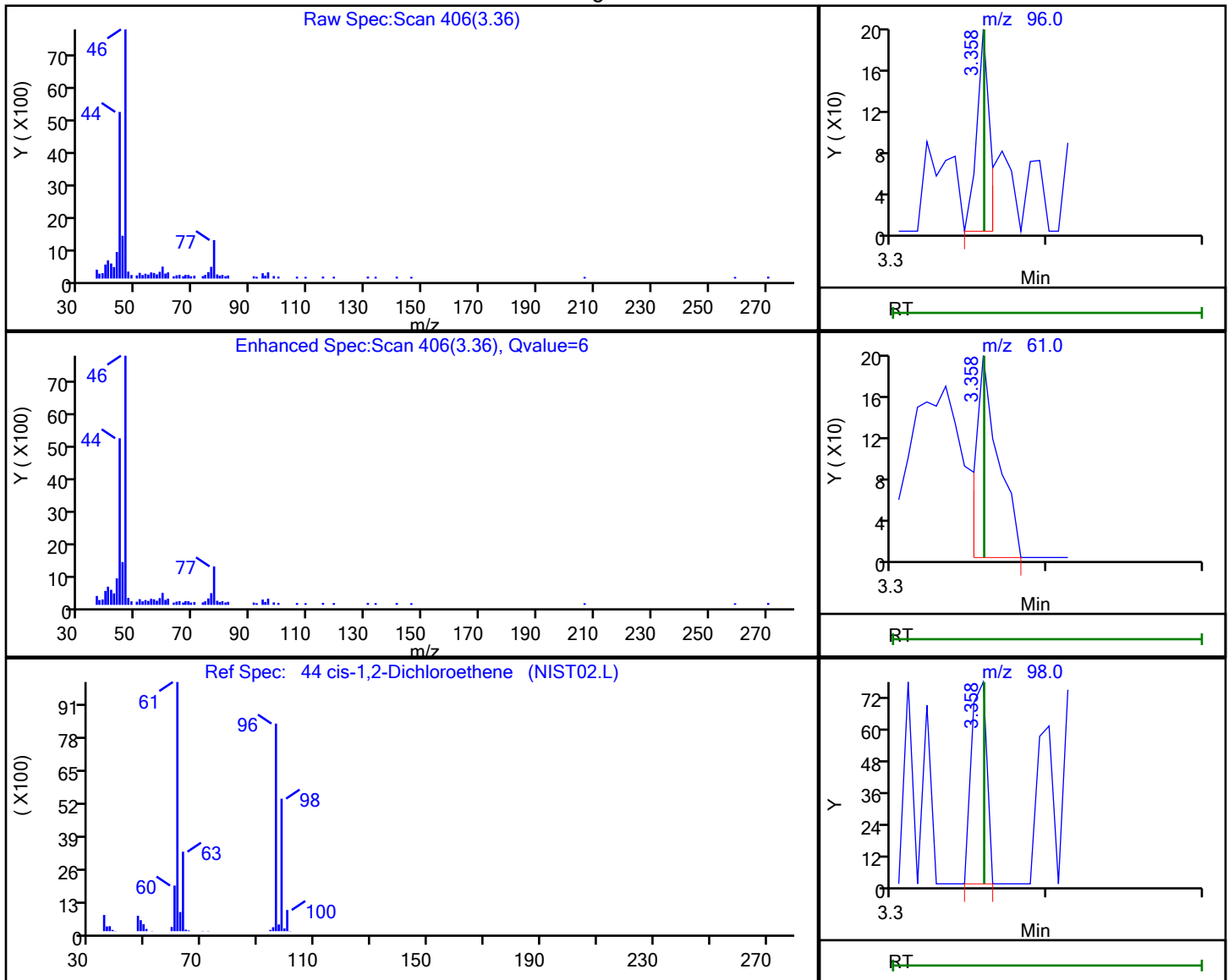
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

44 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



RT	Mass	Response	Amount
3.36	96.00	113	0.045723
3.36	61.00	192	
3.36	98.00	54	

Reviewer: W9CM, 14-Oct-2022 15:01:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

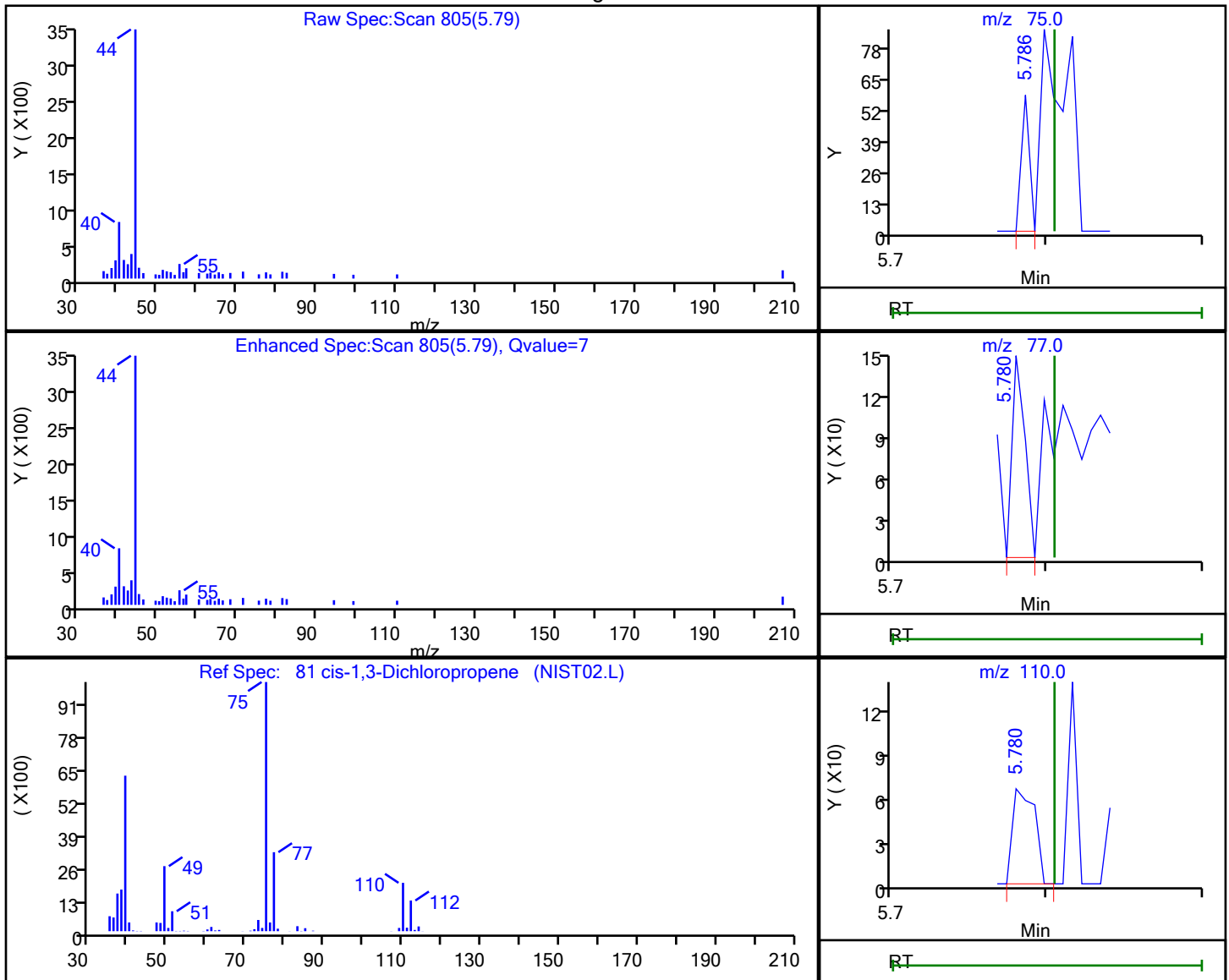
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

81 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



RT	Mass	Response	Amount
5.79	75.00	21	0.004552
5.78	77.00	84	
5.78	110.00	64	

Reviewer: W9CM, 14-Oct-2022 15:02:26

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

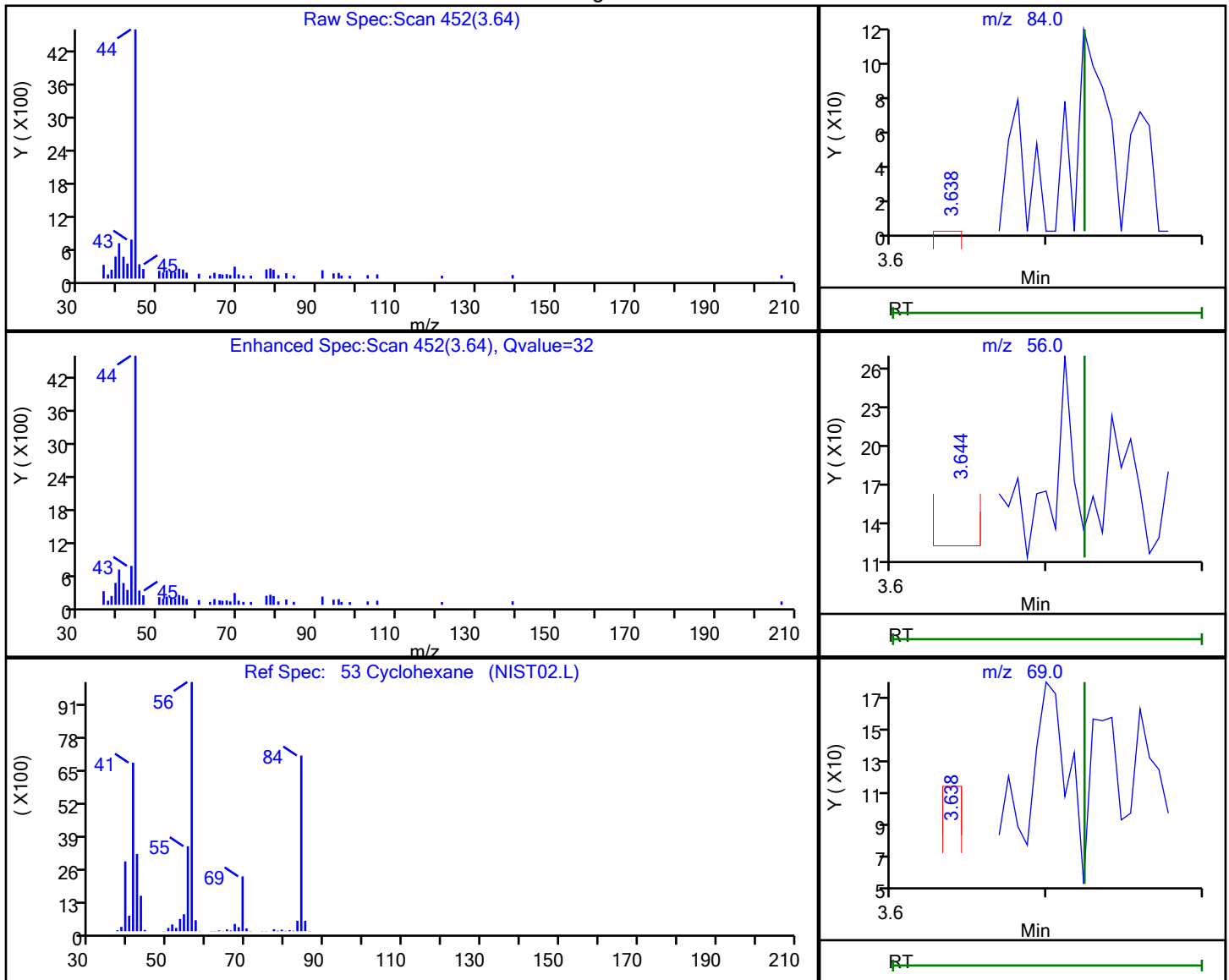
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

53 Cyclohexane, CAS: 110-82-7

Processing Results



RT	Mass	Response	Amount
3.64	84.00	40	0.014572
3.64	56.00	94	
3.64	69.00	108	

Reviewer: W9CM, 14-Oct-2022 15:01:59

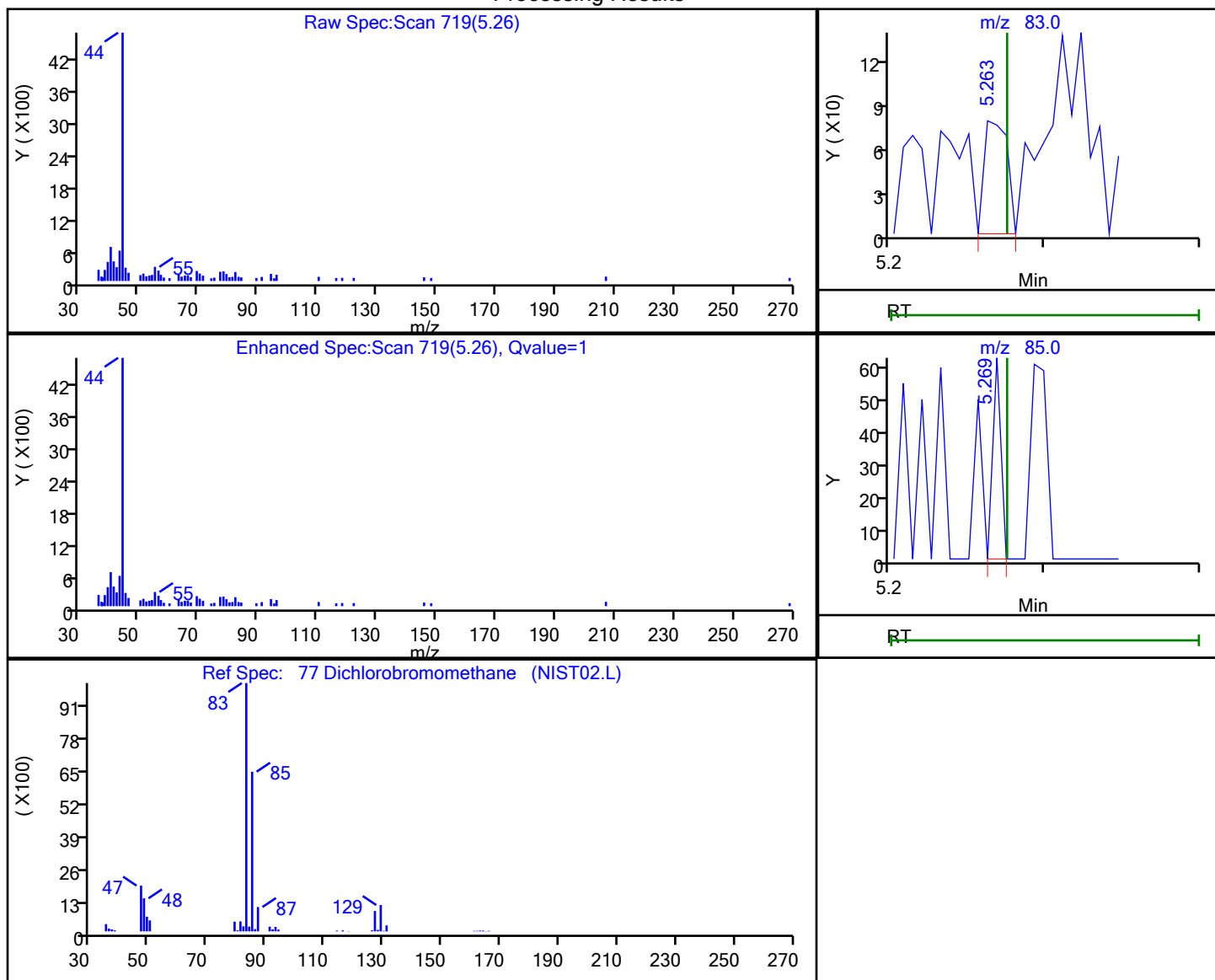
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Data File:	\\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D		
Injection Date:	12-Oct-2022 23:30:30	Instrument ID:	CVOAMS8
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_W8	Limit Group:	VOA 624.1 IC
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

ALS Bottle#:	3	Worklist Smp#:	3
Dil. Factor:	1.0000		
Limit Group:	VOA 624.1 ICAL		
Detector	MS SCAN		

Processing Results



RT	Mass	Response	Amount
5.26	83.00	80	0.024113
5.27	85.00	23	

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

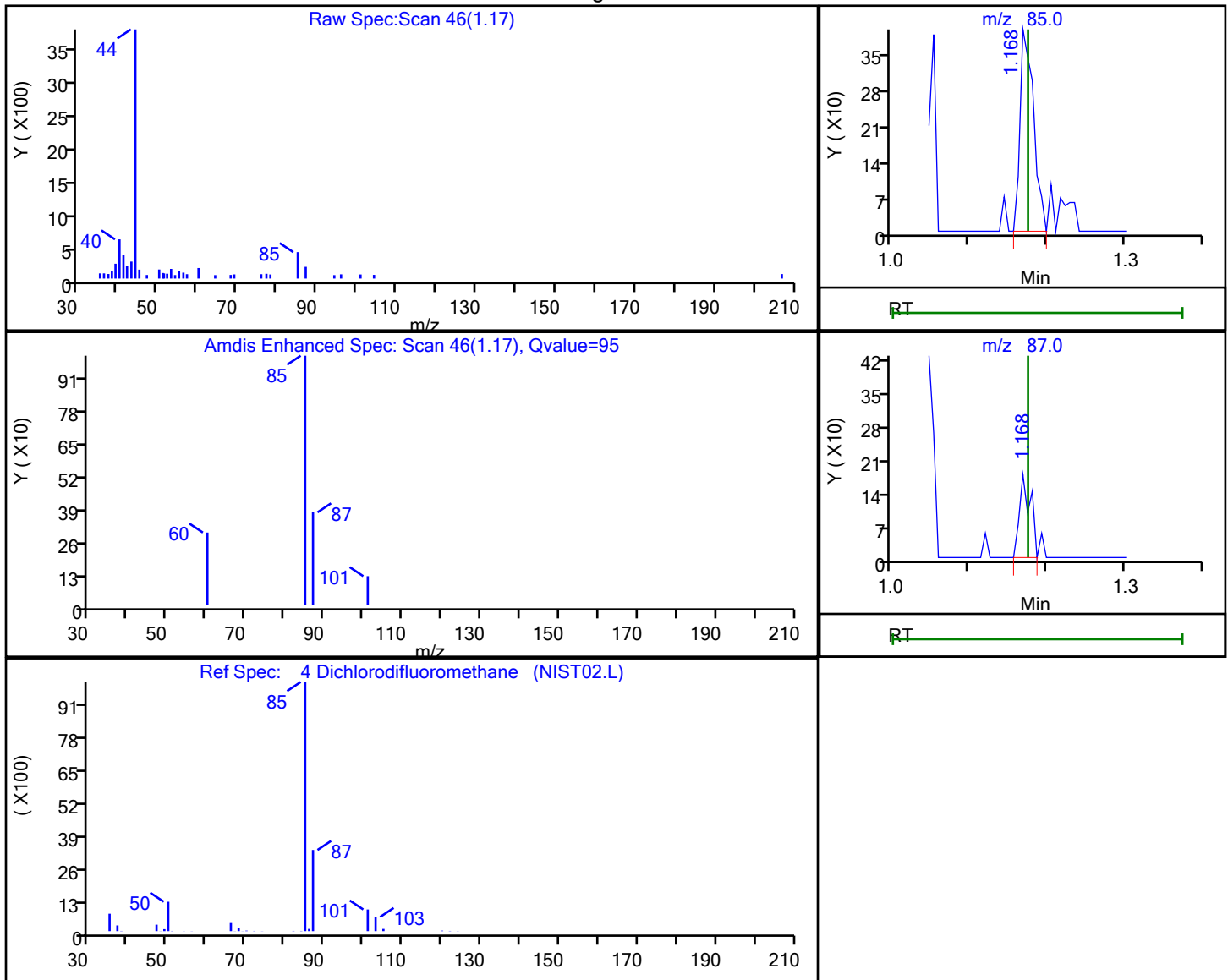
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

4 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.17	85.00	479	0.250000
1.17	87.00	175	

Reviewer: HVW2, 12-Oct-2022 23:53:25

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

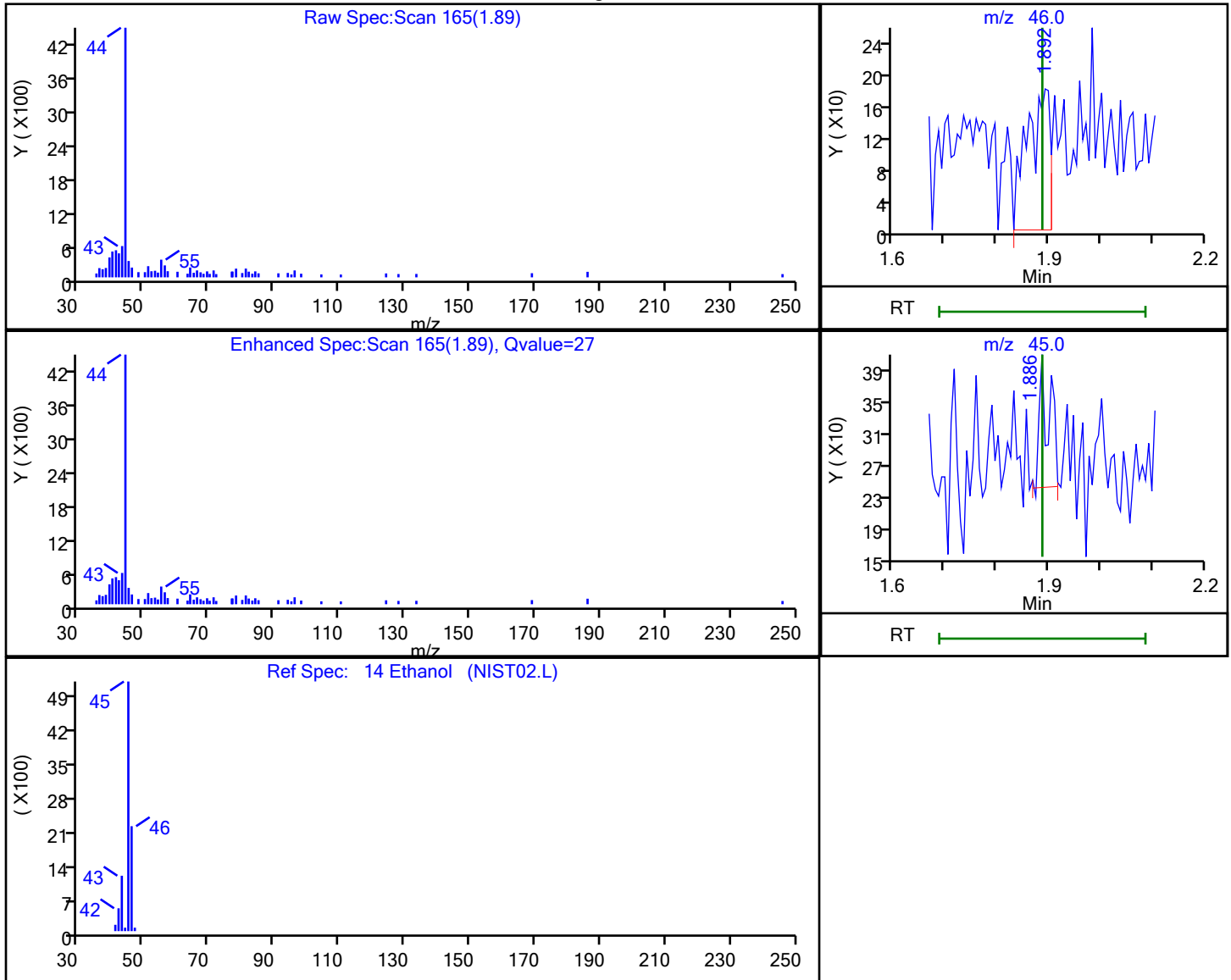
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

14 Ethanol, CAS: 64-17-5

Processing Results



RT	Mass	Response	Amount
1.89	46.00	544	86.449483
1.89	45.00	224	

Reviewer: W9CM, 14-Oct-2022 14:49:43

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

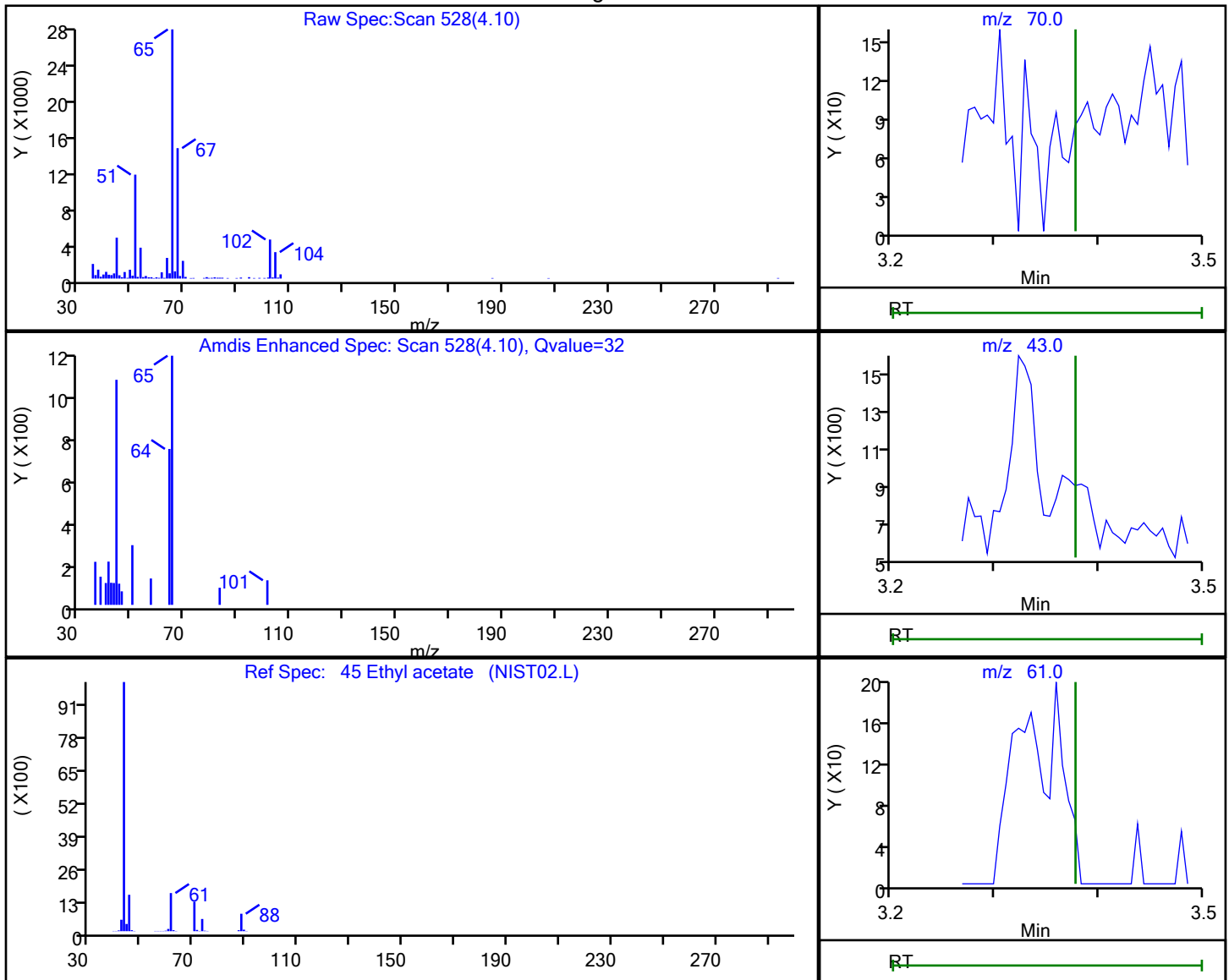
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

45 Ethyl acetate, CAS: 141-78-6

Processing Results



RT	Mass	Response	Amount
4.10	70.00	285	1.335082
4.09	43.00	295	
4.12	61.00	16	

Reviewer: W9CM, 14-Oct-2022 15:01:45

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

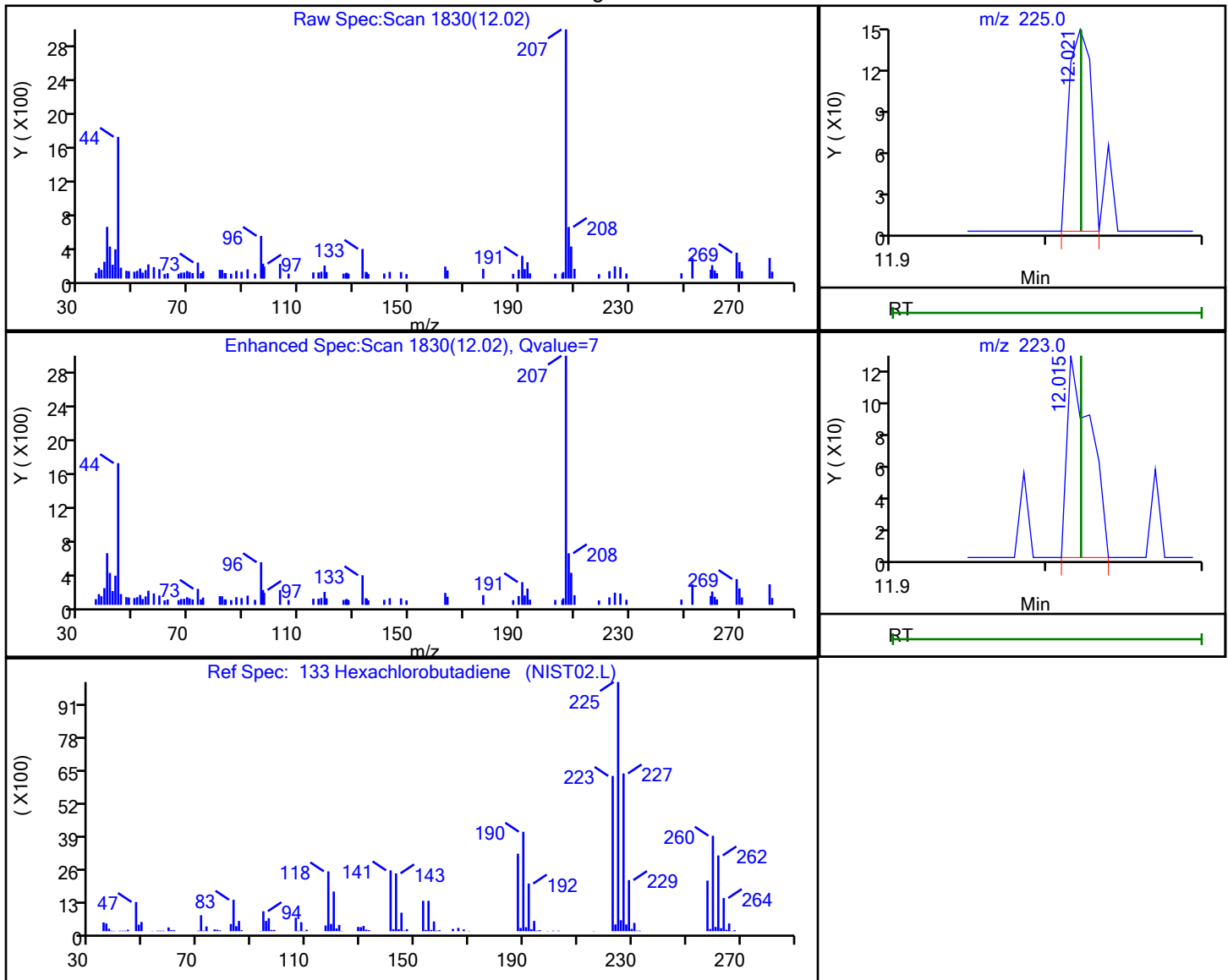
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

133 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



RT	Mass	Response	Amount
12.02	225.00	141	0.131871
12.02	223.00	132	

Reviewer: W9CM, 14-Oct-2022 15:03:32

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

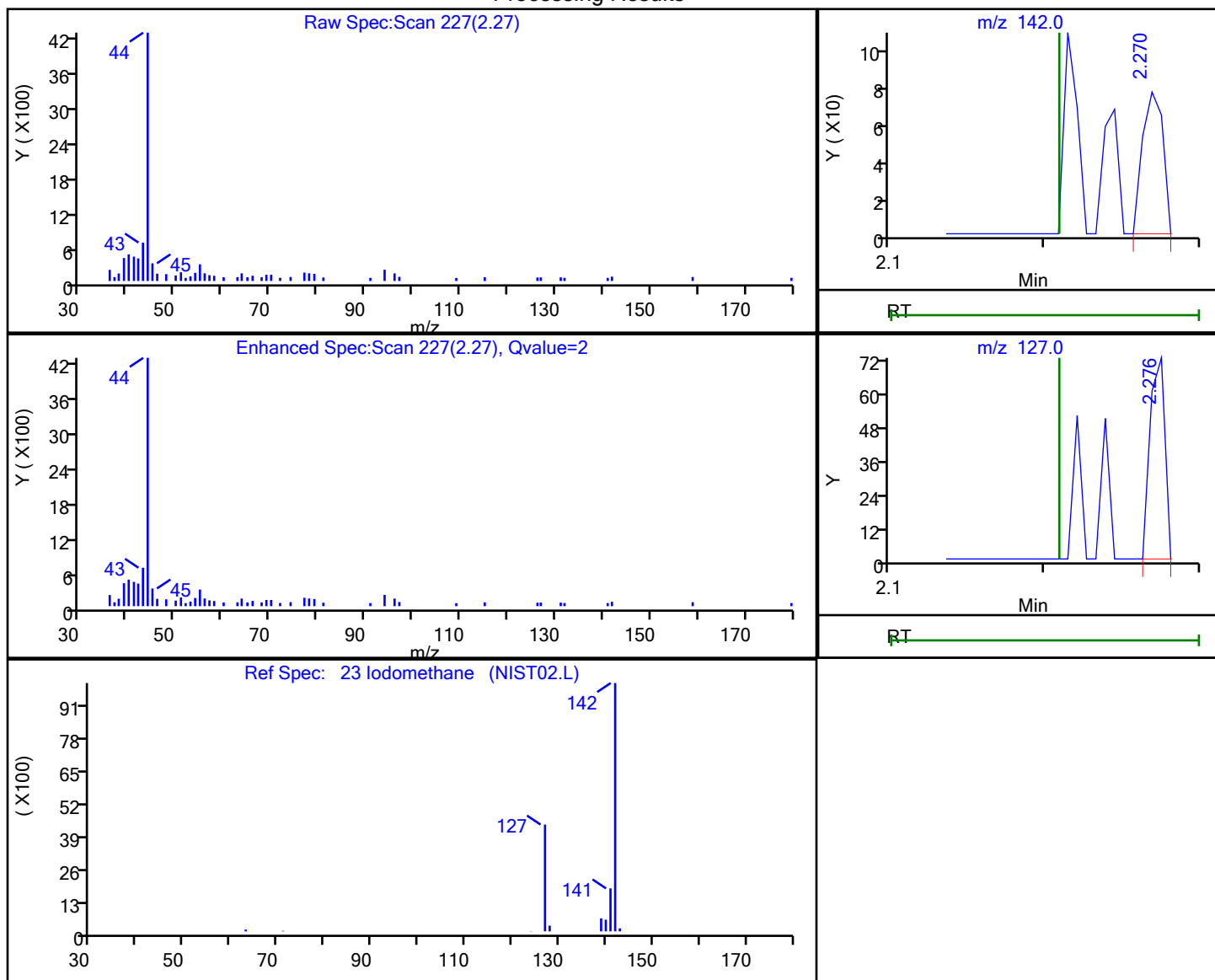
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

23 Iodomethane, CAS: 74-88-4

Processing Results



RT	Mass	Response	Amount
2.27	142.00	68	0.026985
2.28	127.00	49	

Reviewer: W9CM, 14-Oct-2022 15:00:53

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

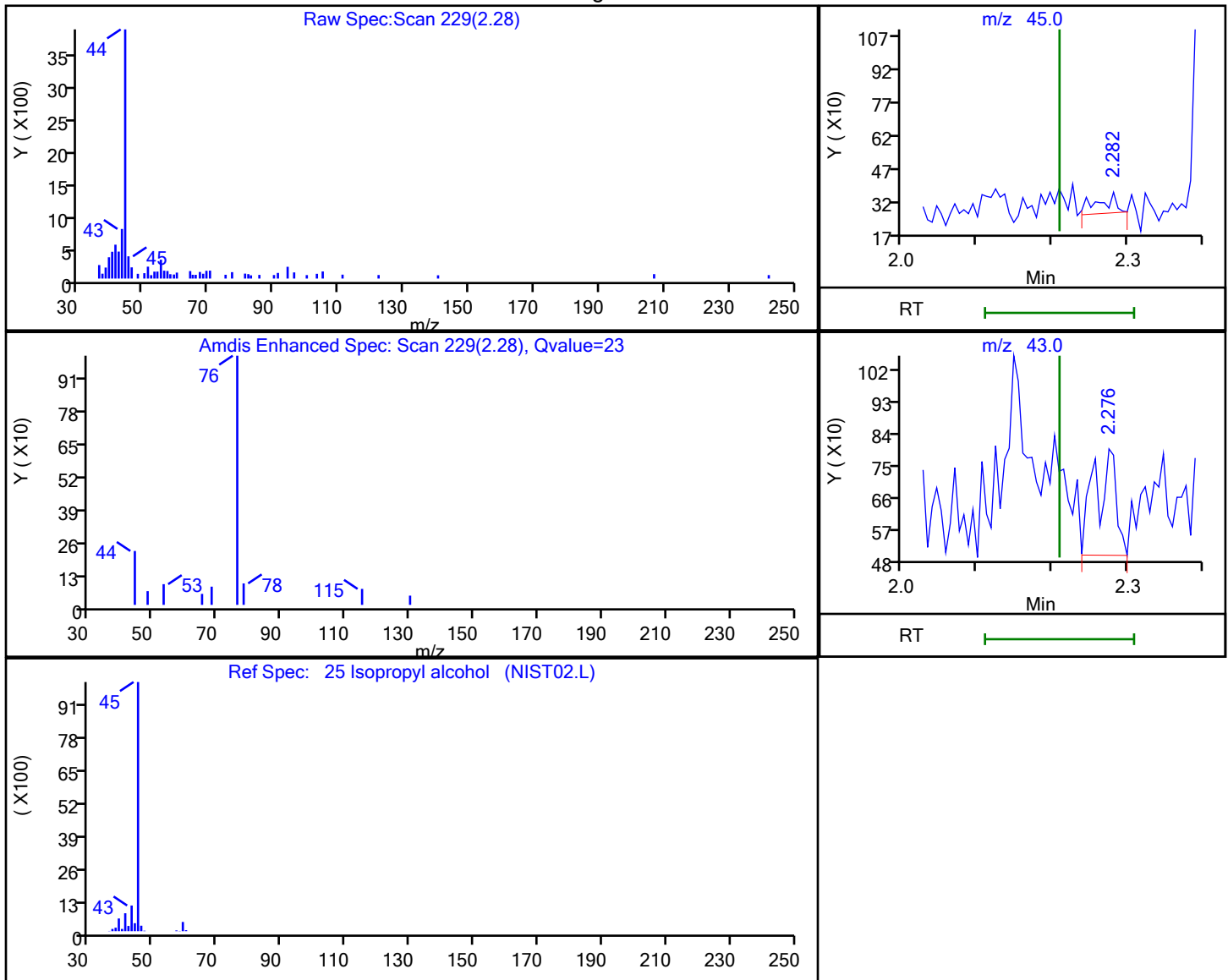
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

25 Isopropyl alcohol, CAS: 67-63-0

Processing Results



RT	Mass	Response	Amount
2.28	45.00	155	1.679015
2.28	43.00	601	

Reviewer: W9CM, 14-Oct-2022 15:00:55

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

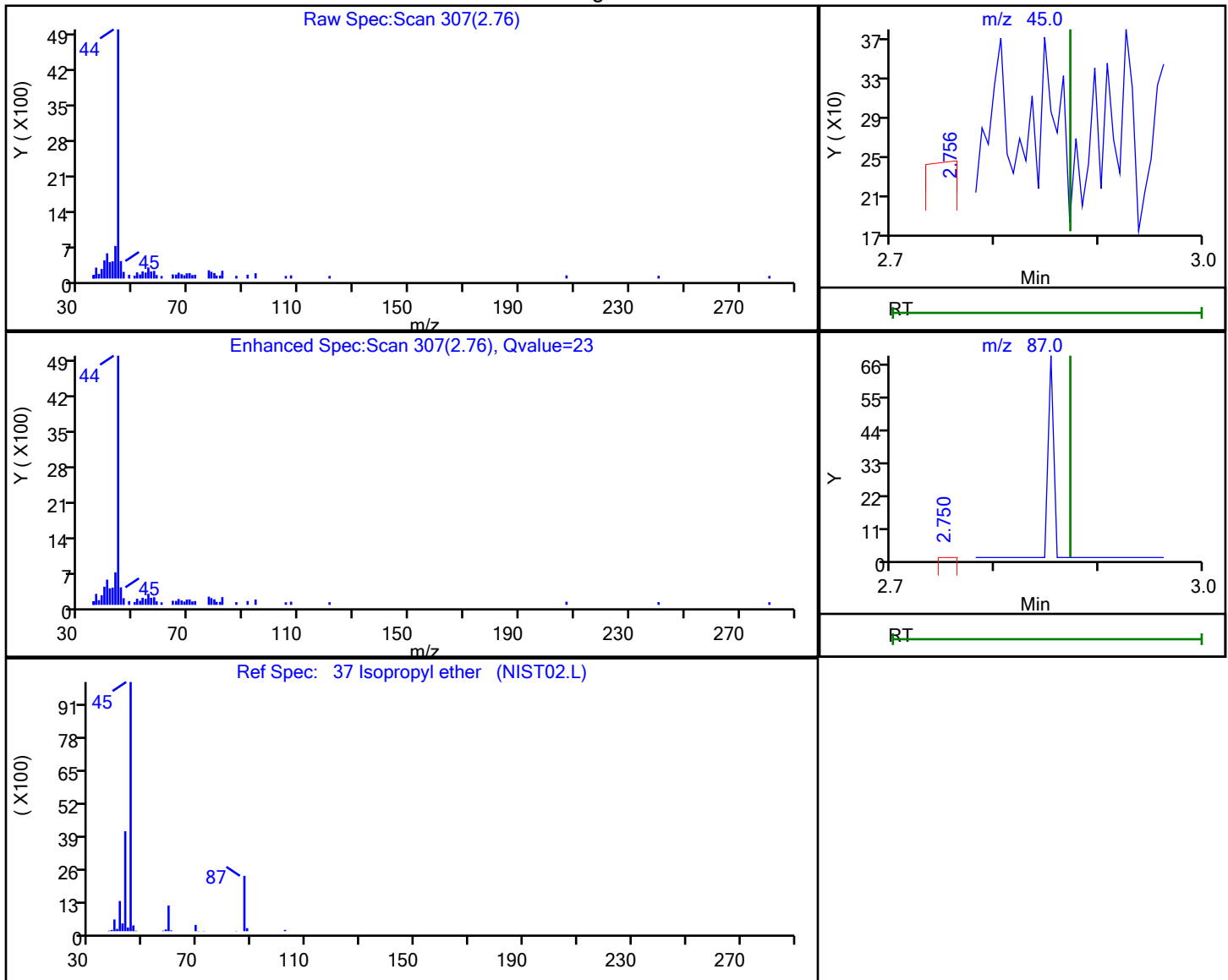
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

37 Isopropyl ether, CAS: 108-20-3

Processing Results



RT	Mass	Response	Amount
2.76	45.00	124	0.013315
2.75	87.00	46	

Reviewer: W9CM, 14-Oct-2022 15:01:31

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

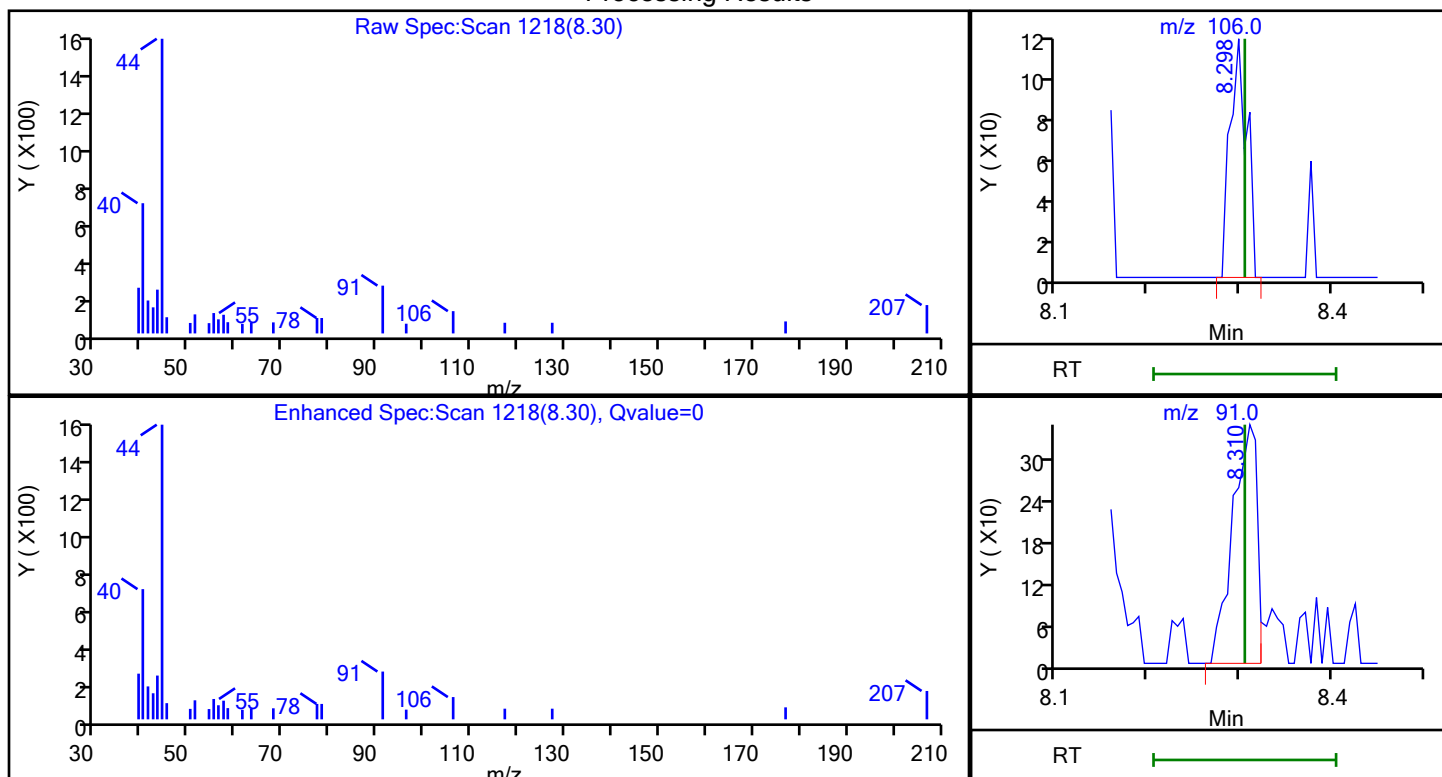
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

98 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
8.30	106.00	150	0.037266
8.31	91.00	634	

Reviewer: W9CM, 14-Oct-2022 15:02:34

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

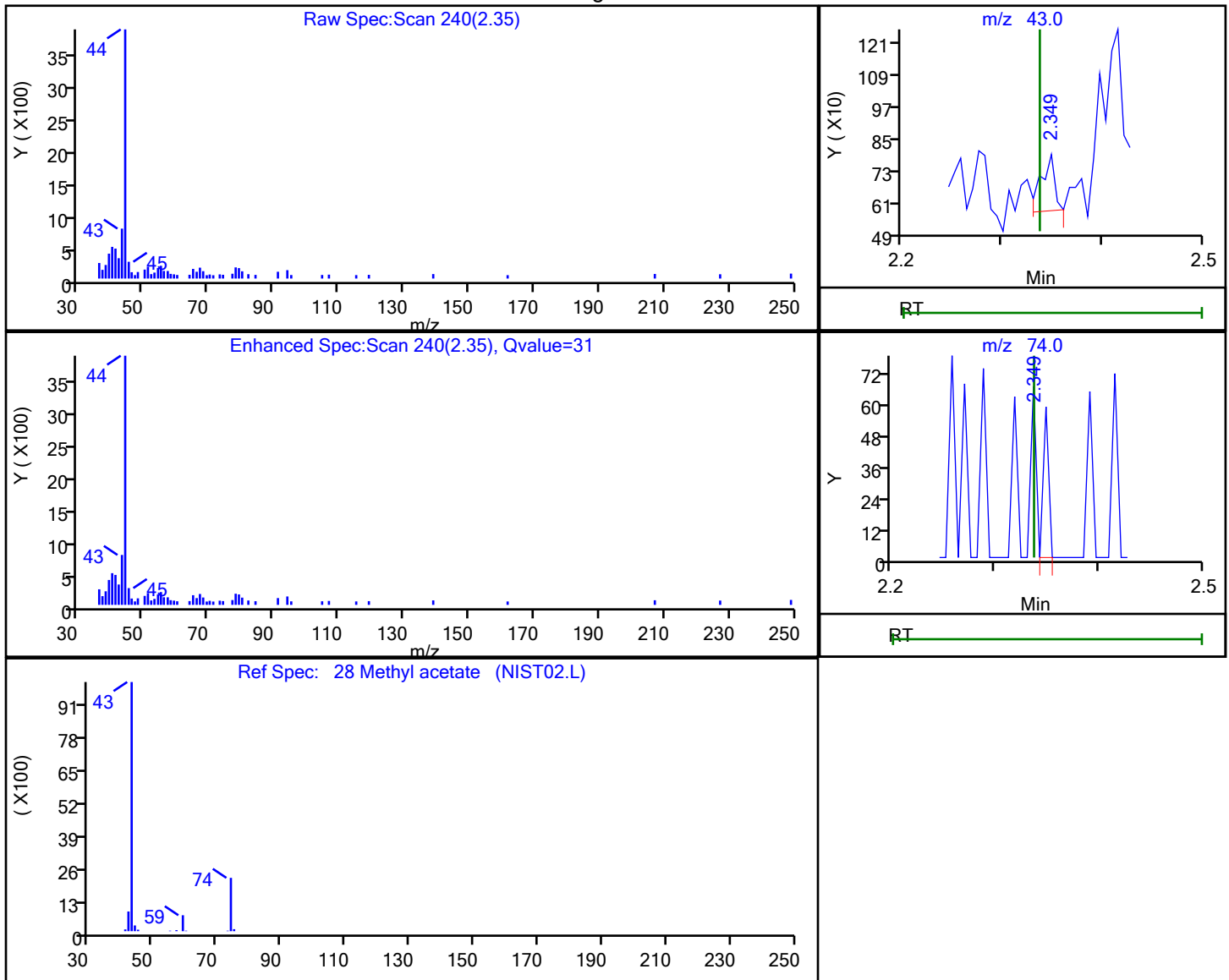
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

28 Methyl acetate, CAS: 79-20-9

Processing Results



RT	Mass	Response	Amount
2.35	43.00	200	0.104410
2.35	74.00	22	

Reviewer: W9CM, 14-Oct-2022 15:01:00

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

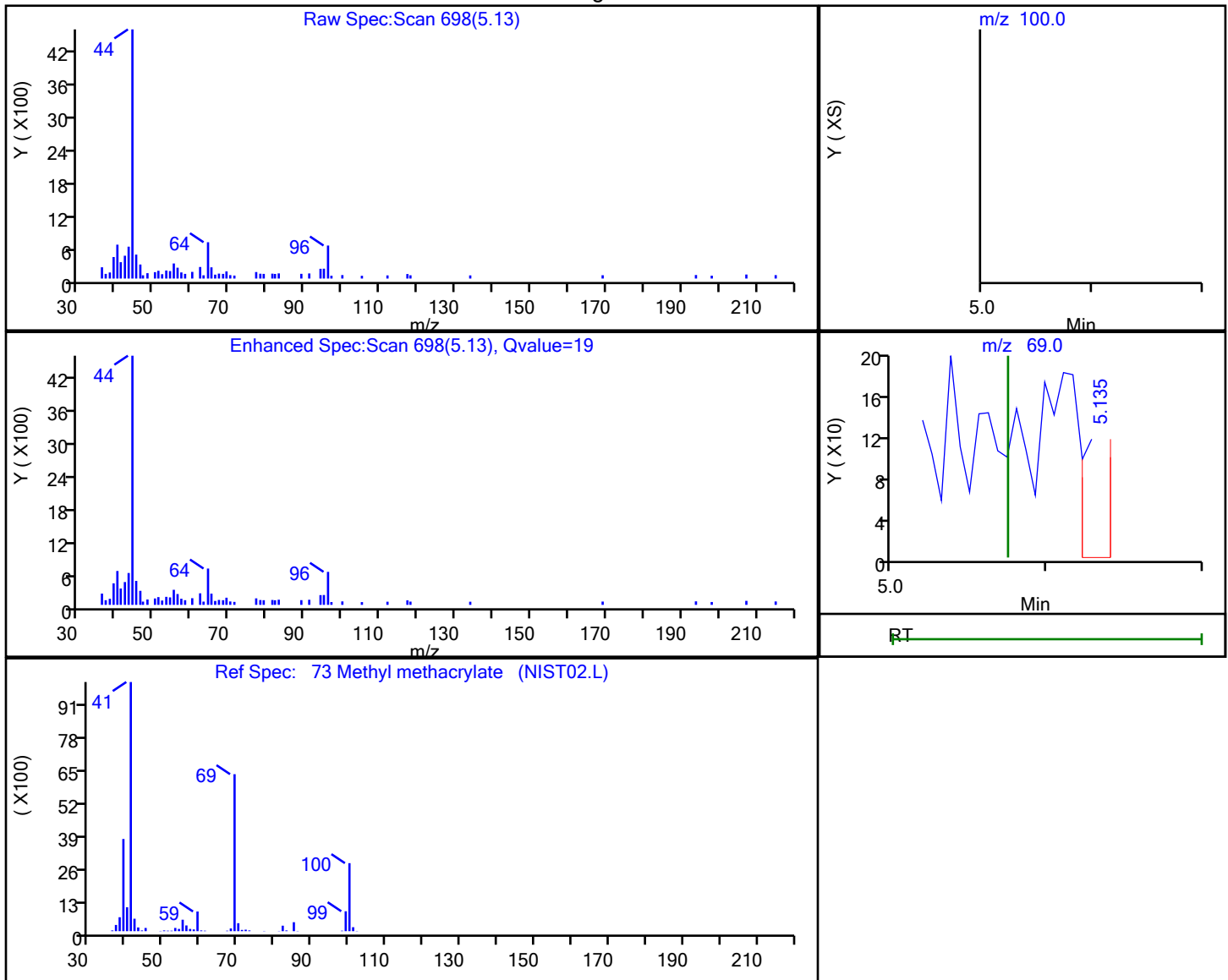
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

73 Methyl methacrylate, CAS: 80-62-6

Processing Results



RT	Mass	Response	Amount
5.13	100.00	43	0.096020
5.13	69.00	143	

Reviewer: W9CM, 14-Oct-2022 15:02:16

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

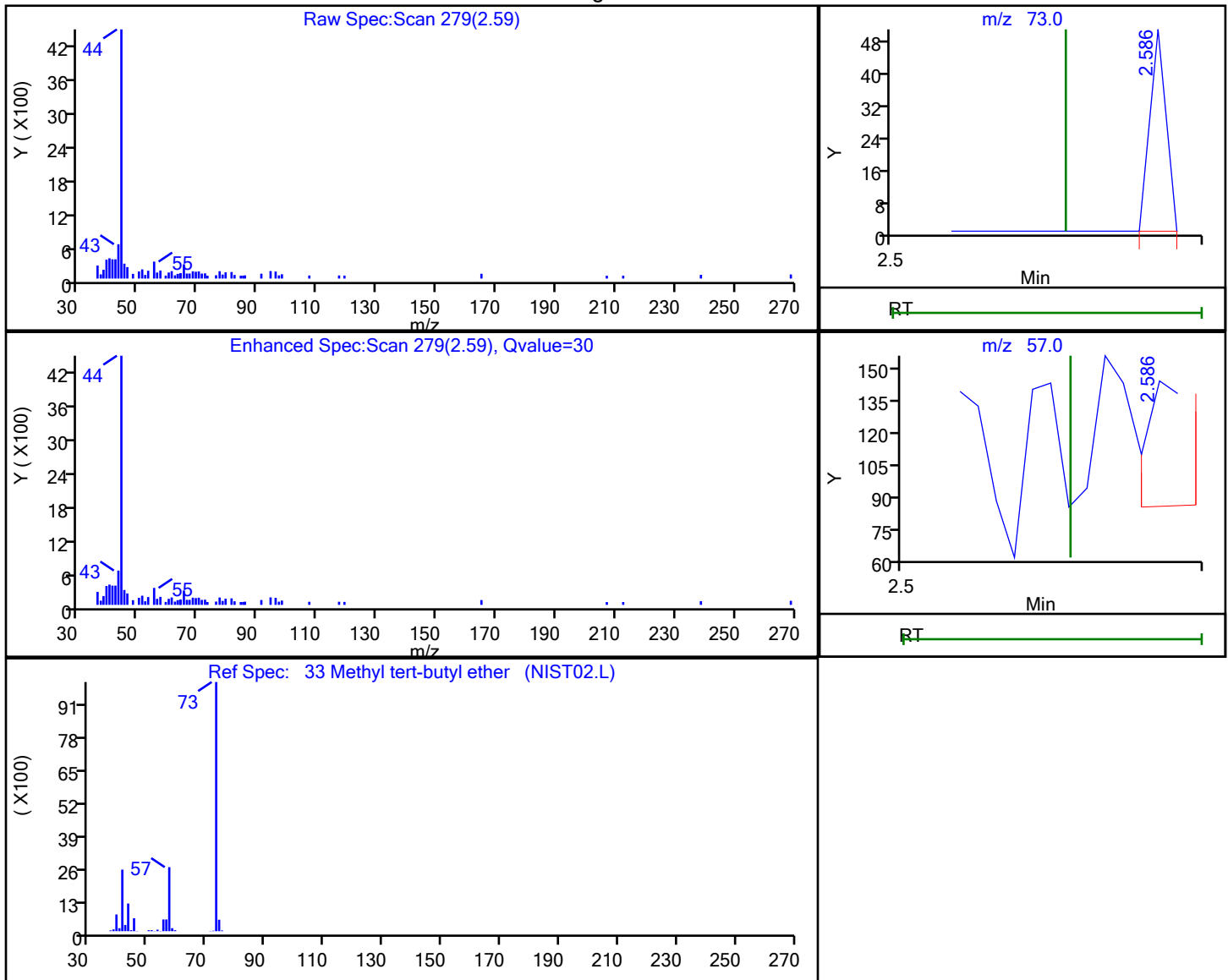
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

33 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



RT	Mass	Response	Amount
2.59	73.00	19	0.003118
2.59	57.00	51	

Reviewer: W9CM, 14-Oct-2022 15:01:26

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

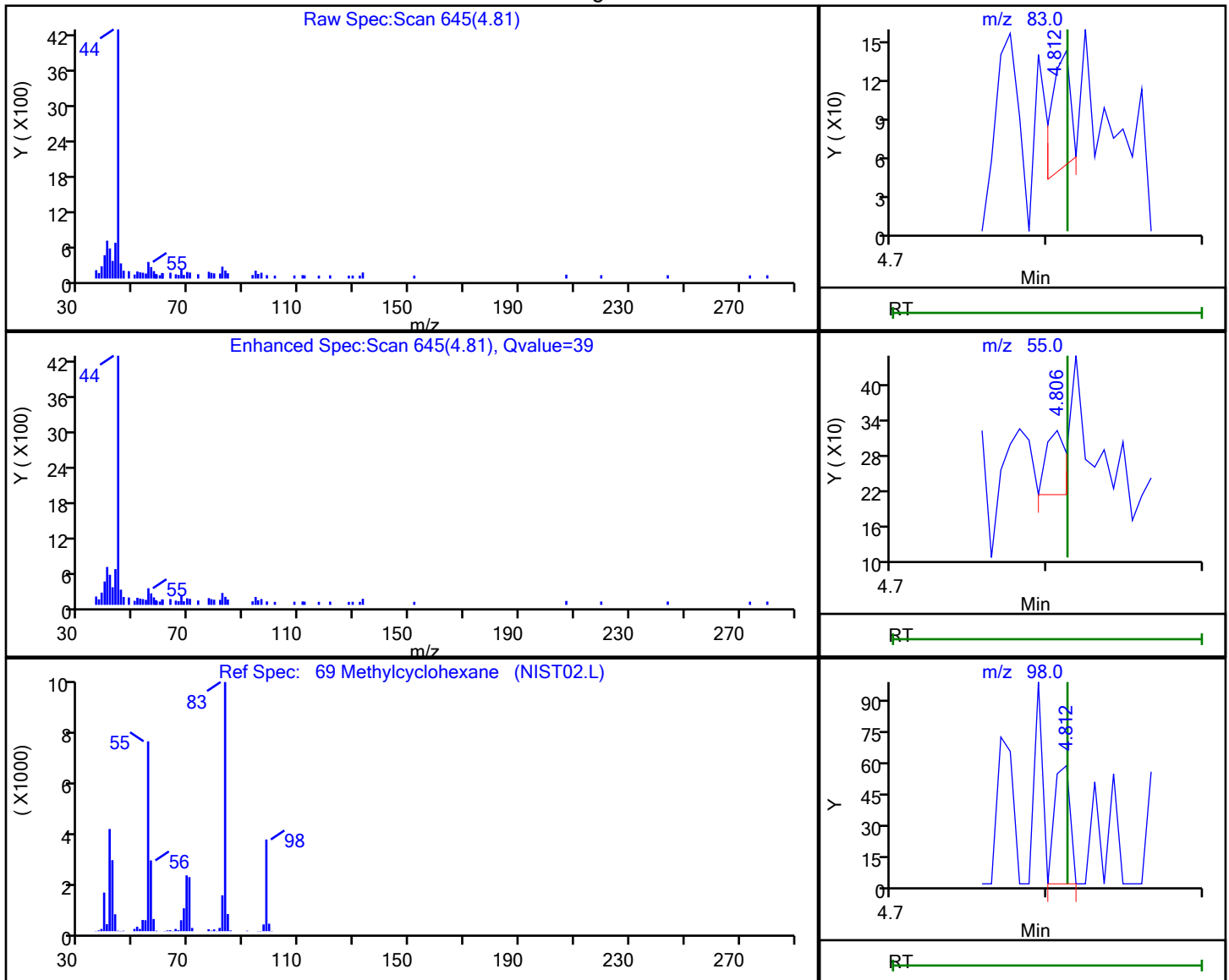
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

69 Methylcyclohexane, CAS: 108-87-2

Processing Results



RT	Mass	Response	Amount
4.81	83.00	74	0.026220
4.81	55.00	96	
4.81	98.00	41	

Reviewer: W9CM, 14-Oct-2022 15:02:13

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

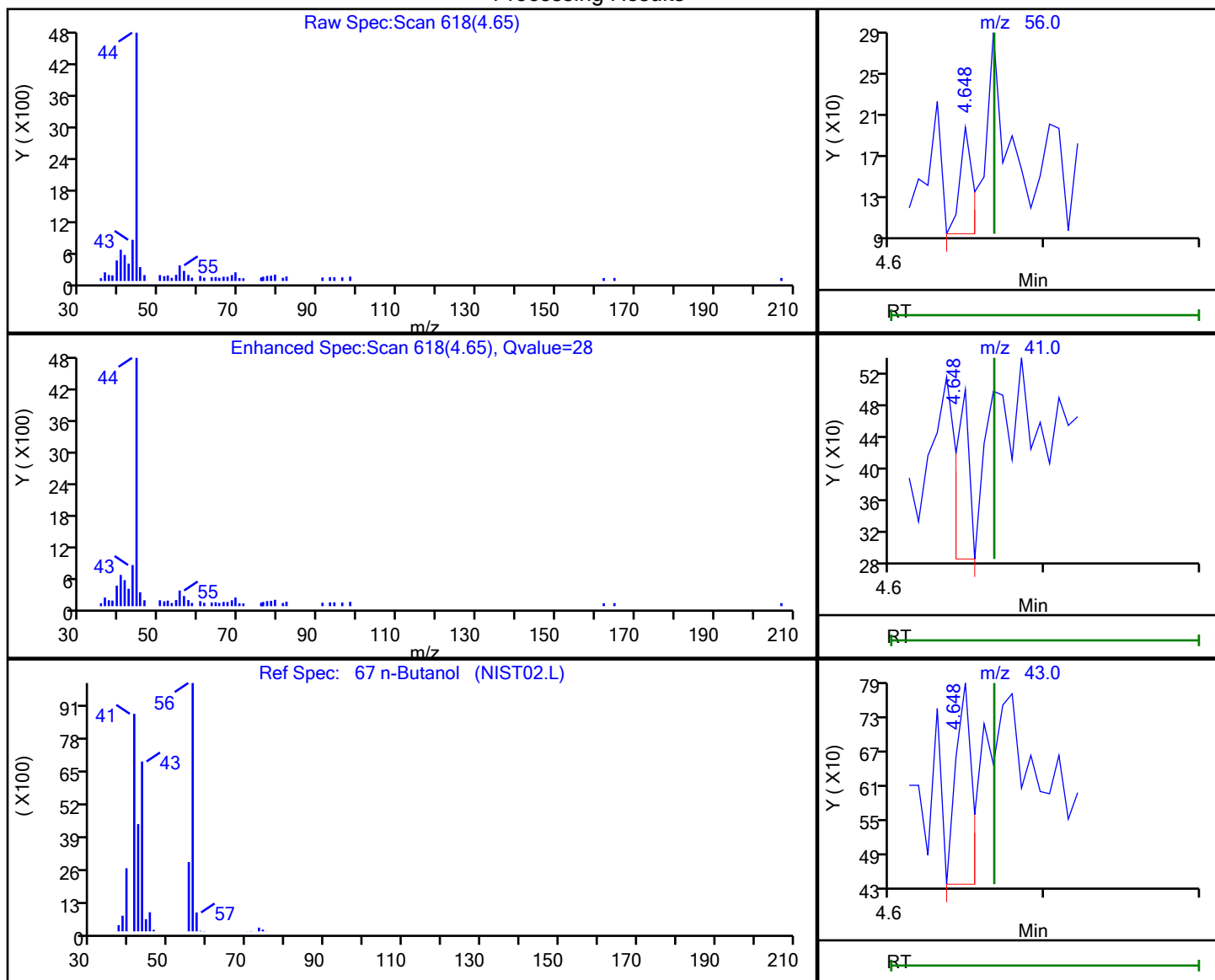
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

67 n-Butanol, CAS: 71-36-3

Processing Results



RT	Mass	Response	Amount
4.65	56.00	57	1.801659
4.65	41.00	126	
4.65	43.00	257	

Reviewer: W9CM, 14-Oct-2022 15:02:11

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

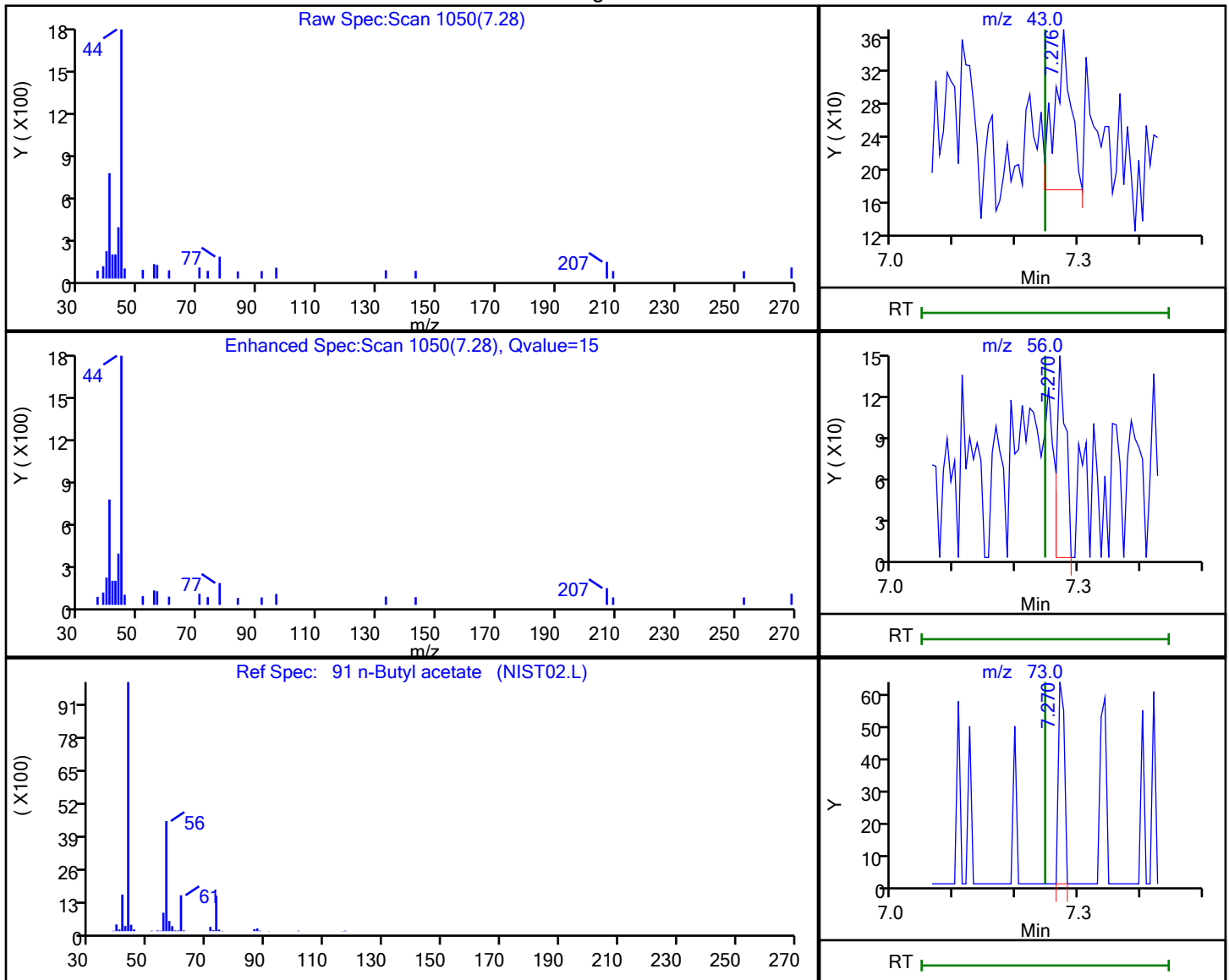
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

91 n-Butyl acetate, CAS: 123-86-4

Processing Results



RT	Mass	Response	Amount
7.28	43.00	332	0.070265
7.27	56.00	144	
7.27	73.00	43	

Reviewer: W9CM, 14-Oct-2022 15:02:31

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

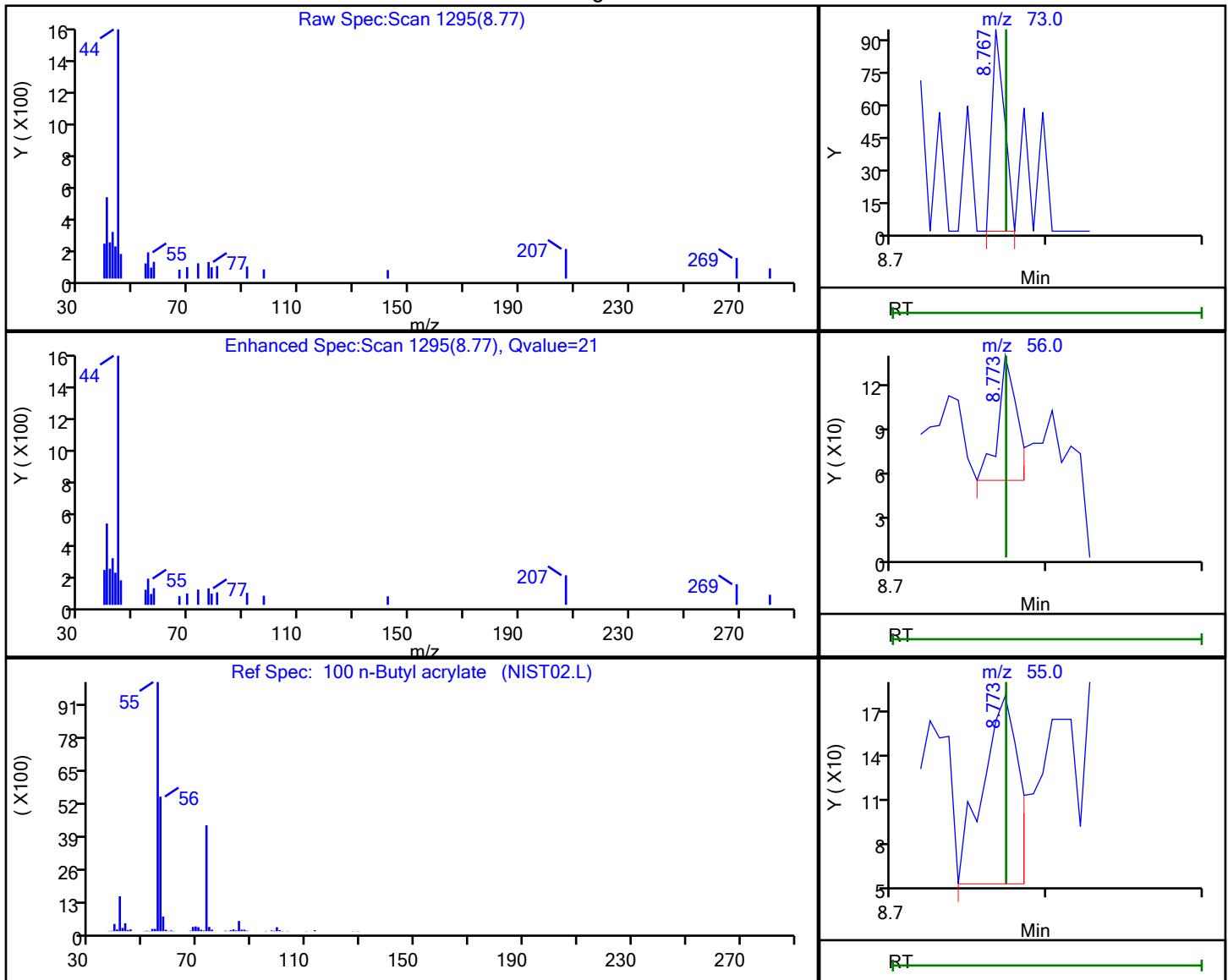
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

100 n-Butyl acrylate, CAS: 141-32-2

Processing Results



RT	Mass	Response	Amount
8.77	73.00	53	0.025916
8.77	56.00	71	
8.77	55.00	197	

Reviewer: W9CM, 14-Oct-2022 15:02:37

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

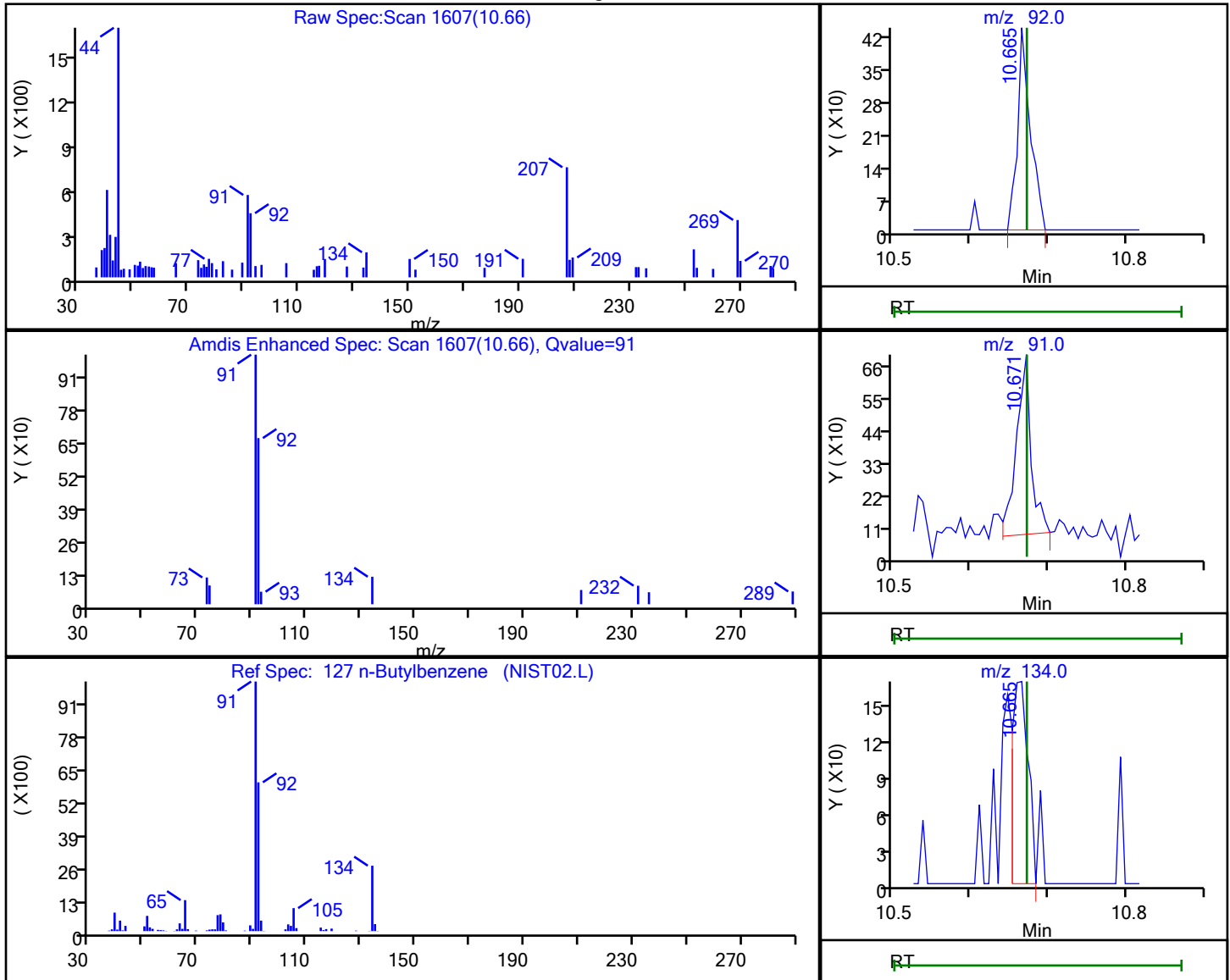
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

127 n-Butylbenzene, CAS: 104-51-8

Processing Results



RT	Mass	Response	Amount
10.66	92.00	499	0.112592
10.67	91.00	817	
10.66	134.00	242	

Reviewer: W9CM, 14-Oct-2022 15:03:13

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

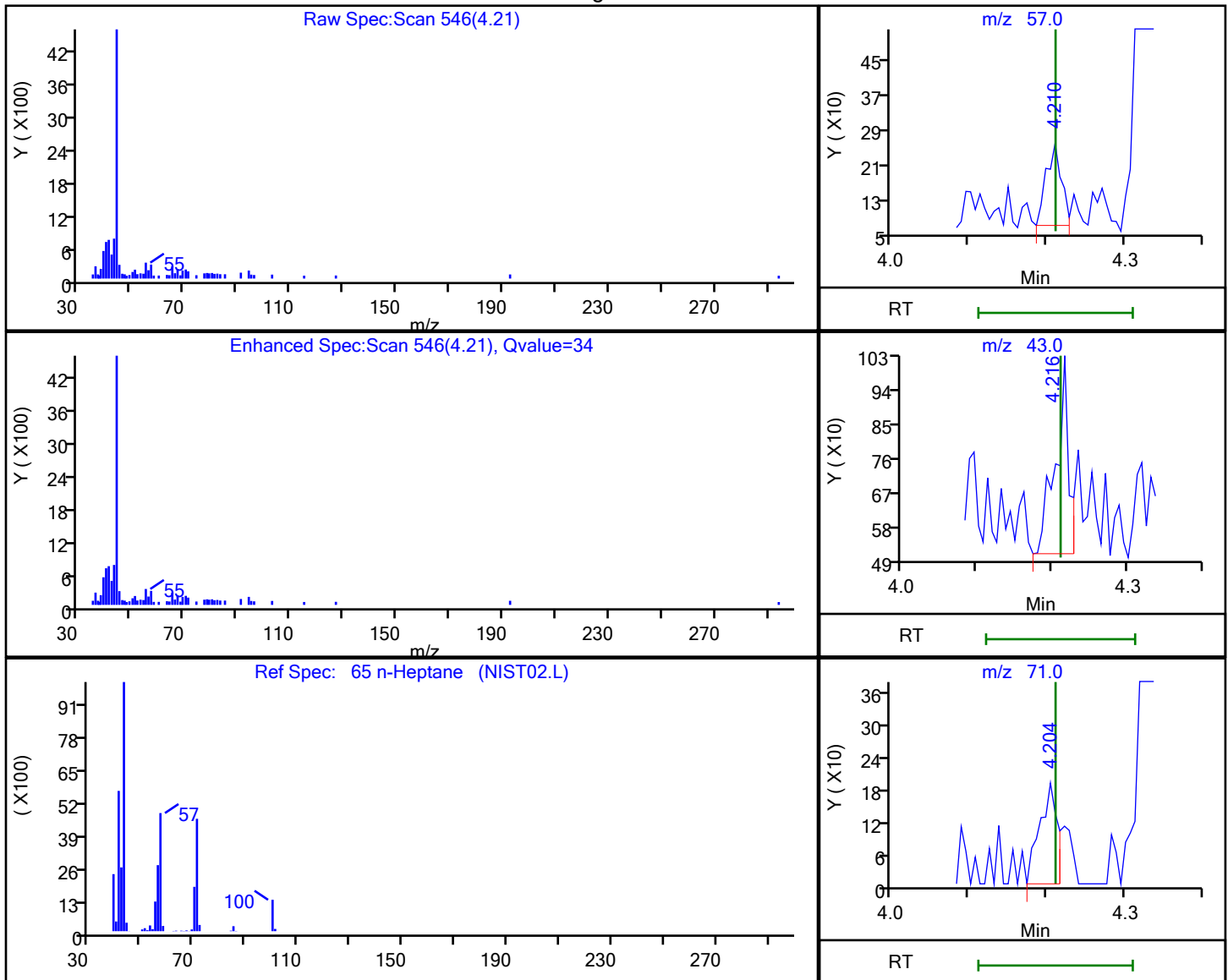
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

65 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
4.21	57.00	256	0.229624
4.22	43.00	631	
4.20	71.00	300	

Reviewer: W9CM, 14-Oct-2022 15:02:10

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

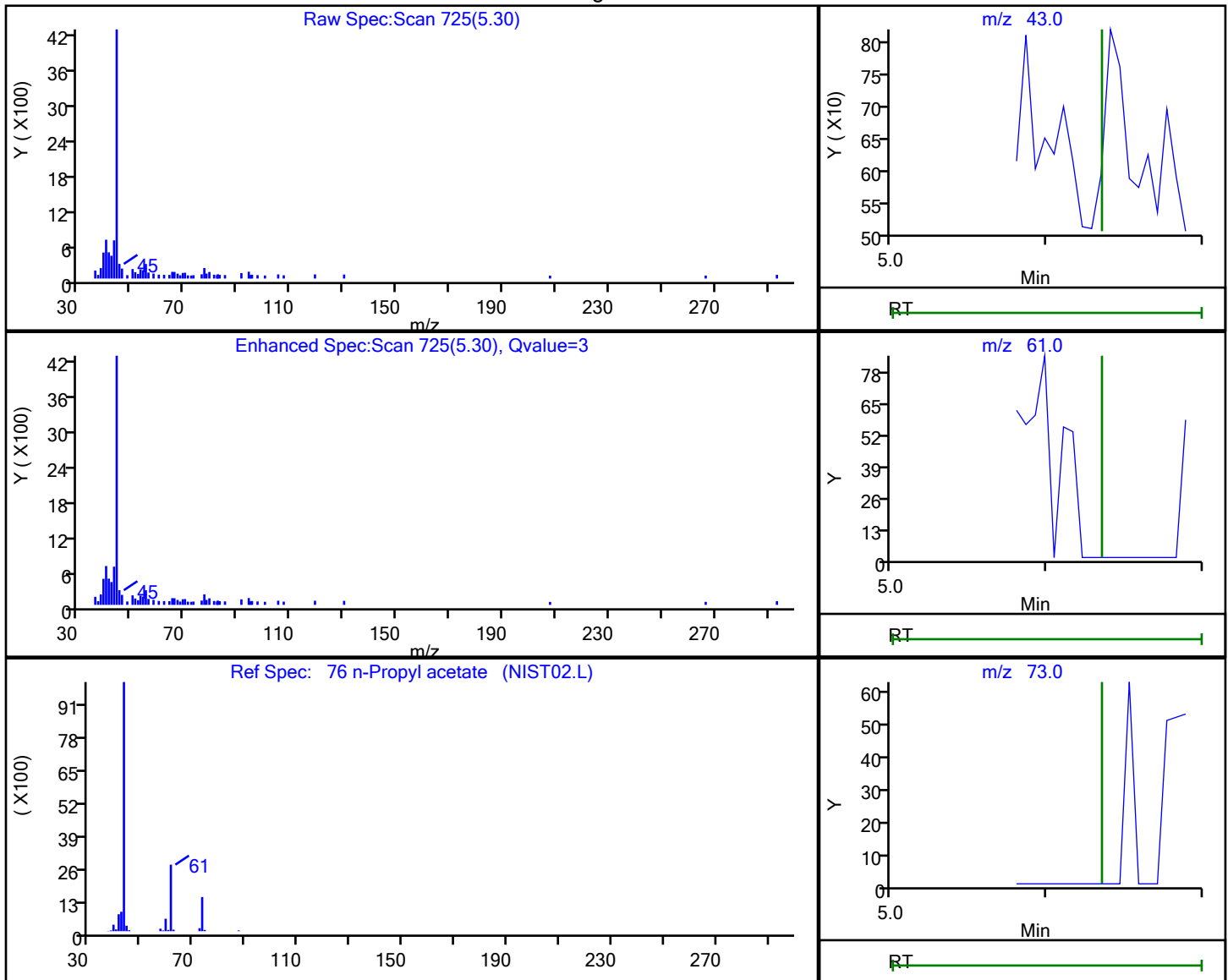
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

76 n-Propyl acetate, CAS: 109-60-4

Processing Results



RT	Mass	Response	Amount
5.30	43.00	97	0.025954
5.29	61.00	19	
5.31	73.00	54	

Reviewer: W9CM, 14-Oct-2022 15:02:19

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

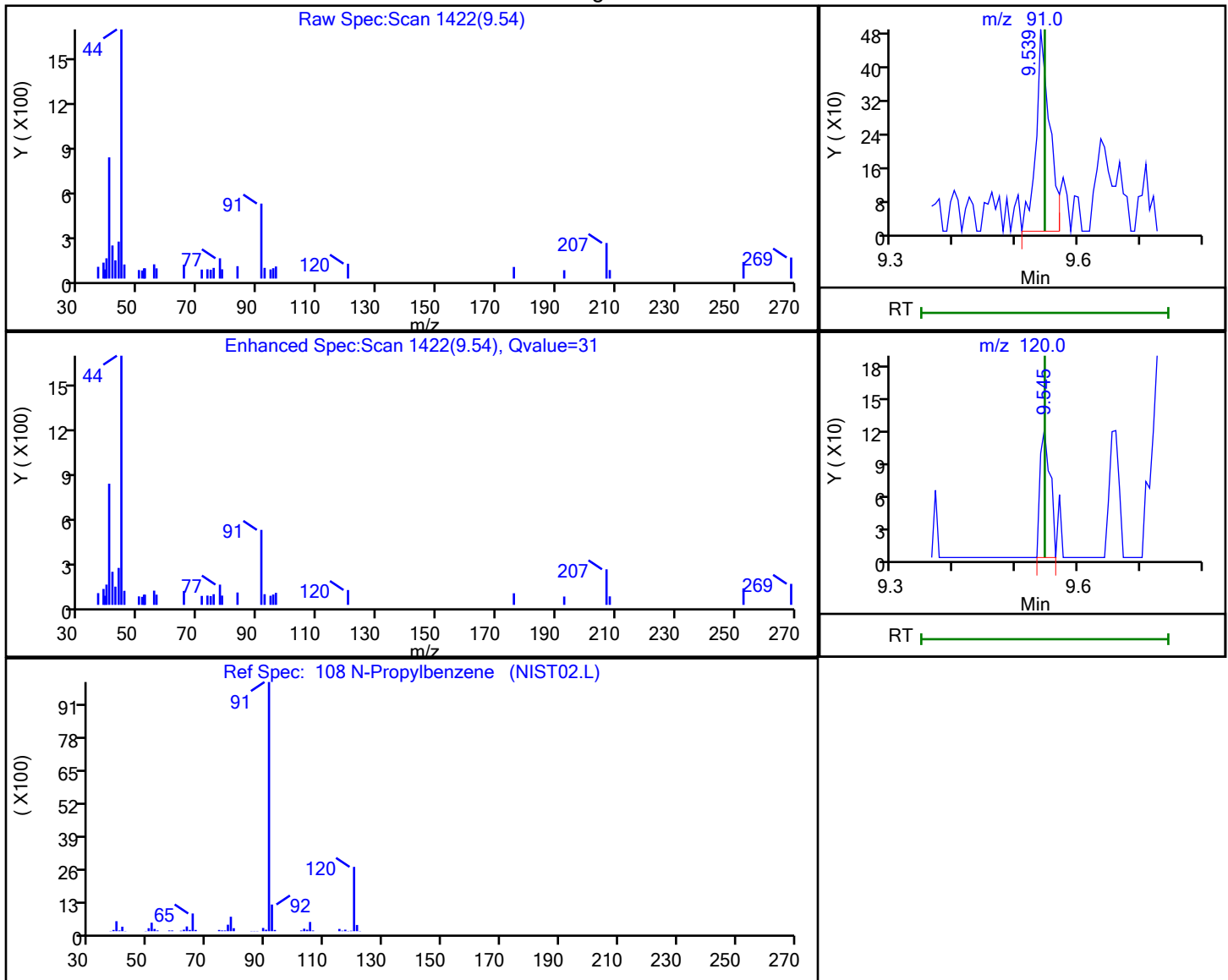
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

108 N-Propylbenzene, CAS: 103-65-1

Processing Results



RT	Mass	Response	Amount
9.54	91.00	747	0.059634
9.55	120.00	134	

Reviewer: W9CM, 14-Oct-2022 15:02:45

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#:

3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

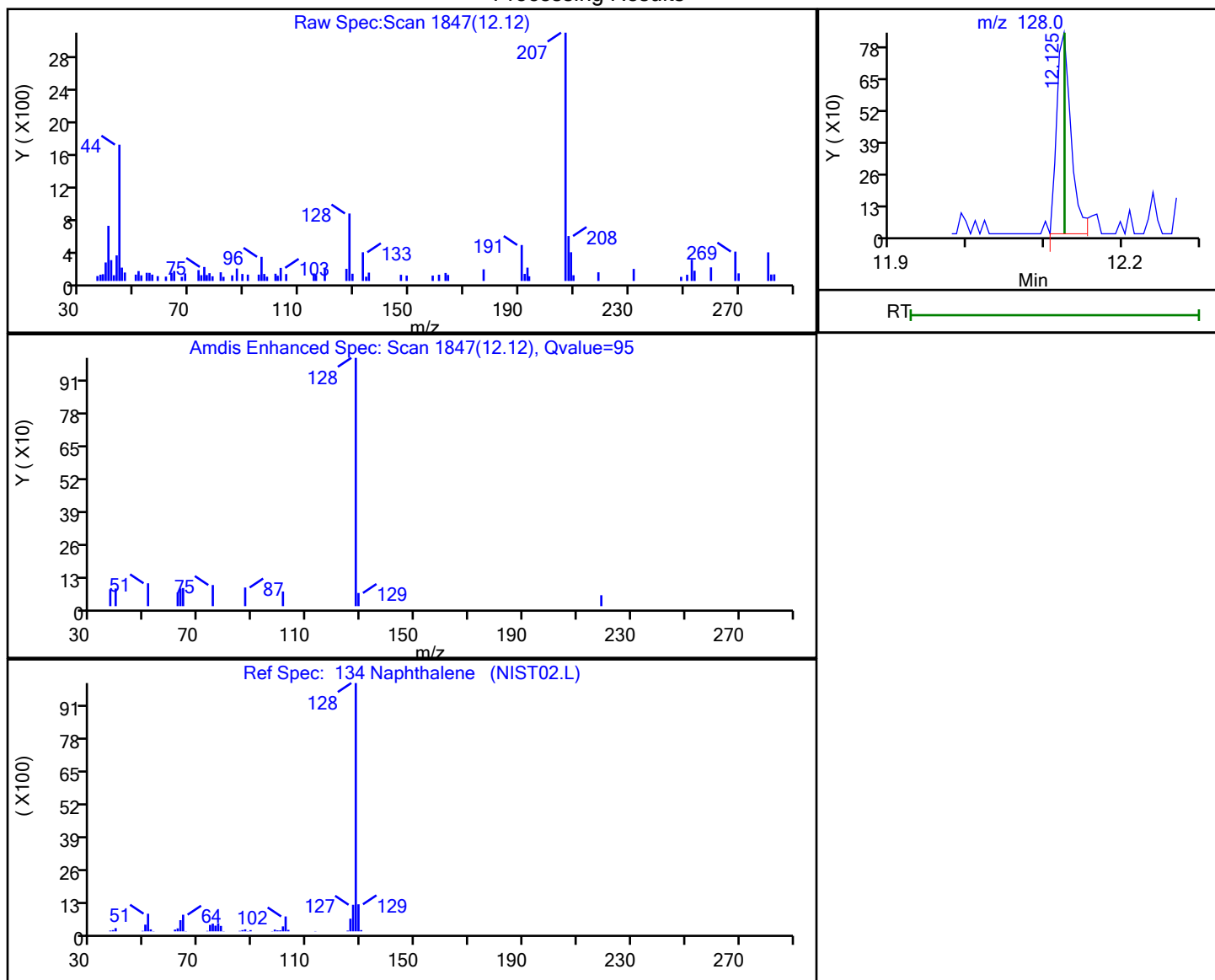
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

134 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
12.12	128.00	1084	0.135480

Reviewer: W9CM, 14-Oct-2022 15:03:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#:

3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

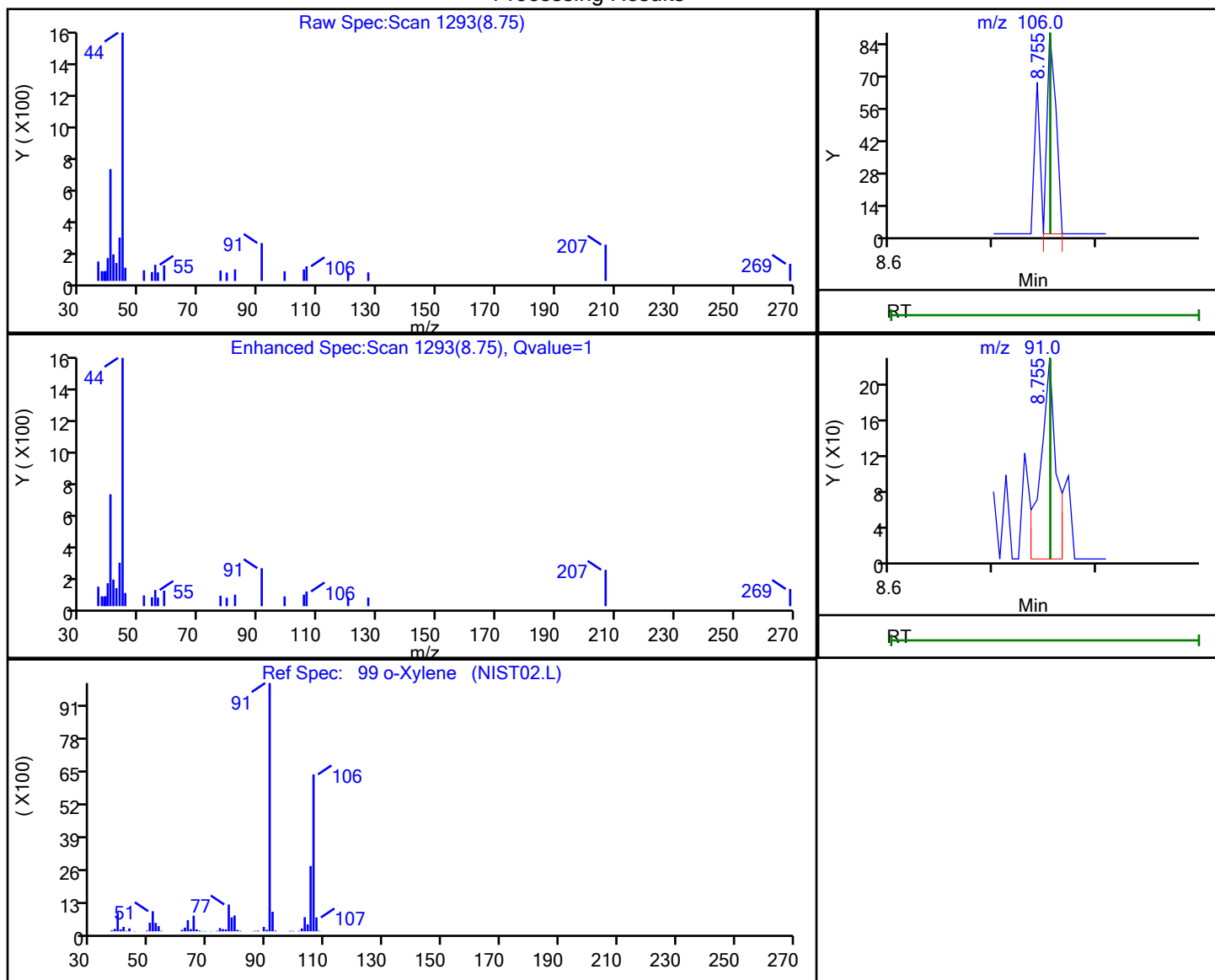
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

99 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
8.75	106.00	53	0.013096
8.75	91.00	243	

Reviewer: W9CM, 14-Oct-2022 15:02:40

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

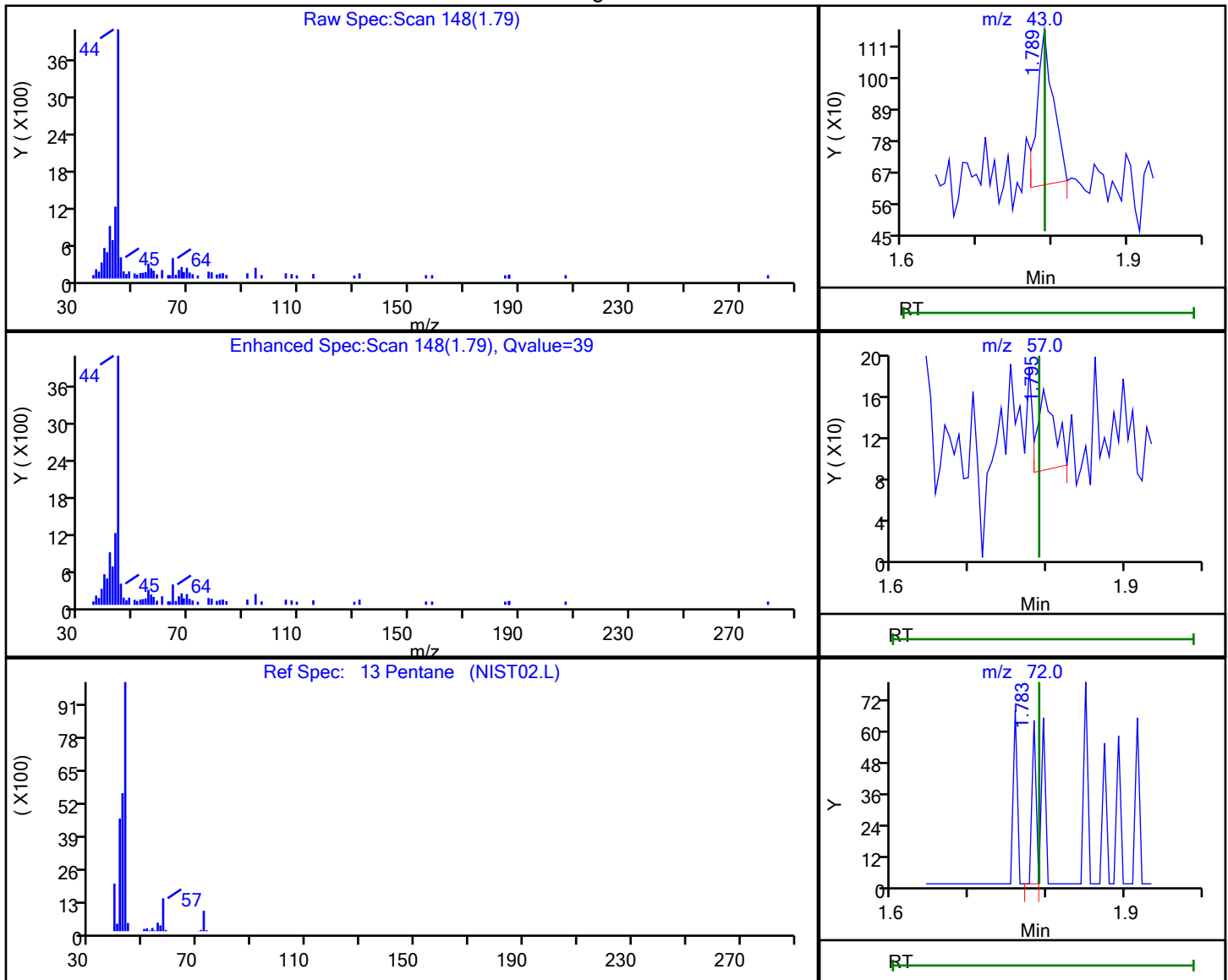
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

13 Pentane, CAS: 109-66-0

Processing Results



RT	Mass	Response	Amount
1.79	43.00	813	0.208012
1.80	57.00	116	
1.78	72.00	23	

Reviewer: W9CM, 14-Oct-2022 14:49:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

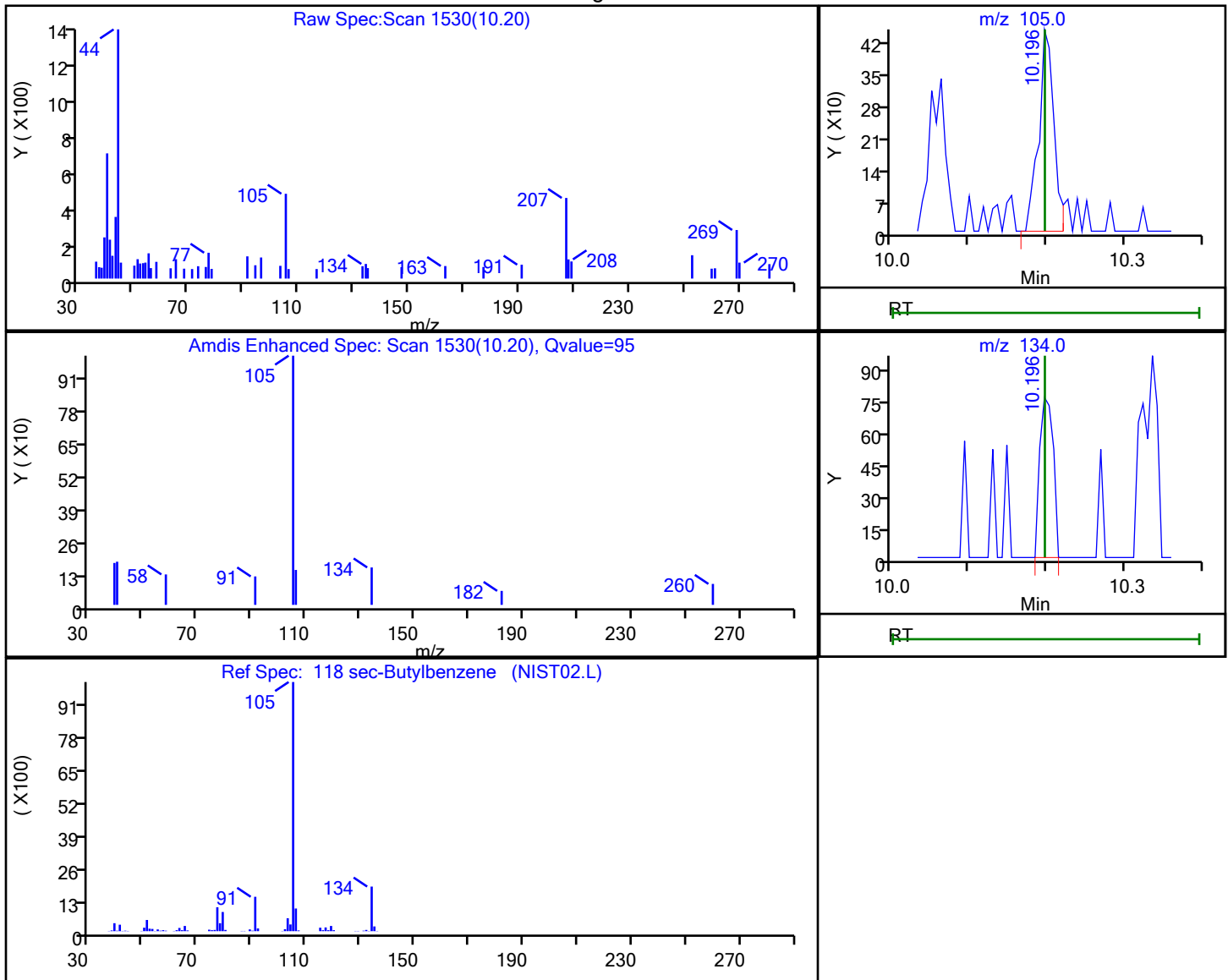
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

118 sec-Butylbenzene, CAS: 135-98-8

Processing Results



RT	Mass	Response	Amount
10.20	105.00	611	0.064246
10.20	134.00	93	

Reviewer: W9CM, 14-Oct-2022 15:03:00

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

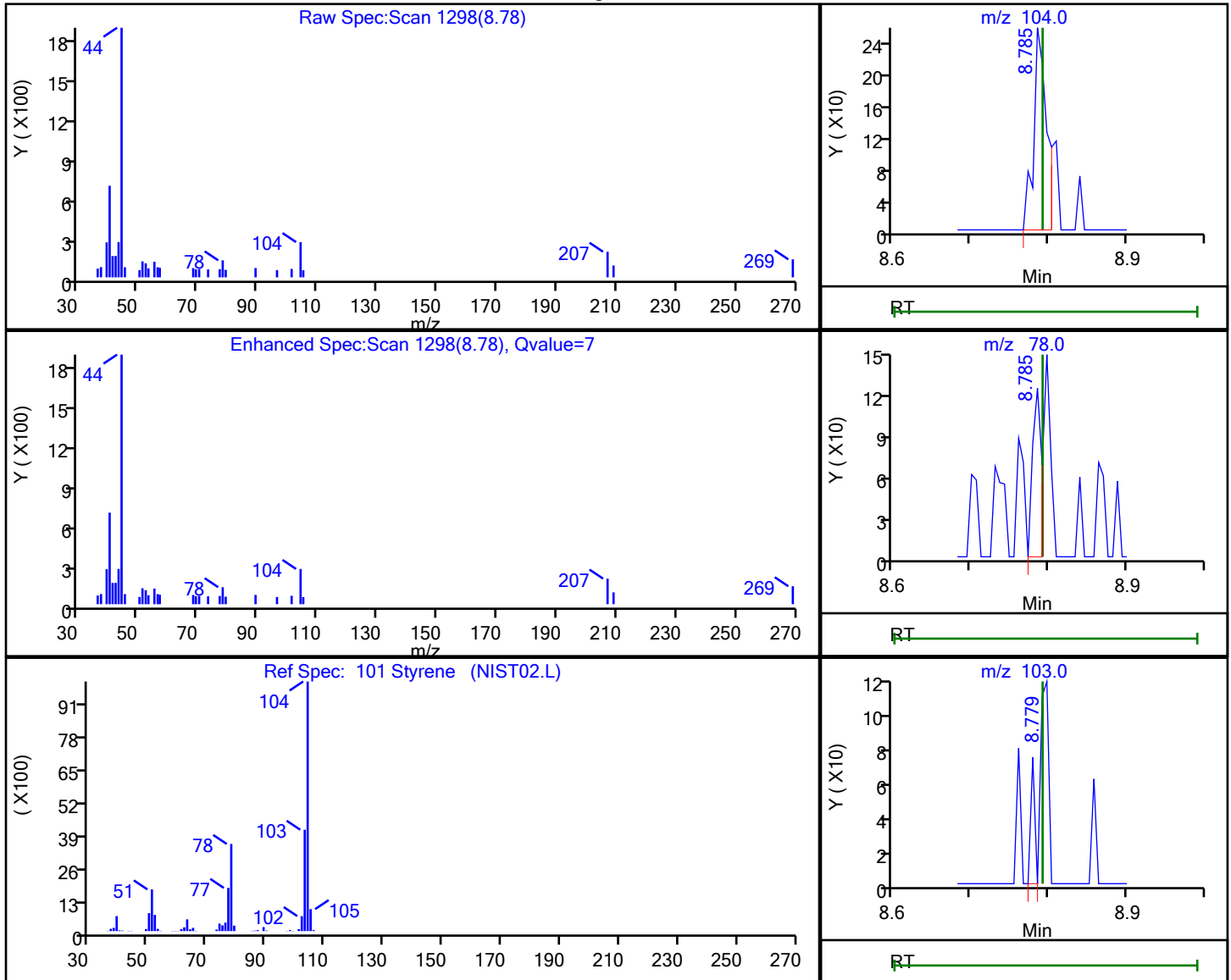
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

101 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
8.78	104.00	304	0.043824
8.78	78.00	101	
8.78	103.00	26	

Reviewer: W9CM, 14-Oct-2022 15:02:38

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

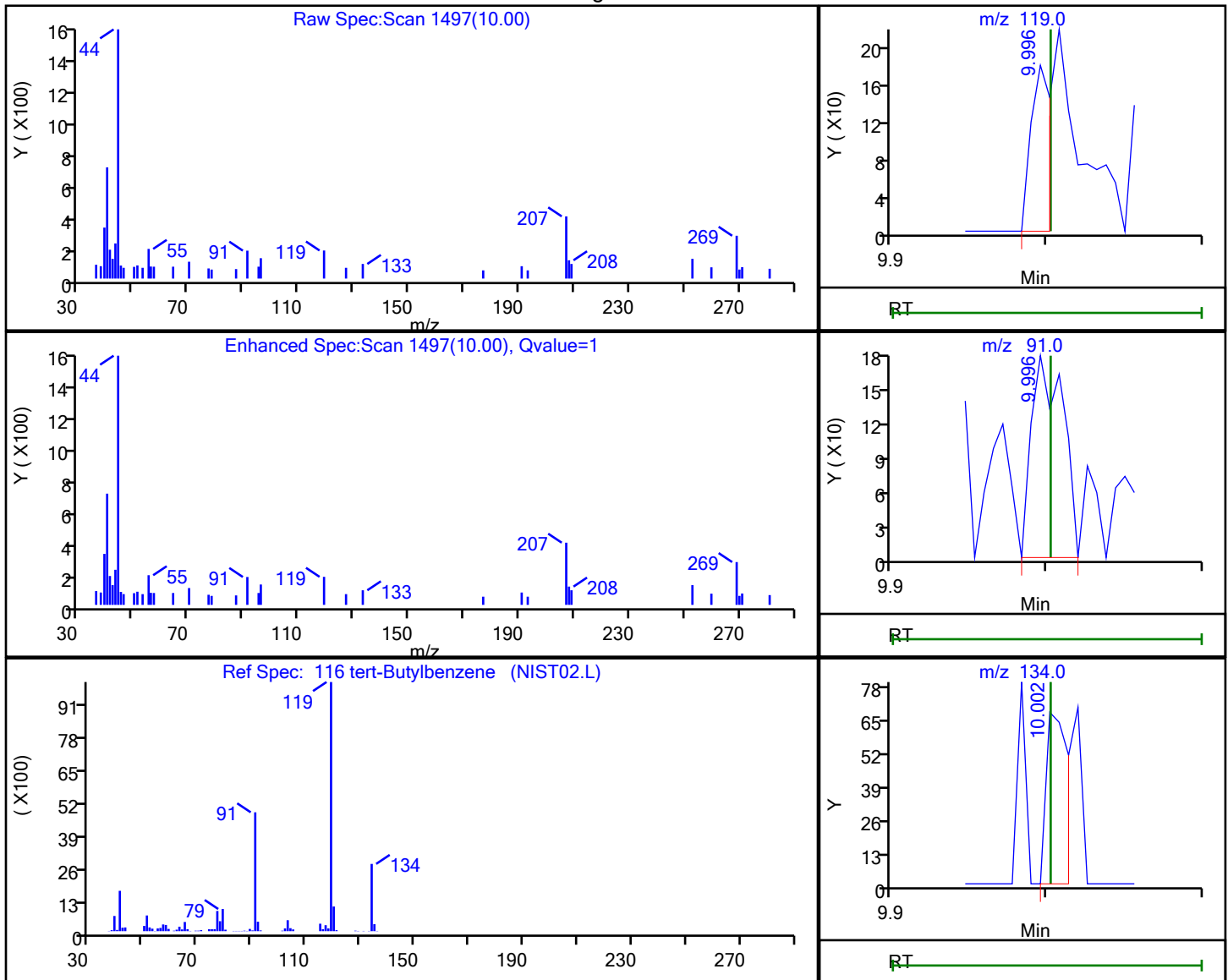
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

116 tert-Butylbenzene, CAS: 98-06-6

Processing Results



RT	Mass	Response	Amount
10.00	119.00	157	0.024857
10.00	91.00	248	
10.00	134.00	67	

Reviewer: W9CM, 14-Oct-2022 15:02:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

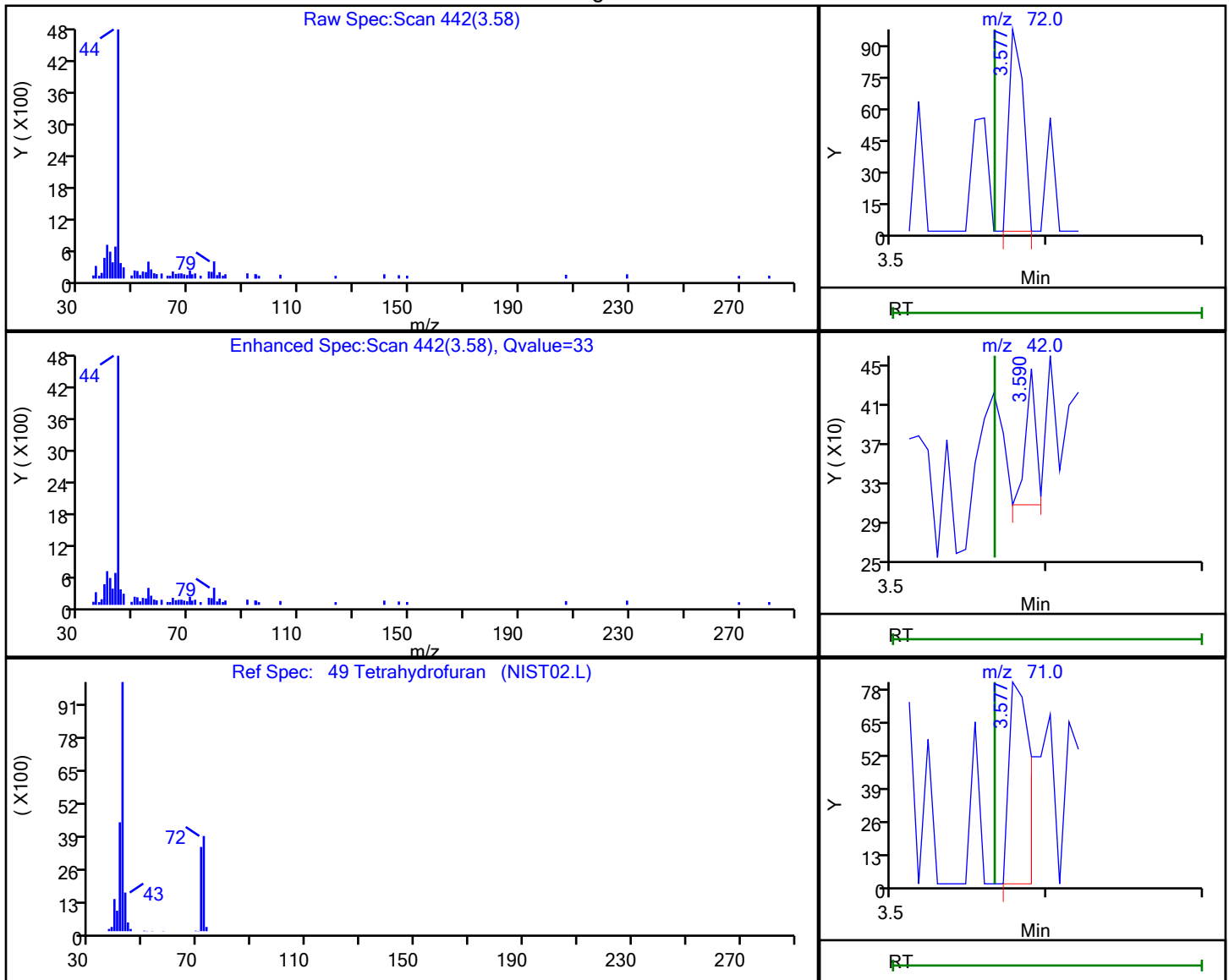
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Processing Results



RT	Mass	Response	Amount
3.58	72.00	63	0.308920
3.59	42.00	61	
3.58	71.00	76	

Reviewer: W9CM, 14-Oct-2022 15:01:55

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

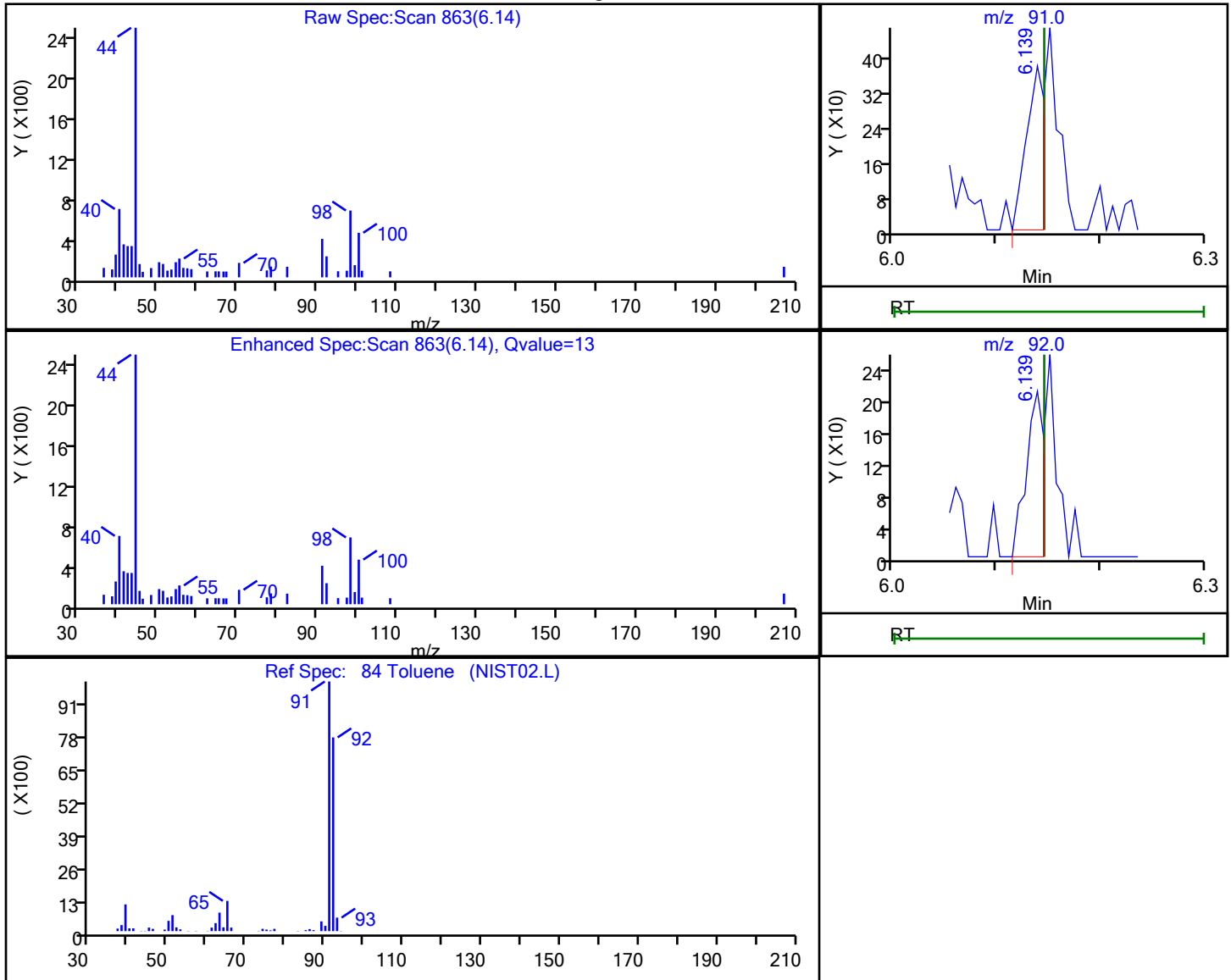
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

84 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
6.14	91.00	457	0.044669
6.14	92.00	245	

Reviewer: W9CM, 14-Oct-2022 15:02:30

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

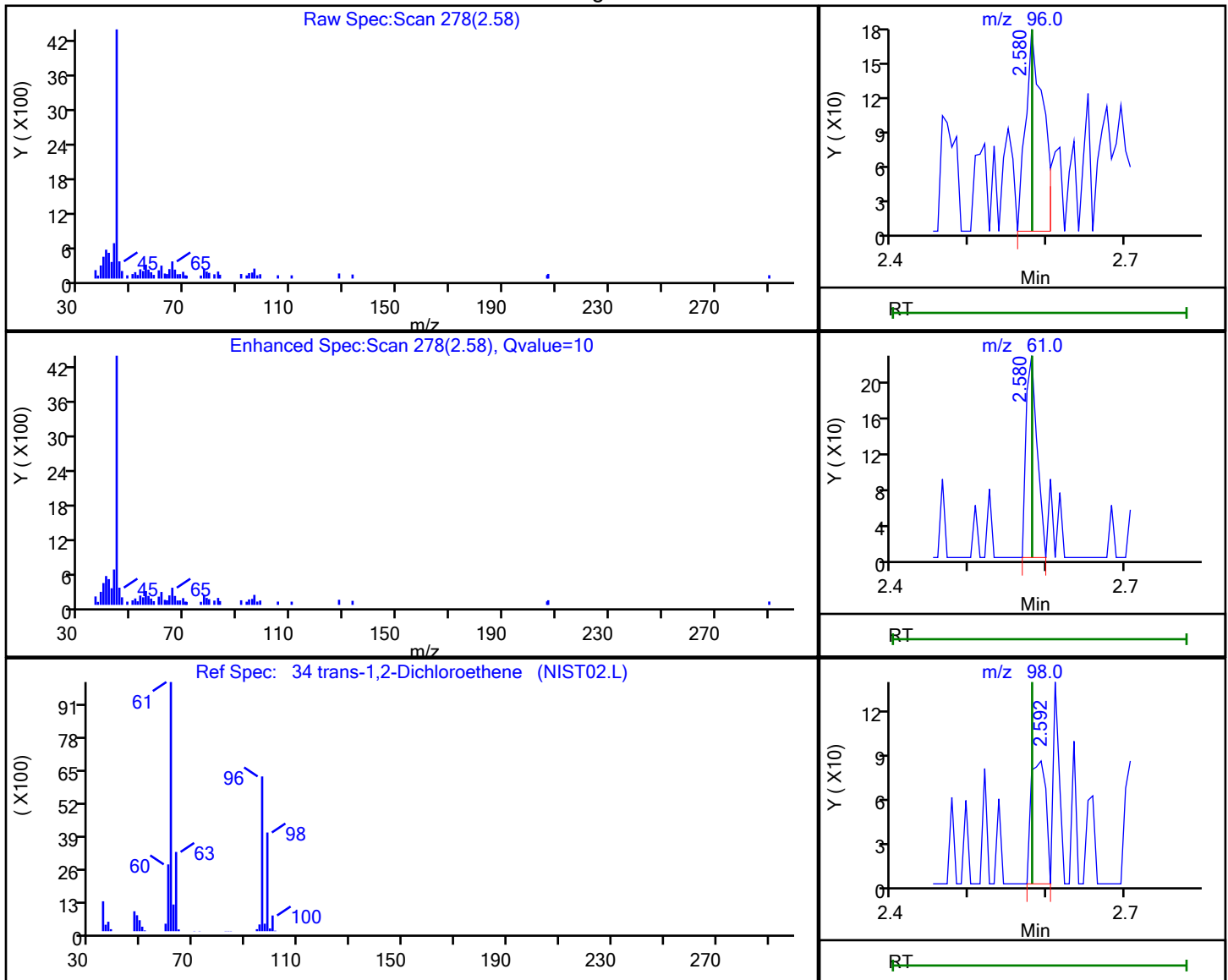
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
2.58	96.00	272	0.120996
2.58	61.00	222	
2.59	98.00	108	

Reviewer: W9CM, 14-Oct-2022 15:01:27

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

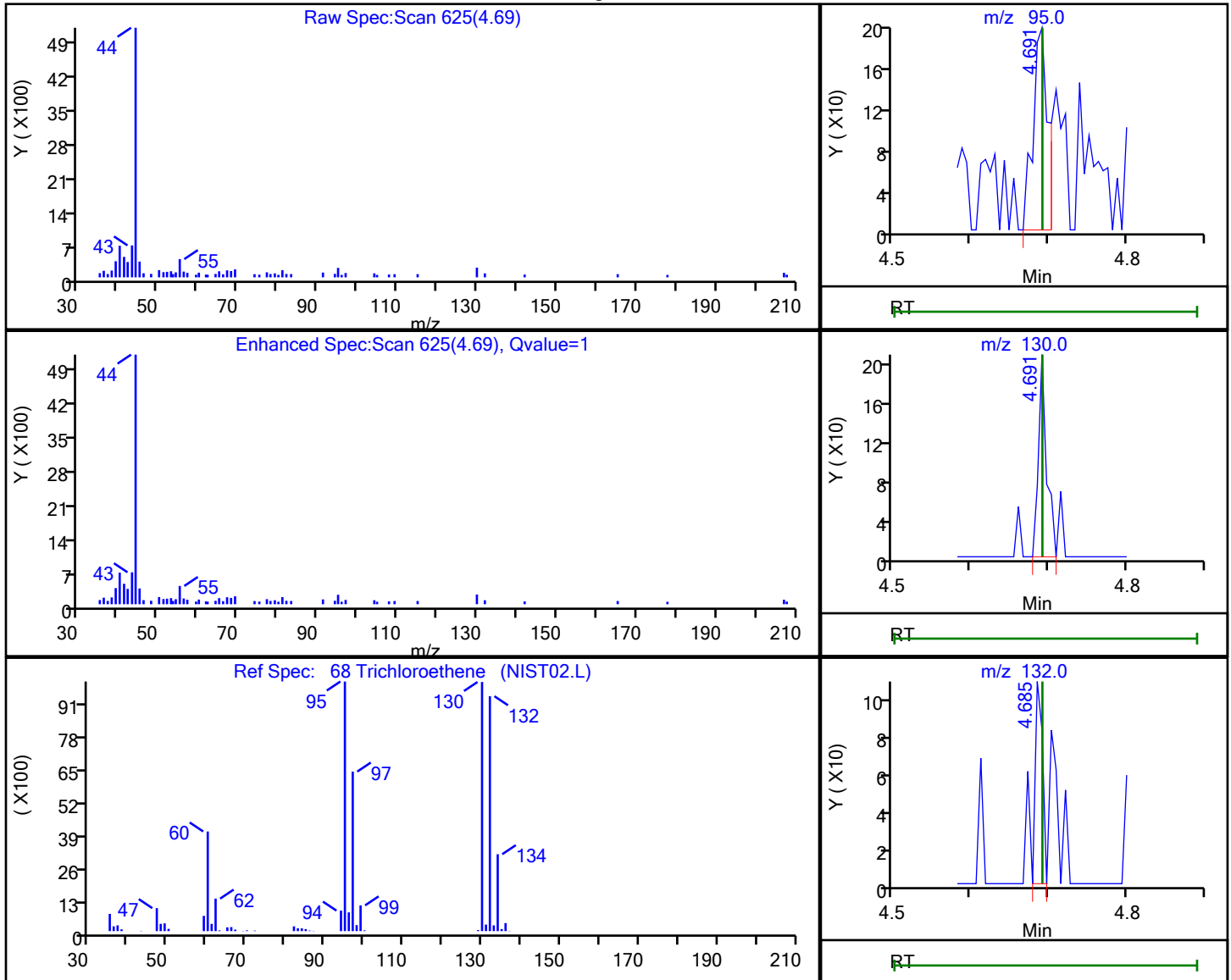
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

68 Trichloroethene, CAS: 79-01-6

Processing Results



RT	Mass	Response	Amount
4.69	95.00	264	0.106193
4.69	130.00	148	
4.68	132.00	69	

Reviewer: W9CM, 14-Oct-2022 15:02:12

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

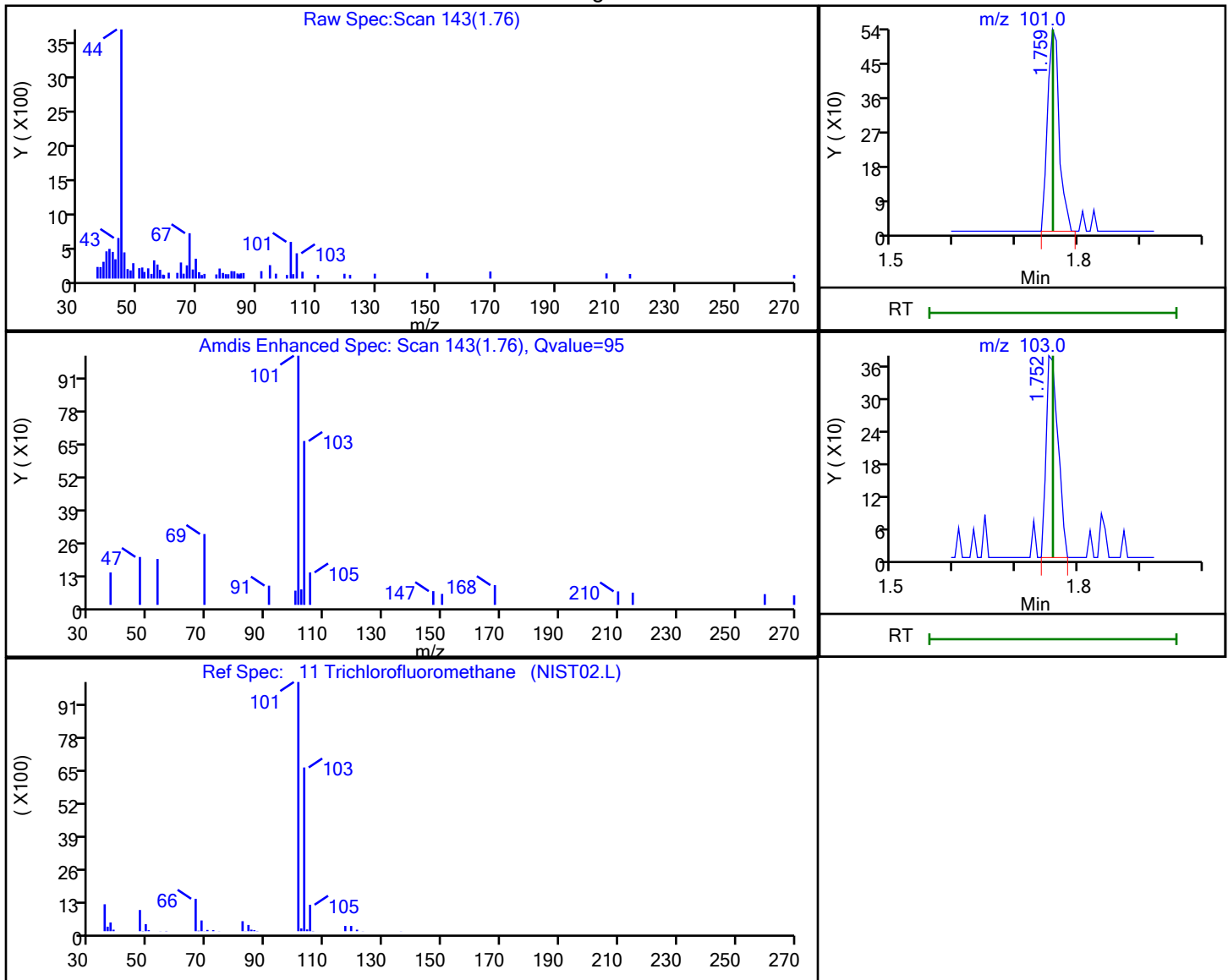
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

11 Trichlorofluoromethane, CAS: 75-69-4

Processing Results



RT	Mass	Response	Amount
1.76	101.00	700	0.250000
1.75	103.00	503	

Reviewer: HVW2, 12-Oct-2022 23:53:34

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

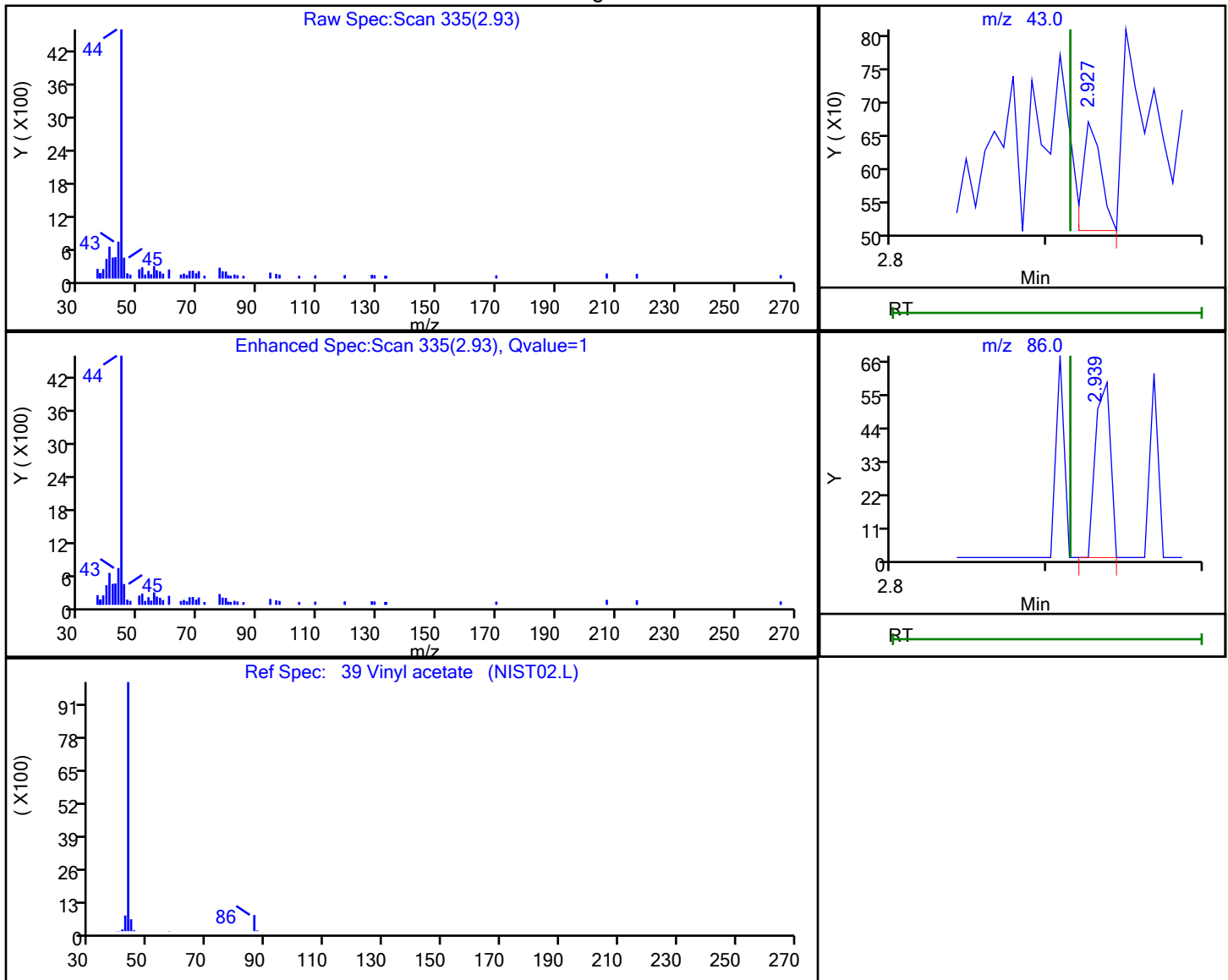
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

39 Vinyl acetate, CAS: 108-05-4

Processing Results



RT	Mass	Response	Amount
2.93	43.00	131	0.022151
2.94	86.00	40	

Reviewer: W9CM, 14-Oct-2022 15:01:35

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81262.D

Injection Date: 12-Oct-2022 23:30:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

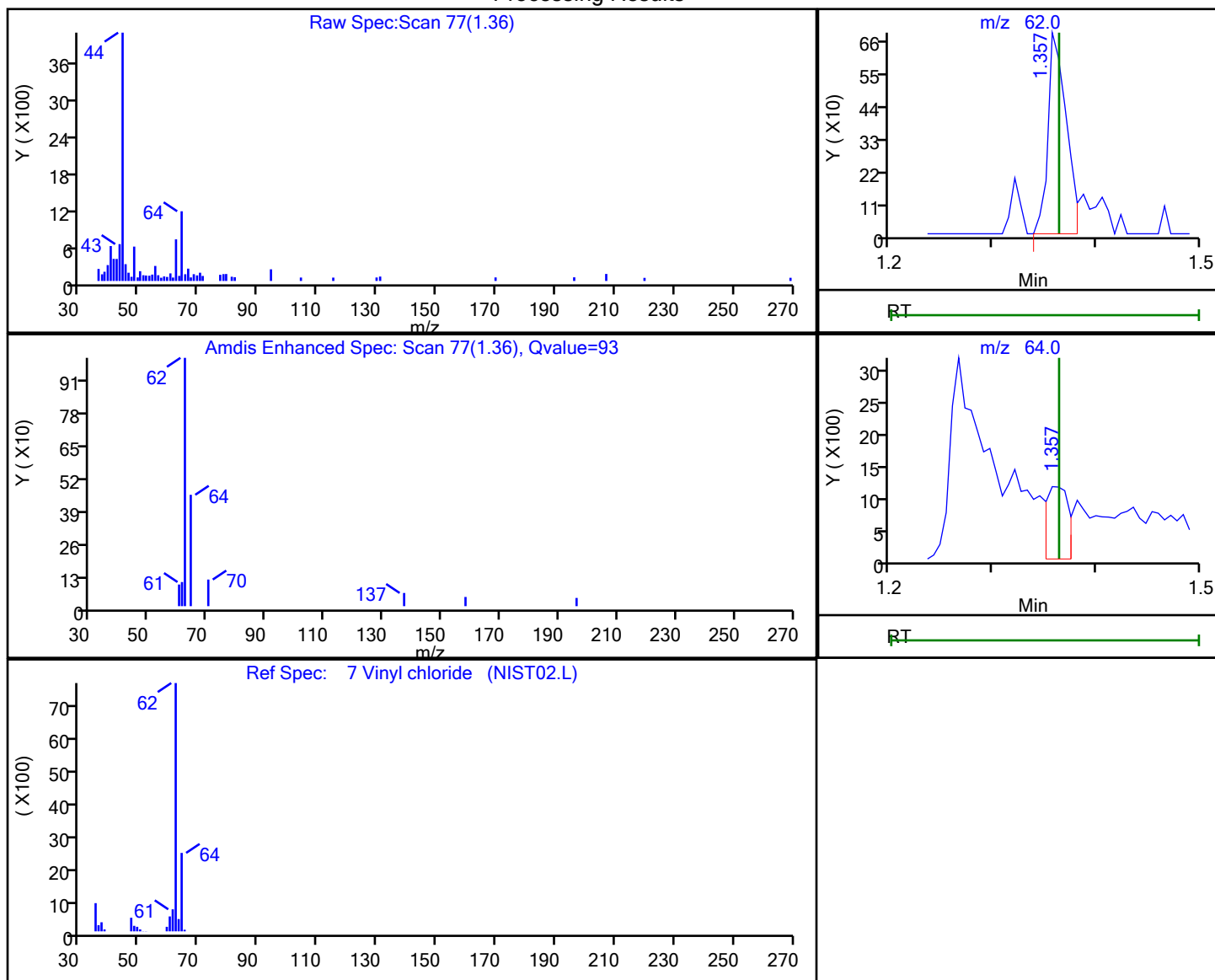
Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.36	62.00	847	0.250000
1.36	64.00	1798	

Reviewer: HVW2, 12-Oct-2022 23:53:28

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81263.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 12-Oct-2022 23:56:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD1
 Misc. Info.: 460-0151655-004
 Operator ID: Instrument ID: CVOAMS8
 Sublist: chrom-8260_W8*sub61
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 14-Oct-2022 16:02:06 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: HVW2

Date: 13-Oct-2022 00:45:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	118	1.150	1.151	-0.001	85	215	NC	NC	
4 Dichlorodifluoromethane	85	1.174	1.175	-0.001	98	3135	1.00	0.9712	
5 Chlorodifluoromethane	67	1.192	1.193	-0.001	97	833	NC	NC	
6 Chloromethane	50	1.302	1.303	-0.001	99	5140	1.00	1.10	
7 Vinyl chloride	62	1.362	1.364	-0.002	96	3554	1.00	1.15	
8 Butadiene	54	1.375	1.376	-0.001	92	3290	1.00	1.11	
9 Bromomethane	94	1.575	1.577	-0.002	91	1192	1.00	1.04	
10 Chloroethane	64	1.630	1.631	-0.001	98	1636	1.00	1.07	
12 Dichlorofluoromethane	67	1.752	1.753	-0.001	96	5178	NC	NC	
11 Trichlorofluoromethane	101	1.758	1.759	-0.001	97	3674	1.00	1.12	
13 Pentane	43	1.788	1.789	-0.001	96	7463	2.00	1.94	
14 Ethanol	46	1.886	1.887	-0.001	37	343	40.0	43.6	M
15 Ethyl ether	59	1.928	1.929	-0.001	90	2101	1.00	1.10	
16 2-Methyl-1,3-butadiene	53	1.946	1.948	-0.002	92	2706	1.00	1.12	
17 1,2-Dichloro-1,1,2-trifluoroethane	117	1.959	1.960	-0.001	81	1987	NC	NC	
18 1,1,1-Trifluoro-2,2-dichloroethane	83	2.001	1.996	0.005	97	3596	NC	NC	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.056	2.057	-0.001	91	2032	1.00	1.04	
19 Acrolein	56	2.062	2.057	0.005	82	1455	4.00	4.63	
21 1,1-Dichloroethene	96	2.086	2.088	-0.002	93	2462	1.00	1.26	
22 Acetone	43	2.153	2.148	0.005	85	4181	5.00	6.03	
23 Iodomethane	142	2.208	2.209	-0.001	98	1661	1.00	1.06	M
25 Isopropyl alcohol	45	2.208	2.209	-0.001	87	737	10.0	8.12	
24 Carbon disulfide	76	2.238	2.234	0.004	100	8234	1.00	1.15	
26 3-Chloro-1-propene	76	2.324	2.331	-0.007	89	1701	1.00	1.24	
28 Methyl acetate	43	2.336	2.337	-0.001	88	4293	2.00	2.28	
27 Cyclopentene	67	2.348	2.349	-0.001	94	6537	NC	NC	
29 Acetonitrile	41	2.378	2.380	-0.002	90	2159	10.0	9.32	
* 30 TBA-d9 (IS)	65	2.409	2.410	-0.001	75	174707	1000.0	1000.0	
31 Methylene Chloride	84	2.433	2.428	0.005	95	2897	1.00	1.20	
32 2-Methyl-2-propanol	59	2.464	2.465	-0.001	90	1572	10.0	11.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73	2.555	2.556	-0.001	97	6436	1.00	1.07	
34 trans-1,2-Dichloroethene	96	2.579	2.580	-0.001	97	2817	1.00	1.28	
35 Acrylonitrile	53	2.640	2.635	0.005	93	9288	10.0	11.1	
36 Hexane	57	2.707	2.702	0.005	91	2681	1.00	0.9739	
37 Isopropyl ether	45	2.877	2.872	0.005	96	9332	1.00	1.02	
38 1,1-Dichloroethane	63	2.908	2.909	-0.001	97	5781	1.00	1.16	
39 Vinyl acetate	43	2.914	2.915	-0.001	99	12134	2.00	2.09	
40 2-Chloro-1,3-butadiene	88	2.950	2.945	0.005	96	2031	NC	NC	
41 Tert-butyl ethyl ether	59	3.151	3.146	0.005	87	7465	NC	NC	
* 43 2-Butanone-d5	46	3.327	3.323	0.004	86	261610	250.0	250.0	
42 2,2-Dichloropropane	79	3.334	3.335	-0.001	44	1869	1.00	1.46	
44 cis-1,2-Dichloroethene	96	3.358	3.359	-0.001	91	2963	1.00	1.22	
46 2-Butanone (MEK)	72	3.376	3.377	-0.001	94	1254	5.00	6.10	
45 Ethyl acetate	70	3.382	3.377	0.005	91	460	2.00	2.14	a
47 Methyl acrylate	55	3.425	3.426	-0.001	97	2224	NC	NC	
48 Propionitrile	54	3.492	3.493	-0.001	97	3271	NC	NC	
50 Chlorobromomethane	128	3.565	3.566	-0.001	94	1415	1.00	1.32	
49 Tetrahydrofuran	72	3.583	3.566	0.017	24	326	2.00	1.59	
51 Methacrylonitrile	67	3.589	3.584	0.005	96	9161	NC	NC	
52 Chloroform	83	3.613	3.608	0.005	97	5159	1.00	1.19	
53 Cyclohexane	84	3.723	3.724	-0.001	96	2911	1.00	1.08	
54 1,1,1-Trichloroethane	97	3.735	3.742	-0.007	97	3942	1.00	1.15	
\$ 55 Dibromofluoromethane (Surr)	113	3.753	3.754	-0.001	95	100153	50.0	52.4	
56 Carbon tetrachloride	117	3.857	3.852	0.005	93	2892	1.00	1.06	
57 1,1-Dichloropropene	75	3.875	3.882	-0.007	91	3598	1.00	1.09	
58 Isobutyl alcohol	43	4.021	4.010	0.011	35	2382	NC	NC	Ma
59 Isooctane	57	4.033	4.034	-0.001	98	5148	NC	NC	
60 Benzene	78	4.070	4.065	0.005	97	11308	1.00	1.17	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.088	4.083	0.005	0	136337	50.0	51.9	
62 Isopropyl acetate	43	4.124	4.126	-0.002	93	6929	1.00	1.01	
63 Tert-amyl methyl ether	55	4.137	4.132	0.005	77	1758	NC	NC	
64 1,2-Dichloroethane	62	4.155	4.156	-0.001	95	4268	1.00	1.16	
65 n-Heptane	57	4.210	4.211	-0.001	93	1252	1.00	1.14	
* 66 Fluorobenzene	96	4.343	4.345	-0.002	97	439281	50.0	50.0	
67 n-Butanol	56	4.672	4.667	0.005	22	585	25.0	17.7	Ma
68 Trichloroethene	95	4.696	4.691	0.005	94	3113	1.00	1.27	
69 Methylcyclohexane	83	4.806	4.813	-0.007	83	2758	1.00	0.99	
70 Ethyl acrylate	55	4.824	4.819	0.005	96	6488	1.00	1.10	
71 1,2-Dichloropropane	63	4.988	4.983	0.005	91	3583	1.00	1.23	
* 72 1,4-Dioxane-d8	96	5.055	5.056	-0.001	0	24668	1000.0	1000.0	
73 Methyl methacrylate	100	5.086	5.075	0.011	94	937	2.00	2.13	
74 Dibromomethane	93	5.116	5.117	-0.001	81	2034	1.00	1.27	
75 1,4-Dioxane	88	5.116	5.123	-0.007	35	443	50.0	33.0	M
76 n-Propyl acetate	43	5.140	5.135	0.005	98	3872	1.00	1.05	
77 Dichlorobromomethane	83	5.280	5.275	0.005	96	3667	1.00	1.12	
78 2-Nitropropane	41	5.639	5.634	0.005	74	966	NC	NC	
79 2-Chloroethyl vinyl ether	63	5.639	5.640	-0.001	75	1622	1.00	1.00	
80 Epichlorohydrin	57	5.755	5.750	0.005	99	4017	20.0	19.1	
81 cis-1,3-Dichloropropene	75	5.803	5.805	-0.002	95	4660	1.00	1.03	
82 4-Methyl-2-pentanone (MIBK)	43	5.992	5.993	-0.001	96	13211	5.00	5.33	
\$ 83 Toluene-d8 (Surr)	98	6.059	6.060	-0.001	98	372297	50.0	50.3	
84 Toluene	91	6.144	6.145	-0.001	92	11462	1.00	1.14	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.539	6.541	-0.002	97	4063	1.00	1.01	
86 Ethyl methacrylate	69	6.594	6.589	0.005	95	3143	NC	NC	
87 1,1,2-Trichloroethane	83	6.771	6.778	-0.007	92	2214	1.00	1.04	
88 Tetrachloroethene	166	6.813	6.808	0.005	90	2248	1.00	1.07	
89 1,3-Dichloropropane	76	7.008	7.009	-0.001	97	4085	1.00	1.04	
90 2-Hexanone	58	7.111	7.100	0.011	98	4199	5.00	5.18	
91 n-Butyl acetate	43	7.245	7.246	-0.001	95	4845	1.00	1.04	
92 Chlorodibromomethane	129	7.257	7.259	-0.002	73	2173	1.00	0.9682	
93 Ethylene Dibromide	107	7.428	7.423	0.005	98	2448	1.00	1.07	
* 94 Chlorobenzene-d5	117	8.012	8.013	-0.001	91	345836	50.0	50.0	
95 Chlorobenzene	112	8.048	8.049	-0.001	97	6763	1.00	1.11	
96 Ethylbenzene	106	8.152	8.153	-0.001	99	3370	1.00	1.06	
97 1,1,1,2-Tetrachloroethane	131	8.170	8.165	0.005	89	2073	1.00	1.00	
98 m-Xylene & p-Xylene	106	8.304	8.305	-0.001	0	4514	1.00	1.14	
99 o-Xylene	106	8.760	8.755	0.005	90	4325	1.00	1.09	
100 n-Butyl acrylate	73	8.772	8.773	-0.001	95	2139	1.00	1.06	
101 Styrene	104	8.790	8.792	-0.002	94	7572	1.00	1.11	
103 Bromoform	173	8.997	9.004	-0.007	93	1257	1.00	0.8949	
102 Amyl acetate (mixed isomers)	43	9.022	9.017	0.005	85	5671	1.00	1.04	
104 Isopropylbenzene	105	9.137	9.138	-0.001	98	10809	1.00	1.12	
\$ 105 4-Bromofluorobenzene	174	9.338	9.333	0.005	87	126472	50.0	51.5	
106 Bromobenzene	156	9.460	9.461	-0.001	91	3090	1.00	1.16	
107 1,1,2,2-Tetrachloroethane	83	9.526	9.528	-0.002	98	3276	1.00	1.04	
108 N-Propylbenzene	91	9.545	9.546	-0.001	97	14337	1.00	1.15	
109 1,2,3-Trichloropropane	110	9.563	9.564	-0.001	94	785	1.00	1.13	
110 trans-1,4-Dichloro-2-butene	53	9.593	9.595	-0.002	68	1094	NC	NC	
111 2-Chlorotoluene	91	9.642	9.637	0.005	97	9953	1.00	1.12	
112 4-Ethyltoluene	105	9.654	9.655	-0.001	97	11000	NC	NC	
113 1,3,5-Trimethylbenzene	105	9.721	9.722	-0.001	92	9241	1.00	1.11	
114 4-Chlorotoluene	91	9.752	9.753	-0.001	99	9700	1.00	1.13	
115 Butyl Methacrylate	87	9.837	9.838	-0.001	95	3227	1.00	1.00	
116 tert-Butylbenzene	119	10.001	10.002	-0.001	88	7090	1.00	1.13	
117 1,2,4-Trimethylbenzene	105	10.062	10.063	-0.001	99	9639	1.00	1.10	
118 sec-Butylbenzene	105	10.196	10.197	-0.001	98	10628	1.00	1.12	
120 1,3-Dichlorobenzene	146	10.317	10.319	-0.002	92	5282	1.00	1.11	
119 4-Isopropyltoluene	119	10.329	10.325	0.004	96	8677	1.00	1.11	
* 121 1,4-Dichlorobenzene-d4	152	10.384	10.385	-0.001	98	189061	50.0	50.0	
122 1,4-Dichlorobenzene	146	10.402	10.404	-0.002	91	5594	1.00	1.12	
123 1,2,3-Trimethylbenzene	105	10.421	10.428	-0.007	98	10058	1.00	1.08	
124 Benzyl chloride	91	10.536	10.531	0.005	97	4529	1.00	0.8948	
125 2,3-Dihydroindene	117	10.585	10.586	-0.001	94	10243	NC	NC	
126 p-Diethylbenzene	119	10.652	10.647	0.005	88	4628	NC	NC	
127 n-Butylbenzene	92	10.664	10.671	-0.007	96	4918	1.00	1.12	
128 1,2-Dichlorobenzene	146	10.713	10.714	-0.001	91	5246	1.00	1.11	
129 1,2,4,5-Tetramethylbenzene	119	11.272	11.274	-0.002	96	9006	NC	NC	
130 1,2-Dibromo-3-Chloropropane	157	11.358	11.353	0.005	80	464	1.00	0.9367	
131 1,3,5-Trichlorobenzene	180	11.461	11.462	-0.001	95	3685	NC	NC	
132 1,2,4-Trichlorobenzene	180	11.942	11.937	0.005	91	3554	1.00	1.15	
133 Hexachlorobutadiene	225	12.021	12.022	-0.001	83	1153	1.00	1.08	
134 Naphthalene	128	12.124	12.125	-0.001	99	8962	1.00	1.13	
135 1,2,3-Trichlorobenzene	180	12.294	12.296	-0.002	95	3246	1.00	1.14	
S 136 1,2-Dichloroethene, Total	100				0		2.00	2.50	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 137 Xylenes, Total	100				0		2.00	2.22	
S 138 Total BTEX	1				0		5.00	5.59	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00160	Amount Added: 10.00	Units: uL	
524freon_00058	Amount Added: 10.00	Units: uL	
ACROLEIN W_00145	Amount Added: 4.00	Units: uL	
GASES Li_00497	Amount Added: 10.00	Units: uL	
14DIOXINTER_00146	Amount Added: 30.00	Units: uL	
8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00232	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81263.D

Injection Date: 12-Oct-2022 23:56:30

Instrument ID: CVOAMS8

Lims ID: STD1

Operator ID:

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

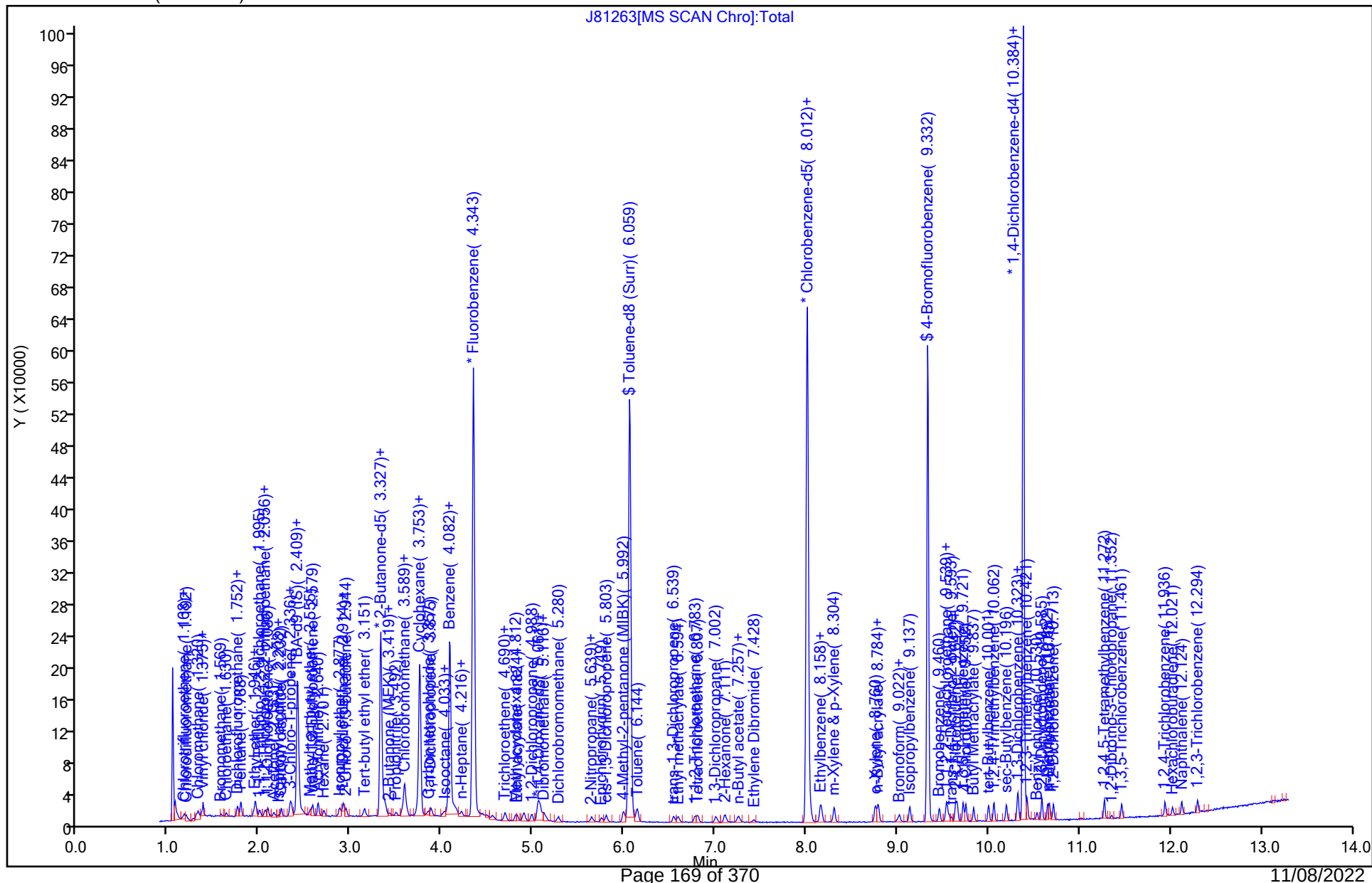
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81263.D
Injection Date: 12-Oct-2022 23:56:30 Instrument ID: CVOAMS8
Lims ID: STD1
Client ID:
Operator ID:
Purge Vol: 5.000 mL
Method: 8260_W8
Column: Rtx-624 (0.25 mm)

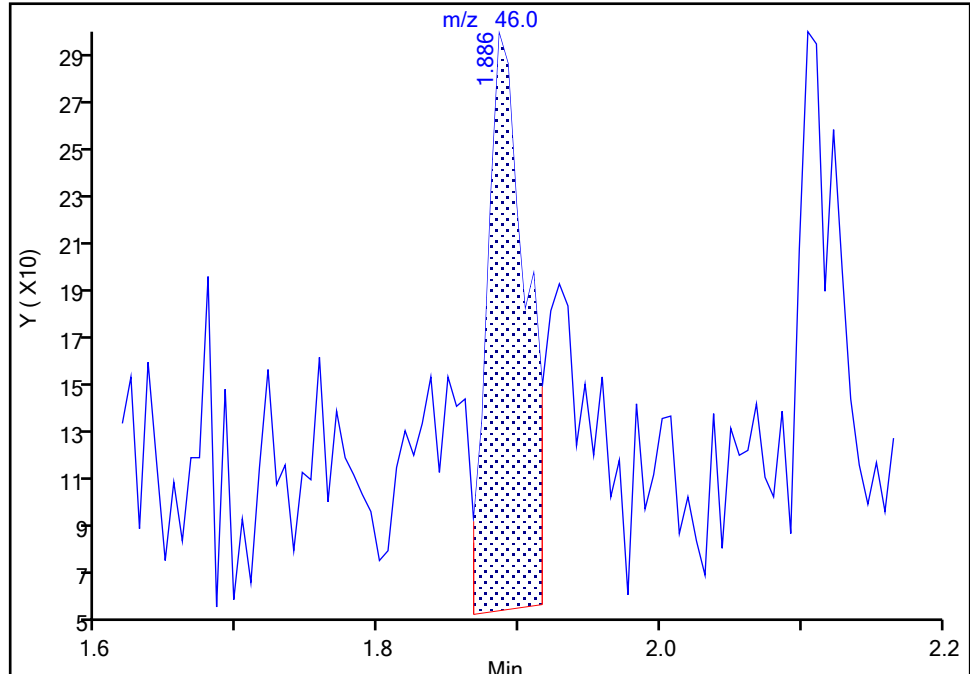
ALS Bottle#: 4 Worklist Smp#: 4
Dil. Factor: 1.0000
Limit Group: VOA 624.1 ICAL
Detector: MS SCAN

14 Ethanol, CAS: 64-17-5

Signal: 1

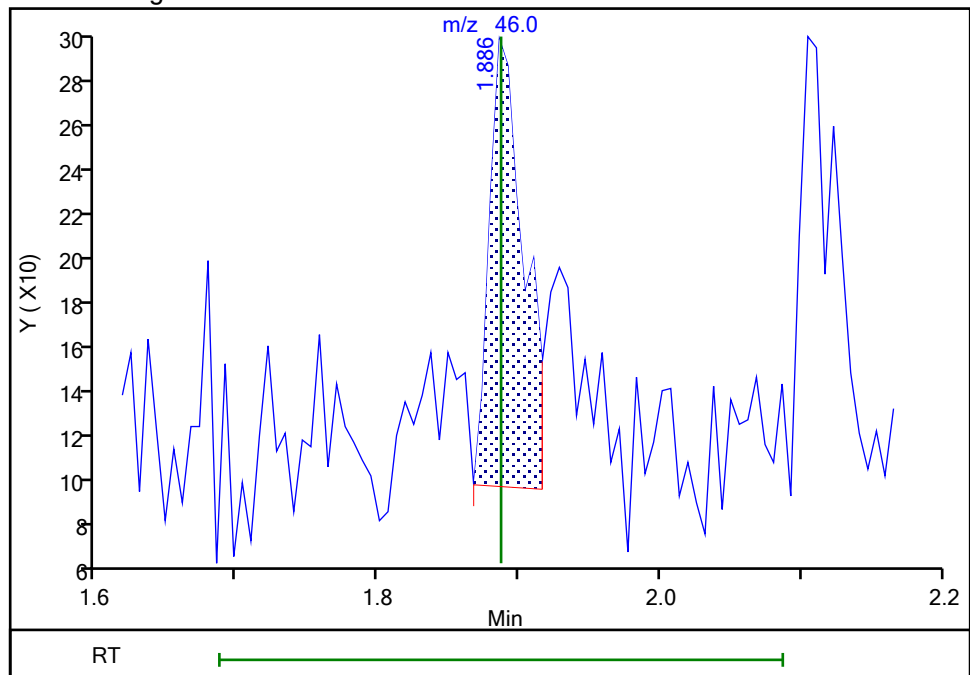
RT: 1.89
Area: 458
Amount: 74.028514
Amount Units: ug/l

Processing Integration Results



RT: 1.89
Area: 343
Amount: 43.588883
Amount Units: ug/l

Manual Integration Results



Reviewer: W9CM, 14-Oct-2022 15:29:18
Audit Action: Manually Integrated

Audit Reason: Baseline
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11/08/2022

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81263.D

Injection Date: 12-Oct-2022 23:56:30

Instrument ID: CVOAMS8

Lims ID: STD1

Client ID:

Operator ID:

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

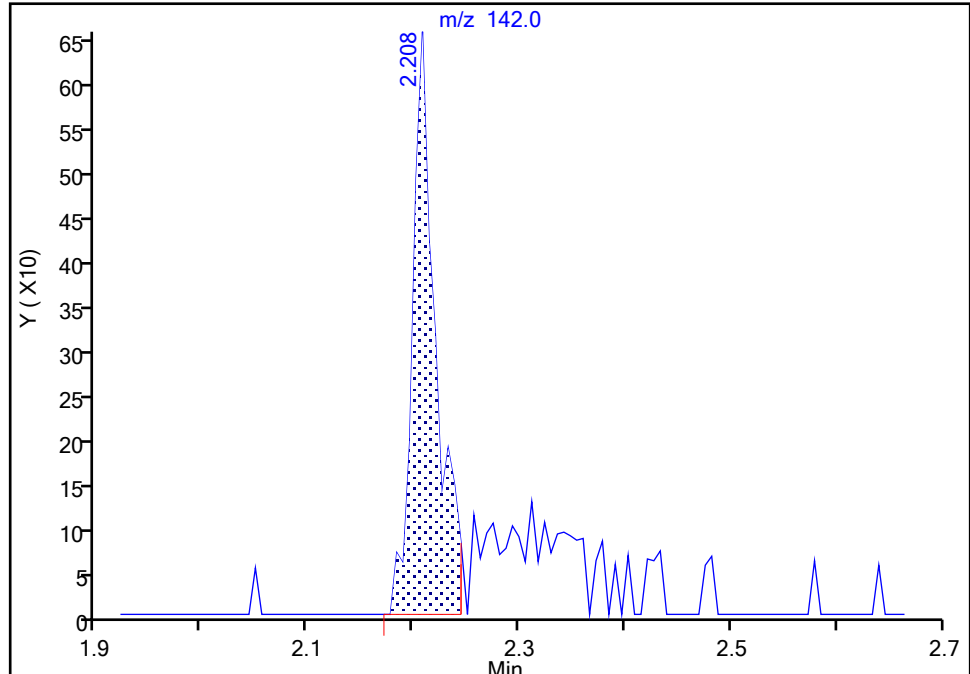
Detector: MS SCAN

23 Iodomethane, CAS: 74-88-4

Signal: 1

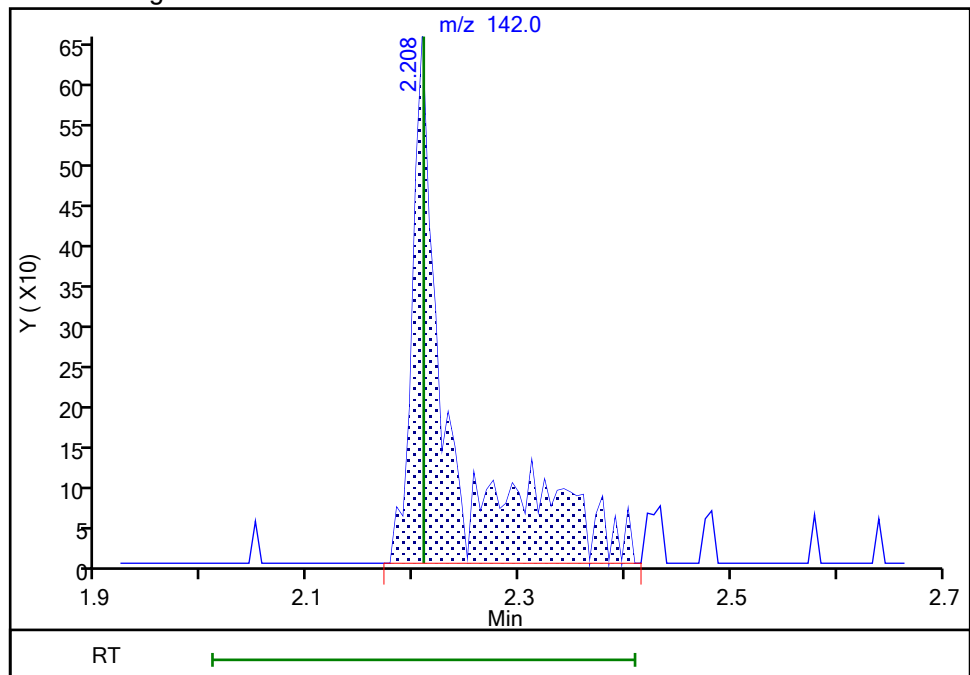
RT: 2.21
Area: 1000
Amount: 0.490761
Amount Units: ug/l

Processing Integration Results



RT: 2.21
Area: 1661
Amount: 1.062242
Amount Units: ug/l

Manual Integration Results



Reviewer: HVW2, 13-Oct-2022 02:18:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81263.D

Injection Date: 12-Oct-2022 23:56:30

Instrument ID: CVOAMS8

Lims ID: STD1

Client ID:

Operator ID:

ALS Bottle#:

4

Worklist Smp#:

4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

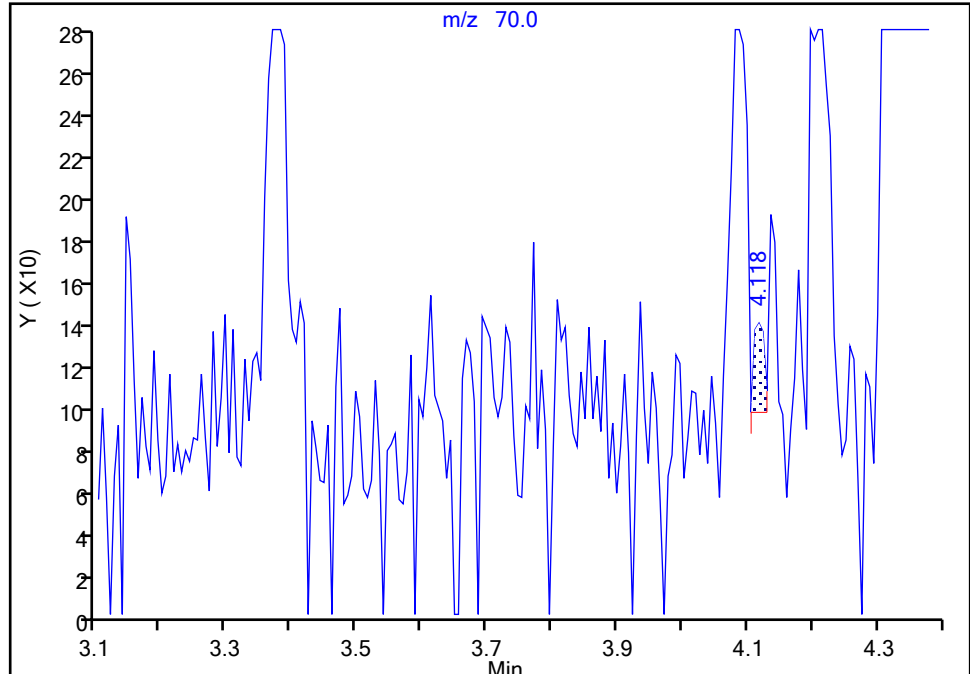
Detector: MS SCAN

45 Ethyl acetate, CAS: 141-78-6

Signal: 1

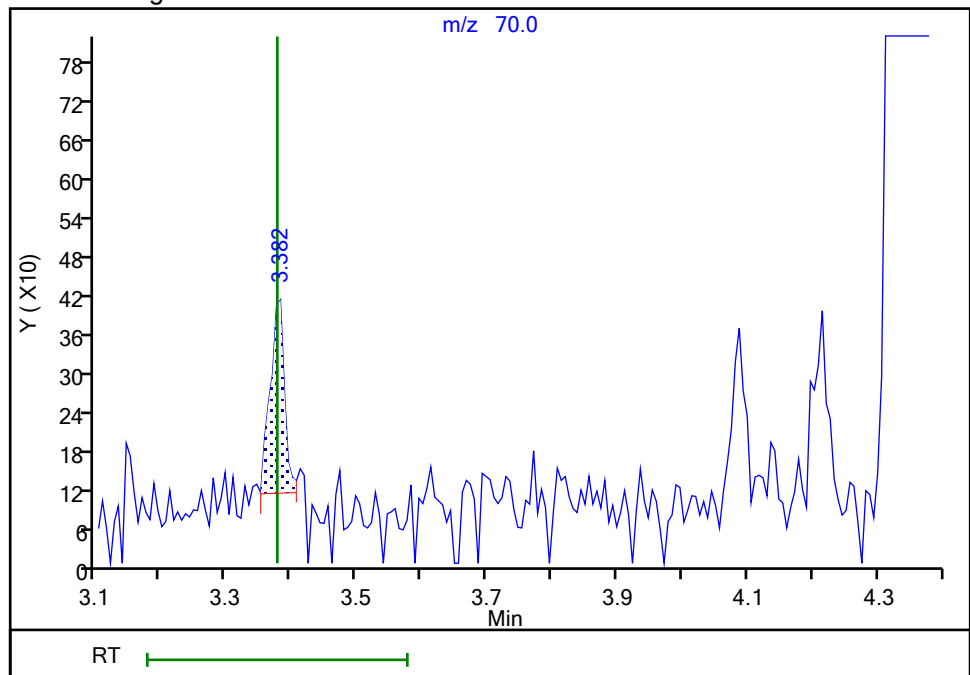
RT: 4.12
Area: 47
Amount: 0.224788
Amount Units: ug/l

Processing Integration Results



RT: 3.38
Area: 460
Amount: 2.142036
Amount Units: ug/l

Manual Integration Results



Reviewer: HVW2, 13-Oct-2022 02:09:56

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81263.D

Injection Date: 12-Oct-2022 23:56:30

Instrument ID: CVOAMS8

Lims ID: STD1

Client ID:

Operator ID:

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

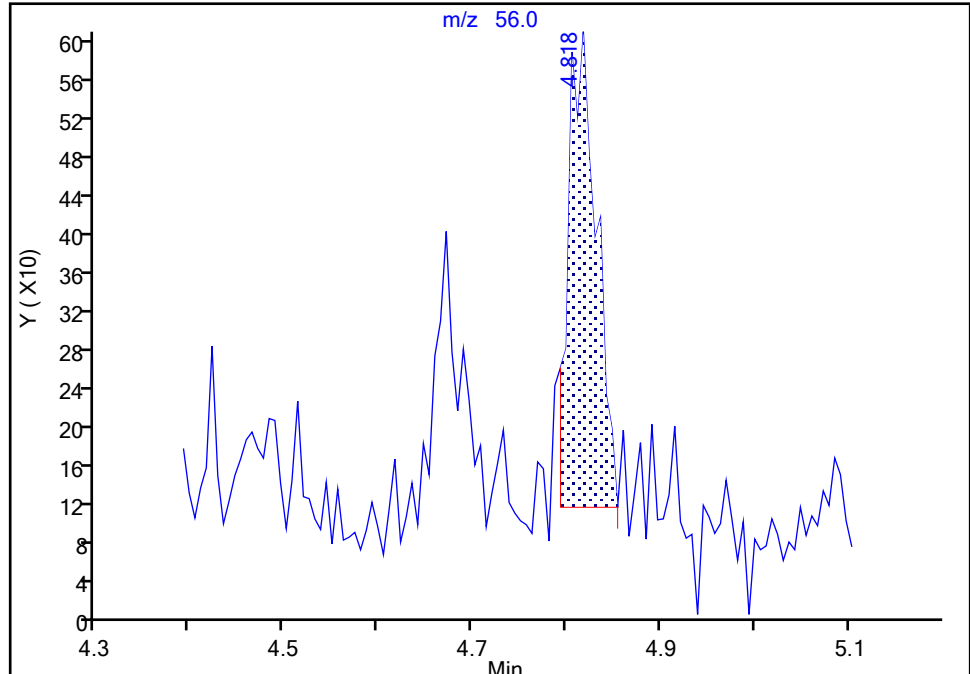
Detector: MS SCAN

67 n-Butanol, CAS: 71-36-3

Signal: 1

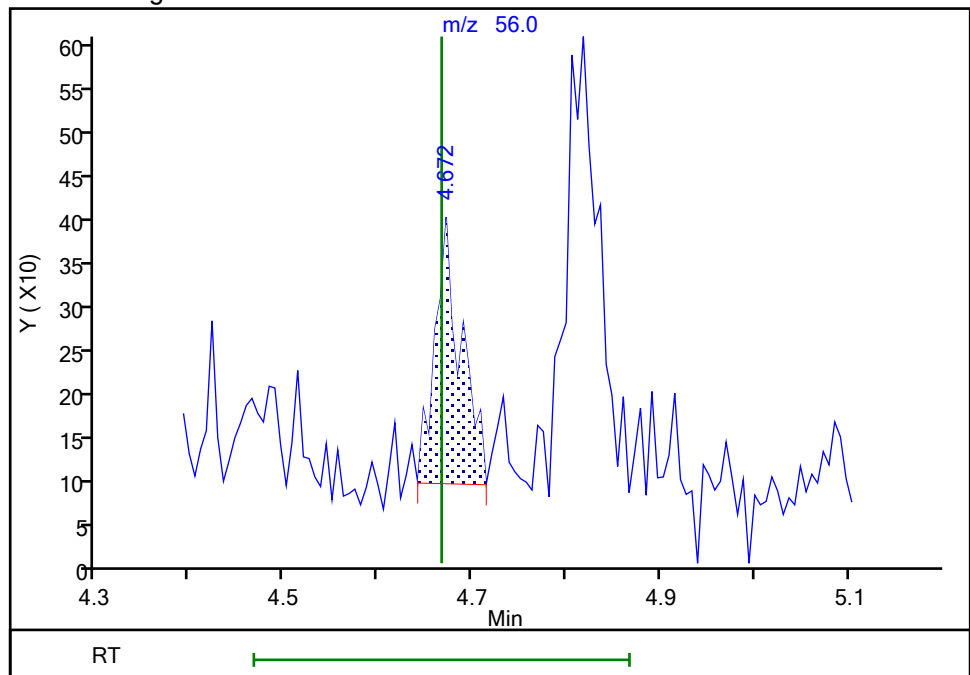
RT: 4.82
Area: 1028
Amount: 25.000000
Amount Units: ug/l

Processing Integration Results



RT: 4.67
Area: 585
Amount: 17.702364
Amount Units: ug/l

Manual Integration Results



Reviewer: W9CM, 14-Oct-2022 15:47:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81263.D
Injection Date: 12-Oct-2022 23:56:30 Instrument ID: CVOAMS8
Lims ID: STD1
Client ID:
Operator ID:
Purge Vol: 5.000 mL
Method: 8260_W8
Column: Rtx-624 (0.25 mm)

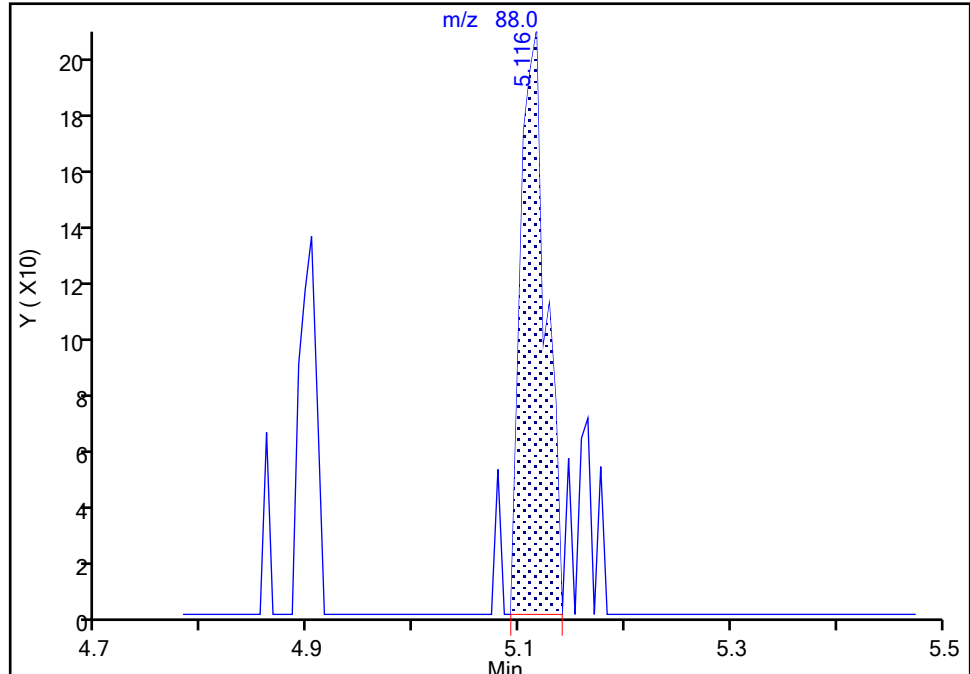
ALS Bottle#: 4 Worklist Smp#: 4
Dil. Factor: 1.0000
Limit Group: VOA 624.1 ICAL
Detector: MS SCAN

75 1,4-Dioxane, CAS: 123-91-1

Signal: 1

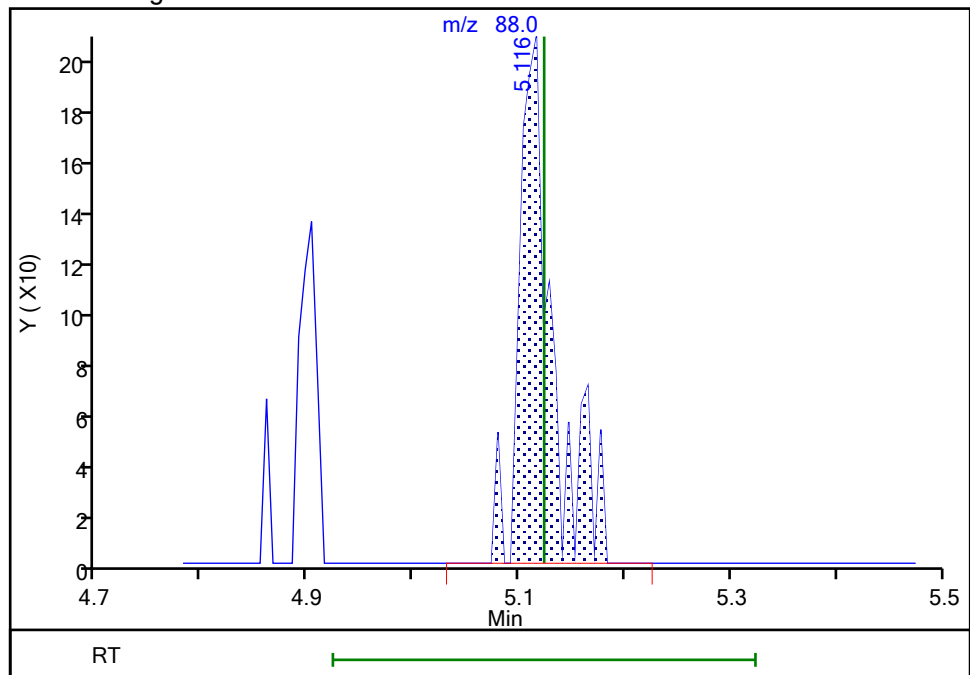
RT: 5.12
Area: 337
Amount: 21.946271
Amount Units: ug/l

Processing Integration Results



RT: 5.12
Area: 443
Amount: 33.046143
Amount Units: ug/l

Manual Integration Results



Reviewer: HVW2, 13-Oct-2022 02:10:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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11/08/2022

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81264.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 13-Oct-2022 00:21:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD5
 Misc. Info.: 460-0151655-005
 Operator ID: Instrument ID: CVOAMS8
 Sublist: chrom-8260_W8*sub61
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 14-Oct-2022 16:02:16 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: HVW2

Date: 13-Oct-2022 01:01:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	118	1.150	1.151	-0.001	96	1463	NC	NC	
4 Dichlorodifluoromethane	85	1.174	1.175	-0.001	100	17424	5.00	5.22	
5 Chlorodifluoromethane	67	1.193	1.193	0.000	98	3406	NC	NC	
6 Chloromethane	50	1.302	1.303	-0.001	99	24499	5.00	5.09	
7 Vinyl chloride	62	1.363	1.364	-0.001	98	16302	5.00	5.09	
8 Butadiene	54	1.375	1.376	-0.001	94	16168	5.00	5.26	
9 Bromomethane	94	1.570	1.577	-0.007	98	5612	5.00	4.76	
10 Chloroethane	64	1.631	1.631	0.000	99	8988	5.00	5.69	
12 Dichlorofluoromethane	67	1.752	1.753	-0.001	99	25818	NC	NC	
11 Trichlorofluoromethane	101	1.758	1.759	-0.001	98	17621	5.00	5.18	
13 Pentane	43	1.789	1.789	0.000	96	47440	10.0	12.0	
14 Ethanol	46	1.886	1.887	-0.001	94	1672	200.0	209.7	M
15 Ethyl ether	59	1.929	1.929	0.000	90	9784	5.00	4.95	
16 2-Methyl-1,3-butadiene	53	1.947	1.948	-0.001	94	13635	5.00	5.47	
17 1,2-Dichloro-1,1,2-trifluoroethane	117	1.959	1.960	-0.001	98	7919	NC	NC	
18 1,1,1-Trifluoro-2,2-dichloroethane	83	1.996	1.996	0.000	97	17600	NC	NC	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.057	2.057	0.000	91	10924	5.00	5.43	
19 Acrolein	56	2.063	2.057	0.006	99	6575	20.0	20.7	
21 1,1-Dichloroethene	96	2.087	2.088	-0.001	92	10419	5.00	5.17	
22 Acetone	43	2.148	2.148	0.000	84	17697	25.0	24.7	
23 Iodomethane	142	2.209	2.209	0.000	98	6937	5.00	3.51	
25 Isopropyl alcohol	45	2.209	2.209	0.000	70	4753	50.0	51.7	
24 Carbon disulfide	76	2.233	2.234	-0.001	100	36178	5.00	4.89	
26 3-Chloro-1-propene	76	2.330	2.331	-0.001	94	7128	5.00	5.04	
28 Methyl acetate	43	2.336	2.337	-0.001	98	18802	10.0	9.67	
27 Cyclopentene	67	2.349	2.349	0.000	95	30917	NC	NC	
29 Acetonitrile	41	2.379	2.380	-0.001	99	11227	50.0	47.9	
* 30 TBA-d9 (IS)	65	2.409	2.410	-0.001	75	176983	1000.0	1000.0	
31 Methylene Chloride	84	2.428	2.428	0.000	95	12771	5.00	5.13	
32 2-Methyl-2-propanol	59	2.464	2.465	-0.001	96	6888	50.0	48.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73	2.555	2.556	-0.001	96	29418	5.00	4.75	
34 trans-1,2-Dichloroethene	96	2.580	2.580	0.000	98	11789	5.00	5.16	
35 Acrylonitrile	53	2.641	2.635	0.006	93	44070	50.0	52.1	
36 Hexane	57	2.701	2.702	-0.001	91	14985	5.00	5.27	
37 Isopropyl ether	45	2.872	2.872	0.000	96	46632	5.00	4.93	
38 1,1-Dichloroethane	63	2.908	2.909	-0.001	99	27661	5.00	5.39	
39 Vinyl acetate	43	2.914	2.915	-0.001	100	62993	10.0	10.5	
40 2-Chloro-1,3-butadiene	88	2.945	2.945	0.000	96	10225	NC	NC	
41 Tert-butyl ethyl ether	59	3.145	3.146	-0.001	86	36556	NC	NC	
* 43 2-Butanone-d5	46	3.322	3.323	-0.001	90	270494	250.0	250.0	
42 2,2-Dichloropropane	79	3.334	3.335	-0.001	92	6392	5.00	4.85	
44 cis-1,2-Dichloroethene	96	3.358	3.359	-0.001	90	13004	5.00	5.18	
46 2-Butanone (MEK)	72	3.377	3.377	0.000	94	5342	25.0	25.1	
45 Ethyl acetate	70	3.377	3.377	0.000	91	2157	10.0	9.71	a
47 Methyl acrylate	55	3.425	3.426	-0.001	98	10127	NC	NC	
48 Propionitrile	54	3.492	3.493	-0.001	97	15508	NC	NC	
50 Chlorobromomethane	128	3.565	3.566	-0.001	93	5485	5.00	4.94	
49 Tetrahydrofuran	72	3.565	3.566	-0.001	55	2437	10.0	11.5	
51 Methacrylonitrile	67	3.583	3.584	-0.001	97	45257	NC	NC	
52 Chloroform	83	3.608	3.608	0.000	97	23510	5.00	5.25	
53 Cyclohexane	84	3.729	3.724	0.005	97	15181	5.00	5.45	
54 1,1,1-Trichloroethane	97	3.736	3.742	-0.006	96	18272	5.00	5.16	
\$ 55 Dibromofluoromethane (Surr)	113	3.754	3.754	0.000	95	84338	50.0	42.7	
56 Carbon tetrachloride	117	3.851	3.852	-0.001	97	14263	5.00	5.06	
57 1,1-Dichloropropene	75	3.882	3.882	0.000	92	17277	5.00	5.08	
58 Isobutyl alcohol	43	4.009	4.010	-0.001	92	15006	NC	NC	
59 Isooctane	57	4.034	4.034	0.000	97	27410	NC	NC	
60 Benzene	78	4.070	4.065	0.005	97	49674	5.00	5.18	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.082	4.083	-0.001	0	116439	50.0	42.9	
62 Isopropyl acetate	43	4.125	4.126	-0.001	93	33852	5.00	4.76	
63 Tert-amyl methyl ether	55	4.137	4.132	0.005	87	7729	NC	NC	
64 1,2-Dichloroethane	62	4.155	4.156	-0.001	96	19199	5.00	5.05	
65 n-Heptane	57	4.216	4.211	0.005	97	5721	5.00	5.05	
* 66 Fluorobenzene	96	4.344	4.345	-0.001	97	453872	50.0	50.0	
67 n-Butanol	56	4.666	4.667	-0.001	97	3863	125.0	115.4	
68 Trichloroethene	95	4.691	4.691	0.000	91	12567	5.00	4.98	
69 Methylcyclohexane	83	4.806	4.813	-0.007	84	14924	5.00	5.21	
70 Ethyl acrylate	55	4.818	4.819	-0.001	97	29444	5.00	4.83	
71 1,2-Dichloropropane	63	4.989	4.983	0.006	89	15072	5.00	5.01	
* 72 1,4-Dioxane-d8	96	5.056	5.056	0.000	0	23491	1000.0	1000.0	
73 Methyl methacrylate	100	5.080	5.075	0.005	93	4325	10.0	9.51	
74 Dibromomethane	93	5.117	5.117	0.000	88	8071	5.00	4.87	
75 1,4-Dioxane	88	5.117	5.123	-0.006	32	1656	100.0	129.7	
76 n-Propyl acetate	43	5.141	5.135	0.006	98	16727	5.00	4.41	
77 Dichlorobromomethane	83	5.275	5.275	0.000	98	16281	5.00	4.83	
78 2-Nitropropane	41	5.634	5.634	0.000	77	6760	NC	NC	
79 2-Chloroethyl vinyl ether	63	5.646	5.640	0.006	77	7983	5.01	4.78	
80 Epichlorohydrin	57	5.749	5.750	-0.001	99	21548	100.0	99.1	
81 cis-1,3-Dichloropropene	75	5.804	5.805	-0.001	98	22120	5.00	4.90	
82 4-Methyl-2-pentanone (MIBK)	43	5.993	5.993	0.000	97	64689	25.0	25.2	
\$ 83 Toluene-d8 (Surr)	98	6.059	6.060	-0.001	98	312172	50.0	42.4	
84 Toluene	91	6.145	6.145	0.000	92	50271	5.00	5.02	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.540	6.541	-0.001	96	18907	5.00	4.71	
86 Ethyl methacrylate	69	6.589	6.589	0.000	97	15292	NC	NC	
87 1,1,2-Trichloroethane	83	6.777	6.778	-0.001	94	10512	5.00	4.97	
88 Tetrachloroethene	166	6.808	6.808	0.000	88	10485	5.00	5.02	
89 1,3-Dichloropropane	76	7.008	7.009	-0.001	96	19381	5.00	4.96	
90 2-Hexanone	58	7.106	7.100	0.006	99	21600	25.0	25.8	
91 n-Butyl acetate	43	7.246	7.246	0.000	95	23204	5.00	5.02	
92 Chlorodibromomethane	129	7.264	7.259	0.005	96	10015	5.00	4.49	
93 Ethylene Dibromide	107	7.422	7.423	-0.001	98	11018	5.00	4.84	
* 94 Chlorobenzene-d5	117	8.012	8.013	-0.001	92	343778	50.0	50.0	
95 Chlorobenzene	112	8.043	8.049	-0.006	92	30778	5.00	5.09	
96 Ethylbenzene	106	8.158	8.153	0.005	99	16314	5.00	5.16	
97 1,1,1,2-Tetrachloroethane	131	8.170	8.165	0.005	91	9762	5.00	4.74	
98 m-Xylene & p-Xylene	106	8.304	8.305	-0.001	0	19914	5.00	5.06	
99 o-Xylene	106	8.754	8.755	-0.001	92	20522	5.00	5.18	
100 n-Butyl acrylate	73	8.773	8.773	0.000	94	9588	5.00	4.79	
101 Styrene	104	8.791	8.792	-0.001	91	33366	5.00	4.92	
103 Bromoform	173	8.998	9.004	-0.006	91	5762	5.00	4.13	
102 Amyl acetate (mixed isomers)	43	9.022	9.017	0.005	86	27264	5.00	4.98	
104 Isopropylbenzene	105	9.138	9.138	0.000	97	49904	5.00	5.18	
\$ 105 4-Bromofluorobenzene	174	9.332	9.333	-0.001	84	103084	50.0	42.2	
106 Bromobenzene	156	9.460	9.461	-0.001	92	13692	5.00	5.14	
107 1,1,2,2-Tetrachloroethane	83	9.527	9.528	-0.001	99	15731	5.00	5.00	
108 N-Propylbenzene	91	9.545	9.546	-0.001	98	64960	5.00	5.20	
109 1,2,3-Trichloropropane	110	9.564	9.564	0.000	94	3628	5.00	5.23	
110 trans-1,4-Dichloro-2-butene	53	9.588	9.595	-0.007	76	4992	NC	NC	
111 2-Chlorotoluene	91	9.637	9.637	0.000	98	45940	5.00	5.15	
112 4-Ethyltoluene	105	9.655	9.655	0.000	97	51040	NC	NC	
113 1,3,5-Trimethylbenzene	105	9.722	9.722	0.000	91	43118	5.00	5.18	
114 4-Chlorotoluene	91	9.752	9.753	-0.001	99	44154	5.00	5.13	
115 Butyl Methacrylate	87	9.837	9.838	-0.001	97	15963	5.00	4.93	
116 tert-Butylbenzene	119	10.002	10.002	0.000	88	32388	5.00	5.14	
117 1,2,4-Trimethylbenzene	105	10.062	10.063	-0.001	99	44439	5.00	5.05	
118 sec-Butylbenzene	105	10.196	10.197	-0.001	98	49635	5.00	5.23	
120 1,3-Dichlorobenzene	146	10.318	10.319	-0.001	92	24283	5.00	5.08	
119 4-Isopropyltoluene	119	10.330	10.325	0.005	96	39960	5.00	5.08	
* 121 1,4-Dichlorobenzene-d4	152	10.385	10.385	0.000	98	189541	50.0	50.0	
122 1,4-Dichlorobenzene	146	10.403	10.404	-0.001	93	25252	5.00	5.04	
123 1,2,3-Trimethylbenzene	105	10.427	10.428	-0.001	99	47814	5.00	5.12	
124 Benzyl chloride	91	10.531	10.531	0.000	97	22201	5.00	4.37	
125 2,3-Dihydroindene	117	10.586	10.586	0.000	93	43925	NC	NC	
126 p-Diethylbenzene	119	10.646	10.647	-0.001	90	20597	NC	NC	
127 n-Butylbenzene	92	10.671	10.671	0.000	97	22902	5.00	5.18	
128 1,2-Dichlorobenzene	146	10.713	10.714	-0.001	92	24024	5.00	5.05	
129 1,2,4,5-Tetramethylbenzene	119	11.273	11.274	-0.001	96	41231	NC	NC	
130 1,2-Dibromo-3-Chloropropane	157	11.352	11.353	-0.001	86	2444	5.00	4.92	
131 1,3,5-Trichlorobenzene	180	11.462	11.462	0.000	96	15953	NC	NC	
132 1,2,4-Trichlorobenzene	180	11.942	11.937	0.005	94	14881	5.00	4.82	
133 Hexachlorobutadiene	225	12.021	12.022	-0.001	92	5594	5.00	5.25	
134 Naphthalene	128	12.125	12.125	0.000	98	38845	5.00	4.87	
135 1,2,3-Trichlorobenzene	180	12.295	12.296	-0.001	94	13311	5.00	4.68	
S 136 1,2-Dichloroethene, Total	100				0		10.0	10.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 137 Xylenes, Total	100				0		10.0	10.2	
S 138 Total BTEX	1				0		25.0	25.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00160	Amount Added: 10.00	Units: uL	
524freon_00058	Amount Added: 10.00	Units: uL	
ACROLEIN W_00145	Amount Added: 4.00	Units: uL	
GASES Li_00497	Amount Added: 10.00	Units: uL	
8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00232	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81264.D

Injection Date: 13-Oct-2022 00:21:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: STD5

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

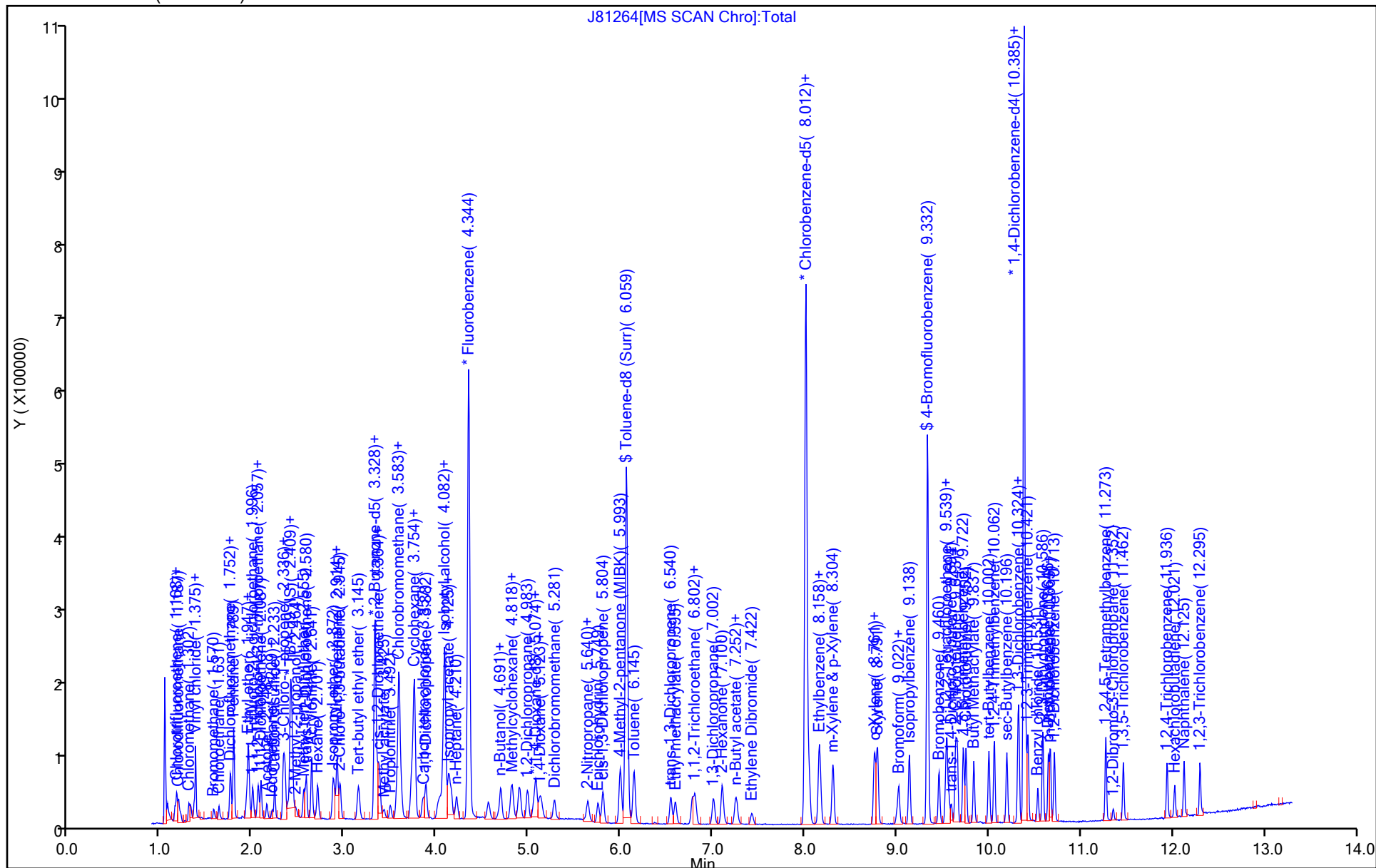
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81264.D

Injection Date: 13-Oct-2022 00:21:30

Instrument ID: CVOAMS8

Lims ID: STD5

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

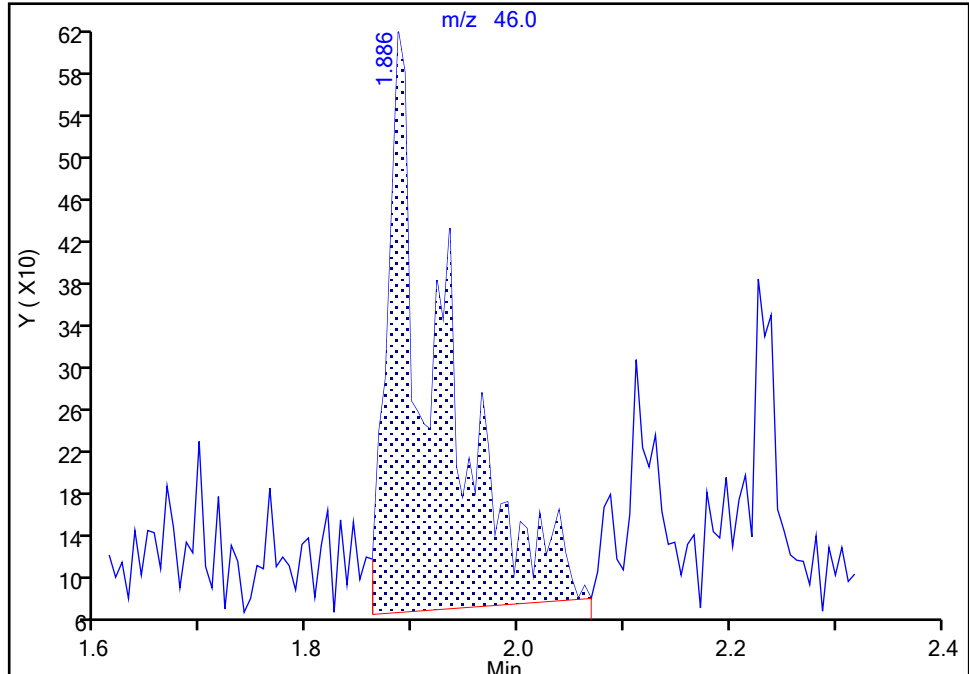
Detector: MS SCAN

14 Ethanol, CAS: 64-17-5

Signal: 1

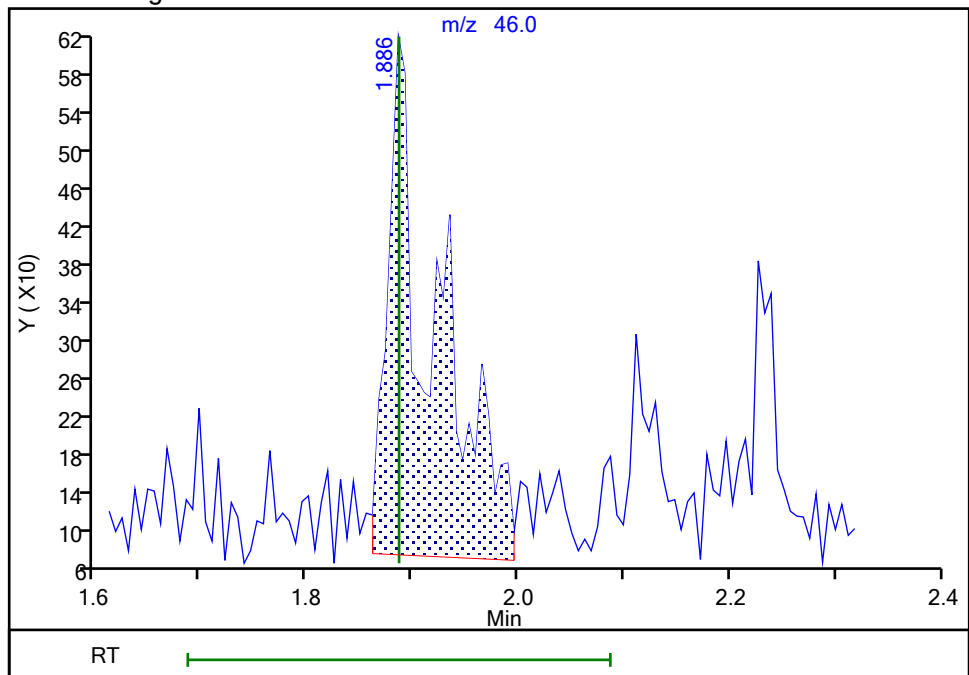
RT: 1.89
Area: 1893
Amount: 232.1088
Amount Units: ug/l

Processing Integration Results



RT: 1.89
Area: 1672
Amount: 209.7474
Amount Units: ug/l

Manual Integration Results



Reviewer: W9CM, 14-Oct-2022 15:32:59

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81264.D

Injection Date: 13-Oct-2022 00:21:30

Instrument ID: CVOAMS8

Lims ID: STD5

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

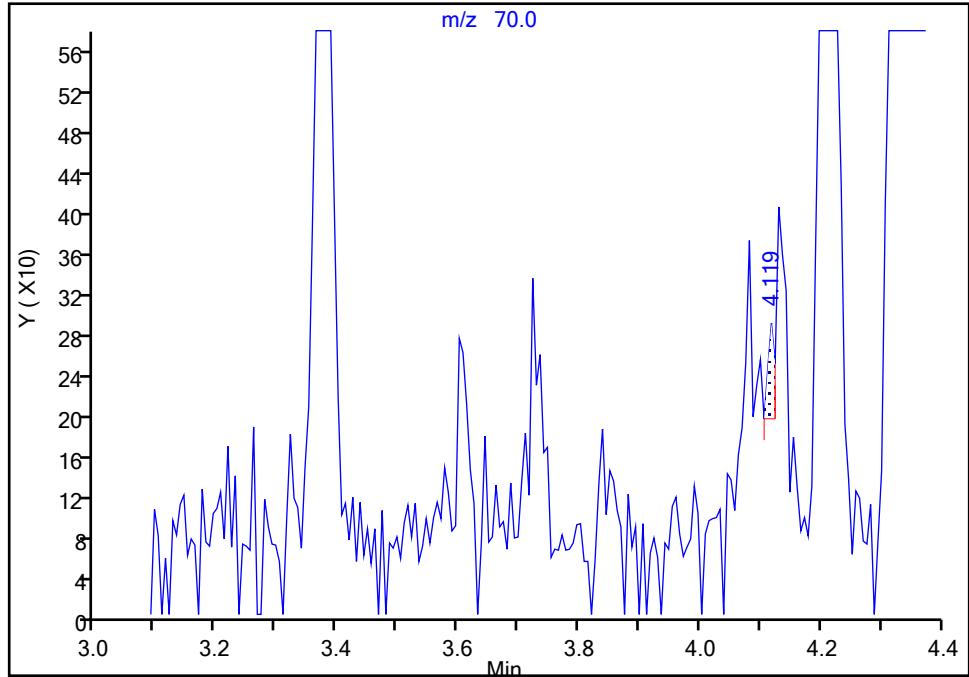
Detector: MS SCAN

45 Ethyl acetate, CAS: 141-78-6

Signal: 1

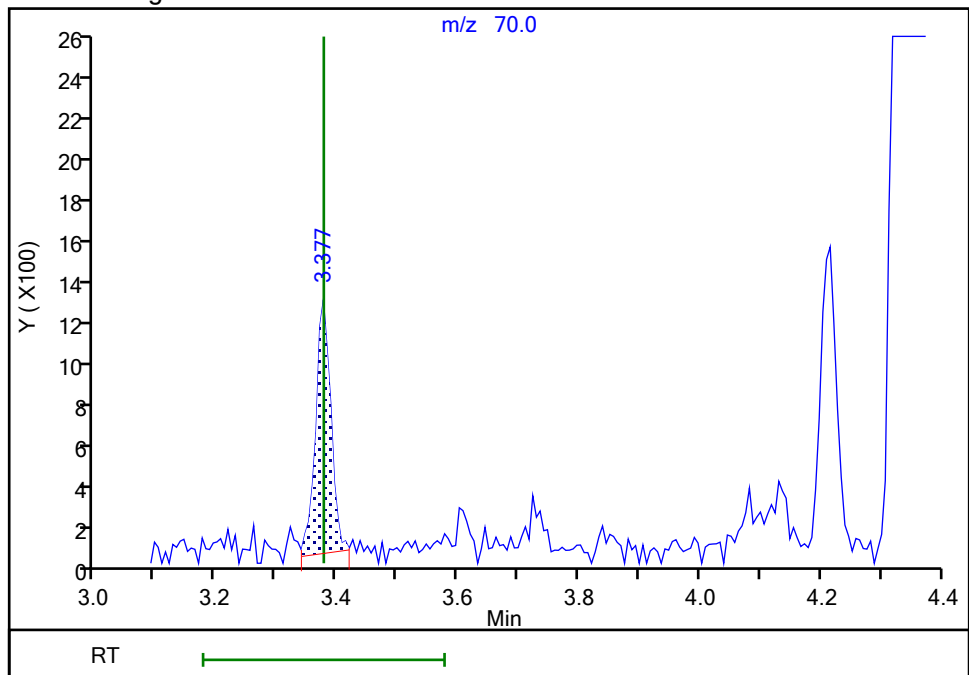
RT: 4.12
Area: 72
Amount: 0.337579
Amount Units: ug/l

Processing Integration Results



RT: 3.38
Area: 2157
Amount: 9.714397
Amount Units: ug/l

Manual Integration Results



Reviewer: HVW2, 13-Oct-2022 02:09:31

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81265.D
 Lims ID: STD20
 Client ID:
 Sample Type: ICIS Calib Level: 3
 Inject. Date: 13-Oct-2022 00:46:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD20
 Misc. Info.: 460-0151655-006
 Operator ID: Instrument ID: CVOAMS8
 Sublist: chrom-8260_W8*sub61
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 14-Oct-2022 16:02:27 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: HVW2

Date: 13-Oct-2022 01:31:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	118	1.151	1.151	0.000	97	5340	NC	NC	
4 Dichlorodifluoromethane	85	1.175	1.175	0.000	99	64772	20.0	19.1	
5 Chlorodifluoromethane	67	1.193	1.193	0.000	98	12004	NC	NC	
6 Chloromethane	50	1.303	1.303	0.000	100	93533	20.0	19.1	
7 Vinyl chloride	62	1.364	1.364	0.000	99	63880	20.0	19.7	
8 Butadiene	54	1.376	1.376	0.000	94	60887	20.0	19.5	
9 Bromomethane	94	1.577	1.577	0.000	99	22670	20.0	19.0	
10 Chloroethane	64	1.631	1.631	0.000	98	33037	20.0	20.6	
12 Dichlorofluoromethane	67	1.753	1.753	0.000	99	96497	NC	NC	
11 Trichlorofluoromethane	101	1.759	1.759	0.000	98	67708	20.0	19.6	
13 Pentane	43	1.789	1.789	0.000	96	175847	40.0	43.7	
14 Ethanol	46	1.887	1.887	0.000	97	7465	800.0	912.0	
15 Ethyl ether	59	1.929	1.929	0.000	90	42021	20.0	21.0	
16 2-Methyl-1,3-butadiene	53	1.948	1.948	0.000	95	50915	20.0	20.1	
17 1,2-Dichloro-1,1,2-trifluoroethane	117	1.960	1.960	0.000	98	32408	NC	NC	
18 1,1,1-Trifluoro-2,2-dichloroethane	83	1.996	1.996	0.000	98	64600	NC	NC	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.057	2.057	0.000	93	41509	20.0	20.3	
19 Acrolein	56	2.057	2.057	0.000	96	11907	40.0	36.4	
21 1,1-Dichloroethene	96	2.088	2.088	0.000	93	40293	20.0	19.7	
22 Acetone	43	2.148	2.148	0.000	84	69593	100.0	92.0	
23 Iodomethane	142	2.209	2.209	0.000	100	38539	20.0	18.0	
25 Isopropyl alcohol	45	2.209	2.209	0.000	60	18494	200.0	195.9	
24 Carbon disulfide	76	2.234	2.234	0.000	100	150419	20.0	20.0	
26 3-Chloro-1-propene	76	2.331	2.331	0.000	94	29320	20.0	20.4	
28 Methyl acetate	43	2.337	2.337	0.000	99	79558	40.0	40.3	
27 Cyclopentene	67	2.349	2.349	0.000	95	119298	NC	NC	
29 Acetonitrile	41	2.380	2.380	0.000	99	48527	200.0	201.5	
* 30 TBA-d9 (IS)	65	2.410	2.410	0.000	76	181731	1000.0	1000.0	
31 Methylene Chloride	84	2.428	2.428	0.000	96	50896	20.0	20.1	
32 2-Methyl-2-propanol	59	2.465	2.465	0.000	98	28129	200.0	193.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73	2.556	2.556	0.000	97	126213	20.0	20.1	
34 trans-1,2-Dichloroethene	96	2.580	2.580	0.000	97	44943	20.0	19.4	
35 Acrylonitrile	53	2.635	2.635	0.000	93	186525	200.0	214.6	
36 Hexane	57	2.702	2.702	0.000	93	60667	20.0	21.0	
37 Isopropyl ether	45	2.872	2.872	0.000	97	197494	20.0	20.6	
38 1,1-Dichloroethane	63	2.909	2.909	0.000	99	104968	20.0	20.2	
39 Vinyl acetate	43	2.915	2.915	0.000	100	266416	40.0	43.7	
40 2-Chloro-1,3-butadiene	88	2.945	2.945	0.000	95	40026	NC	NC	
41 Tert-butyl ethyl ether	59	3.146	3.146	0.000	86	160087	NC	NC	
* 43 2-Butanone-d5	46	3.323	3.323	0.000	97	285282	250.0	250.0	
42 2,2-Dichloropropane	79	3.335	3.335	0.000	95	24706	20.0	18.5	
44 cis-1,2-Dichloroethene	96	3.359	3.359	0.000	89	49548	20.0	19.5	
46 2-Butanone (MEK)	72	3.377	3.377	0.000	94	21476	100.0	95.7	
45 Ethyl acetate	70	3.377	3.377	0.000	93	9516	40.0	40.6	a
47 Methyl acrylate	55	3.426	3.426	0.000	99	42683	NC	NC	
48 Propionitrile	54	3.493	3.493	0.000	97	64461	NC	NC	
50 Chlorobromomethane	128	3.566	3.566	0.000	95	22138	20.0	19.6	
49 Tetrahydrofuran	72	3.566	3.566	0.000	91	9771	40.0	43.7	
51 Methacrylonitrile	67	3.584	3.584	0.000	97	187156	NC	NC	
52 Chloroform	83	3.608	3.608	0.000	97	91370	20.0	20.1	
53 Cyclohexane	84	3.724	3.724	0.000	98	57310	20.0	20.3	
54 1,1,1-Trichloroethane	97	3.742	3.742	0.000	97	71090	20.0	19.8	
\$ 55 Dibromofluoromethane (Surr)	113	3.754	3.754	0.000	94	101089	50.0	50.5	
56 Carbon tetrachloride	117	3.852	3.852	0.000	98	56094	20.0	19.6	
57 1,1-Dichloropropene	75	3.882	3.882	0.000	93	69378	20.0	20.1	
58 Isobutyl alcohol	43	4.010	4.010	0.000	90	57964	NC	NC	
59 Isooctane	57	4.034	4.034	0.000	95	102227	NC	NC	
60 Benzene	78	4.065	4.065	0.000	98	198090	20.0	20.6	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.083	4.083	0.000	0	137585	50.0	50.0	
62 Isopropyl acetate	43	4.126	4.126	0.000	94	144954	20.0	20.1	
63 Tert-amyl methyl ether	55	4.132	4.132	0.000	92	34642	NC	NC	
64 1,2-Dichloroethane	62	4.156	4.156	0.000	97	77775	20.0	20.2	
65 n-Heptane	57	4.211	4.211	0.000	97	22700	20.0	19.8	
* 66 Fluorobenzene	96	4.345	4.345	0.000	97	460431	50.0	50.0	
67 n-Butanol	56	4.667	4.667	0.000	96	17245	500.0	501.7	
68 Trichloroethene	95	4.691	4.691	0.000	92	48315	20.0	18.9	
69 Methylcyclohexane	83	4.813	4.813	0.000	86	59856	20.0	20.6	
70 Ethyl acrylate	55	4.819	4.819	0.000	97	122785	20.0	19.9	
71 1,2-Dichloropropane	63	4.983	4.983	0.000	89	60458	20.0	19.8	
* 72 1,4-Dioxane-d8	96	5.056	5.056	0.000	0	23858	1000.0	1000.0	
73 Methyl methacrylate	100	5.075	5.075	0.000	94	18376	40.0	39.8	
74 Dibromomethane	93	5.117	5.117	0.000	92	32438	20.0	19.3	
75 1,4-Dioxane	88	5.123	5.123	0.000	33	5130	400.0	395.7	M
76 n-Propyl acetate	43	5.135	5.135	0.000	99	76992	20.0	20.0	
77 Dichlorobromomethane	83	5.275	5.275	0.000	98	66063	20.0	19.3	
78 2-Nitropropane	41	5.634	5.634	0.000	81	24668	NC	NC	
79 2-Chloroethyl vinyl ether	63	5.640	5.640	0.000	79	32686	20.0	19.3	
80 Epichlorohydrin	57	5.750	5.750	0.000	99	88675	400.0	386.9	
81 cis-1,3-Dichloropropene	75	5.805	5.805	0.000	100	92114	20.0	20.4	
82 4-Methyl-2-pentanone (MIBK)	43	5.993	5.993	0.000	97	280021	100.0	103.5	
\$ 83 Toluene-d8 (Surr)	98	6.060	6.060	0.000	97	384192	50.0	52.2	
84 Toluene	91	6.145	6.145	0.000	92	204579	20.0	20.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.541	6.541	0.000	97	80082	20.0	19.9	
86 Ethyl methacrylate	69	6.589	6.589	0.000	97	61917	NC	NC	
87 1,1,2-Trichloroethane	83	6.778	6.778	0.000	93	43294	20.0	20.5	
88 Tetrachloroethene	166	6.808	6.808	0.000	94	43218	20.0	20.7	
89 1,3-Dichloropropane	76	7.009	7.009	0.000	97	81788	20.0	20.9	
90 2-Hexanone	58	7.100	7.100	0.000	98	87403	100.0	98.9	
91 n-Butyl acetate	43	7.246	7.246	0.000	96	92982	20.0	20.1	
92 Chlorodibromomethane	129	7.259	7.259	0.000	97	43742	20.0	19.6	
93 Ethylene Dibromide	107	7.423	7.423	0.000	96	47055	20.0	20.6	
* 94 Chlorobenzene-d5	117	8.013	8.013	0.000	92	344187	50.0	50.0	
95 Chlorobenzene	112	8.049	8.049	0.000	90	122710	20.0	20.3	
96 Ethylbenzene	106	8.153	8.153	0.000	99	63813	20.0	20.1	
97 1,1,1,2-Tetrachloroethane	131	8.165	8.165	0.000	93	40080	20.0	19.5	
98 m-Xylene & p-Xylene	106	8.305	8.305	0.000	0	80463	20.0	20.4	
99 o-Xylene	106	8.755	8.755	0.000	92	82024	20.0	20.7	
100 n-Butyl acrylate	73	8.773	8.773	0.000	95	40541	20.0	20.2	
101 Styrene	104	8.792	8.792	0.000	90	139738	20.0	20.6	
103 Bromoform	173	9.004	9.004	0.000	93	26732	20.0	19.1	
102 Amyl acetate (mixed isomers)	43	9.017	9.017	0.000	85	116915	20.0	21.4	
104 Isopropylbenzene	105	9.138	9.138	0.000	97	197001	20.0	20.4	
\$ 105 4-Bromofluorobenzene	174	9.333	9.333	0.000	84	126311	50.0	51.7	
106 Bromobenzene	156	9.461	9.461	0.000	93	53347	20.0	20.0	
107 1,1,2,2-Tetrachloroethane	83	9.528	9.528	0.000	99	65677	20.0	20.9	
108 N-Propylbenzene	91	9.546	9.546	0.000	98	259677	20.0	20.8	
109 1,2,3-Trichloropropane	110	9.564	9.564	0.000	96	13508	20.0	19.5	
110 trans-1,4-Dichloro-2-butene	53	9.595	9.595	0.000	85	19477	NC	NC	
111 2-Chlorotoluene	91	9.637	9.637	0.000	97	184924	20.0	20.8	
112 4-Ethyltoluene	105	9.655	9.655	0.000	97	205033	NC	NC	
113 1,3,5-Trimethylbenzene	105	9.722	9.722	0.000	91	169505	20.0	20.4	
114 4-Chlorotoluene	91	9.753	9.753	0.000	99	175178	20.0	20.4	
115 Butyl Methacrylate	87	9.838	9.838	0.000	97	66185	20.0	20.5	
116 tert-Butylbenzene	119	10.002	10.002	0.000	88	130184	20.0	20.7	
117 1,2,4-Trimethylbenzene	105	10.063	10.063	0.000	99	180961	20.0	20.6	
118 sec-Butylbenzene	105	10.197	10.197	0.000	98	195651	20.0	20.7	
120 1,3-Dichlorobenzene	146	10.319	10.319	0.000	93	97090	20.0	20.3	
119 4-Isopropyltoluene	119	10.325	10.325	0.000	96	161116	20.0	20.5	
* 121 1,4-Dichlorobenzene-d4	152	10.385	10.385	0.000	98	189292	50.0	50.0	
122 1,4-Dichlorobenzene	146	10.404	10.404	0.000	95	101985	20.0	20.4	
123 1,2,3-Trimethylbenzene	105	10.428	10.428	0.000	100	191974	20.0	20.6	
124 Benzyl chloride	91	10.531	10.531	0.000	97	98468	20.0	19.4	
125 2,3-Dihydroindene	117	10.586	10.586	0.000	94	182720	NC	NC	
126 p-Diethylbenzene	119	10.647	10.647	0.000	90	85846	NC	NC	
127 n-Butylbenzene	92	10.671	10.671	0.000	97	89665	20.0	20.3	
128 1,2-Dichlorobenzene	146	10.714	10.714	0.000	93	96116	20.0	20.2	
129 1,2,4,5-Tetramethylbenzene	119	11.274	11.274	0.000	96	167741	NC	NC	
130 1,2-Dibromo-3-Chloropropane	157	11.353	11.353	0.000	87	9639	20.0	19.4	
131 1,3,5-Trichlorobenzene	180	11.462	11.462	0.000	95	65597	NC	NC	
132 1,2,4-Trichlorobenzene	180	11.937	11.937	0.000	93	61096	20.0	19.8	
133 Hexachlorobutadiene	225	12.022	12.022	0.000	93	21498	20.0	20.2	
134 Naphthalene	128	12.125	12.125	0.000	98	160166	20.0	20.1	
135 1,2,3-Trichlorobenzene	180	12.296	12.296	0.000	95	56533	20.0	19.9	
S 136 1,2-Dichloroethene, Total	100				0		40.0	38.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 137 Xylenes, Total	100				0		40.0	41.1	
S 138 Total BTEX	1				0		100.0	102.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00160	Amount Added: 20.00	Units: uL	
524freon_00058	Amount Added: 20.00	Units: uL	
ACROLEIN W_00145	Amount Added: 4.00	Units: uL	
GASES Li_00497	Amount Added: 20.00	Units: uL	
8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00232	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81265.D

Injection Date: 13-Oct-2022 00:46:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: STD20

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

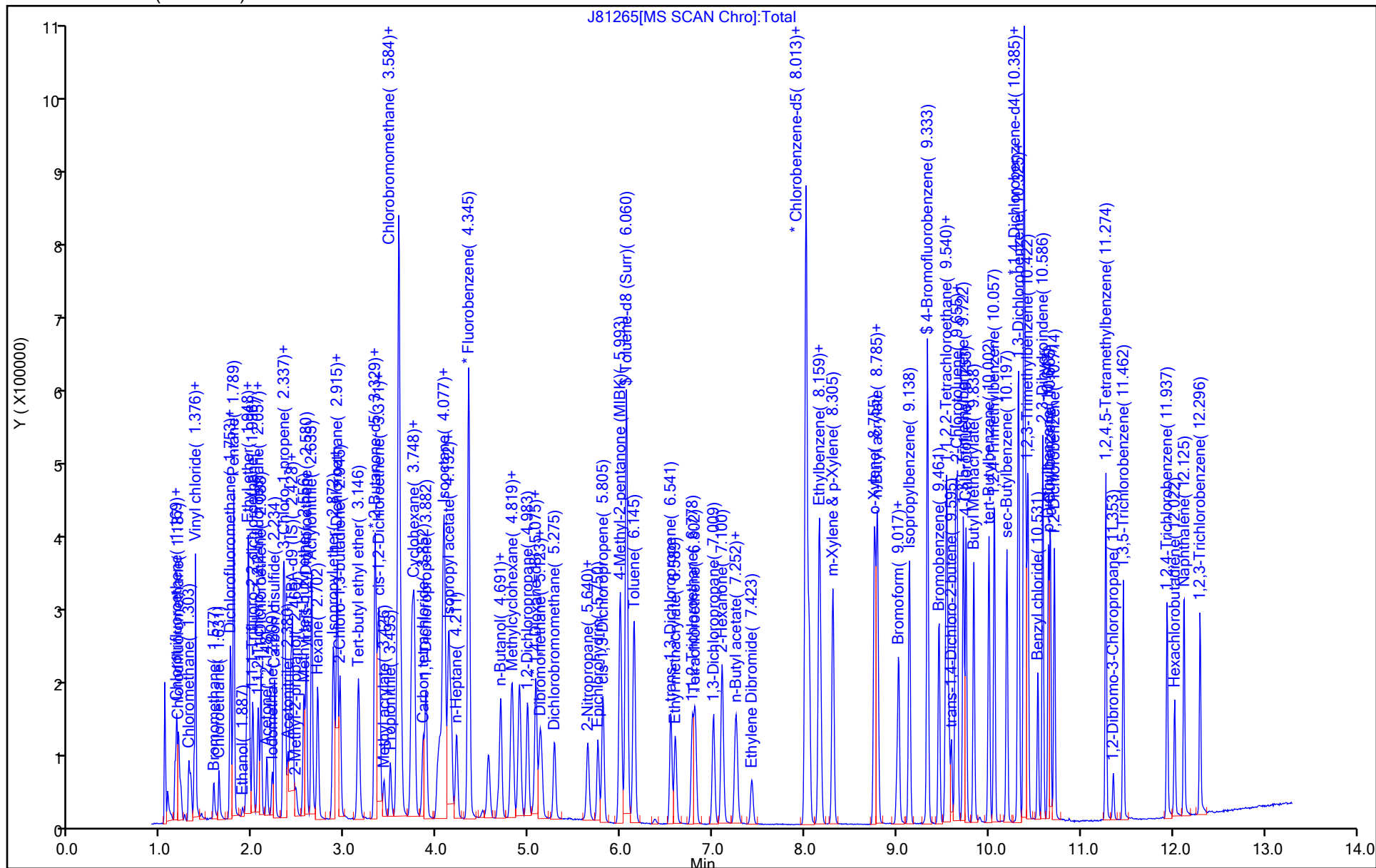
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81265.D

Injection Date: 13-Oct-2022 00:46:30

Instrument ID: CVOAMS8

Lims ID: STD20

Client ID:

Operator ID:

ALS Bottle#:

6

Worklist Smp#:

6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector

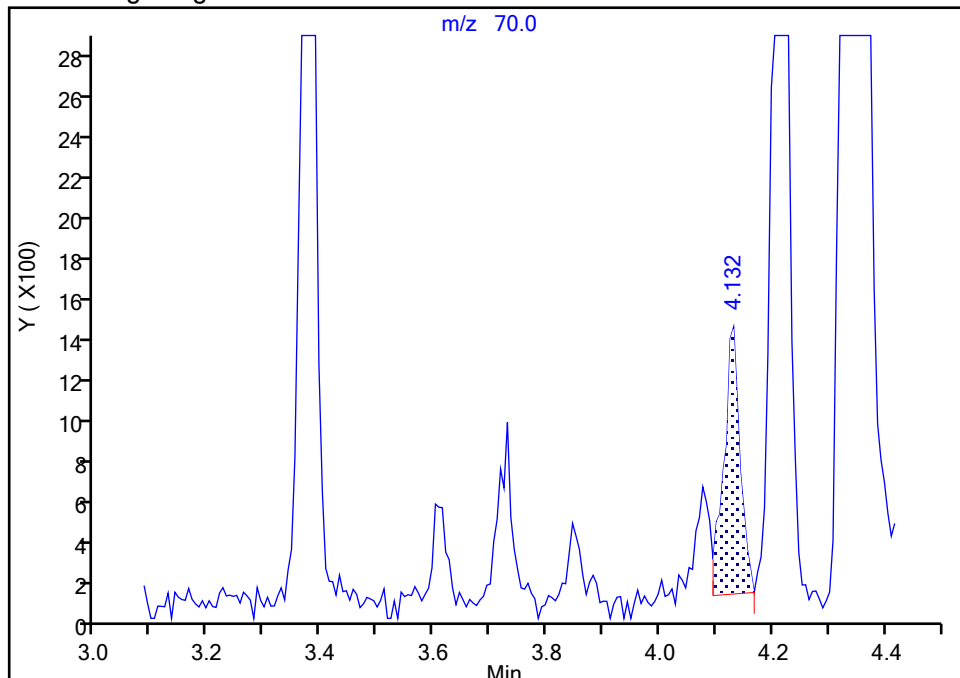
MS SCAN

45 Ethyl acetate, CAS: 141-78-6

Signal: 1

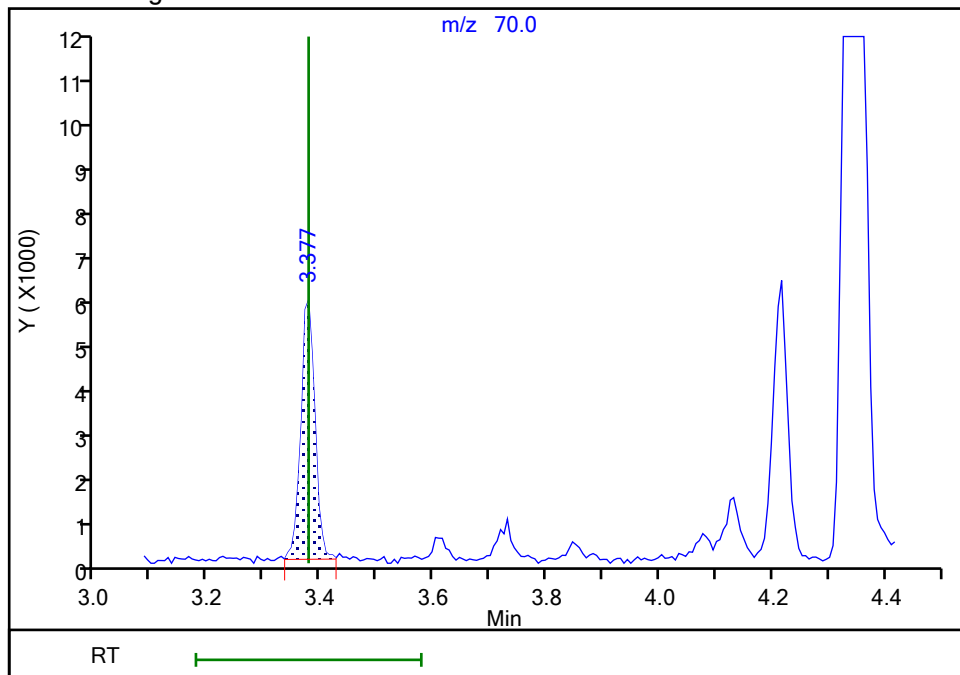
RT: 4.13
Area: 2563
Amount: 41.759029
Amount Units: ug/l

Processing Integration Results



RT: 3.38
Area: 9516
Amount: 40.635293
Amount Units: ug/l

Manual Integration Results



Reviewer: HVW2, 13-Oct-2022 01:32:41

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81265.D
Injection Date: 13-Oct-2022 00:46:30 Instrument ID: CVOAMS8
Lims ID: STD20
Client ID:
Operator ID:
Purge Vol: 5.000 mL
Method: 8260_W8
Column: Rtx-624 (0.25 mm)

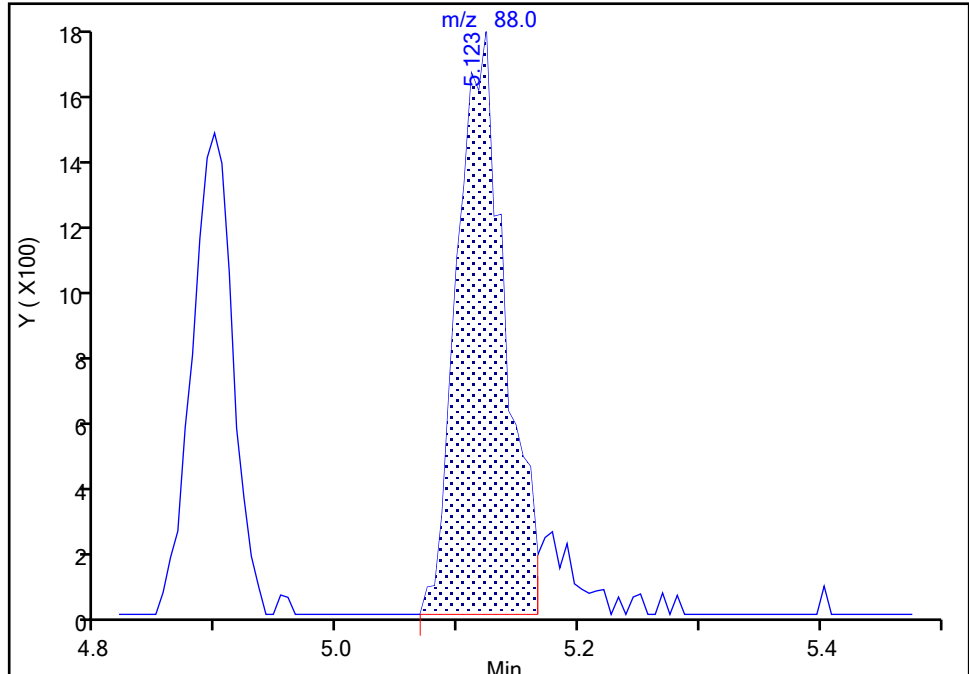
ALS Bottle#: 6 Worklist Smp#: 6
Dil. Factor: 1.0000
Limit Group: VOA 624.1 ICAL
Detector: MS SCAN

75 1,4-Dioxane, CAS: 123-91-1

Signal: 1

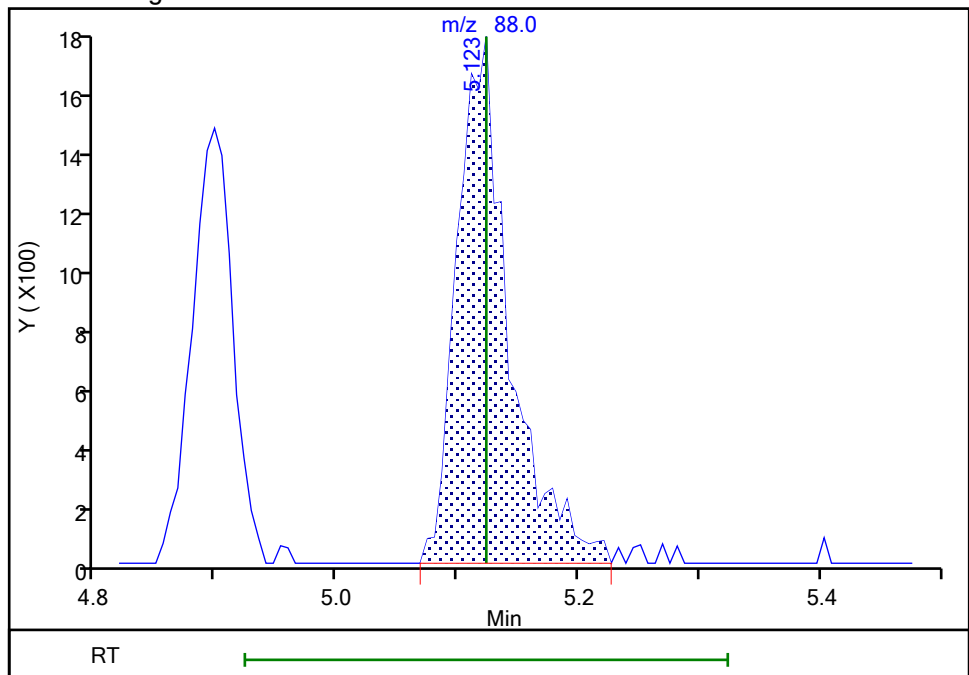
RT: 5.12
Area: 4699
Amount: 398.9692
Amount Units: ug/l

Processing Integration Results



RT: 5.12
Area: 5130
Amount: 395.6711
Amount Units: ug/l

Manual Integration Results



Reviewer: W9CM, 14-Oct-2022 15:51:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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11/08/2022

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81266.D
 Lims ID: STD50
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 13-Oct-2022 01:11:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD50
 Misc. Info.: 460-0151655-007
 Operator ID: Instrument ID: CVOAMS8
 Sublist: chrom-8260_W8*sub61
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 14-Oct-2022 16:02:36 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: HVW2

Date: 13-Oct-2022 01:32:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	118	1.148	1.151	-0.003	95	13828	NC	NC	
4 Dichlorodifluoromethane	85	1.172	1.175	-0.003	100	164101	50.0	47.7	
5 Chlorodifluoromethane	67	1.191	1.193	-0.002	99	30064	NC	NC	
6 Chloromethane	50	1.300	1.303	-0.003	100	234711	50.0	47.2	
7 Vinyl chloride	62	1.361	1.364	-0.003	99	159015	50.0	48.1	
8 Butadiene	54	1.379	1.376	0.003	95	148773	50.0	46.9	
9 Bromomethane	94	1.574	1.577	-0.003	98	56748	50.0	46.6	
10 Chloroethane	64	1.629	1.631	-0.002	98	78010	50.0	47.9	
12 Dichlorofluoromethane	67	1.750	1.753	-0.003	99	241171	NC	NC	
11 Trichlorofluoromethane	101	1.756	1.759	-0.003	98	169536	50.0	48.3	
13 Pentane	43	1.787	1.789	-0.002	96	411174	100.0	100.4	
14 Ethanol	46	1.890	1.887	0.003	96	18619	2000.0	2050.3	
15 Ethyl ether	59	1.927	1.929	-0.002	90	103598	50.0	50.8	
16 2-Methyl-1,3-butadiene	53	1.945	1.948	-0.003	95	128379	50.0	49.9	
17 1,2-Dichloro-1,1,2-trifluoroethane	117	1.957	1.960	-0.003	99	79899	NC	NC	
18 1,1,1-Trifluoro-2,2-dichloroethane	83	2.000	1.996	0.004	98	161687	NC	NC	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.055	2.057	-0.002	94	103015	50.0	49.6	
19 Acrolein	56	2.061	2.057	0.004	93	35021	100.0	96.6	
21 1,1-Dichloroethene	96	2.085	2.088	-0.003	93	98642	50.0	47.4	
22 Acetone	43	2.152	2.148	0.004	85	184664	250.0	225.5	
23 Iodomethane	142	2.207	2.209	-0.002	99	116770	50.0	53.2	
25 Isopropyl alcohol	45	2.207	2.209	-0.002	99	58764	500.0	561.0	
24 Carbon disulfide	76	2.237	2.234	0.003	100	388233	50.0	50.8	
26 3-Chloro-1-propene	76	2.328	2.331	-0.003	93	71984	50.0	49.3	
28 Methyl acetate	43	2.334	2.337	-0.003	99	209052	100.0	104.1	
27 Cyclopentene	67	2.347	2.349	-0.002	94	306021	NC	NC	
29 Acetonitrile	41	2.377	2.380	-0.003	99	136774	500.0	511.8	
* 30 TBA-d9 (IS)	65	2.413	2.410	0.003	83	201619	1000.0	1000.0	
31 Methylene Chloride	84	2.432	2.428	0.004	95	122912	50.0	47.8	
32 2-Methyl-2-propanol	59	2.468	2.465	0.003	99	82405	500.0	509.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73	2.553	2.556	-0.003	97	331676	50.0	51.9	
34 trans-1,2-Dichloroethene	96	2.578	2.580	-0.002	96	111993	50.0	47.5	
35 Acrylonitrile	53	2.639	2.635	0.004	93	477492	500.0	495.1	
36 Hexane	57	2.705	2.702	0.003	92	152063	50.0	51.8	
37 Isopropyl ether	45	2.876	2.872	0.004	97	510990	50.0	52.3	
38 1,1-Dichloroethane	63	2.906	2.909	-0.003	99	261202	50.0	49.3	
39 Vinyl acetate	43	2.918	2.915	0.003	100	637251	100.0	102.8	
40 2-Chloro-1,3-butadiene	88	2.949	2.945	0.004	95	99953	NC	NC	
41 Tert-butyl ethyl ether	59	3.144	3.146	-0.002	86	414763	NC	NC	
* 43 2-Butanone-d5	46	3.326	3.323	0.003	93	308867	250.0	250.0	
42 2,2-Dichloropropane	79	3.332	3.335	-0.003	94	62081	50.0	45.6	
44 cis-1,2-Dichloroethene	96	3.356	3.359	-0.003	90	123461	50.0	47.7	
46 2-Butanone (MEK)	72	3.375	3.377	-0.002	94	54251	250.0	223.4	
45 Ethyl acetate	70	3.375	3.377	-0.002	94	24524	100.0	96.7	a
47 Methyl acrylate	55	3.423	3.426	-0.003	99	107391	NC	NC	
48 Propionitrile	54	3.490	3.493	-0.003	97	166782	NC	NC	
50 Chlorobromomethane	128	3.563	3.566	-0.003	94	54682	50.0	47.7	
49 Tetrahydrofuran	72	3.569	3.566	0.003	92	24978	100.0	103.1	
51 Methacrylonitrile	67	3.588	3.584	0.004	97	486259	NC	NC	
52 Chloroform	83	3.612	3.608	0.004	97	225331	50.0	48.7	
53 Cyclohexane	84	3.728	3.724	0.004	98	141932	50.0	49.3	
54 1,1,1-Trichloroethane	97	3.740	3.742	-0.002	97	176527	50.0	48.3	
\$ 55 Dibromofluoromethane (Surr)	113	3.752	3.754	-0.002	95	102265	50.0	50.2	
56 Carbon tetrachloride	117	3.849	3.852	-0.003	98	142869	50.0	49.1	
57 1,1-Dichloropropene	75	3.880	3.882	-0.002	92	173240	50.0	49.4	
58 Isobutyl alcohol	43	4.007	4.010	-0.003	95	163074	NC	NC	
59 Isooctane	57	4.032	4.034	-0.002	95	262974	NC	NC	a
60 Benzene	78	4.068	4.065	0.003	98	492802	50.0	49.2	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.086	4.083	0.003	0	140365	50.0	50.1	
62 Isopropyl acetate	43	4.129	4.126	0.003	94	387065	50.0	52.7	
63 Tert-amyl methyl ether	55	4.129	4.132	-0.003	93	87766	NC	NC	
64 1,2-Dichloroethane	62	4.159	4.156	0.003	97	189915	50.0	48.4	
65 n-Heptane	57	4.214	4.211	0.003	97	57755	50.0	49.4	
* 66 Fluorobenzene	96	4.348	4.345	0.003	97	468525	50.0	50.0	
67 n-Butanol	56	4.664	4.667	-0.003	97	55587	1250.0	1457.6	
68 Trichloroethene	95	4.695	4.691	0.004	91	124583	50.0	47.8	
69 Methylcyclohexane	83	4.810	4.813	-0.003	83	150147	50.0	50.8	
70 Ethyl acrylate	55	4.823	4.819	0.004	97	321873	50.0	51.2	
71 1,2-Dichloropropane	63	4.987	4.983	0.004	89	149051	50.0	48.0	
* 72 1,4-Dioxane-d8	96	5.060	5.056	0.004	0	26232	1000.0	1000.0	
73 Methyl methacrylate	100	5.078	5.075	0.003	94	47148	100.0	100.4	
74 Dibromomethane	93	5.115	5.117	-0.002	89	81852	50.0	47.8	
75 1,4-Dioxane	88	5.115	5.123	-0.008	40	16143	1000.0	1132.4	
76 n-Propyl acetate	43	5.133	5.135	-0.002	98	204392	50.0	52.2	
77 Dichlorobromomethane	83	5.279	5.275	0.004	98	167544	50.0	48.2	
78 2-Nitropropane	41	5.632	5.634	-0.002	98	69740	NC	NC	
79 2-Chloroethyl vinyl ether	63	5.644	5.640	0.004	95	89247	50.1	51.8	
80 Epichlorohydrin	57	5.753	5.750	0.003	99	239367	1000.0	964.6	
81 cis-1,3-Dichloropropene	75	5.802	5.805	-0.003	99	234776	50.0	49.8	
82 4-Methyl-2-pentanone (MIBK)	43	5.991	5.993	-0.002	98	719589	250.0	245.7	
\$ 83 Toluene-d8 (Surr)	98	6.064	6.060	0.004	98	393919	50.0	51.3	
84 Toluene	91	6.143	6.145	-0.002	92	507992	50.0	48.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.544	6.541	0.003	97	210875	50.0	50.2	
86 Ethyl methacrylate	69	6.593	6.589	0.004	96	160046	NC	NC	
87 1,1,2-Trichloroethane	83	6.775	6.778	-0.003	94	108946	50.0	49.3	
88 Tetrachloroethene	166	6.806	6.808	-0.002	93	106239	50.0	48.6	
89 1,3-Dichloropropane	76	7.007	7.009	-0.003	97	201831	50.0	49.4	
90 2-Hexanone	58	7.098	7.100	-0.002	98	234708	250.0	245.3	
91 n-Butyl acetate	43	7.244	7.246	-0.002	95	245488	50.0	50.8	
92 Chlorodibromomethane	129	7.262	7.259	0.003	97	117568	50.0	50.4	
93 Ethylene Dibromide	107	7.420	7.423	-0.003	98	117885	50.0	49.5	
* 94 Chlorobenzene-d5	117	8.010	8.013	-0.003	92	359266	50.0	50.0	
95 Chlorobenzene	112	8.047	8.049	-0.002	89	308874	50.0	48.9	
96 Ethylbenzene	106	8.156	8.153	0.003	99	163350	50.0	49.4	
97 1,1,1,2-Tetrachloroethane	131	8.175	8.165	0.010	93	108277	50.0	50.3	
98 m-Xylene & p-Xylene	106	8.308	8.305	0.003	0	202215	50.0	49.1	
99 o-Xylene	106	8.759	8.755	0.004	92	201515	50.0	48.7	
100 n-Butyl acrylate	73	8.777	8.773	0.004	95	104902	50.0	50.2	
101 Styrene	104	8.789	8.792	-0.003	90	350671	50.0	49.4	
103 Bromoform	173	9.002	9.004	-0.002	93	73334	50.0	50.3	
102 Amyl acetate (mixed isomers)	43	9.020	9.017	0.003	85	291831	50.0	51.6	
104 Isopropylbenzene	105	9.136	9.138	-0.002	98	487486	50.0	48.4	
\$ 105 4-Bromofluorobenzene	174	9.336	9.333	0.003	86	128266	50.0	50.3	
106 Bromobenzene	156	9.458	9.461	-0.003	93	132774	50.0	48.2	
107 1,1,2,2-Tetrachloroethane	83	9.531	9.528	0.003	99	163403	50.0	50.3	
108 N-Propylbenzene	91	9.543	9.546	-0.003	98	650039	50.0	50.4	
109 1,2,3-Trichloropropane	110	9.568	9.564	0.004	97	34837	50.0	48.6	
110 trans-1,4-Dichloro-2-butene	53	9.592	9.595	-0.003	87	51284	NC	NC	
111 2-Chlorotoluene	91	9.641	9.637	0.004	97	454681	50.0	49.3	
112 4-Ethyltoluene	105	9.659	9.655	0.004	98	514428	NC	NC	
113 1,3,5-Trimethylbenzene	105	9.726	9.722	0.004	91	420309	50.0	48.9	
114 4-Chlorotoluene	91	9.750	9.753	-0.003	99	439529	50.0	49.4	
115 Butyl Methacrylate	87	9.835	9.838	-0.003	97	168959	50.0	50.5	
116 tert-Butylbenzene	119	10.000	10.002	-0.002	89	322907	50.0	49.6	
117 1,2,4-Trimethylbenzene	105	10.060	10.063	-0.003	99	456709	50.0	50.2	
118 sec-Butylbenzene	105	10.194	10.197	-0.003	98	491806	50.0	50.2	
120 1,3-Dichlorobenzene	146	10.316	10.319	-0.003	95	245368	50.0	49.6	
119 4-Isopropyltoluene	119	10.328	10.325	0.003	97	411794	50.0	50.6	
* 121 1,4-Dichlorobenzene-d4	152	10.383	10.385	-0.002	98	195797	50.0	50.0	
122 1,4-Dichlorobenzene	146	10.401	10.404	-0.003	92	254577	50.0	49.2	
123 1,2,3-Trimethylbenzene	105	10.425	10.428	-0.003	99	482150	50.0	50.0	
124 Benzyl chloride	91	10.535	10.531	0.004	97	274141	50.0	52.3	
125 2,3-Dihydroindene	117	10.590	10.586	0.004	94	453226	NC	NC	
126 p-Diethylbenzene	119	10.651	10.647	0.003	90	214447	NC	NC	
127 n-Butylbenzene	92	10.669	10.671	-0.002	97	226774	50.0	49.7	
128 1,2-Dichlorobenzene	146	10.711	10.714	-0.003	93	240378	50.0	48.9	
129 1,2,4,5-Tetramethylbenzene	119	11.271	11.274	-0.003	96	423662	NC	NC	
130 1,2-Dibromo-3-Chloropropane	157	11.356	11.353	0.003	91	25589	50.0	49.9	
131 1,3,5-Trichlorobenzene	180	11.466	11.462	0.004	96	166152	NC	NC	
132 1,2,4-Trichlorobenzene	180	11.940	11.937	0.003	93	157773	50.0	49.4	
133 Hexachlorobutadiene	225	12.019	12.022	-0.003	93	52806	50.0	48.0	
134 Naphthalene	128	12.123	12.125	-0.002	98	415085	50.0	50.4	
135 1,2,3-Trichlorobenzene	180	12.299	12.296	0.003	95	144726	50.0	49.3	
S 136 1,2-Dichloroethene, Total	100				0		100.0	95.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 137 Xylenes, Total	100				0		100.0	97.8	
S 138 Total BTEX	1				0		250.0	245.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00160	Amount Added: 50.00	Units: uL	
524freon_00058	Amount Added: 50.00	Units: uL	
ACROLEIN W_00145	Amount Added: 10.00	Units: uL	
GASES Li_00497	Amount Added: 50.00	Units: uL	
8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00232	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81266.D

Injection Date: 13-Oct-2022 01:11:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: STD50

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

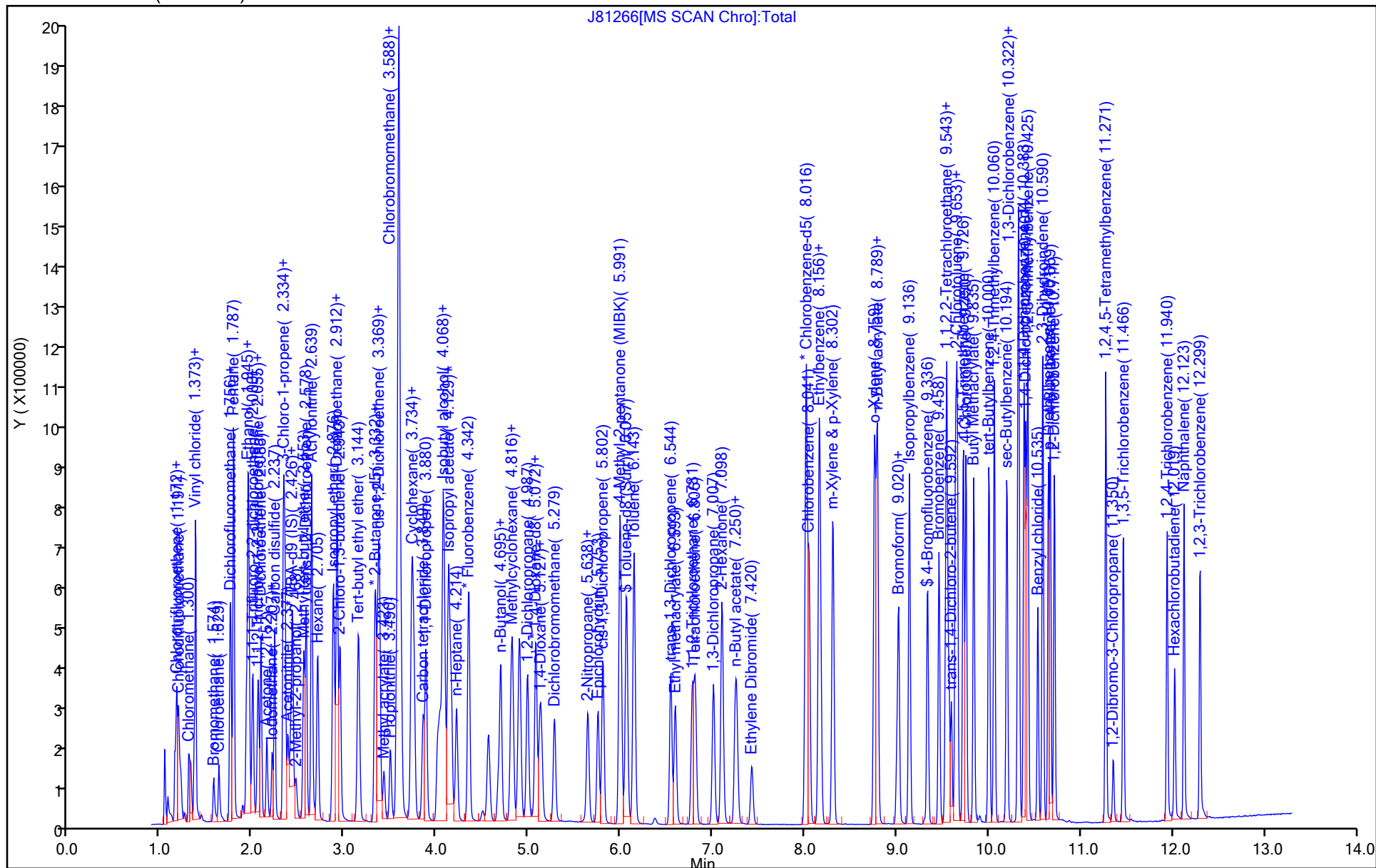
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81266.D

Injection Date: 13-Oct-2022 01:11:30

Instrument ID: CVOAMS8

Lims ID: STD50

Client ID:

Operator ID:

ALS Bottle#:

7

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)

Detector

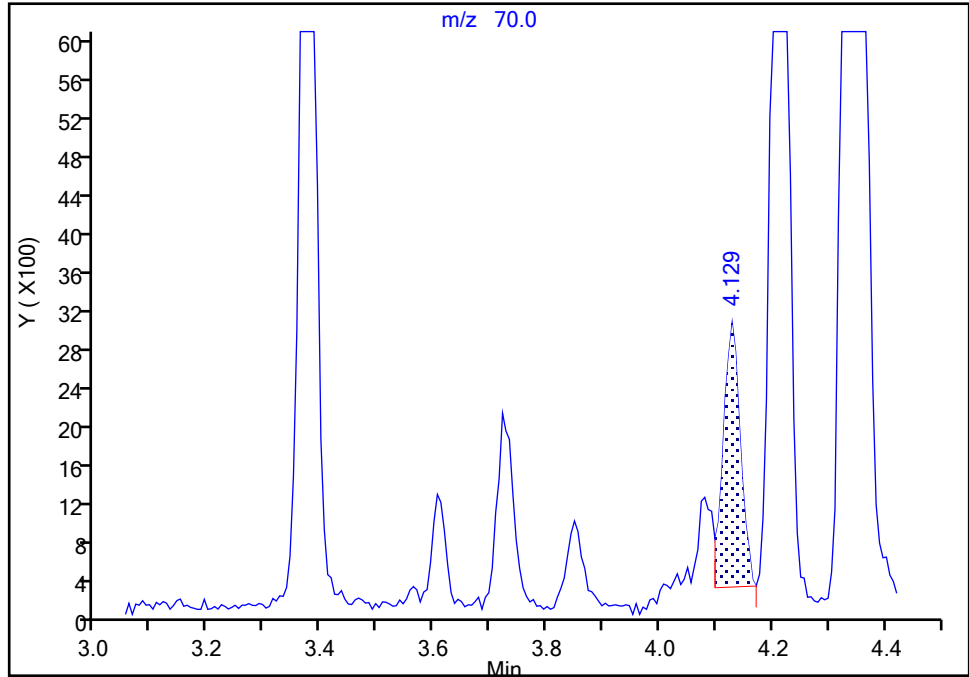
MS SCAN

45 Ethyl acetate, CAS: 141-78-6

Signal: 1

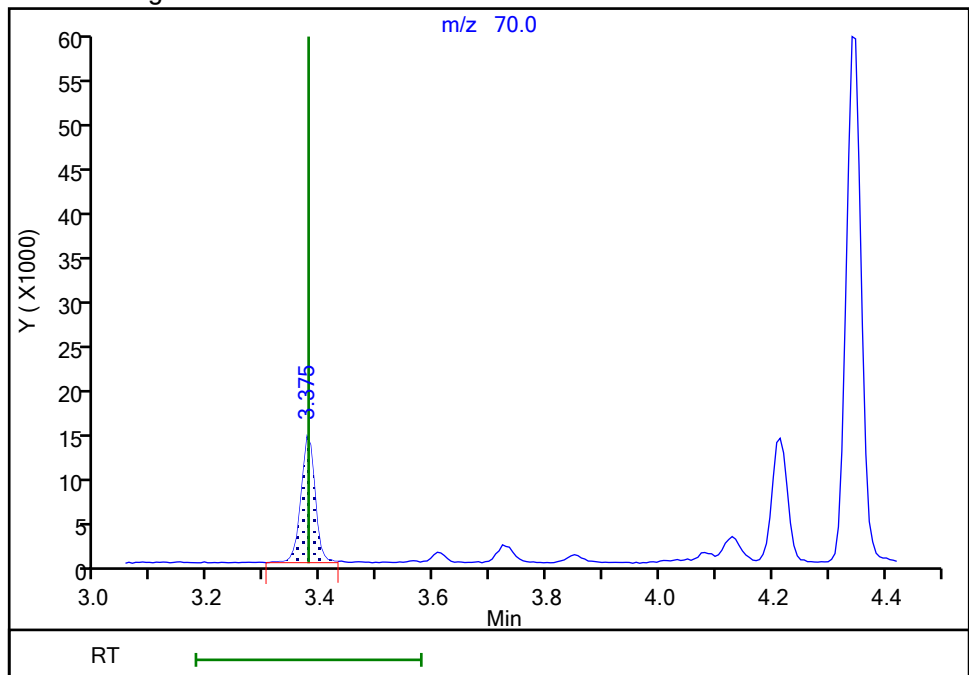
RT: 4.13
Area: 5774
Amount: 59.775367
Amount Units: ug/l

Processing Integration Results



RT: 3.37
Area: 24524
Amount: 96.725978
Amount Units: ug/l

Manual Integration Results



Reviewer: HVW2, 13-Oct-2022 01:32:03

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81267.D
 Lims ID: STD200
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 13-Oct-2022 01:36:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD200
 Misc. Info.: 460-0151655-008
 Operator ID: Instrument ID: CVOAMS8
 Sublist: chrom-8260_W8*sub61
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 14-Oct-2022 16:02:46 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: HVW2

Date: 13-Oct-2022 02:08:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	118	1.149	1.151	-0.002	96	60043	NC	NC	
4 Dichlorodifluoromethane	85	1.174	1.175	-0.001	100	729408	200.0	210.5	
5 Chlorodifluoromethane	67	1.192	1.193	-0.001	98	122540	NC	NC	
6 Chloromethane	50	1.301	1.303	-0.002	100	1002289	200.0	200.3	
7 Vinyl chloride	62	1.362	1.364	-0.002	99	648672	200.0	195.0	
8 Butadiene	54	1.374	1.376	-0.002	93	627578	200.0	196.4	
9 Bromomethane	94	1.569	1.577	-0.008	98	254644	200.0	207.9	
10 Chloroethane	64	1.630	1.631	-0.001	98	305622	200.0	186.3	
12 Dichlorofluoromethane	67	1.752	1.753	-0.001	98	939358	NC	NC	
11 Trichlorofluoromethane	101	1.758	1.759	-0.001	98	695233	200.0	196.7	
13 Pentane	43	1.788	1.789	-0.001	95	1558853	400.0	378.0	
14 Ethanol	46	1.891	1.887	0.004	97	59052	8000.0	6411.4	
15 Ethyl ether	59	1.928	1.929	-0.001	90	404180	200.0	197.0	
16 2-Methyl-1,3-butadiene	53	1.946	1.948	-0.002	99	486738	200.0	187.9	
17 1,2-Dichloro-1,1,2-trifluoroethane	117	1.958	1.960	-0.002	99	317095	NC	NC	
18 1,1,1-Trifluoro-2,2-dichloroethane	83	1.995	1.996	-0.001	99	651366	NC	NC	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.056	2.057	-0.001	94	405461	200.0	193.9	
19 Acrolein	56	2.062	2.057	0.005	94	72291	200.0	196.5	
21 1,1-Dichloroethene	96	2.086	2.088	-0.002	93	383118	200.0	183.0	
22 Acetone	43	2.153	2.148	0.005	85	846983	1000.0	1015.4	
23 Iodomethane	142	2.208	2.209	-0.001	99	521096	200.0	235.1	
25 Isopropyl alcohol	45	2.214	2.209	0.005	99	206503	2000.0	1943.6	
24 Carbon disulfide	76	2.238	2.234	0.004	100	1494626	200.0	194.3	
26 3-Chloro-1-propene	76	2.329	2.331	-0.002	96	274694	200.0	187.0	
28 Methyl acetate	43	2.336	2.337	-0.001	99	790377	400.0	391.1	
27 Cyclopentene	67	2.348	2.349	-0.001	95	1176516	NC	NC	
29 Acetonitrile	41	2.378	2.380	-0.002	99	509290	2000.0	1879.1	
* 30 TBA-d9 (IS)	65	2.415	2.410	0.005	83	204492	1000.0	1000.0	
31 Methylene Chloride	84	2.433	2.428	0.005	97	485161	200.0	187.4	
32 2-Methyl-2-propanol	59	2.469	2.465	0.004	99	299960	2000.0	1829.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73	2.555	2.556	-0.001	96	1296415	200.0	201.7	
34 trans-1,2-Dichloroethene	96	2.579	2.580	-0.001	97	435927	200.0	183.8	
35 Acrylonitrile	53	2.640	2.635	0.005	93	1797357	2000.0	1837.4	
36 Hexane	57	2.701	2.702	-0.001	93	591478	200.0	200.1	
37 Isopropyl ether	45	2.877	2.872	0.005	97	2003793	200.0	203.9	
38 1,1-Dichloroethane	63	2.907	2.909	-0.002	99	998356	200.0	187.3	
39 Vinyl acetate	43	2.920	2.915	0.005	100	2479096	400.0	397.3	
40 2-Chloro-1,3-butadiene	88	2.950	2.945	0.005	94	411051	NC	NC	
41 Tert-butyl ethyl ether	59	3.145	3.146	-0.001	86	1620524	NC	NC	
* 43 2-Butanone-d5	46	3.327	3.323	0.004	80	314688	250.0	250.0	
42 2,2-Dichloropropane	79	3.333	3.335	-0.002	96	244978	200.0	178.7	
44 cis-1,2-Dichloroethene	96	3.358	3.359	-0.001	90	489556	200.0	187.7	
46 2-Butanone (MEK)	72	3.376	3.377	-0.001	95	241063	1000.0	974.3	
45 Ethyl acetate	70	3.376	3.377	-0.001	96	101093	400.0	391.3	
47 Methyl acrylate	55	3.424	3.426	-0.002	99	450664	NC	NC	
48 Propionitrile	54	3.497	3.493	0.004	97	666574	NC	NC	
50 Chlorobromomethane	128	3.564	3.566	-0.002	94	209701	200.0	181.7	
49 Tetrahydrofuran	72	3.564	3.566	-0.002	75	97840	400.0	396.5	
51 Methacrylonitrile	67	3.589	3.584	0.005	97	1852361	NC	NC	
52 Chloroform	83	3.613	3.608	0.005	97	881586	200.0	189.4	
53 Cyclohexane	84	3.723	3.724	-0.001	97	552748	200.0	190.9	
54 1,1,1-Trichloroethane	97	3.741	3.742	-0.001	98	711163	200.0	193.1	
\$ 55 Dibromofluoromethane (Surr)	113	3.753	3.754	-0.001	95	104303	50.0	50.9	
56 Carbon tetrachloride	117	3.850	3.852	-0.002	98	584066	200.0	199.4	
57 1,1-Dichloropropene	75	3.881	3.882	-0.001	92	683826	200.0	193.6	
58 Isobutyl alcohol	43	4.008	4.010	-0.002	96	636249	NC	NC	
59 Isooctane	57	4.033	4.034	-0.001	97	1081951	NC	NC	a
60 Benzene	78	4.069	4.065	0.004	98	1877633	200.0	186.1	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.088	4.083	0.005	0	145667	50.0	51.7	
62 Isopropyl acetate	43	4.124	4.126	-0.002	97	1518941	200.0	205.6	
63 Tert-amyl methyl ether	55	4.130	4.132	-0.002	92	345268	NC	NC	
64 1,2-Dichloroethane	62	4.161	4.156	0.005	97	750759	200.0	190.2	
65 n-Heptane	57	4.215	4.211	0.004	97	229923	200.0	195.5	
* 66 Fluorobenzene	96	4.343	4.345	-0.002	97	471631	50.0	50.0	
67 n-Butanol	56	4.665	4.667	-0.002	97	196784	5000.0	5087.4	
68 Trichloroethene	95	4.696	4.691	0.005	92	489095	200.0	186.5	
69 Methylcyclohexane	83	4.811	4.813	-0.002	83	595387	200.0	199.9	
70 Ethyl acrylate	55	4.824	4.819	0.005	98	1261596	200.0	199.3	
71 1,2-Dichloropropane	63	4.988	4.983	0.005	89	586171	200.0	187.6	
* 72 1,4-Dioxane-d8	96	5.055	5.056	-0.001	0	27648	1000.0	1000.0	
73 Methyl methacrylate	100	5.079	5.075	0.004	94	191705	400.0	405.7	
74 Dibromomethane	93	5.116	5.117	-0.001	90	322712	200.0	187.4	
75 1,4-Dioxane	88	5.110	5.123	-0.013	41	55365	4000.0	3684.9	
76 n-Propyl acetate	43	5.140	5.135	0.005	99	814239	200.0	206.5	
77 Dichlorobromomethane	83	5.280	5.275	0.005	98	694794	200.0	198.5	
78 2-Nitropropane	41	5.633	5.634	-0.001	97	312691	NC	NC	
79 2-Chloroethyl vinyl ether	63	5.645	5.640	0.005	95	363490	200.5	209.6	
80 Epichlorohydrin	57	5.754	5.750	0.004	98	987405	4000.0	3905.3	
81 cis-1,3-Dichloropropene	75	5.803	5.805	-0.002	99	966856	200.0	203.4	
82 4-Methyl-2-pentanone (MIBK)	43	5.992	5.993	-0.001	98	2926389	1000.0	980.6	
\$ 83 Toluene-d8 (Surr)	98	6.059	6.060	-0.001	97	409084	50.0	52.8	
84 Toluene	91	6.144	6.145	-0.001	92	2046949	200.0	194.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.545	6.541	0.004	98	887130	200.0	209.7	
86 Ethyl methacrylate	69	6.594	6.589	0.005	96	653414	NC	NC	
87 1,1,2-Trichloroethane	83	6.776	6.778	-0.002	94	446967	200.0	200.7	
88 Tetrachloroethene	166	6.813	6.808	0.005	94	433721	200.0	197.1	
89 1,3-Dichloropropane	76	7.008	7.009	-0.001	97	830225	200.0	201.7	
90 2-Hexanone	58	7.099	7.100	-0.001	99	970278	1000.0	995.4	
91 n-Butyl acetate	43	7.245	7.246	-0.001	96	987937	200.0	202.9	
92 Chlorodibromomethane	129	7.263	7.259	0.004	96	510623	200.0	217.3	
93 Ethylene Dibromide	107	7.427	7.423	0.004	98	475919	200.0	198.5	
* 94 Chlorobenzene-d5	117	8.011	8.013	-0.002	90	362022	50.0	50.0	
95 Chlorobenzene	112	8.048	8.049	-0.001	89	1229142	200.0	193.0	
96 Ethylbenzene	106	8.157	8.153	0.004	99	657252	200.0	197.2	
97 1,1,1,2-Tetrachloroethane	131	8.170	8.165	0.005	94	454722	200.0	209.8	
98 m-Xylene & p-Xylene	106	8.309	8.305	0.004	0	781707	200.0	188.5	
99 o-Xylene	106	8.760	8.755	0.005	92	804180	200.0	192.8	
100 n-Butyl acrylate	73	8.778	8.773	0.005	95	421915	200.0	200.2	
101 Styrene	104	8.790	8.792	-0.002	91	1400273	200.0	195.9	
103 Bromoform	173	9.003	9.004	-0.001	93	337489	200.0	229.5	
102 Amyl acetate (mixed isomers)	43	9.021	9.017	0.004	86	1152166	200.0	196.4	
104 Isopropylbenzene	105	9.137	9.138	-0.001	98	1954403	200.0	192.6	
\$ 105 4-Bromofluorobenzene	174	9.338	9.333	0.005	86	129852	50.0	50.5	
106 Bromobenzene	156	9.459	9.461	-0.002	93	547850	200.0	191.8	
107 1,1,2,2-Tetrachloroethane	83	9.532	9.528	0.004	99	672005	200.0	199.2	
108 N-Propylbenzene	91	9.544	9.546	-0.002	98	2542113	200.0	189.9	
109 1,2,3-Trichloropropane	110	9.569	9.564	0.005	96	144668	200.0	194.6	
110 trans-1,4-Dichloro-2-butene	53	9.593	9.595	-0.002	89	217776	NC	NC	
111 2-Chlorotoluene	91	9.642	9.637	0.005	97	1837011	200.0	192.1	
112 4-Ethyltoluene	105	9.660	9.655	0.005	98	2084043	NC	NC	
113 1,3,5-Trimethylbenzene	105	9.727	9.722	0.005	91	1752352	200.0	196.4	
114 4-Chlorotoluene	91	9.751	9.753	-0.002	99	1814584	200.0	196.5	
115 Butyl Methacrylate	87	9.836	9.838	-0.002	97	713743	200.0	205.8	
116 tert-Butylbenzene	119	10.001	10.002	-0.001	89	1293495	200.0	191.6	
117 1,2,4-Trimethylbenzene	105	10.062	10.063	-0.001	99	1860268	200.0	197.2	
118 sec-Butylbenzene	105	10.195	10.197	-0.002	98	1929650	200.0	189.8	
120 1,3-Dichlorobenzene	146	10.317	10.319	-0.002	92	1010832	200.0	197.1	
119 4-Isopropyltoluene	119	10.329	10.325	0.004	98	1664901	200.0	197.3	
* 121 1,4-Dichlorobenzene-d4	152	10.384	10.385	-0.001	97	203202	50.0	50.0	
122 1,4-Dichlorobenzene	146	10.402	10.404	-0.002	91	1050024	200.0	195.6	
123 1,2,3-Trimethylbenzene	105	10.427	10.428	-0.001	99	1969152	200.0	196.9	
124 Benzyl chloride	91	10.536	10.531	0.005	97	1245583	200.0	229.0	
125 2,3-Dihydroindene	117	10.591	10.586	0.005	94	1870855	NC	NC	
126 p-Diethylbenzene	119	10.652	10.647	0.005	90	905043	NC	NC	
127 n-Butylbenzene	92	10.670	10.671	-0.001	98	928253	200.0	195.9	
128 1,2-Dichlorobenzene	146	10.712	10.714	-0.002	93	1009974	200.0	198.2	
129 1,2,4,5-Tetramethylbenzene	119	11.272	11.274	-0.002	96	1781918	NC	NC	
130 1,2-Dibromo-3-Chloropropane	157	11.357	11.353	0.004	93	114907	200.0	215.8	
131 1,3,5-Trichlorobenzene	180	11.467	11.462	0.005	96	712844	NC	NC	
132 1,2,4-Trichlorobenzene	180	11.941	11.937	0.004	94	661790	200.0	199.8	
133 Hexachlorobutadiene	225	12.020	12.022	-0.002	93	220516	200.0	192.9	
134 Naphthalene	128	12.124	12.125	-0.001	98	1694112	200.0	198.1	
135 1,2,3-Trichlorobenzene	180	12.300	12.296	0.004	95	613422	200.0	201.3	
S 136 1,2-Dichloroethene, Total	100				0		400.0	371.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 137 Xylenes, Total	100				0		400.0	381.3	
S 138 Total BTEX	1				0		1000.0	958.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00145	Amount Added: 20.00	Units: uL	
Ethanol mix_00069	Amount Added: 20.00	Units: uL	
MIX 1 Hi_00155	Amount Added: 20.00	Units: uL	
MIX 2 Hi_00128	Amount Added: 20.00	Units: uL	
8FreonHi_00049	Amount Added: 20.00	Units: uL	
GAS Hi_00426	Amount Added: 20.00	Units: uL	
8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00232	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81267.D

Injection Date: 13-Oct-2022 01:36:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: STD200

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

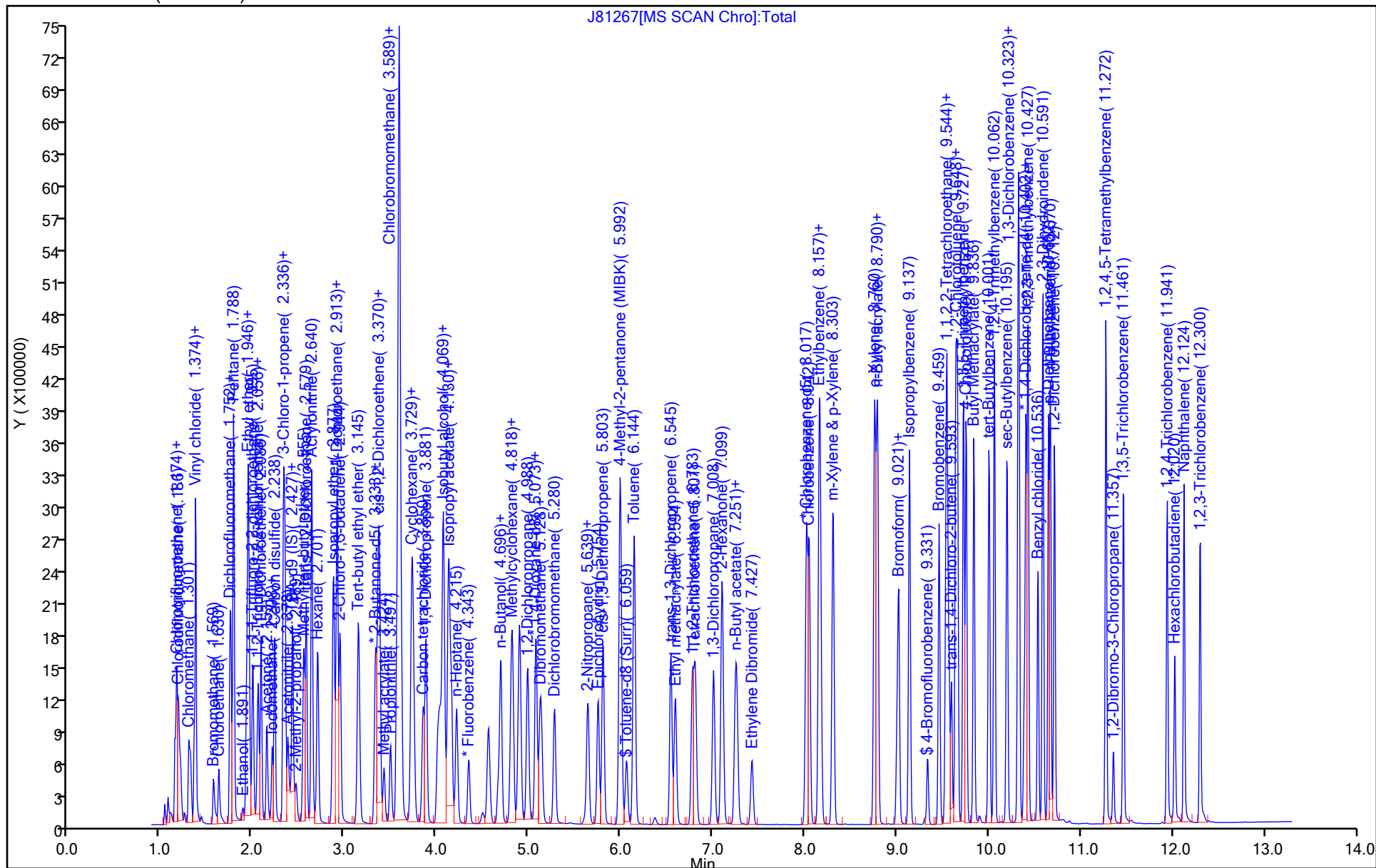
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Lims ID: STD500
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 13-Oct-2022 02:01:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD500
 Misc. Info.: 460-0151655-009
 Operator ID: Instrument ID: CVOAMS8
 Sublist: chrom-8260_W8*sub61
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 14-Oct-2022 16:03:03 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: HVW2

Date: 13-Oct-2022 02:21:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	118	1.149	1.151	-0.002	96	154736	NC	NC	
4 Dichlorodifluoromethane	85	1.174	1.175	-0.001	100	1850513	500.0	510.5	
5 Chlorodifluoromethane	67	1.192	1.193	-0.001	98	301846	NC	NC	
6 Chloromethane	50	1.301	1.303	-0.002	99	2552636	500.0	487.8	
7 Vinyl chloride	62	1.362	1.364	-0.002	99	1591757	500.0	457.4	
8 Butadiene	54	1.380	1.376	0.004	93	1468363	500.0	439.4	
9 Bromomethane	94	1.569	1.577	-0.008	98	694129	500.0	541.8	
10 Chloroethane	64	1.630	1.631	-0.001	98	747795	500.0	435.8	
12 Dichlorofluoromethane	67	1.751	1.753	-0.002	98	2272429	NC	NC	
11 Trichlorofluoromethane	101	1.764	1.759	0.005	98	1695311	500.0	458.6	
13 Pentane	43	1.788	1.789	-0.001	94	3417145	1000.0	792.3	
14 Ethanol	46	1.891	1.887	0.004	97	167008	20000	17900	
15 Ethyl ether	59	1.928	1.929	-0.001	91	923063	500.0	430.1	
16 2-Methyl-1,3-butadiene	53	1.946	1.948	-0.002	97	1136977	500.0	419.8	
17 1,2-Dichloro-1,1,2-trifluoroethane	117	1.958	1.960	-0.002	97	812615	NC	NC	
18 1,1,1-Trifluoro-2,2-dichloroethane	83	2.001	1.996	0.005	98	1641332	NC	NC	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.056	2.057	-0.001	95	975662	500.0	446.2	
19 Acrolein	56	2.062	2.057	0.005	94	141694	400.0	380.3	
21 1,1-Dichloroethene	96	2.092	2.088	0.004	94	934657	500.0	426.9	
22 Acetone	43	2.153	2.148	0.005	85	1990820	2500.0	2422.9	
23 Iodomethane	142	2.208	2.209	-0.001	99	1268801	500.0	547.0	
25 Isopropyl alcohol	45	2.214	2.209	0.005	99	581800	5000.0	5405.7	
24 Carbon disulfide	76	2.238	2.234	0.004	100	3557940	500.0	442.2	
26 3-Chloro-1-propene	76	2.329	2.331	-0.002	95	617231	500.0	401.8	
28 Methyl acetate	43	2.335	2.337	-0.002	99	1830598	1000.0	866.0	
27 Cyclopentene	67	2.348	2.349	-0.001	94	2739738	NC	NC	
29 Acetonitrile	41	2.384	2.380	0.004	98	1564806	5000.0	5699.3	
* 30 TBA-d9 (IS)	65	2.415	2.410	0.005	77	207151	1000.0	1000.0	
31 Methylene Chloride	84	2.433	2.428	0.005	97	1182036	500.0	436.6	
32 2-Methyl-2-propanol	59	2.469	2.465	0.004	99	836237	5000.0	5035.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73	2.554	2.556	-0.002	96	3098875	500.0	460.9	
34 trans-1,2-Dichloroethene	96	2.585	2.580	0.005	98	1056563	500.0	425.9	
35 Acrylonitrile	53	2.640	2.635	0.005	92	3980971	5000.0	4017.4	
36 Hexane	57	2.707	2.702	0.005	93	1367564	500.0	442.4	
37 Isopropyl ether	45	2.877	2.872	0.005	98	4614135	500.0	449.0	
38 1,1-Dichloroethane	63	2.913	2.909	0.004	100	2299176	500.0	412.5	
39 Vinyl acetate	43	2.919	2.915	0.004	100	5169943	1000.0	792.2	
40 2-Chloro-1,3-butadiene	88	2.950	2.945	0.005	95	997514	NC	NC	
41 Tert-butyl ethyl ether	59	3.145	3.146	-0.001	87	3970271	NC	NC	
* 43 2-Butanone-d5	46	3.327	3.323	0.004	81	309968	250.0	250.0	
42 2,2-Dichloropropane	79	3.333	3.335	-0.002	96	601291	500.0	419.4	
44 cis-1,2-Dichloroethene	96	3.364	3.359	0.005	90	1197715	500.0	439.2	
46 2-Butanone (MEK)	72	3.376	3.377	-0.001	95	579102	2500.0	2376.2	
45 Ethyl acetate	70	3.376	3.377	-0.001	95	253434	1000.0	996.0	
47 Methyl acrylate	55	3.424	3.426	-0.002	99	1137120	NC	NC	
48 Propionitrile	54	3.497	3.493	0.004	97	1657072	NC	NC	
50 Chlorobromomethane	128	3.570	3.566	0.004	94	513653	500.0	425.6	
49 Tetrahydrofuran	72	3.570	3.566	0.004	57	229080	1000.0	942.4	
51 Methacrylonitrile	67	3.595	3.584	0.011	94	3772707	NC	NC	
52 Chloroform	83	3.619	3.608	0.011	97	2028735	500.0	416.7	
53 Cyclohexane	84	3.729	3.724	0.005	97	1328328	500.0	438.5	
54 1,1,1-Trichloroethane	97	3.741	3.742	-0.001	97	1733938	500.0	450.2	
\$ 55 Dibromofluoromethane (Surr)	113	3.759	3.754	0.005	95	107724	50.0	50.2	
56 Carbon tetrachloride	117	3.850	3.852	-0.002	97	1484179	500.0	484.4	
57 1,1-Dichloropropene	75	3.881	3.882	-0.001	92	1715702	500.0	464.4	
58 Isobutyl alcohol	43	4.014	4.010	0.004	96	1645803	NC	NC	
59 Isooctane	57	4.039	4.034	0.005	98	2672147	NC	NC	a
60 Benzene	78	4.069	4.065	0.004	98	4554246	500.0	421.7	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.088	4.083	0.005	0	151860	50.0	51.5	
62 Isopropyl acetate	43	4.130	4.126	0.004	95	3686419	500.0	477.0	
63 Tert-amyl methyl ether	55	4.130	4.132	-0.002	91	874782	NC	NC	
64 1,2-Dichloroethane	62	4.161	4.156	0.004	97	1855837	500.0	449.6	
65 n-Heptane	57	4.215	4.211	0.004	97	548849	500.0	446.1	
* 66 Fluorobenzene	96	4.349	4.345	0.004	97	493259	50.0	50.0	
67 n-Butanol	56	4.672	4.667	0.005	96	578875	12500	14774	
68 Trichloroethene	95	4.696	4.691	0.005	92	1231962	500.0	449.1	
69 Methylcyclohexane	83	4.811	4.813	-0.002	86	1432134	500.0	459.9	
70 Ethyl acrylate	55	4.824	4.819	0.005	98	3038171	500.0	459.0	
71 1,2-Dichloropropane	63	4.988	4.983	0.005	88	1435525	500.0	439.2	
* 72 1,4-Dioxane-d8	96	5.061	5.056	0.005	0	32068	1000.0	1000.0	
73 Methyl methacrylate	100	5.079	5.075	0.004	94	479117	1000.0	969.6	
74 Dibromomethane	93	5.122	5.117	0.005	94	809742	500.0	449.6	
75 1,4-Dioxane	88	5.116	5.123	-0.007	92	174106	10000	9990.6	
76 n-Propyl acetate	43	5.140	5.135	0.005	99	2037619	500.0	494.1	
77 Dichlorobromomethane	83	5.280	5.275	0.005	98	1804834	500.0	493.0	
78 2-Nitropropane	41	5.639	5.634	0.005	98	809328	NC	NC	
79 2-Chloroethyl vinyl ether	63	5.645	5.640	0.005	96	911082	501.2	502.3	
80 Epichlorohydrin	57	5.754	5.750	0.004	98	2438316	10000	9790.6	
81 cis-1,3-Dichloropropene	75	5.809	5.805	0.004	99	2450122	500.0	481.6	
82 4-Methyl-2-pentanone (MIBK)	43	5.998	5.993	0.005	98	6818163	2500.0	2319.5	
\$ 83 Toluene-d8 (Surr)	98	6.065	6.060	0.005	97	425746	50.0	51.4	
84 Toluene	91	6.150	6.145	0.005	92	5050245	500.0	447.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.545	6.541	0.004	98	2274666	500.0	502.4	
86 Ethyl methacrylate	69	6.594	6.589	0.005	95	1630848	NC	NC	
87 1,1,2-Trichloroethane	83	6.782	6.778	0.004	95	1134865	500.0	476.3	
88 Tetrachloroethene	166	6.813	6.808	0.005	93	1102554	500.0	468.1	
89 1,3-Dichloropropane	76	7.008	7.009	-0.001	97	2040410	500.0	463.3	
90 2-Hexanone	58	7.105	7.100	0.005	99	2320160	2500.0	2416.5	
91 n-Butyl acetate	43	7.245	7.246	-0.001	96	2396191	500.0	459.9	
92 Chlorodibromomethane	129	7.263	7.259	0.004	97	1331880	500.0	529.7	
93 Ethylene Dibromide	107	7.427	7.423	0.004	98	1215875	500.0	473.9	
* 94 Chlorobenzene-d5	117	8.011	8.013	-0.002	93	387427	50.0	50.0	
95 Chlorobenzene	112	8.048	8.049	-0.001	91	3113658	500.0	456.9	
96 Ethylbenzene	106	8.163	8.153	0.010	99	1656518	500.0	464.5	
97 1,1,1,2-Tetrachloroethane	131	8.176	8.165	0.011	94	1185206	500.0	511.0	
98 m-Xylene & p-Xylene	106	8.309	8.305	0.004	0	2007832	500.0	452.3	
99 o-Xylene	106	8.760	8.755	0.005	92	2020993	500.0	452.8	
100 n-Butyl acrylate	73	8.778	8.773	0.005	95	1086316	500.0	481.7	
101 Styrene	104	8.796	8.792	0.004	90	3488106	500.0	456.0	
103 Bromoform	173	9.003	9.004	-0.001	93	921147	500.0	585.4	
102 Amyl acetate (mixed isomers)	43	9.021	9.017	0.004	87	2911135	500.0	440.0	
104 Isopropylbenzene	105	9.143	9.138	0.005	99	4865564	500.0	448.1	
\$ 105 4-Bromofluorobenzene	174	9.338	9.333	0.005	85	146141	50.0	53.1	
106 Bromobenzene	156	9.465	9.461	0.004	96	1422418	500.0	441.6	
107 1,1,2,2-Tetrachloroethane	83	9.532	9.528	0.004	98	1730998	500.0	455.0	
108 N-Propylbenzene	91	9.550	9.546	0.004	98	6123342	500.0	405.5	
109 1,2,3-Trichloropropane	110	9.569	9.564	0.005	95	376478	500.0	449.0	
110 trans-1,4-Dichloro-2-butene	53	9.599	9.595	0.004	91	575198	NC	NC	
111 2-Chlorotoluene	91	9.642	9.637	0.005	98	4669756	500.0	433.0	
112 4-Ethyltoluene	105	9.660	9.655	0.005	97	5160696	NC	NC	
113 1,3,5-Trimethylbenzene	105	9.727	9.722	0.005	91	4376970	500.0	435.1	
114 4-Chlorotoluene	91	9.757	9.753	0.004	99	4457934	500.0	428.1	
115 Butyl Methacrylate	87	9.842	9.838	0.004	97	1857726	500.0	474.8	
116 tert-Butylbenzene	119	10.007	10.002	0.005	88	3262653	500.0	428.5	
117 1,2,4-Trimethylbenzene	105	10.061	10.063	-0.002	99	4639682	500.0	436.0	
118 sec-Butylbenzene	105	10.201	10.197	0.004	97	4833209	500.0	421.6	
120 1,3-Dichlorobenzene	146	10.323	10.319	0.004	93	2557865	500.0	442.1	
119 4-Isopropyltoluene	119	10.329	10.325	0.004	95	4071140	500.0	427.8	
* 121 1,4-Dichlorobenzene-d4	152	10.390	10.385	0.005	96	229171	50.0	50.0	
122 1,4-Dichlorobenzene	146	10.408	10.404	0.004	91	2689129	500.0	444.2	
123 1,2,3-Trimethylbenzene	105	10.433	10.428	0.005	99	4957957	500.0	439.5	
124 Benzyl chloride	91	10.536	10.531	0.005	97	3276591	500.0	534.0	
125 2,3-Dihydroindene	117	10.591	10.586	0.005	93	4594909	NC	NC	
126 p-Diethylbenzene	119	10.652	10.647	0.005	90	2270467	NC	NC	
127 n-Butylbenzene	92	10.670	10.671	-0.001	98	2293278	500.0	429.2	
128 1,2-Dichlorobenzene	146	10.718	10.714	0.004	92	2589395	500.0	450.5	
129 1,2,4,5-Tetramethylbenzene	119	11.278	11.274	0.004	96	4269660	NC	NC	
130 1,2-Dibromo-3-Chloropropane	157	11.357	11.353	0.004	92	309301	500.0	515.1	
131 1,3,5-Trichlorobenzene	180	11.467	11.462	0.005	96	1797522	NC	NC	
132 1,2,4-Trichlorobenzene	180	11.941	11.937	0.004	94	1688922	500.0	452.2	
133 Hexachlorobutadiene	225	12.026	12.022	0.004	94	601278	500.0	466.5	
134 Naphthalene	128	12.124	12.125	-0.001	97	4325742	500.0	448.5	
135 1,2,3-Trichlorobenzene	180	12.300	12.296	0.004	95	1598850	500.0	465.2	
S 136 1,2-Dichloroethene, Total	100				0		1000.0	865.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 137 Xylenes, Total	100				0		1000.0	905.1	
S 138 Total BTEX	1				0		2500.0	2239.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

GAS Hi_00426	Amount Added: 50.00	Units: uL	
MIX 2 Hi_00128	Amount Added: 50.00	Units: uL	
MIX I Hi_00155	Amount Added: 50.00	Units: uL	
8FreonHi_00049	Amount Added: 50.00	Units: uL	
Ethanol mix_00069	Amount Added: 50.00	Units: uL	
ACROLEIN W_00145	Amount Added: 40.00	Units: uL	
8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00232	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D

Injection Date: 13-Oct-2022 02:01:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: STD500

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

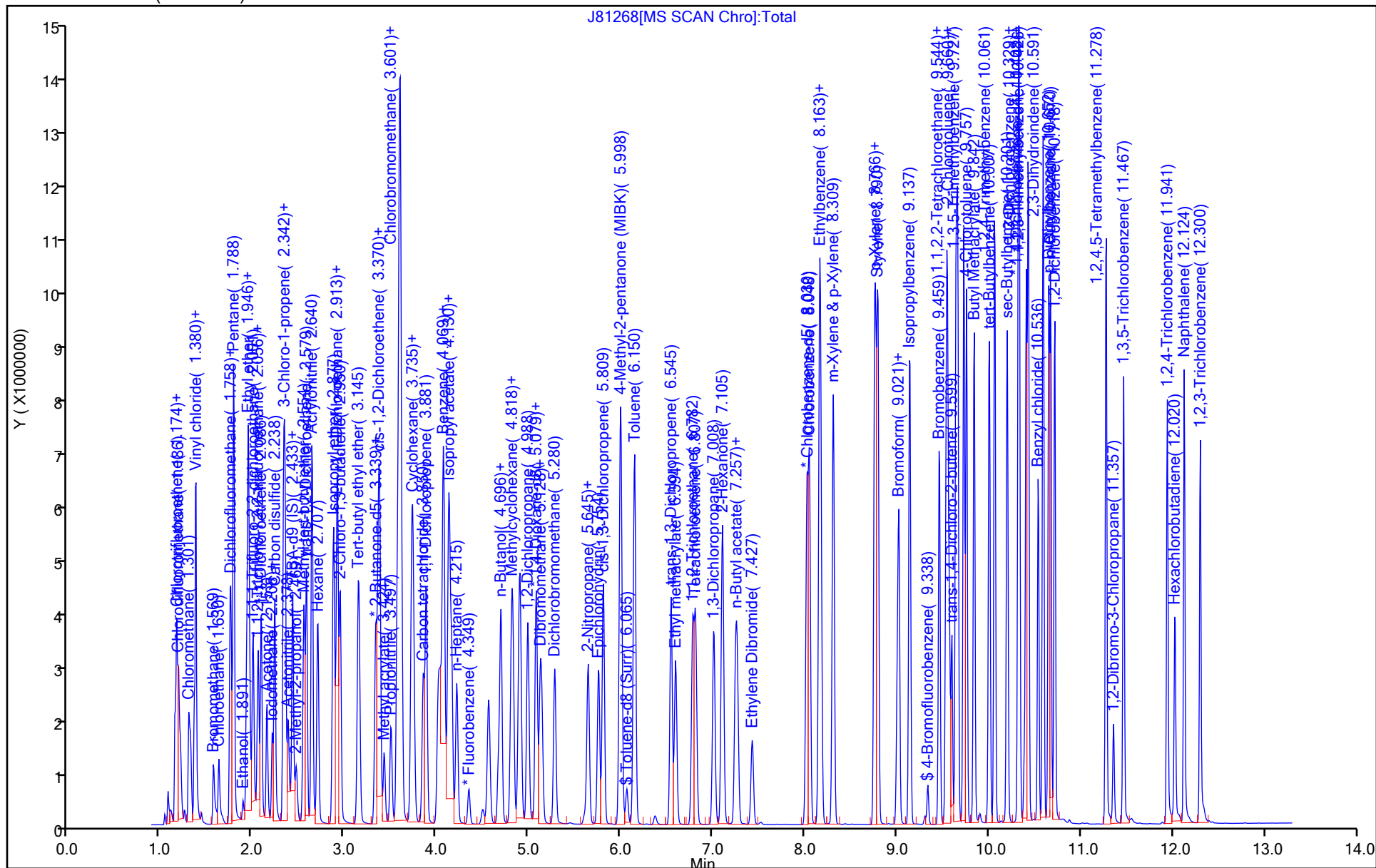
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Calibration

/ Dichlorodifluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

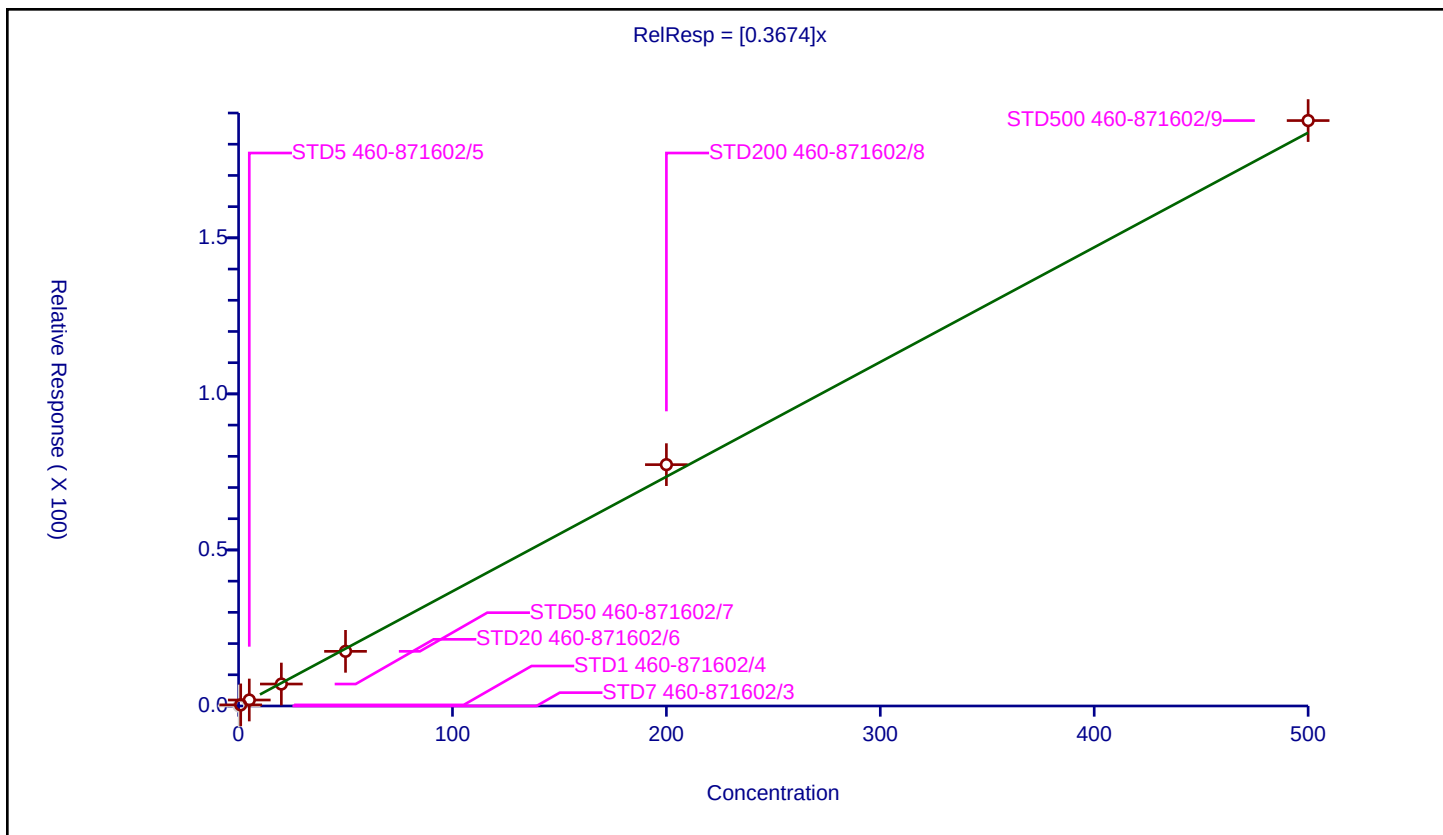
Curve Coefficients

Intercept: 0
 Slope: 0.3674

Error Coefficients

Standard Error: 893000
 Relative Standard Error: 4.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.25	0.0	50.0	447005.0	0.0	N
2	STD1 460-871602/4	1.0	0.356833	50.0	439281.0	0.356833	Y
3	STD5 460-871602/5	5.0	1.919484	50.0	453872.0	0.383897	Y
4	STD20 460-871602/6	20.0	7.033844	50.0	460431.0	0.351692	Y
5	STD50 460-871602/7	50.0	17.512513	50.0	468525.0	0.35025	Y
6	STD200 460-871602/8	200.0	77.32825	50.0	471631.0	0.386641	Y
7	STD500 460-871602/9	500.0	187.580257	50.0	493259.0	0.375161	Y



Calibration

/ Chloromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

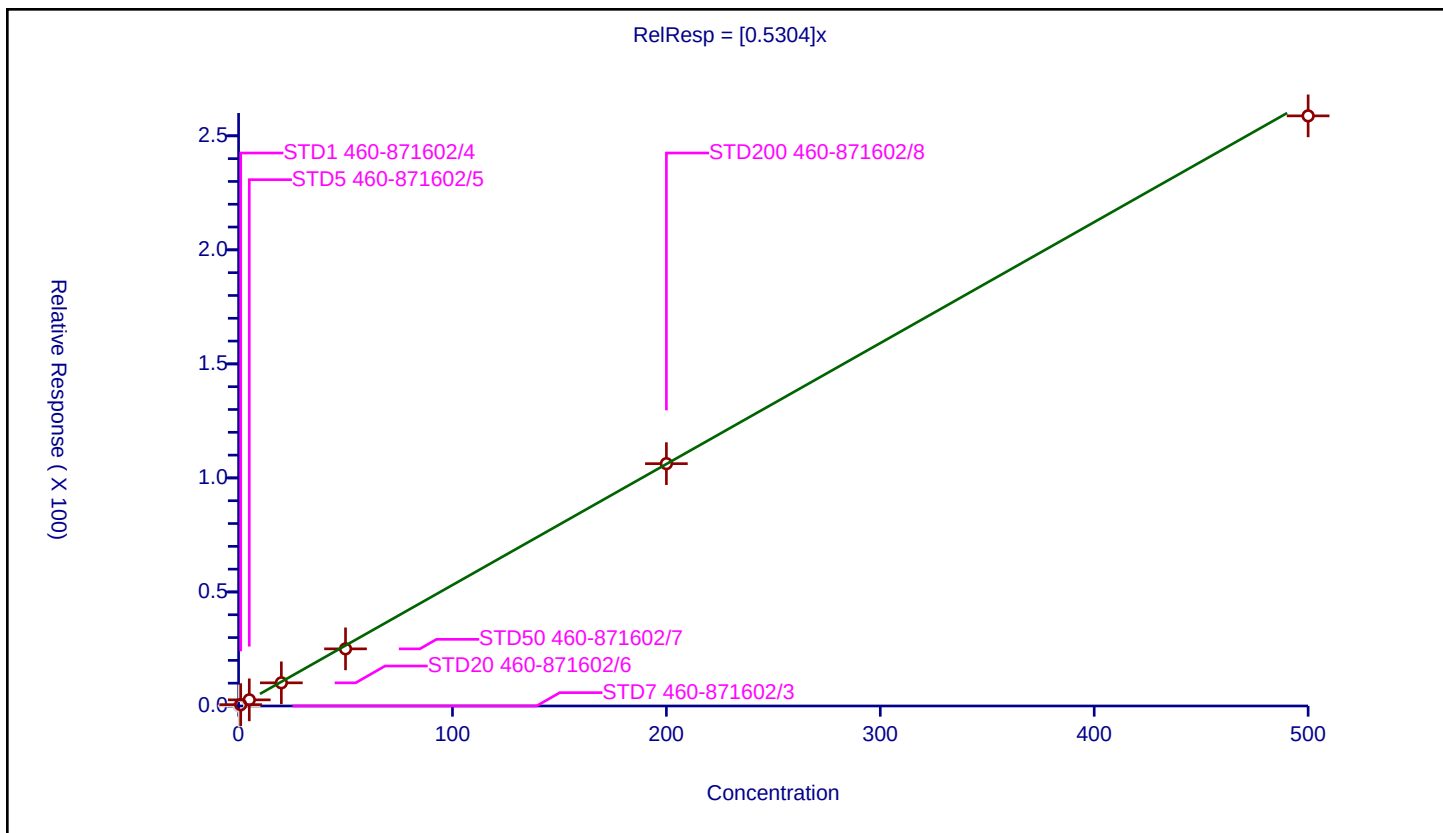
Curve Coefficients

Intercept: 0
 Slope: 0.5304

Error Coefficients

Standard Error: 1230000
 Relative Standard Error: 5.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.25	0.0	50.0	447005.0	0.0	N
2	STD1 460-871602/4	1.0	0.585047	50.0	439281.0	0.585047	Y
3	STD5 460-871602/5	5.0	2.698889	50.0	453872.0	0.539778	Y
4	STD20 460-871602/6	20.0	10.157114	50.0	460431.0	0.507856	Y
5	STD50 460-871602/7	50.0	25.047863	50.0	468525.0	0.500957	Y
6	STD200 460-871602/8	200.0	106.257752	50.0	471631.0	0.531289	Y
7	STD500 460-871602/9	500.0	258.752096	50.0	493259.0	0.517504	Y



Calibration

/ Vinyl chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

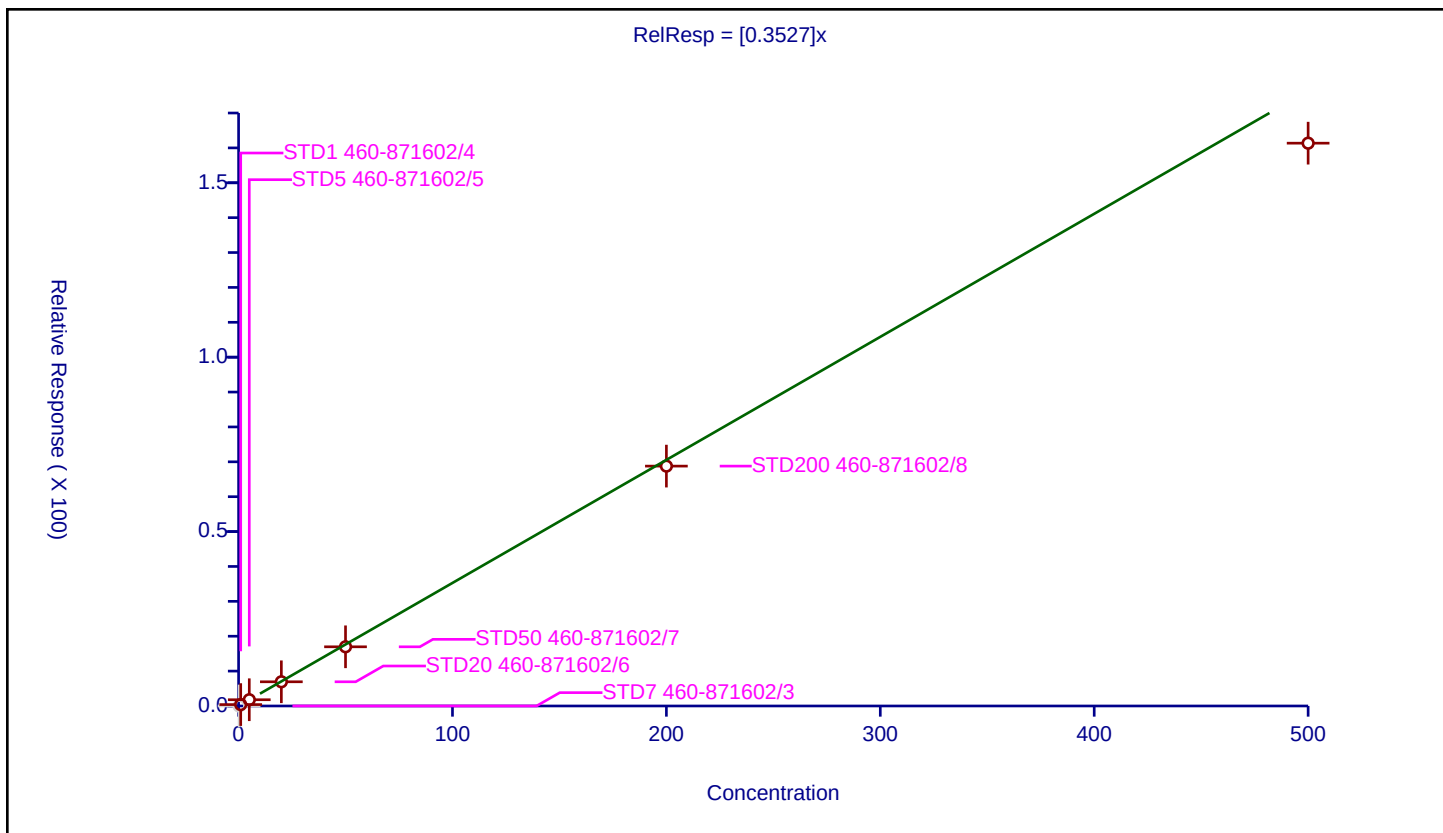
Curve Coefficients

Intercept: 0
 Slope: 0.3527

Error Coefficients

Standard Error: 772000
 Relative Standard Error: 7.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.25	0.0	50.0	447005.0	0.0	N
2	STD1 460-871602/4	1.0	0.404525	50.0	439281.0	0.404525	Y
3	STD5 460-871602/5	5.0	1.795881	50.0	453872.0	0.359176	Y
4	STD20 460-871602/6	20.0	6.936979	50.0	460431.0	0.346849	Y
5	STD50 460-871602/7	50.0	16.969745	50.0	468525.0	0.339395	Y
6	STD200 460-871602/8	200.0	68.769016	50.0	471631.0	0.343845	Y
7	STD500 460-871602/9	500.0	161.351035	50.0	493259.0	0.322702	Y



Calibration

/ Butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

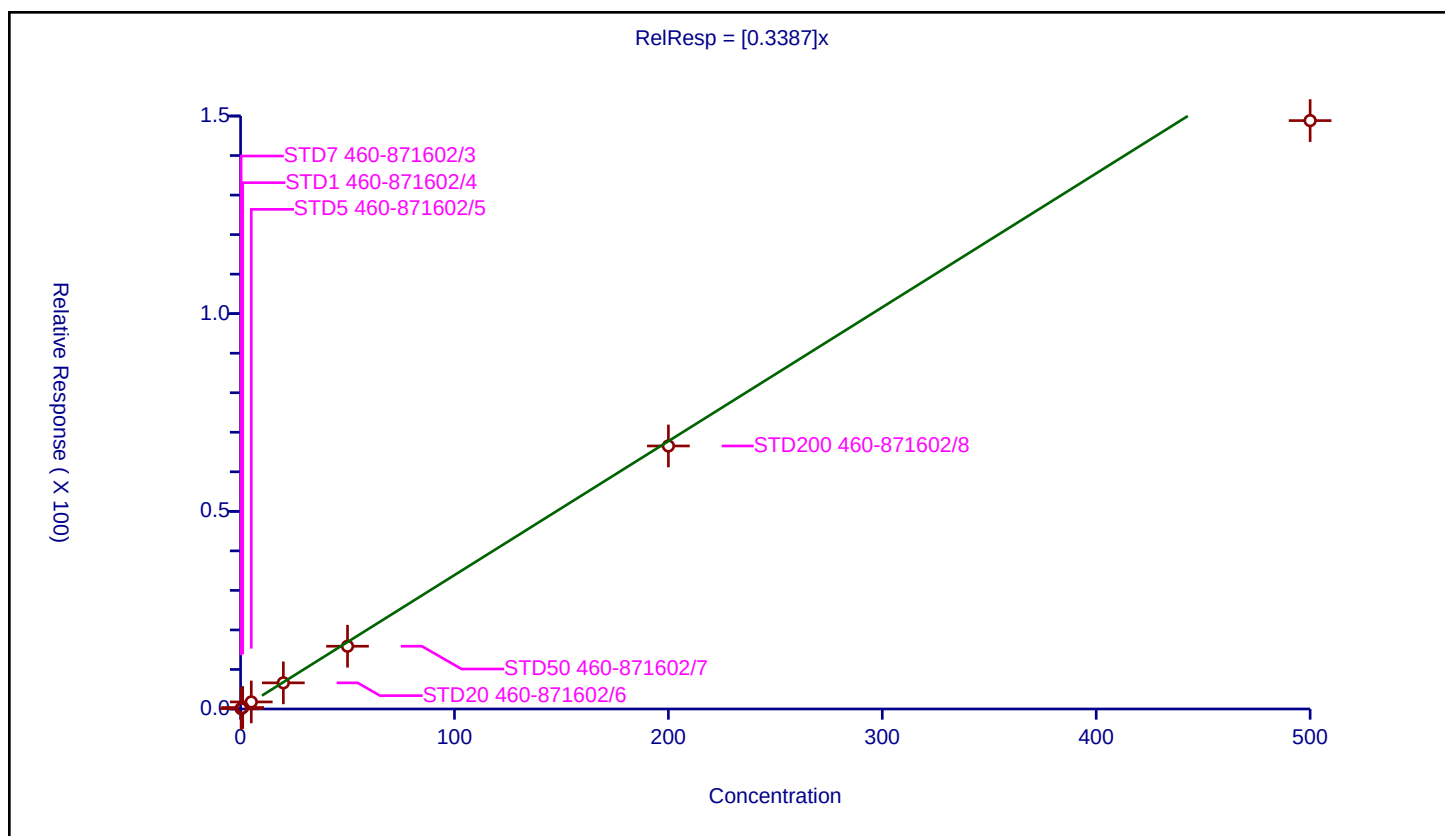
Curve Coefficients

Intercept: 0
Slope: 0.3387

Error Coefficients

Standard Error: 655000
Relative Standard Error: 8.0
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.25	0.090491	50.0	447005.0	0.361965	Y
2	STD1 460-871602/4	1.0	0.374476	50.0	439281.0	0.374476	Y
3	STD5 460-871602/5	5.0	1.781119	50.0	453872.0	0.356224	Y
4	STD20 460-871602/6	20.0	6.611957	50.0	460431.0	0.330598	Y
5	STD50 460-871602/7	50.0	15.876741	50.0	468525.0	0.317535	Y
6	STD200 460-871602/8	200.0	66.532734	50.0	471631.0	0.332664	Y
7	STD500 460-871602/9	500.0	148.843001	50.0	493259.0	0.297686	Y



Calibration

/ Bromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

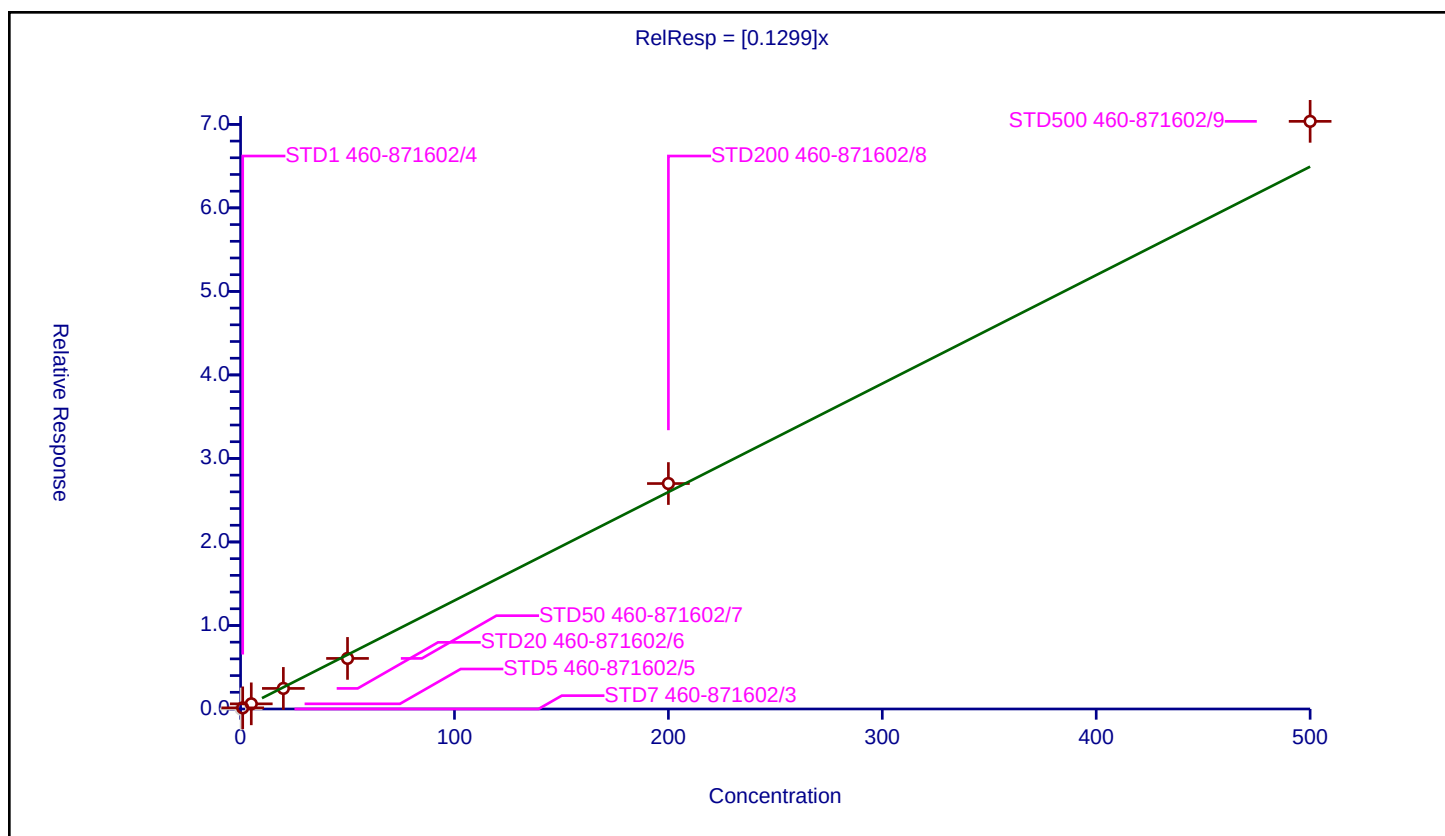
Curve Coefficients

Intercept: 0
 Slope: 0.1299

Error Coefficients

Standard Error: 332000
 Relative Standard Error: 6.3
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.25	0.0	50.0	447005.0	0.0	N
2	STD1 460-871602/4	1.0	0.135676	50.0	439281.0	0.135676	Y
3	STD5 460-871602/5	5.0	0.618236	50.0	453872.0	0.123647	Y
4	STD20 460-871602/6	20.0	2.461824	50.0	460431.0	0.123091	Y
5	STD50 460-871602/7	50.0	6.056027	50.0	468525.0	0.121121	Y
6	STD200 460-871602/8	200.0	26.996105	50.0	471631.0	0.134981	Y
7	STD500 460-871602/9	500.0	70.361514	50.0	493259.0	0.140723	Y



Calibration

/ Chloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

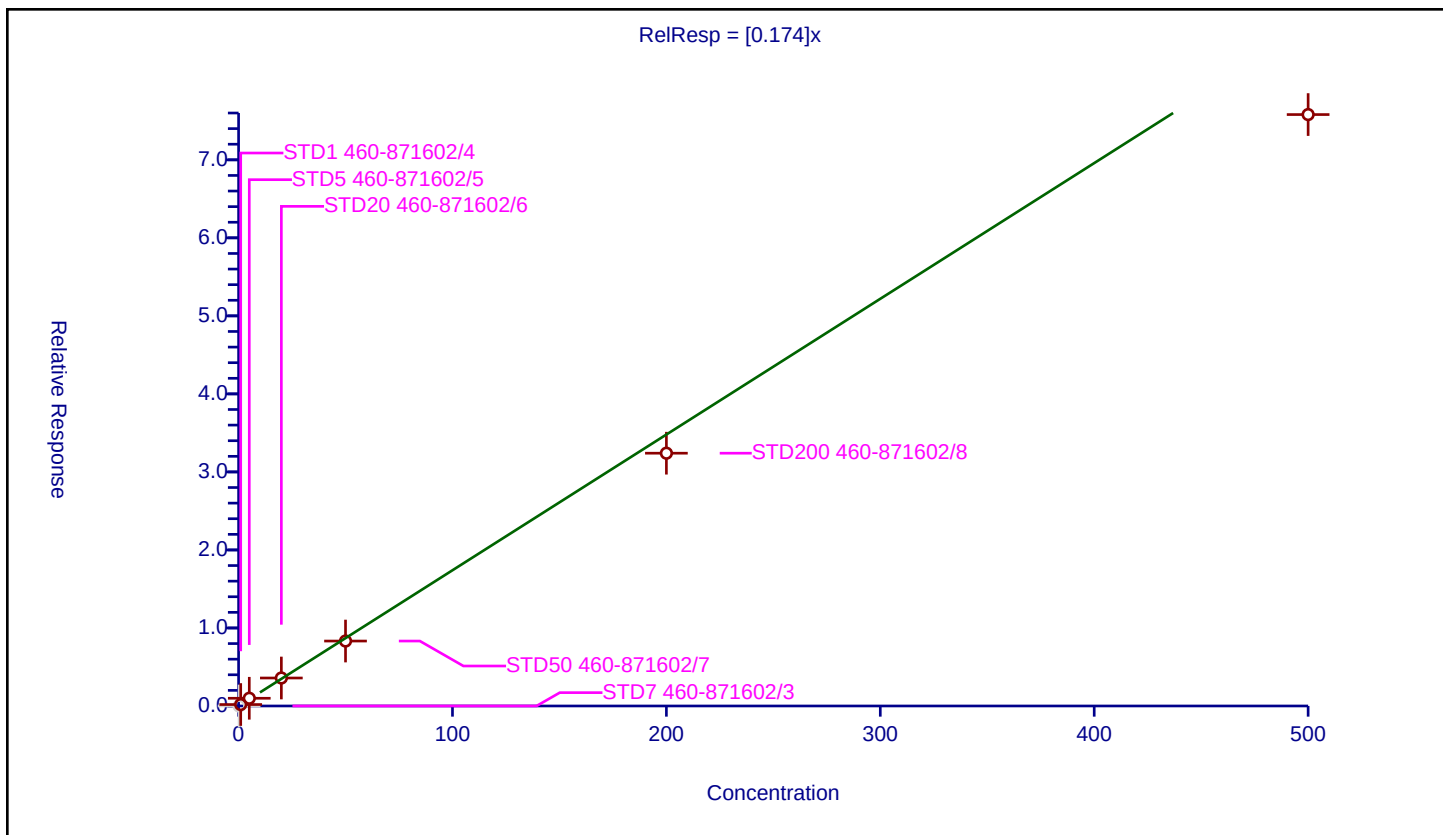
Curve Coefficients

Intercept: 0
 Slope: 0.174

Error Coefficients

Standard Error: 363000
 Relative Standard Error: 9.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.25	0.0	50.0	447005.0	0.0	N
2	STD1 460-871602/4	1.0	0.186213	50.0	439281.0	0.186213	Y
3	STD5 460-871602/5	5.0	0.990147	50.0	453872.0	0.198029	Y
4	STD20 460-871602/6	20.0	3.587617	50.0	460431.0	0.179381	Y
5	STD50 460-871602/7	50.0	8.325063	50.0	468525.0	0.166501	Y
6	STD200 460-871602/8	200.0	32.400542	50.0	471631.0	0.162003	Y
7	STD500 460-871602/9	500.0	75.801455	50.0	493259.0	0.151603	Y



Calibration

/ Trichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

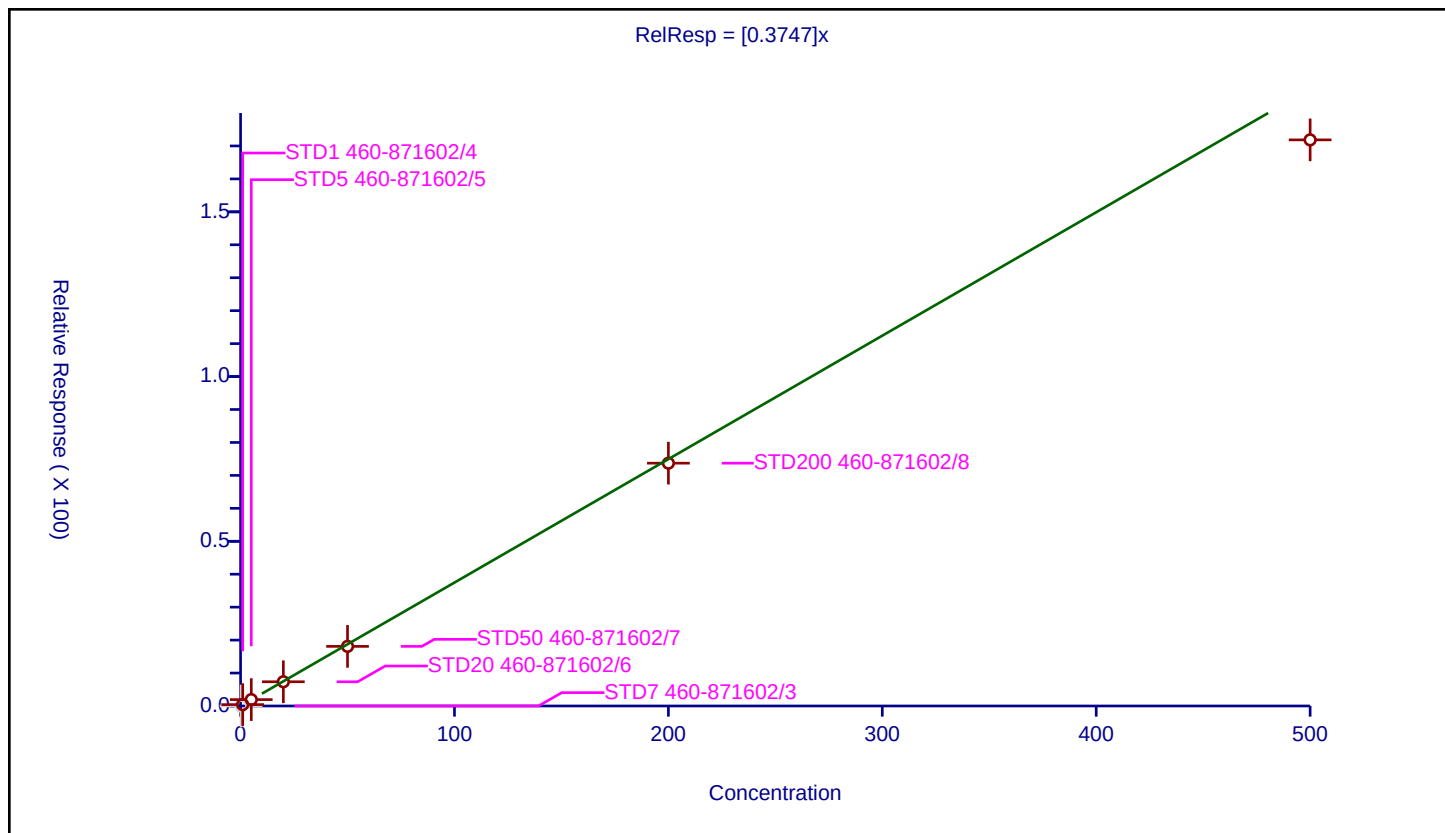
Curve Coefficients

Intercept: 0
 Slope: 0.3747

Error Coefficients

Standard Error: 823000
 Relative Standard Error: 6.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.25	0.0	50.0	447005.0	0.0	N
2	STD1 460-871602/4	1.0	0.418183	50.0	439281.0	0.418183	Y
3	STD5 460-871602/5	5.0	1.941186	50.0	453872.0	0.388237	Y
4	STD20 460-871602/6	20.0	7.352676	50.0	460431.0	0.367634	Y
5	STD50 460-871602/7	50.0	18.092524	50.0	468525.0	0.36185	Y
6	STD200 460-871602/8	200.0	73.705185	50.0	471631.0	0.368526	Y
7	STD500 460-871602/9	500.0	171.847954	50.0	493259.0	0.343696	Y



Calibration

/ Pentane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

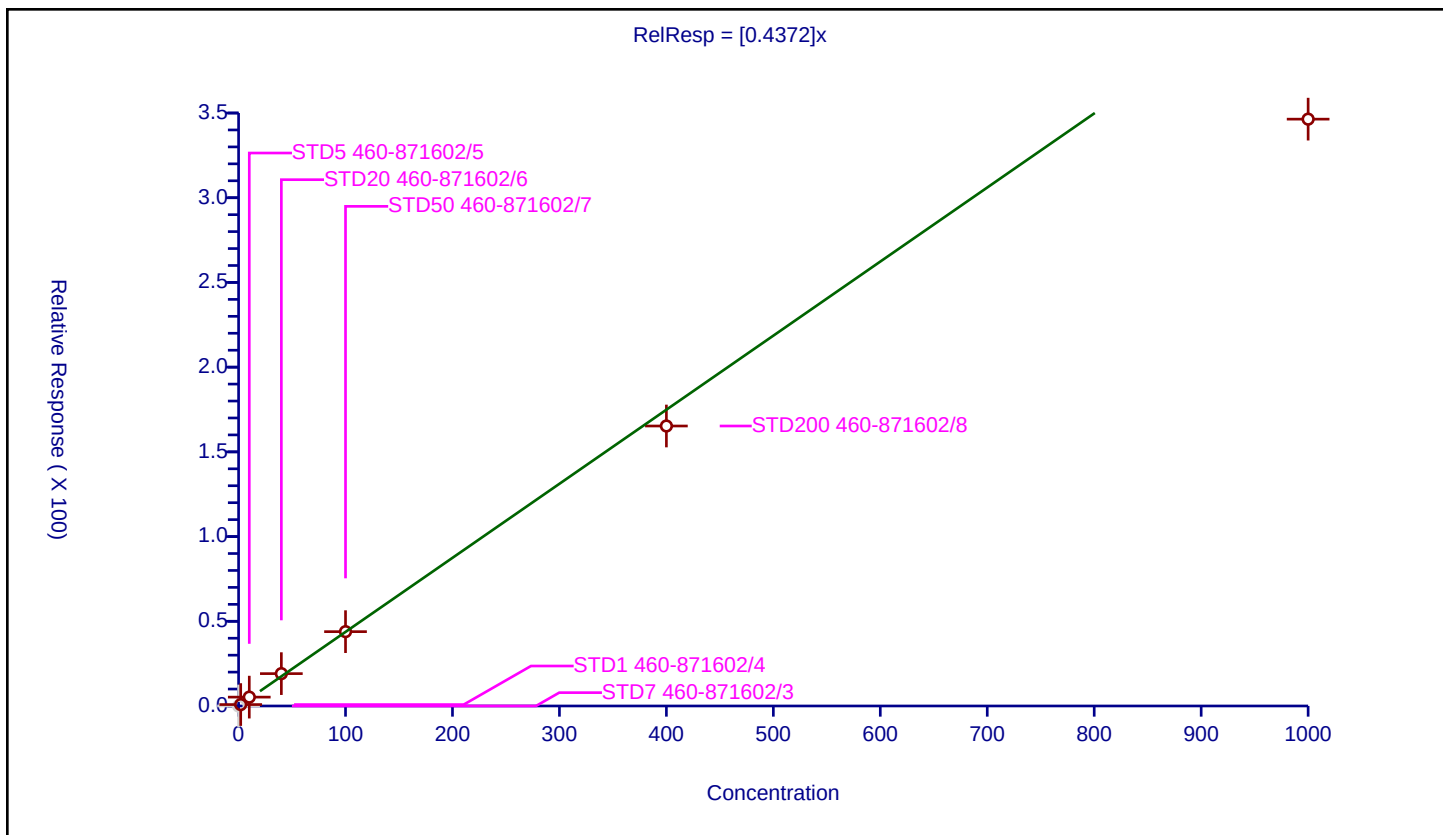
Curve Coefficients

Intercept: 0
 Slope: 0.4372

Error Coefficients

Standard Error: 1690000
 Relative Standard Error: 13.7
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	2.0	0.849456	50.0	439281.0	0.424728	Y
3	STD5 460-871602/5	10.0	5.226143	50.0	453872.0	0.522614	Y
4	STD20 460-871602/6	40.0	19.095912	50.0	460431.0	0.477398	Y
5	STD50 460-871602/7	100.0	43.879622	50.0	468525.0	0.438796	Y
6	STD200 460-871602/8	400.0	165.261931	50.0	471631.0	0.413155	Y
7	STD500 460-871602/9	1000.0	346.384455	50.0	493259.0	0.346384	Y



Calibration

/ Ethanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

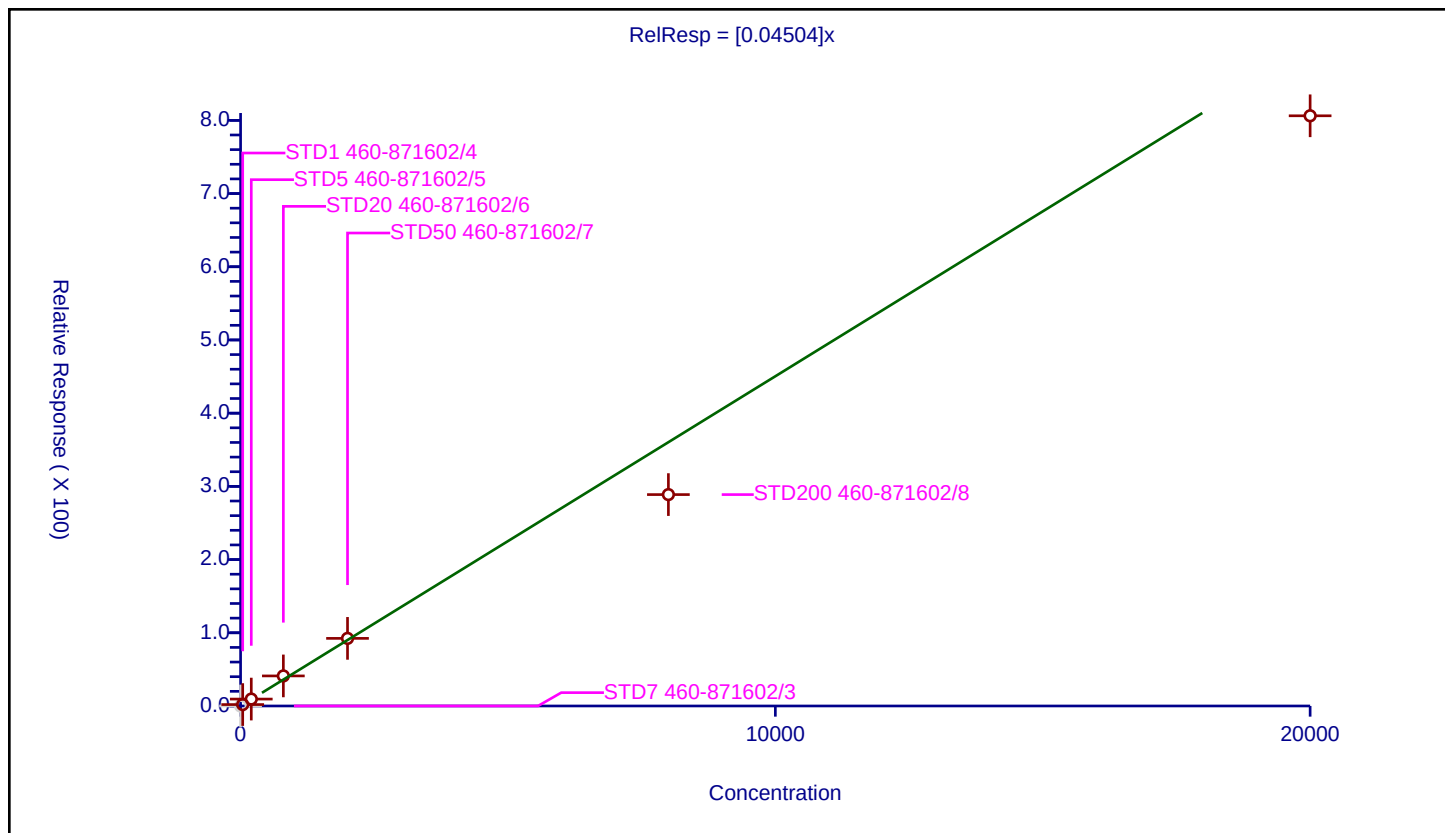
Curve Coefficients

Intercept: 0
Slope: 0.04504

Error Coefficients

Standard Error: 79300
Relative Standard Error: 12.7
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	1000.0	177682.0	NaN	N
2	STD1 460-871602/4	40.0	1.963287	1000.0	174707.0	0.049082	Y
3	STD5 460-871602/5	200.0	9.447235	1000.0	176983.0	0.047236	Y
4	STD20 460-871602/6	800.0	41.077197	1000.0	181731.0	0.051346	Y
5	STD50 460-871602/7	2000.0	92.347447	1000.0	201619.0	0.046174	Y
6	STD200 460-871602/8	8000.0	288.774133	1000.0	204492.0	0.036097	Y
7	STD500 460-871602/9	20000.0	806.213825	1000.0	207151.0	0.040311	Y



Calibration

/ Ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

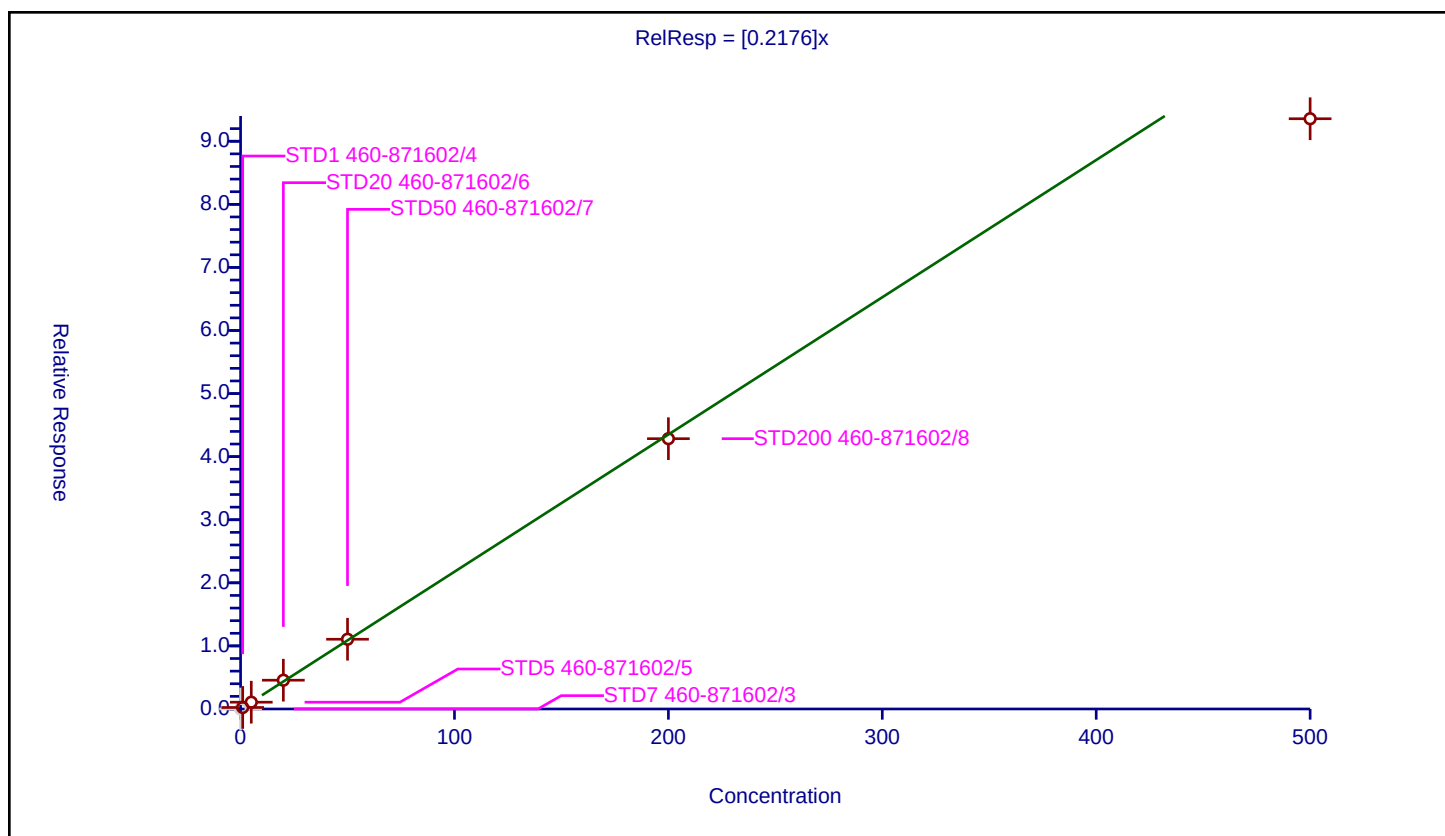
Curve Coefficients

Intercept: 0
Slope: 0.2176

Error Coefficients

Standard Error: 453000
Relative Standard Error: 8.0
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.239141	50.0	439281.0	0.239141	Y
3	STD5 460-871602/5	5.0	1.077837	50.0	453872.0	0.215567	Y
4	STD20 460-871602/6	20.0	4.563224	50.0	460431.0	0.228161	Y
5	STD50 460-871602/7	50.0	11.05576	50.0	468525.0	0.221115	Y
6	STD200 460-871602/8	200.0	42.849177	50.0	471631.0	0.214246	Y
7	STD500 460-871602/9	500.0	93.567781	50.0	493259.0	0.187136	Y



Calibration

/ 2-Methyl-1,3-butadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

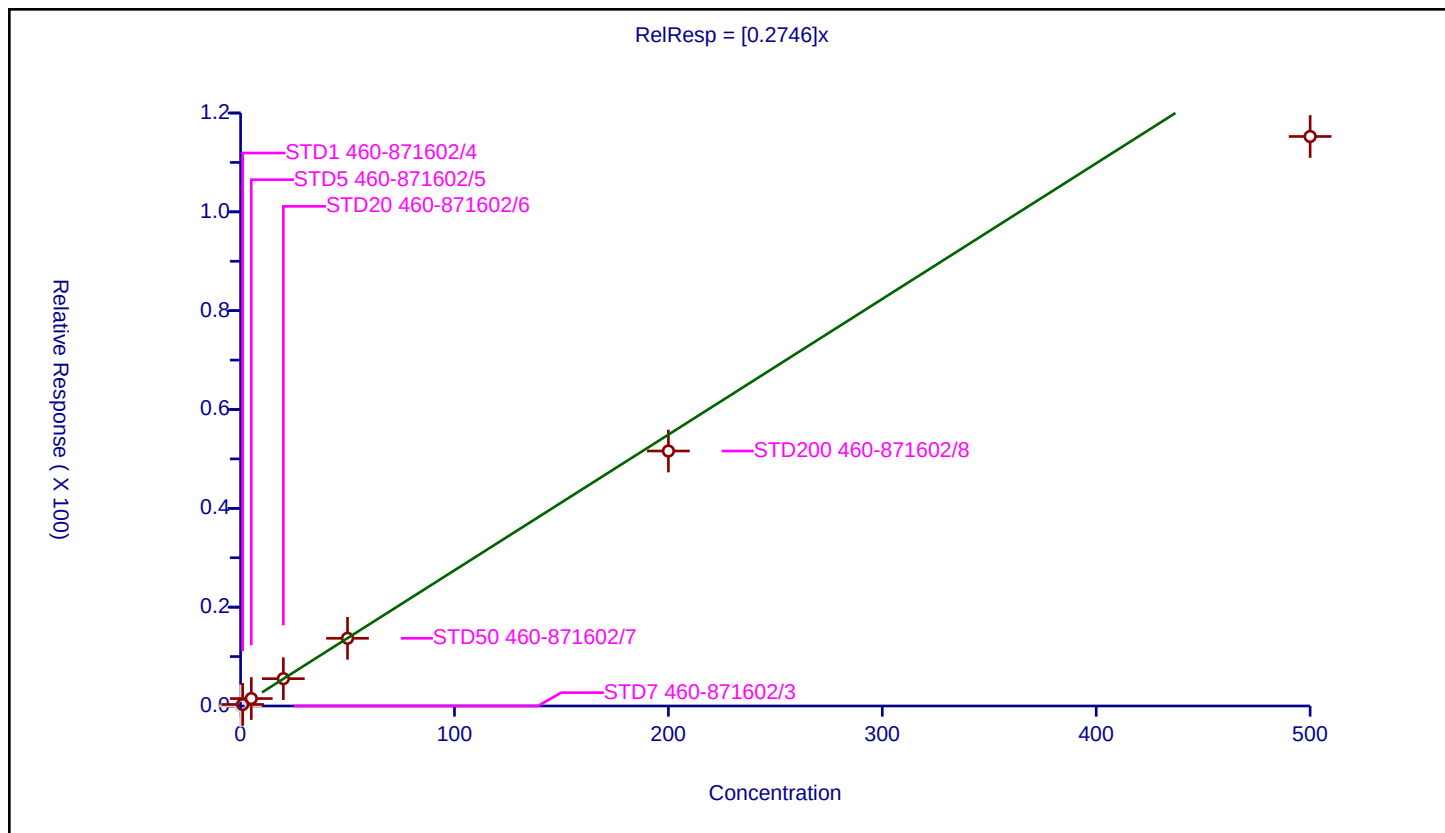
Curve Coefficients

Intercept: 0
 Slope: 0.2746

Error Coefficients

Standard Error: 557000
 Relative Standard Error: 10.3
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.308003	50.0	439281.0	0.308003	Y
3	STD5 460-871602/5	5.0	1.502075	50.0	453872.0	0.300415	Y
4	STD20 460-871602/6	20.0	5.529059	50.0	460431.0	0.276453	Y
5	STD50 460-871602/7	50.0	13.700336	50.0	468525.0	0.274007	Y
6	STD200 460-871602/8	200.0	51.60157	50.0	471631.0	0.258008	Y
7	STD500 460-871602/9	500.0	115.251521	50.0	493259.0	0.230503	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

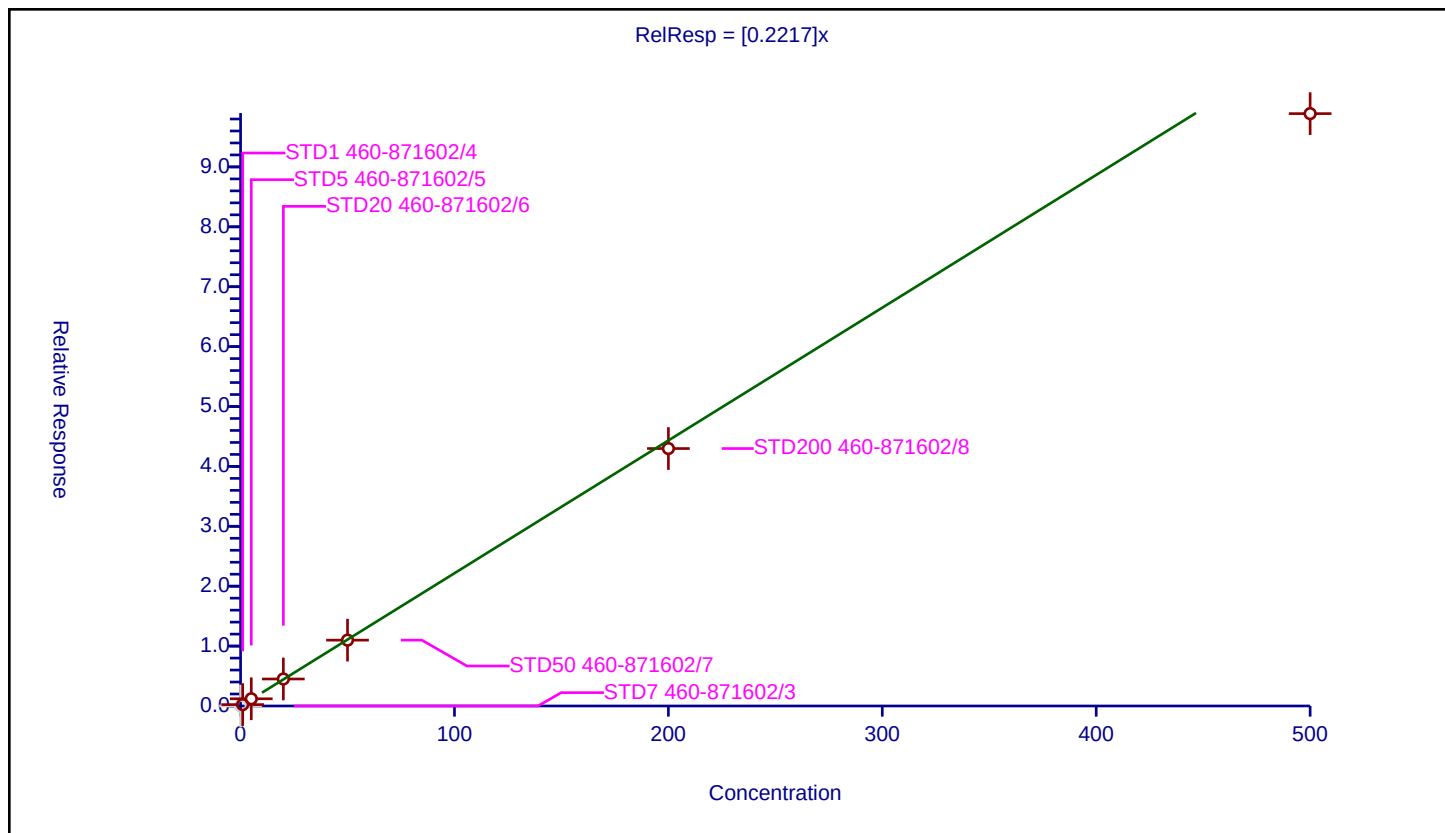
Curve Coefficients

Intercept: 0
 Slope: 0.2217

Error Coefficients

Standard Error: 475000
 Relative Standard Error: 6.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.231287	50.0	439281.0	0.231287	Y
3	STD5 460-871602/5	5.0	1.203423	50.0	453872.0	0.240685	Y
4	STD20 460-871602/6	20.0	4.507624	50.0	460431.0	0.225381	Y
5	STD50 460-871602/7	50.0	10.993544	50.0	468525.0	0.219871	Y
6	STD200 460-871602/8	200.0	42.984982	50.0	471631.0	0.214925	Y
7	STD500 460-871602/9	500.0	98.899564	50.0	493259.0	0.197799	Y



Calibration

/ Acrolein

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

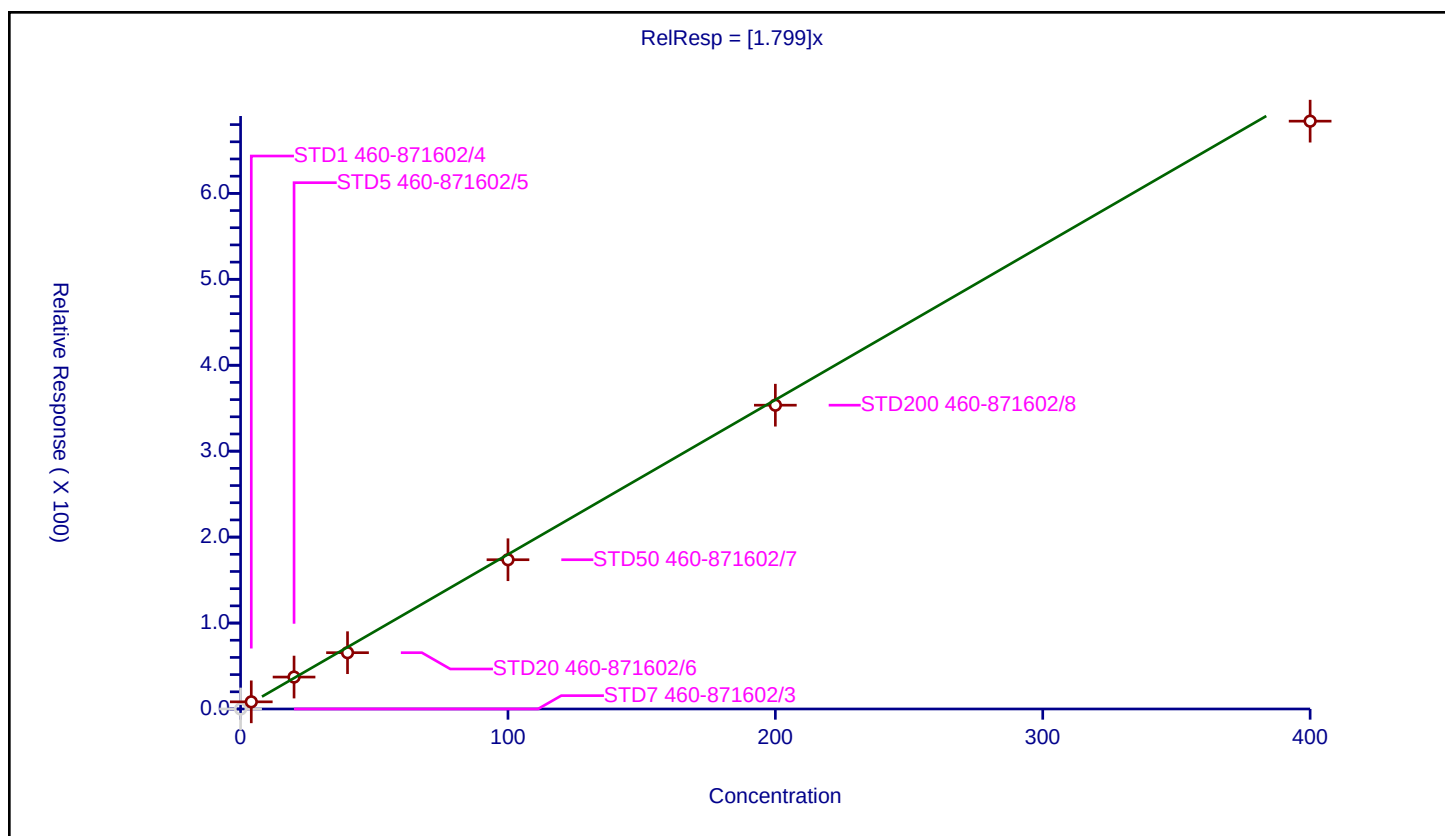
Curve Coefficients

Intercept: 0
Slope: 1.799

Error Coefficients

Standard Error: 72700
Relative Standard Error: 8.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	1000.0	177682.0	NaN	N
2	STD1 460-871602/4	4.0	8.32823	1000.0	174707.0	2.082057	Y
3	STD5 460-871602/5	20.0	37.150461	1000.0	176983.0	1.857523	Y
4	STD20 460-871602/6	40.0	65.519917	1000.0	181731.0	1.637998	Y
5	STD50 460-871602/7	100.0	173.698907	1000.0	201619.0	1.736989	Y
6	STD200 460-871602/8	200.0	353.515052	1000.0	204492.0	1.767575	Y
7	STD500 460-871602/9	400.0	684.013111	1000.0	207151.0	1.710033	Y



Calibration

/ 1,1-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

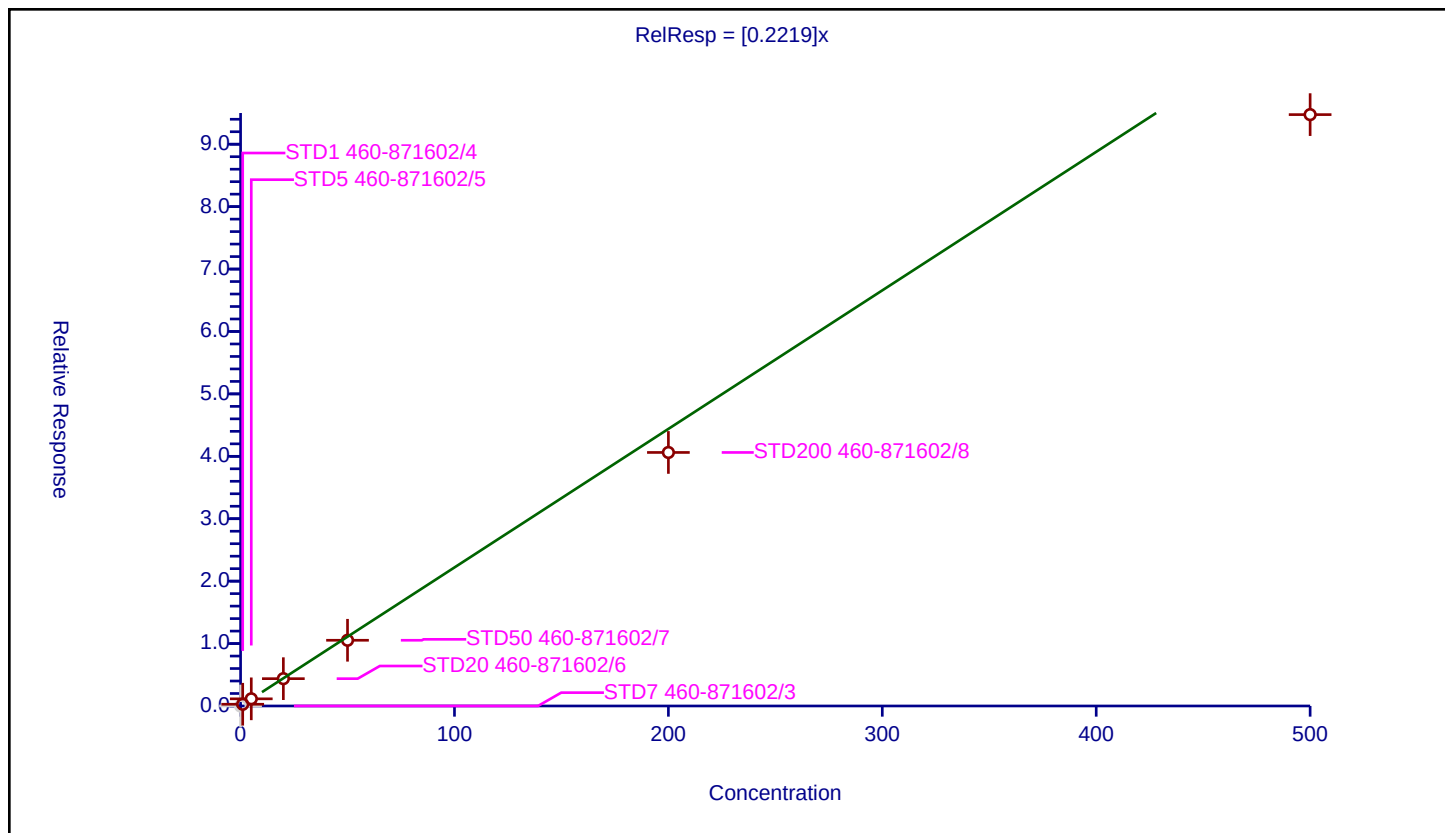
Curve Coefficients

Intercept: 0
Slope: 0.2219

Error Coefficients

Standard Error: 454000
Relative Standard Error: 14.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.280231	50.0	439281.0	0.280231	Y
3	STD5 460-871602/5	5.0	1.147791	50.0	453872.0	0.229558	Y
4	STD20 460-871602/6	20.0	4.375574	50.0	460431.0	0.218779	Y
5	STD50 460-871602/7	50.0	10.526866	50.0	468525.0	0.210537	Y
6	STD200 460-871602/8	200.0	40.616287	50.0	471631.0	0.203081	Y
7	STD500 460-871602/9	500.0	94.743025	50.0	493259.0	0.189486	Y



Calibration

/ Acetone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

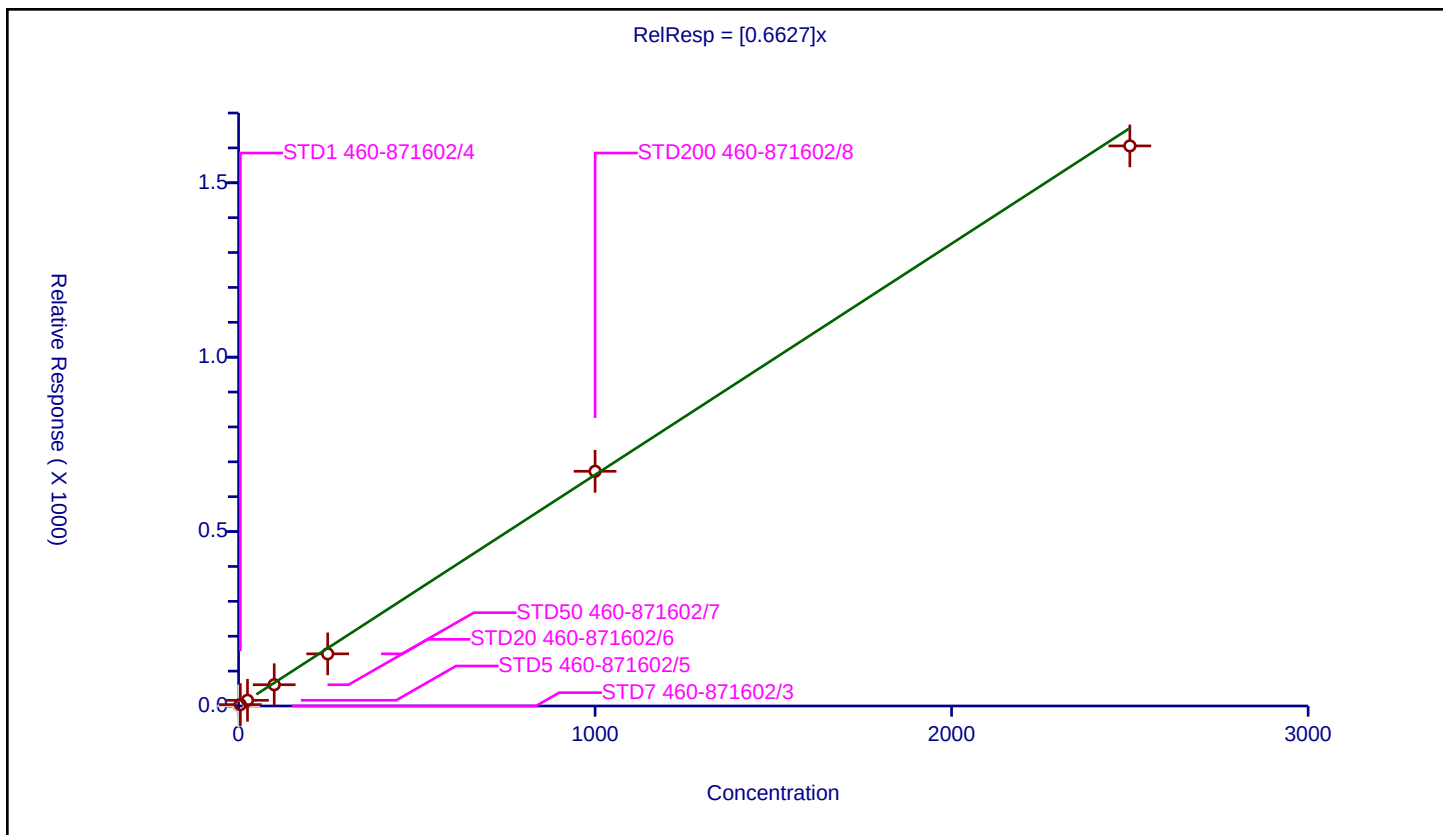
Curve Coefficients

Intercept: 0
Slope: 0.6627

Error Coefficients

Standard Error: 971000
Relative Standard Error: 10.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	250.0	260052.0	NaN	N
2	STD1 460-871602/4	5.0	3.995451	250.0	261610.0	0.79909	Y
3	STD5 460-871602/5	25.0	16.356185	250.0	270494.0	0.654247	Y
4	STD20 460-871602/6	100.0	60.986147	250.0	285282.0	0.609861	Y
5	STD50 460-871602/7	250.0	149.468865	250.0	308867.0	0.597875	Y
6	STD200 460-871602/8	1000.0	672.875197	250.0	314688.0	0.672875	Y
7	STD500 460-871602/9	2500.0	1605.665746	250.0	309968.0	0.642266	Y



Calibration

/ Iodomethane

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

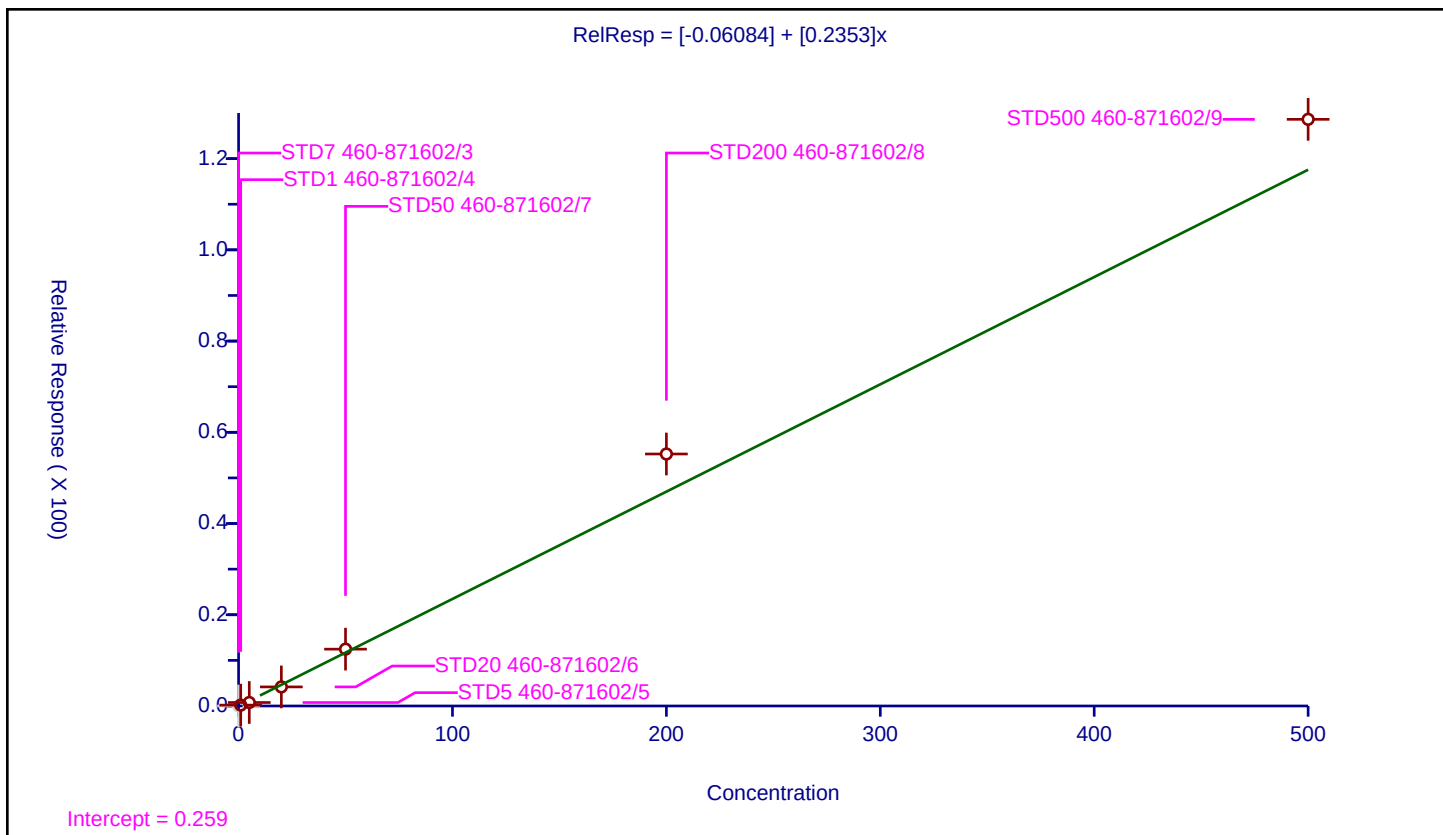
Curve Coefficients

Intercept: -0.06084
 Slope: 0.2353

Error Coefficients

Standard Error: 689000
 Relative Standard Error: 19.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.189059	50.0	439281.0	0.189059	Y
3	STD5 460-871602/5	5.0	0.764202	50.0	453872.0	0.15284	Y
4	STD20 460-871602/6	20.0	4.1851	50.0	460431.0	0.209255	Y
5	STD50 460-871602/7	50.0	12.461448	50.0	468525.0	0.249229	Y
6	STD200 460-871602/8	200.0	55.244036	50.0	471631.0	0.27622	Y
7	STD500 460-871602/9	500.0	128.614075	50.0	493259.0	0.257228	Y



Calibration

/ Isopropyl alcohol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

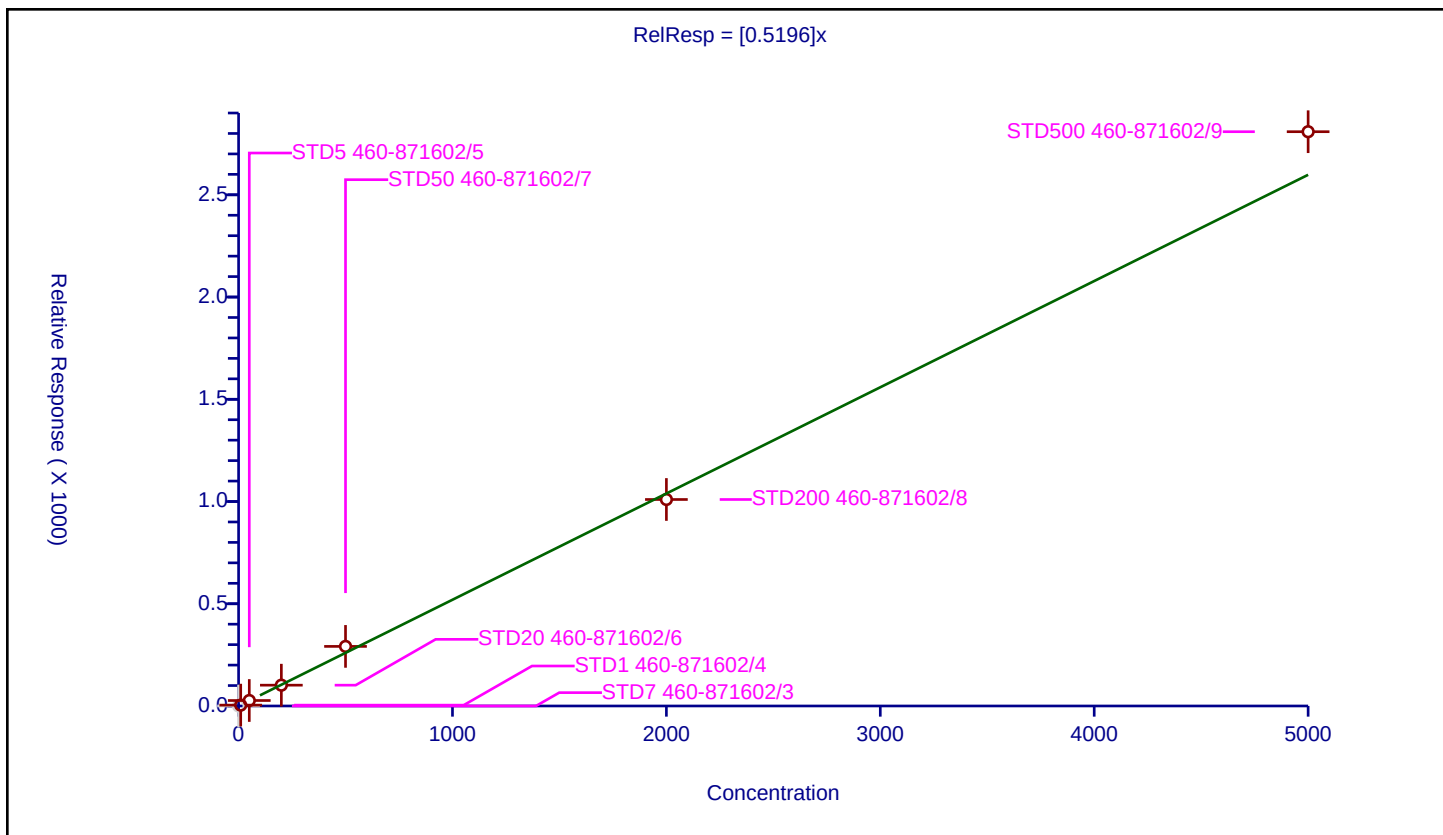
Curve Coefficients

Intercept: 0
 Slope: 0.5196

Error Coefficients

Standard Error: 276000
 Relative Standard Error: 10.9
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	1000.0	177682.0	NaN	N
2	STD1 460-871602/4	10.0	4.218492	1000.0	174707.0	0.421849	Y
3	STD5 460-871602/5	50.0	26.855687	1000.0	176983.0	0.537114	Y
4	STD20 460-871602/6	200.0	101.765797	1000.0	181731.0	0.508829	Y
5	STD50 460-871602/7	500.0	291.460626	1000.0	201619.0	0.582921	Y
6	STD200 460-871602/8	2000.0	1009.834126	1000.0	204492.0	0.504917	Y
7	STD500 460-871602/9	5000.0	2808.579249	1000.0	207151.0	0.561716	Y



Calibration

/ Carbon disulfide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

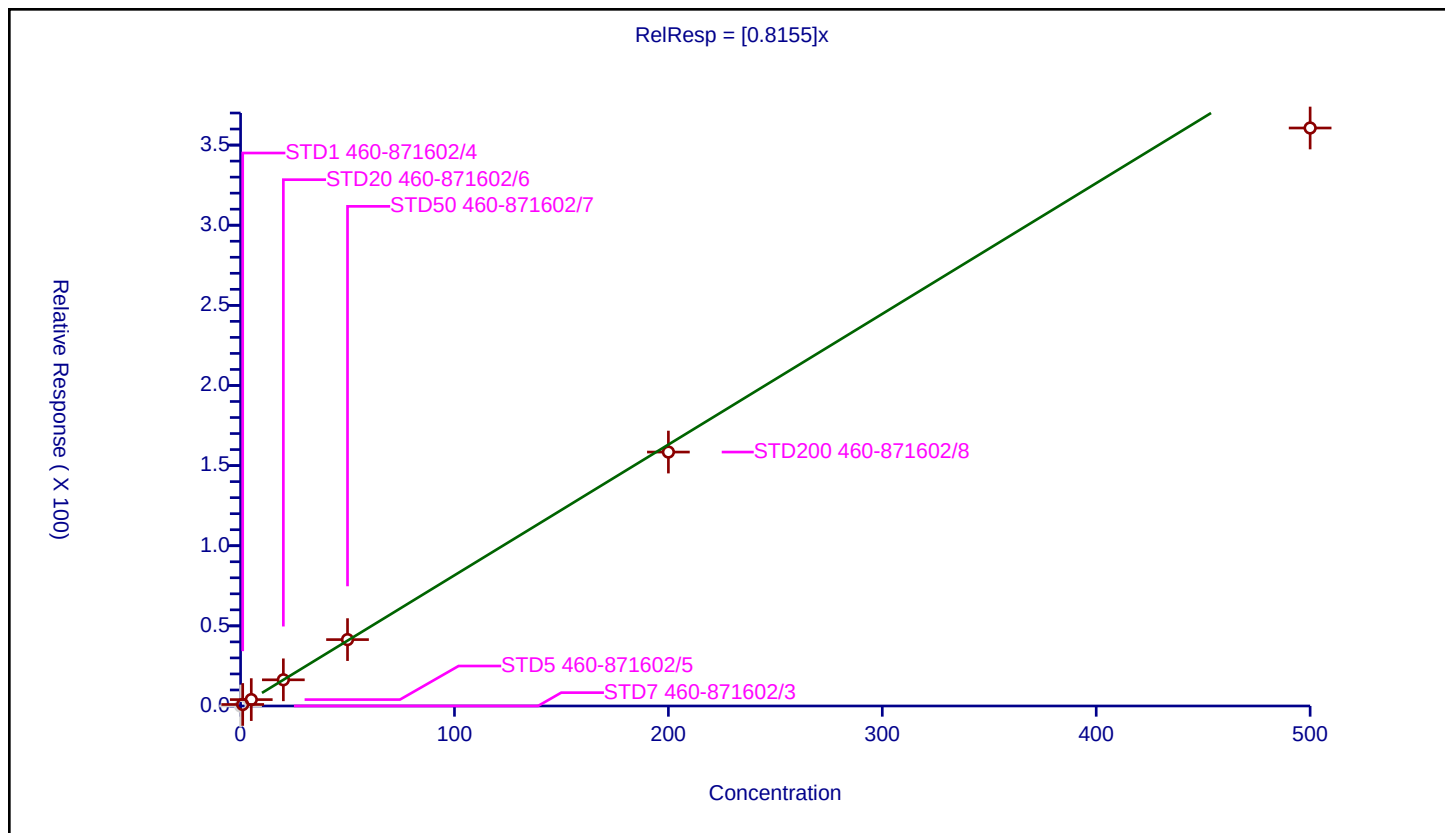
Curve Coefficients

Intercept: 0
 Slope: 0.8155

Error Coefficients

Standard Error: 1740000
 Relative Standard Error: 8.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.937213	50.0	439281.0	0.937213	Y
3	STD5 460-871602/5	5.0	3.985485	50.0	453872.0	0.797097	Y
4	STD20 460-871602/6	20.0	16.334587	50.0	460431.0	0.816729	Y
5	STD50 460-871602/7	50.0	41.431407	50.0	468525.0	0.828628	Y
6	STD200 460-871602/8	200.0	158.452901	50.0	471631.0	0.792265	Y
7	STD500 460-871602/9	500.0	360.656369	50.0	493259.0	0.721313	Y



Calibration

/ 3-Chloro-1-propene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

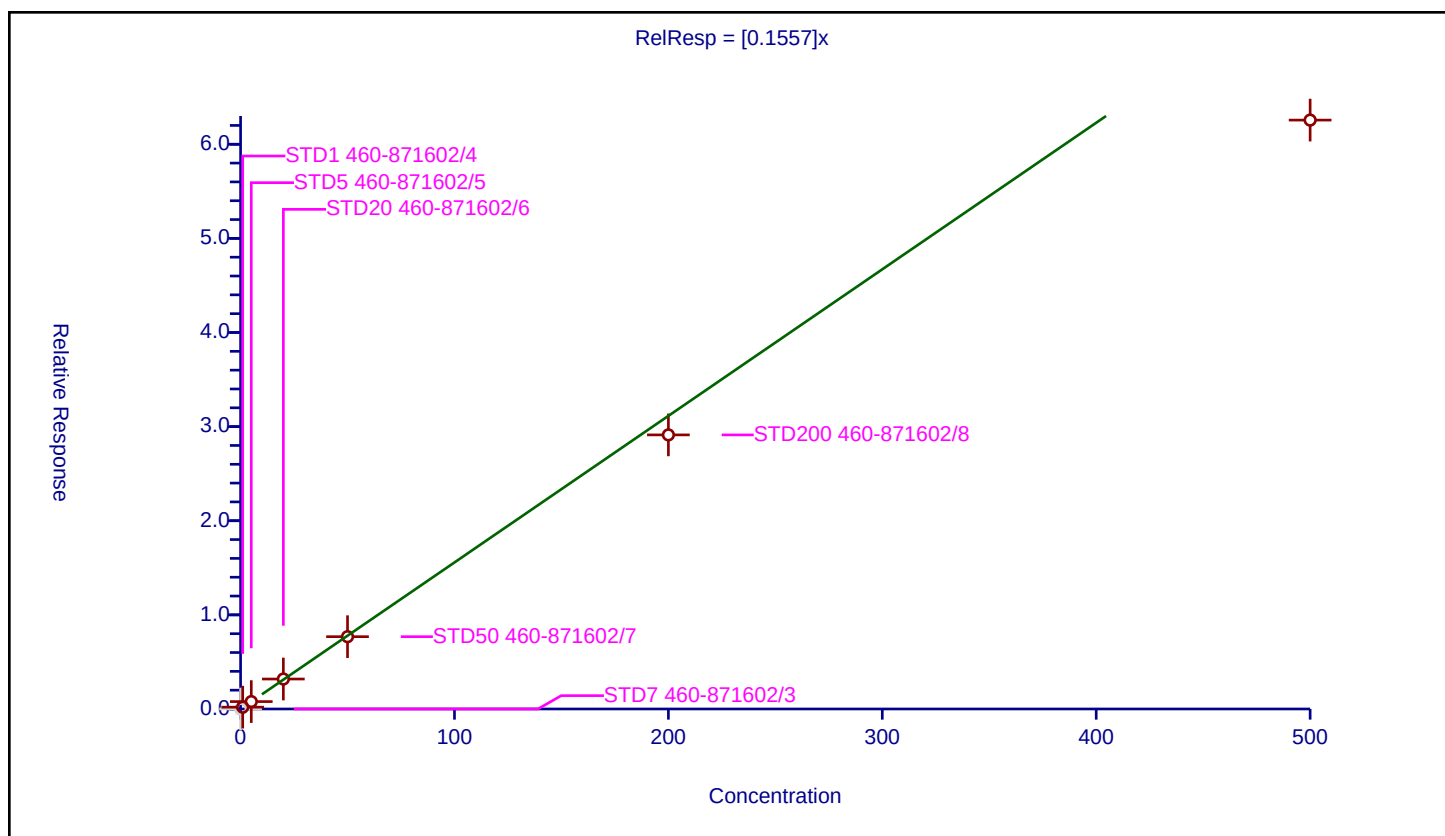
Curve Coefficients

Intercept: 0
Slope: 0.1557

Error Coefficients

Standard Error: 304000
Relative Standard Error: 14.3
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.193612	50.0	439281.0	0.193612	Y
3	STD5 460-871602/5	5.0	0.785243	50.0	453872.0	0.157049	Y
4	STD20 460-871602/6	20.0	3.183973	50.0	460431.0	0.159199	Y
5	STD50 460-871602/7	50.0	7.681981	50.0	468525.0	0.15364	Y
6	STD200 460-871602/8	200.0	29.121707	50.0	471631.0	0.145609	Y
7	STD500 460-871602/9	500.0	62.566623	50.0	493259.0	0.125133	Y



Calibration

/ Methyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

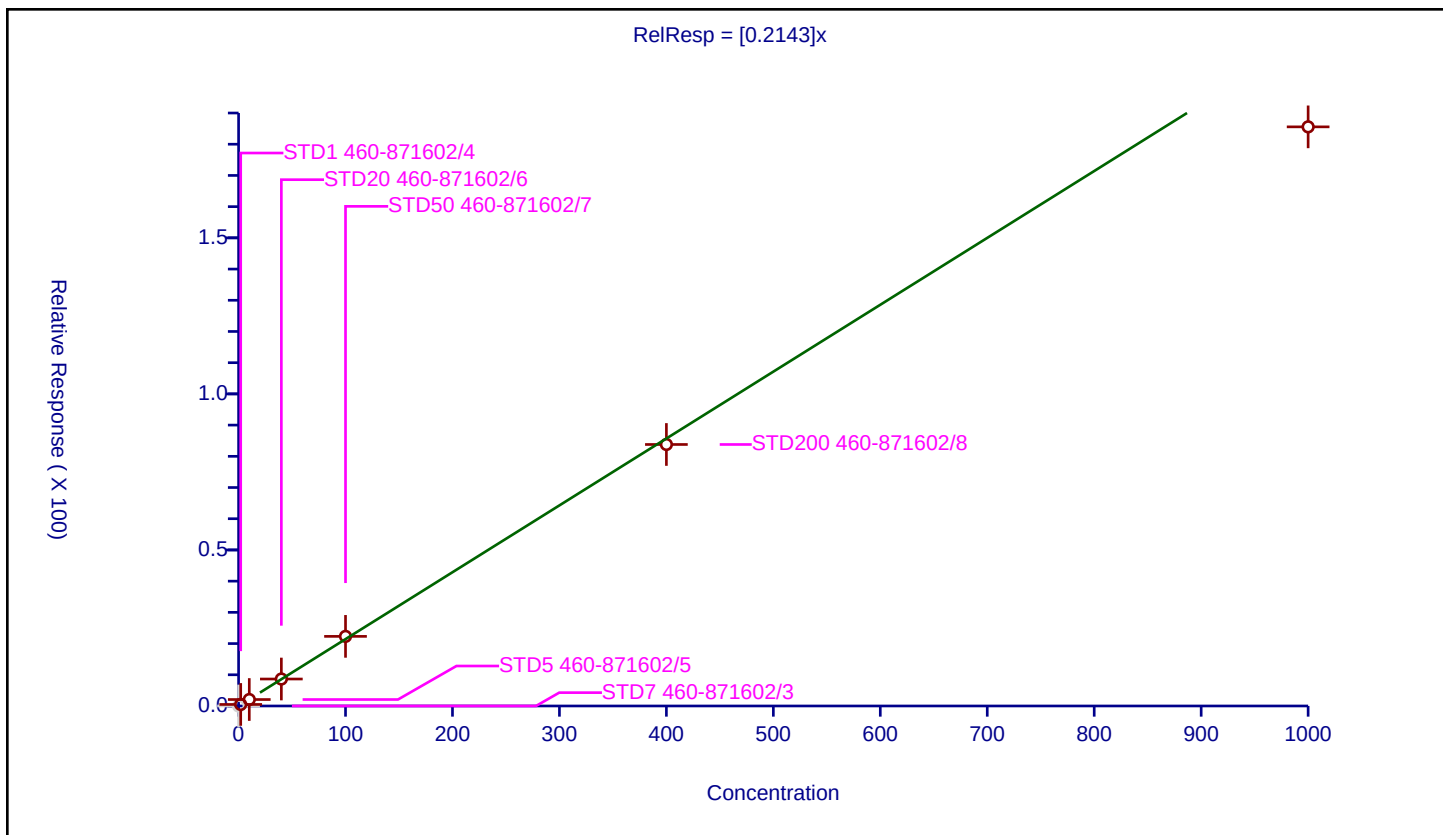
Curve Coefficients

Intercept: 0
 Slope: 0.2143

Error Coefficients

Standard Error: 897000
 Relative Standard Error: 9.1
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	2.0	0.488639	50.0	439281.0	0.24432	Y
3	STD5 460-871602/5	10.0	2.071289	50.0	453872.0	0.207129	Y
4	STD20 460-871602/6	40.0	8.639514	50.0	460431.0	0.215988	Y
5	STD50 460-871602/7	100.0	22.309589	50.0	468525.0	0.223096	Y
6	STD200 460-871602/8	400.0	83.791884	50.0	471631.0	0.20948	Y
7	STD500 460-871602/9	1000.0	185.561541	50.0	493259.0	0.185562	Y



Calibration

/ Acetonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

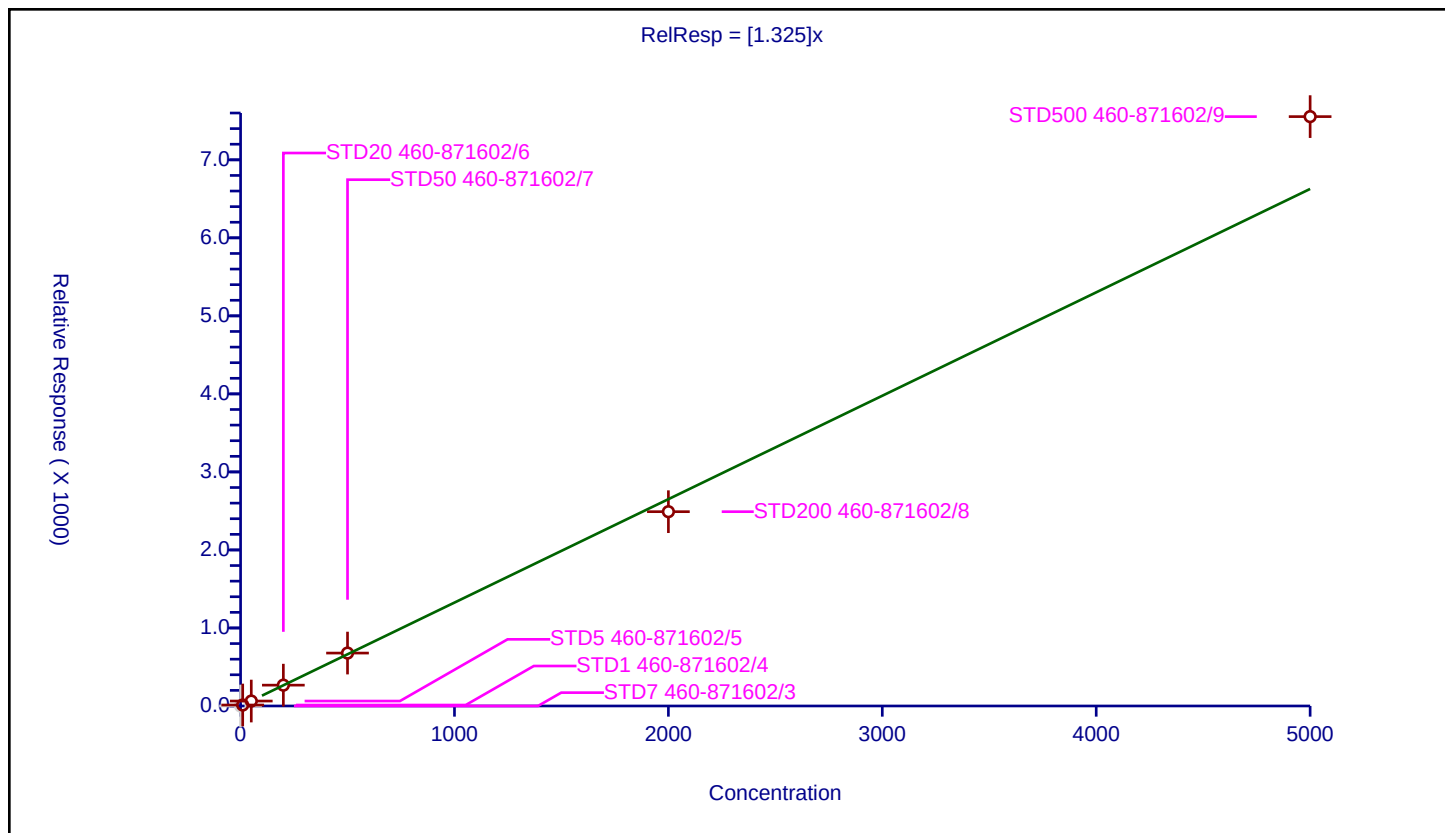
Curve Coefficients

Intercept: 0
 Slope: 1.325

Error Coefficients

Standard Error: 736000
 Relative Standard Error: 7.8
 Correlation Coefficient: 0.995
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	1000.0	177682.0	NaN	N
2	STD1 460-871602/4	10.0	12.357833	1000.0	174707.0	1.235783	Y
3	STD5 460-871602/5	50.0	63.435471	1000.0	176983.0	1.268709	Y
4	STD20 460-871602/6	200.0	267.026539	1000.0	181731.0	1.335133	Y
5	STD50 460-871602/7	500.0	678.378526	1000.0	201619.0	1.356757	Y
6	STD200 460-871602/8	2000.0	2490.513076	1000.0	204492.0	1.245257	Y
7	STD500 460-871602/9	5000.0	7553.938914	1000.0	207151.0	1.510788	Y



Calibration

/ Methylene Chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

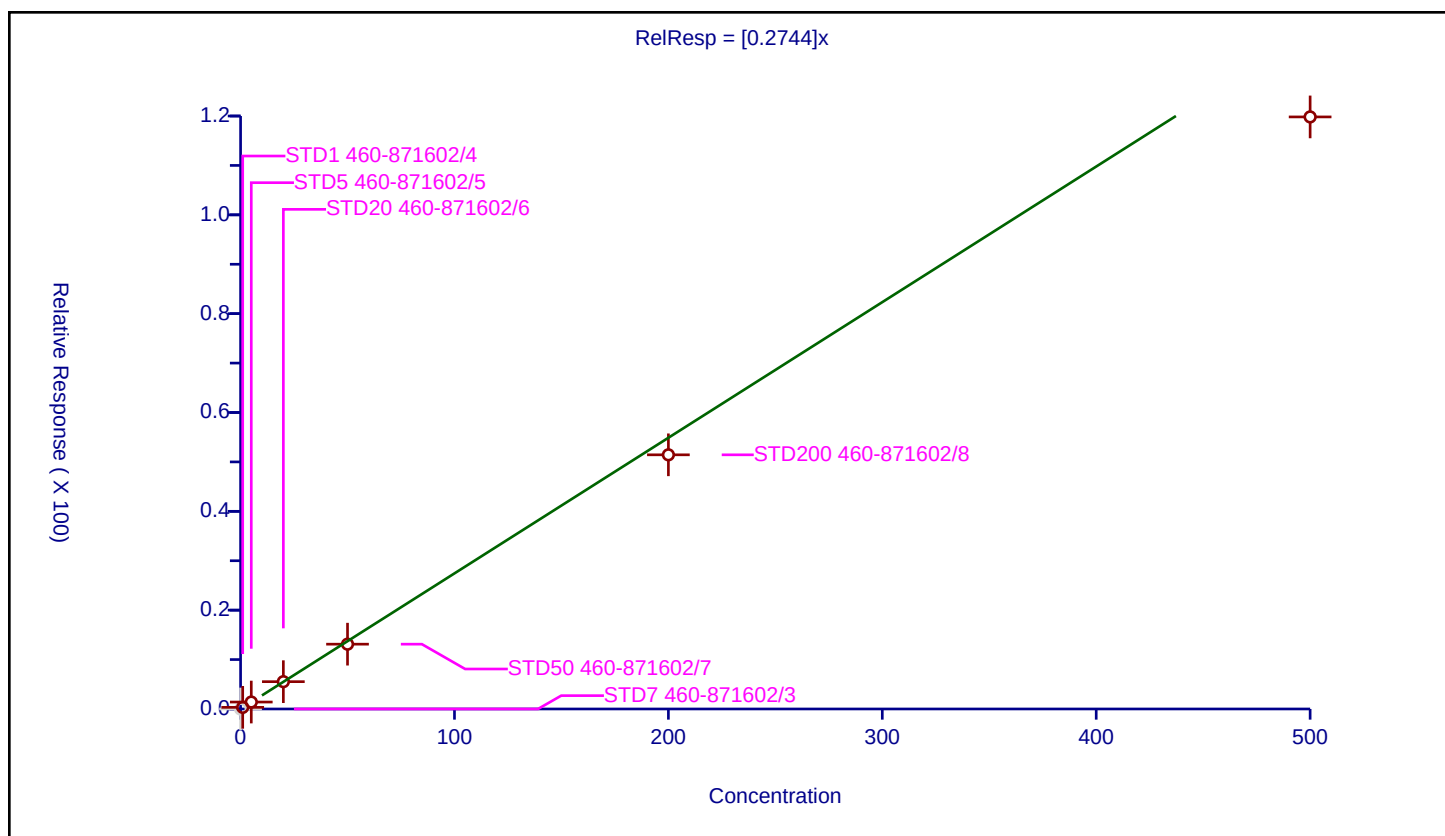
Curve Coefficients

Intercept: 0
 Slope: 0.2744

Error Coefficients

Standard Error: 574000
 Relative Standard Error: 11.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.329743	50.0	439281.0	0.329743	Y
3	STD5 460-871602/5	5.0	1.406894	50.0	453872.0	0.281379	Y
4	STD20 460-871602/6	20.0	5.526995	50.0	460431.0	0.27635	Y
5	STD50 460-871602/7	50.0	13.116909	50.0	468525.0	0.262338	Y
6	STD200 460-871602/8	200.0	51.434384	50.0	471631.0	0.257172	Y
7	STD500 460-871602/9	500.0	119.819	50.0	493259.0	0.239638	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

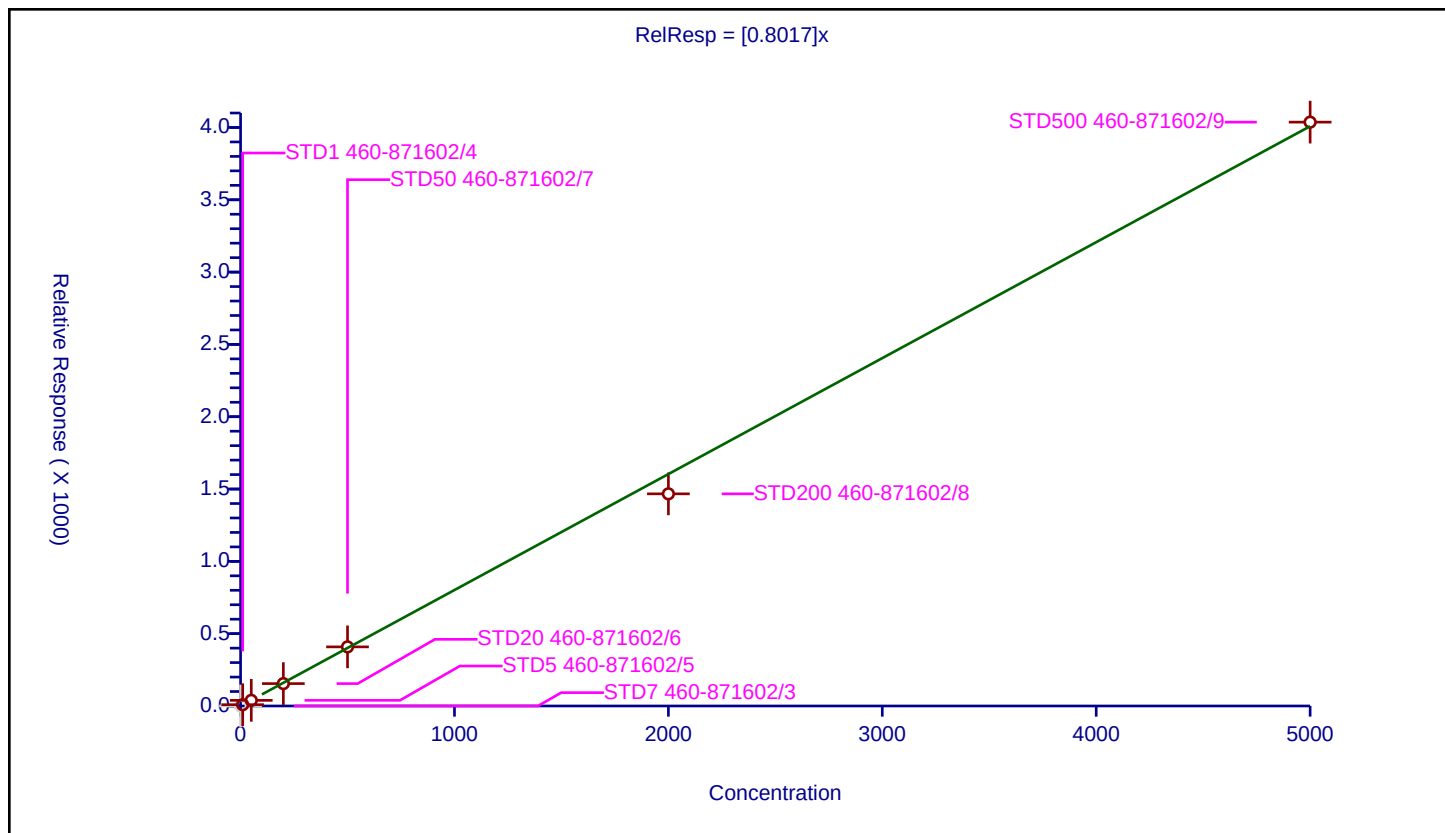
Curve Coefficients

Intercept: 0
 Slope: 0.8017

Error Coefficients

Standard Error: 397000
 Relative Standard Error: 7.0
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	1000.0	177682.0	NaN	N
2	STD1 460-871602/4	10.0	8.997922	1000.0	174707.0	0.899792	Y
3	STD5 460-871602/5	50.0	38.918992	1000.0	176983.0	0.77838	Y
4	STD20 460-871602/6	200.0	154.783719	1000.0	181731.0	0.773919	Y
5	STD50 460-871602/7	500.0	408.71644	1000.0	201619.0	0.817433	Y
6	STD200 460-871602/8	2000.0	1466.854449	1000.0	204492.0	0.733427	Y
7	STD500 460-871602/9	5000.0	4036.847517	1000.0	207151.0	0.80737	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

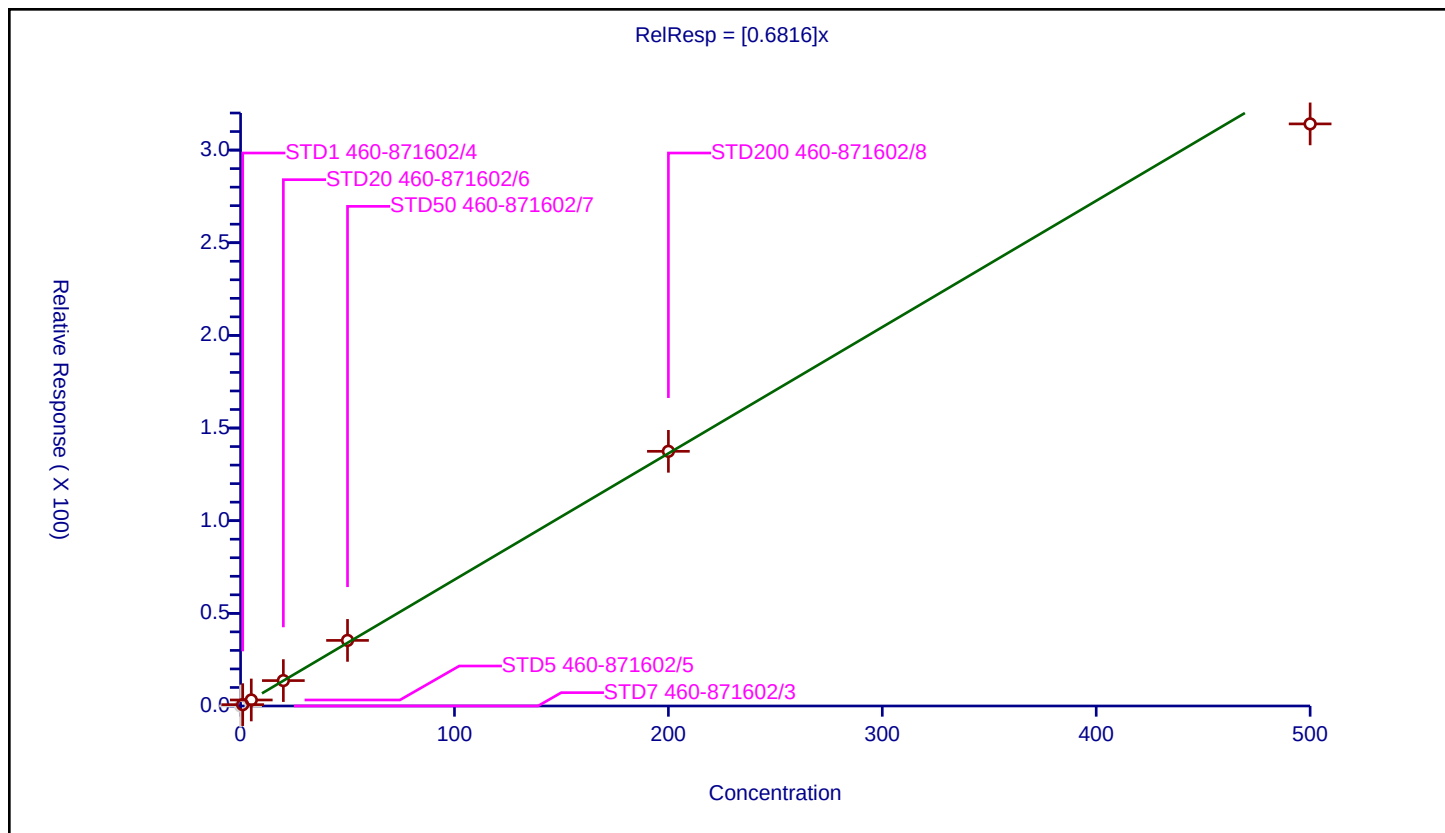
Curve Coefficients

Intercept: 0
 Slope: 0.6816

Error Coefficients

Standard Error: 1510000
 Relative Standard Error: 5.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.732561	50.0	439281.0	0.732561	Y
3	STD5 460-871602/5	5.0	3.240782	50.0	453872.0	0.648156	Y
4	STD20 460-871602/6	20.0	13.705962	50.0	460431.0	0.685298	Y
5	STD50 460-871602/7	50.0	35.395763	50.0	468525.0	0.707915	Y
6	STD200 460-871602/8	200.0	137.439545	50.0	471631.0	0.687198	Y
7	STD500 460-871602/9	500.0	314.1225	50.0	493259.0	0.628245	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

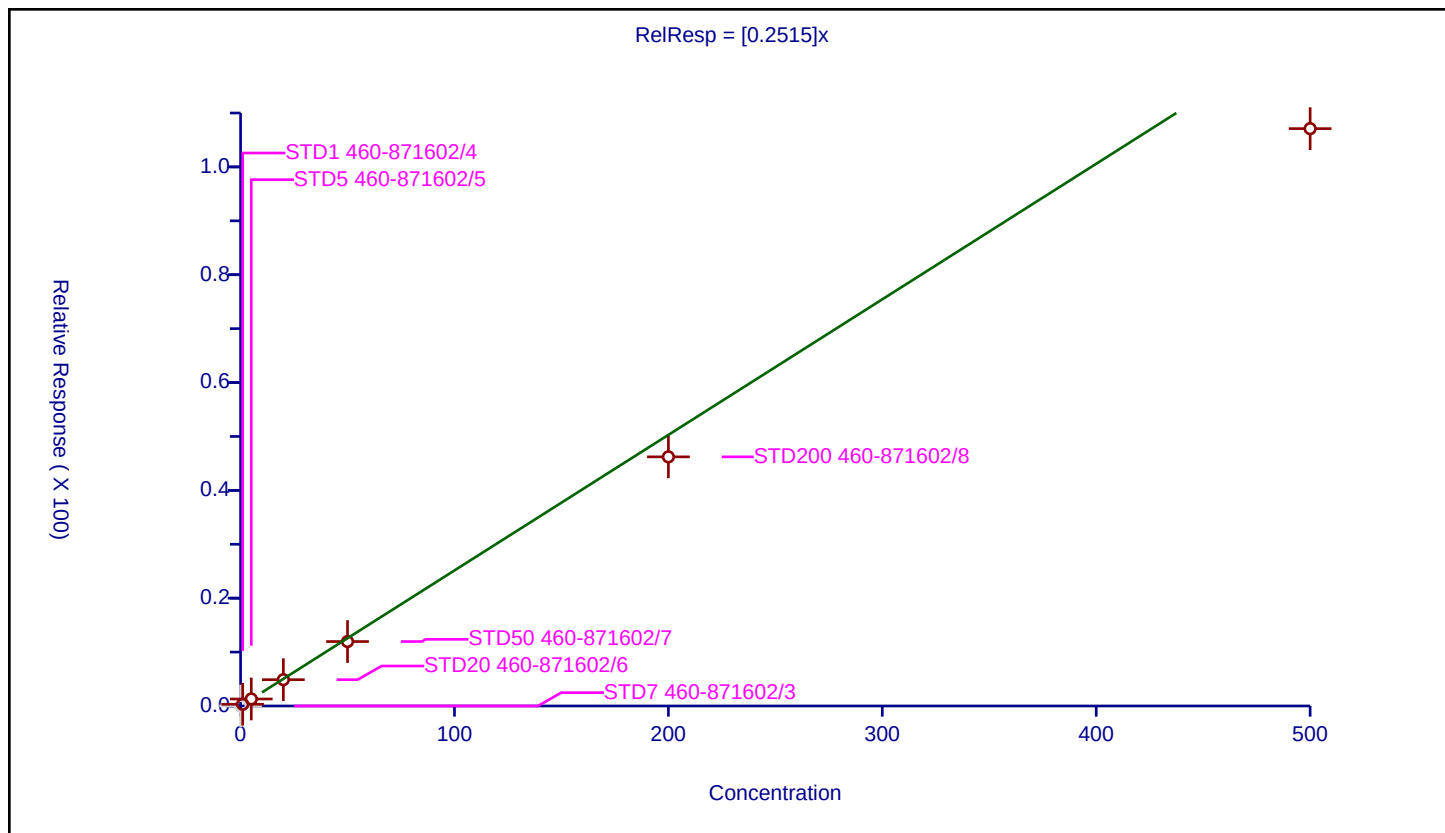
Curve Coefficients

Intercept: 0
Slope: 0.2515

Error Coefficients

Standard Error: 514000
Relative Standard Error: 14.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.320638	50.0	439281.0	0.320638	Y
3	STD5 460-871602/5	5.0	1.298714	50.0	453872.0	0.259743	Y
4	STD20 460-871602/6	20.0	4.880536	50.0	460431.0	0.244027	Y
5	STD50 460-871602/7	50.0	11.951657	50.0	468525.0	0.239033	Y
6	STD200 460-871602/8	200.0	46.214837	50.0	471631.0	0.231074	Y
7	STD500 460-871602/9	500.0	107.100225	50.0	493259.0	0.2142	Y



Calibration

/ Acrylonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

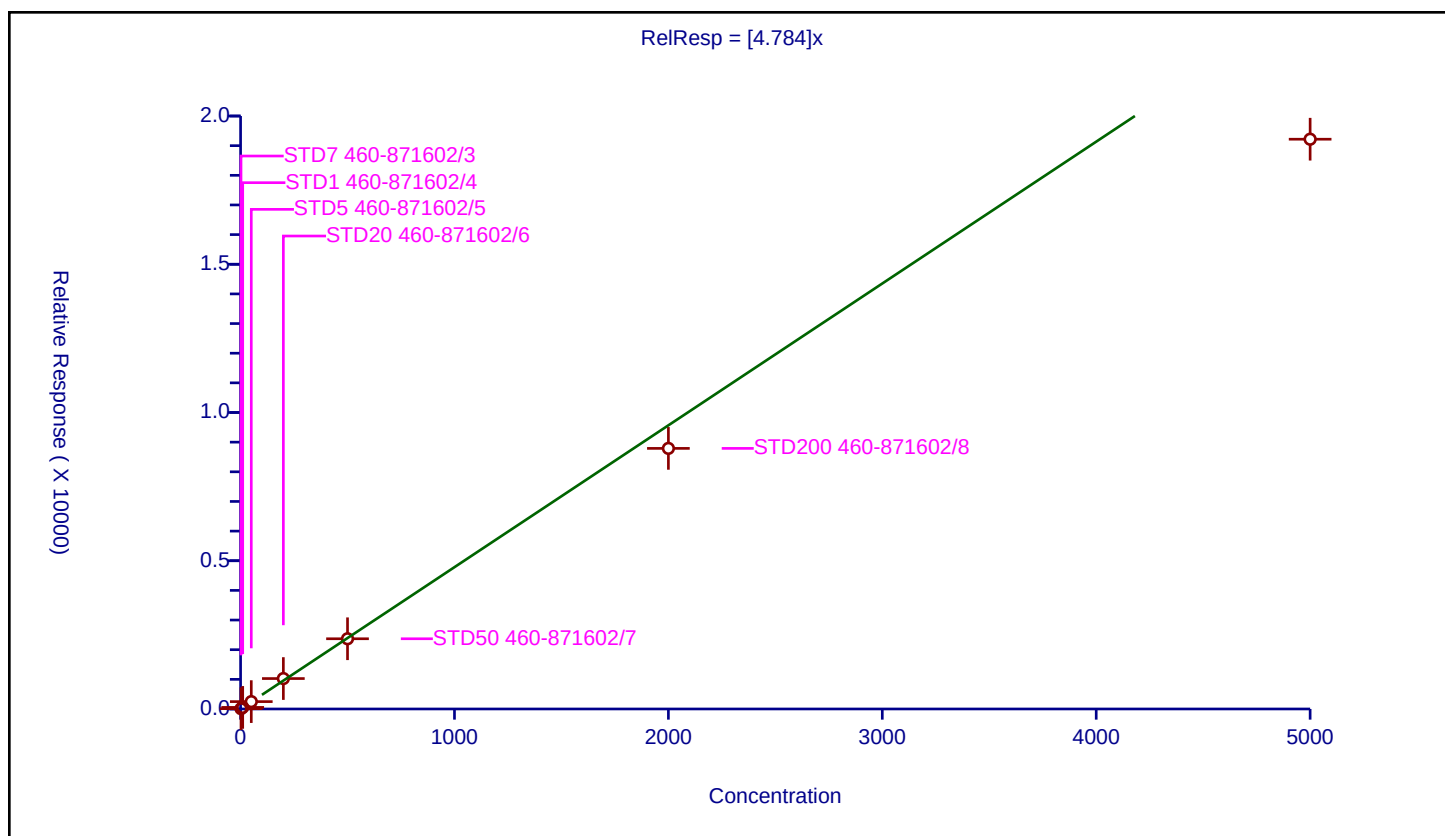
Curve Coefficients

Intercept: 0
Slope: 4.784

Error Coefficients

Standard Error: 1780000
Relative Standard Error: 10.7
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	2.0	10.164226	1000.0	177682.0	5.082113	Y
2	STD1 460-871602/4	10.0	53.163296	1000.0	174707.0	5.31633	Y
3	STD5 460-871602/5	50.0	249.006967	1000.0	176983.0	4.980139	Y
4	STD20 460-871602/6	200.0	1026.379649	1000.0	181731.0	5.131898	Y
5	STD50 460-871602/7	500.0	2368.288703	1000.0	201619.0	4.736577	Y
6	STD200 460-871602/8	2000.0	8789.375623	1000.0	204492.0	4.394688	Y
7	STD500 460-871602/9	5000.0	19217.725234	1000.0	207151.0	3.843545	Y



Calibration

/ Hexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

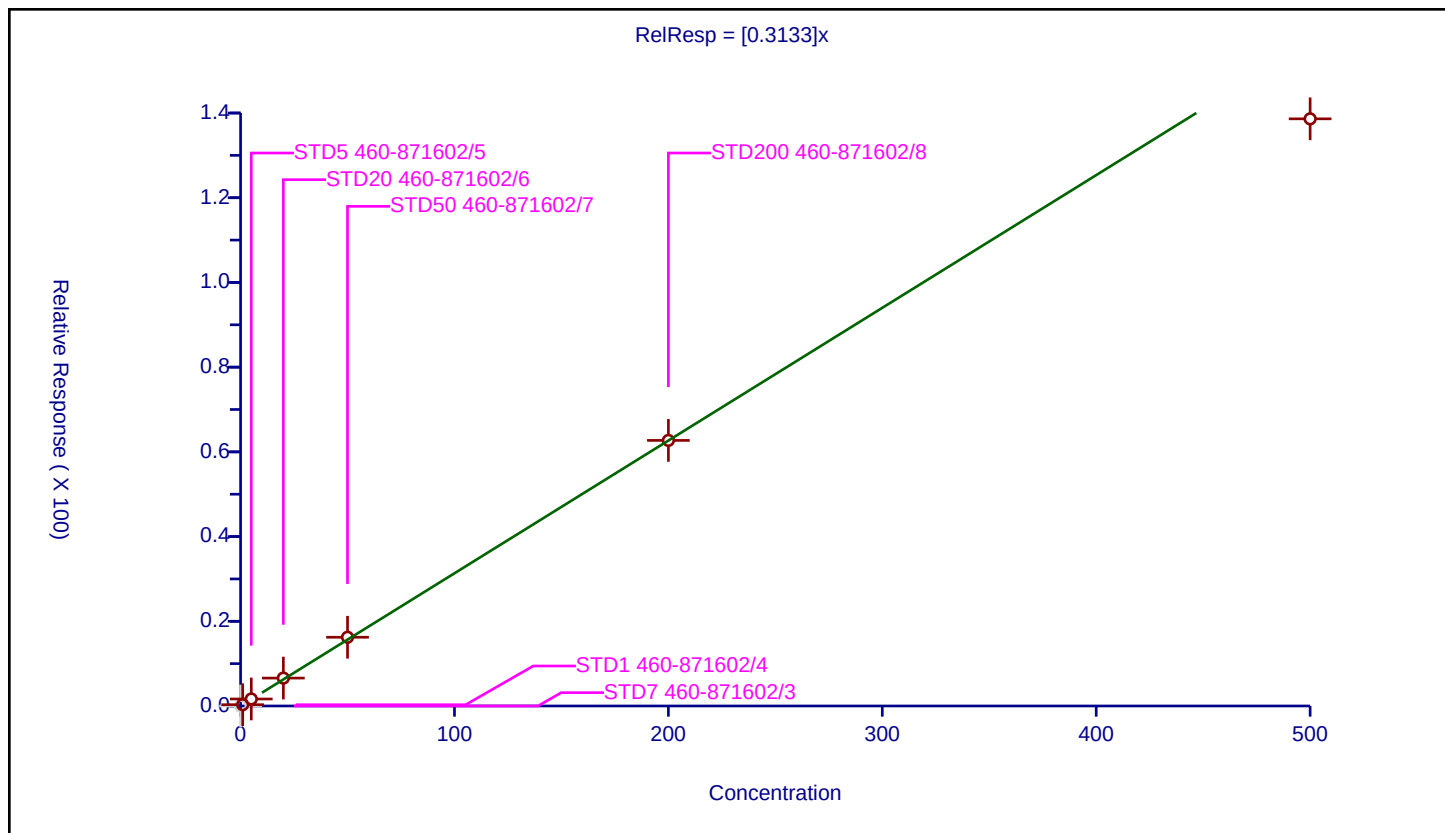
Curve Coefficients

Intercept: 0
Slope: 0.3133

Error Coefficients

Standard Error: 670000
Relative Standard Error: 6.4
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.305158	50.0	439281.0	0.305158	Y
3	STD5 460-871602/5	5.0	1.650796	50.0	453872.0	0.330159	Y
4	STD20 460-871602/6	20.0	6.588066	50.0	460431.0	0.329403	Y
5	STD50 460-871602/7	50.0	16.227843	50.0	468525.0	0.324557	Y
6	STD200 460-871602/8	200.0	62.70559	50.0	471631.0	0.313528	Y
7	STD500 460-871602/9	500.0	138.625347	50.0	493259.0	0.277251	Y



Calibration

/ Isopropyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

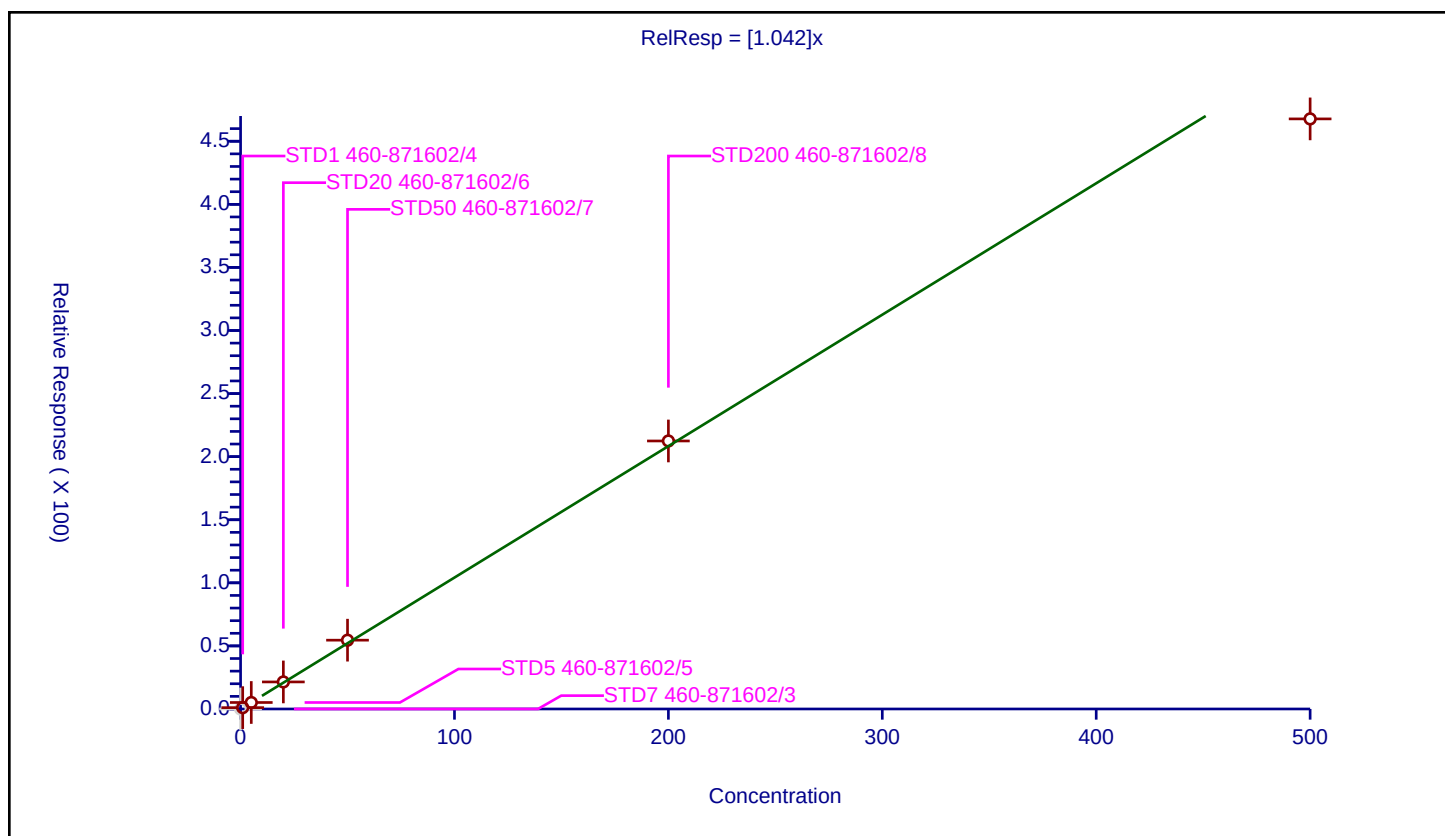
Curve Coefficients

Intercept: 0
 Slope: 1.042

Error Coefficients

Standard Error: 2260000
 Relative Standard Error: 5.4
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	1.06219	50.0	439281.0	1.06219	Y
3	STD5 460-871602/5	5.0	5.137131	50.0	453872.0	1.027426	Y
4	STD20 460-871602/6	20.0	21.446645	50.0	460431.0	1.072332	Y
5	STD50 460-871602/7	50.0	54.531775	50.0	468525.0	1.090636	Y
6	STD200 460-871602/8	200.0	212.432283	50.0	471631.0	1.062161	Y
7	STD500 460-871602/9	500.0	467.719291	50.0	493259.0	0.935439	Y



Calibration

/ 1,1-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

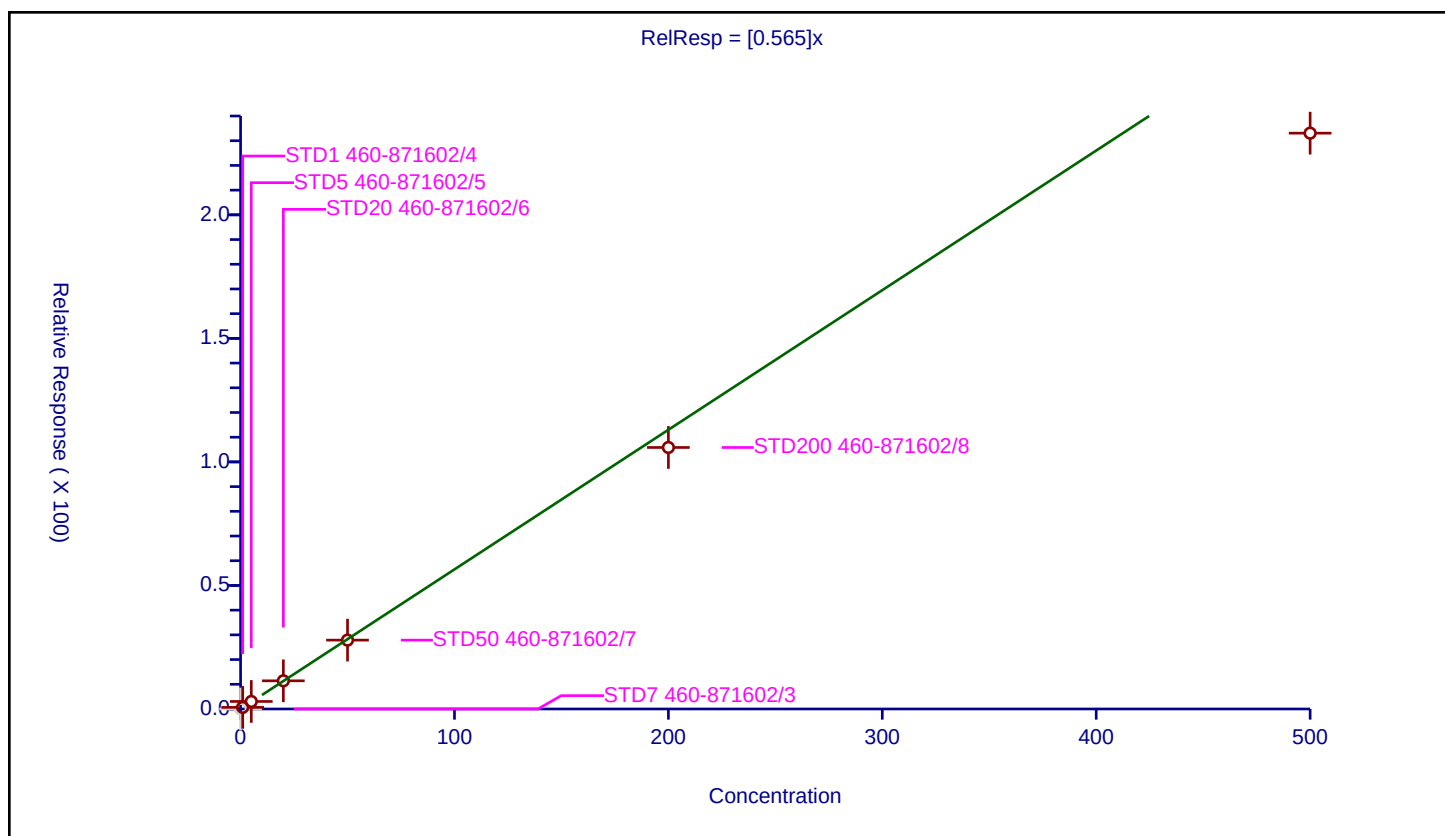
Curve Coefficients

Intercept: 0
Slope: 0.565

Error Coefficients

Standard Error: 1130000
Relative Standard Error: 11.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.658007	50.0	439281.0	0.658007	Y
3	STD5 460-871602/5	5.0	3.047225	50.0	453872.0	0.609445	Y
4	STD20 460-871602/6	20.0	11.398885	50.0	460431.0	0.569944	Y
5	STD50 460-871602/7	50.0	27.874927	50.0	468525.0	0.557499	Y
6	STD200 460-871602/8	200.0	105.840795	50.0	471631.0	0.529204	Y
7	STD500 460-871602/9	500.0	233.059711	50.0	493259.0	0.466119	Y



Calibration

/ Vinyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

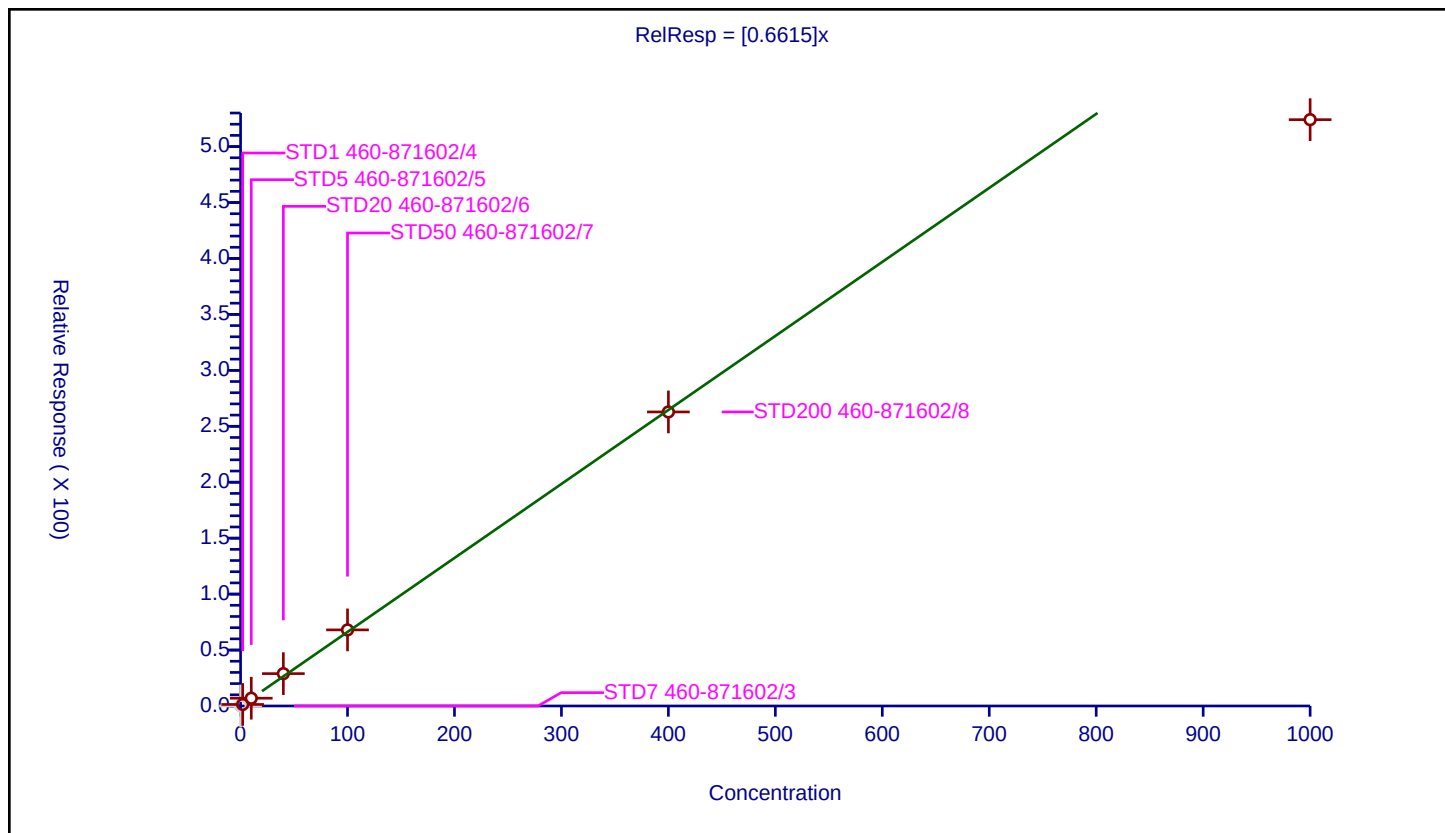
Curve Coefficients

Intercept: 0
 Slope: 0.6615

Error Coefficients

Standard Error: 2580000
 Relative Standard Error: 10.7
 Correlation Coefficient: 0.994
 Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	2.0	1.381121	50.0	439281.0	0.69056	Y
3	STD5 460-871602/5	10.0	6.939512	50.0	453872.0	0.693951	Y
4	STD20 460-871602/6	40.0	28.931154	50.0	460431.0	0.723279	Y
5	STD50 460-871602/7	100.0	68.006083	50.0	468525.0	0.680061	Y
6	STD200 460-871602/8	400.0	262.82157	50.0	471631.0	0.657054	Y
7	STD500 460-871602/9	1000.0	524.059673	50.0	493259.0	0.52406	Y



Calibration

/ 2,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

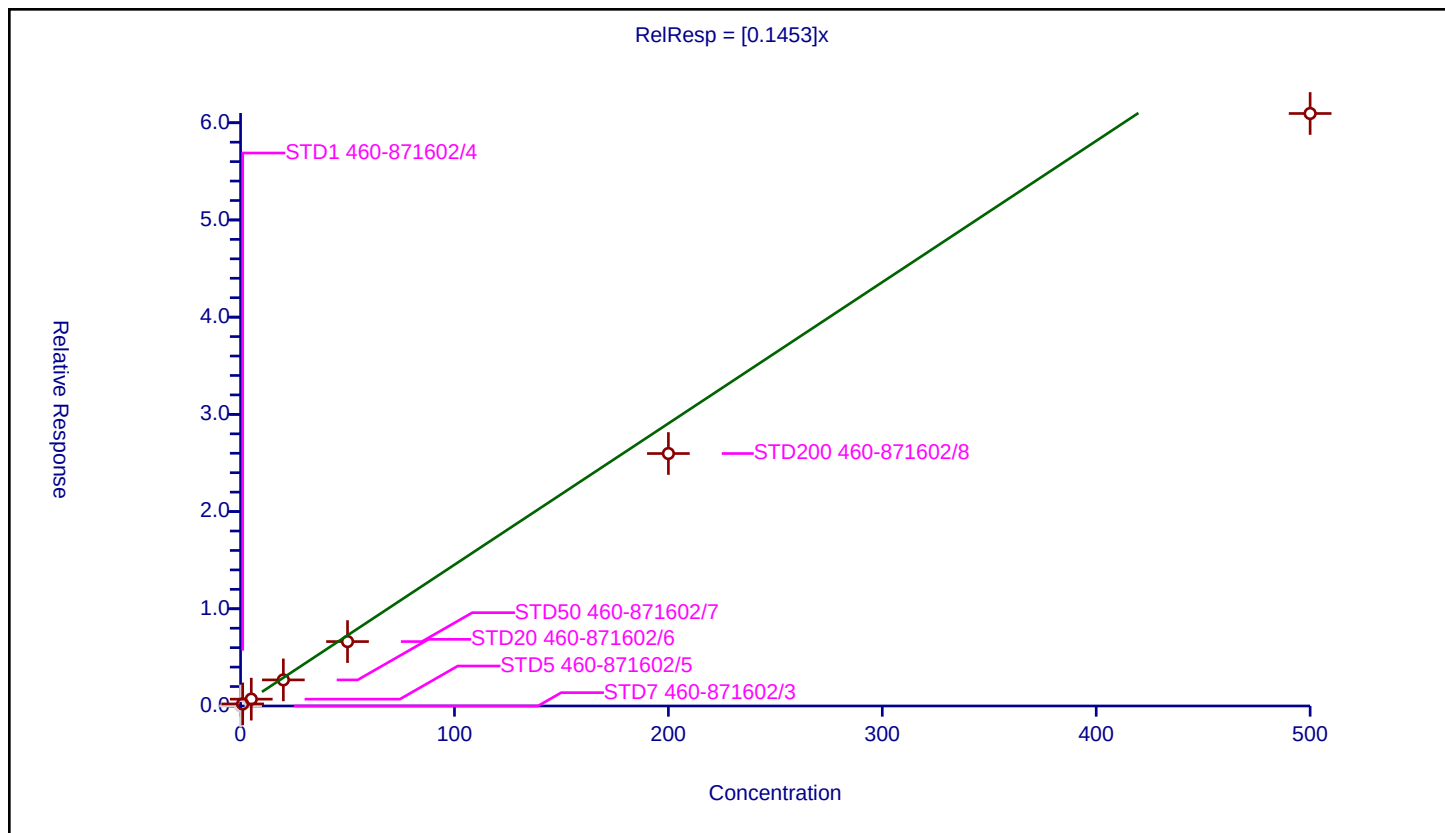
Curve Coefficients

Intercept: 0
 Slope: 0.1453

Error Coefficients

Standard Error: 292000
 Relative Standard Error: 23.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.922

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.212734	50.0	439281.0	0.212734	Y
3	STD5 460-871602/5	5.0	0.704163	50.0	453872.0	0.140833	Y
4	STD20 460-871602/6	20.0	2.682921	50.0	460431.0	0.134146	Y
5	STD50 460-871602/7	50.0	6.625153	50.0	468525.0	0.132503	Y
6	STD200 460-871602/8	200.0	25.971363	50.0	471631.0	0.129857	Y
7	STD500 460-871602/9	500.0	60.950839	50.0	493259.0	0.121902	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

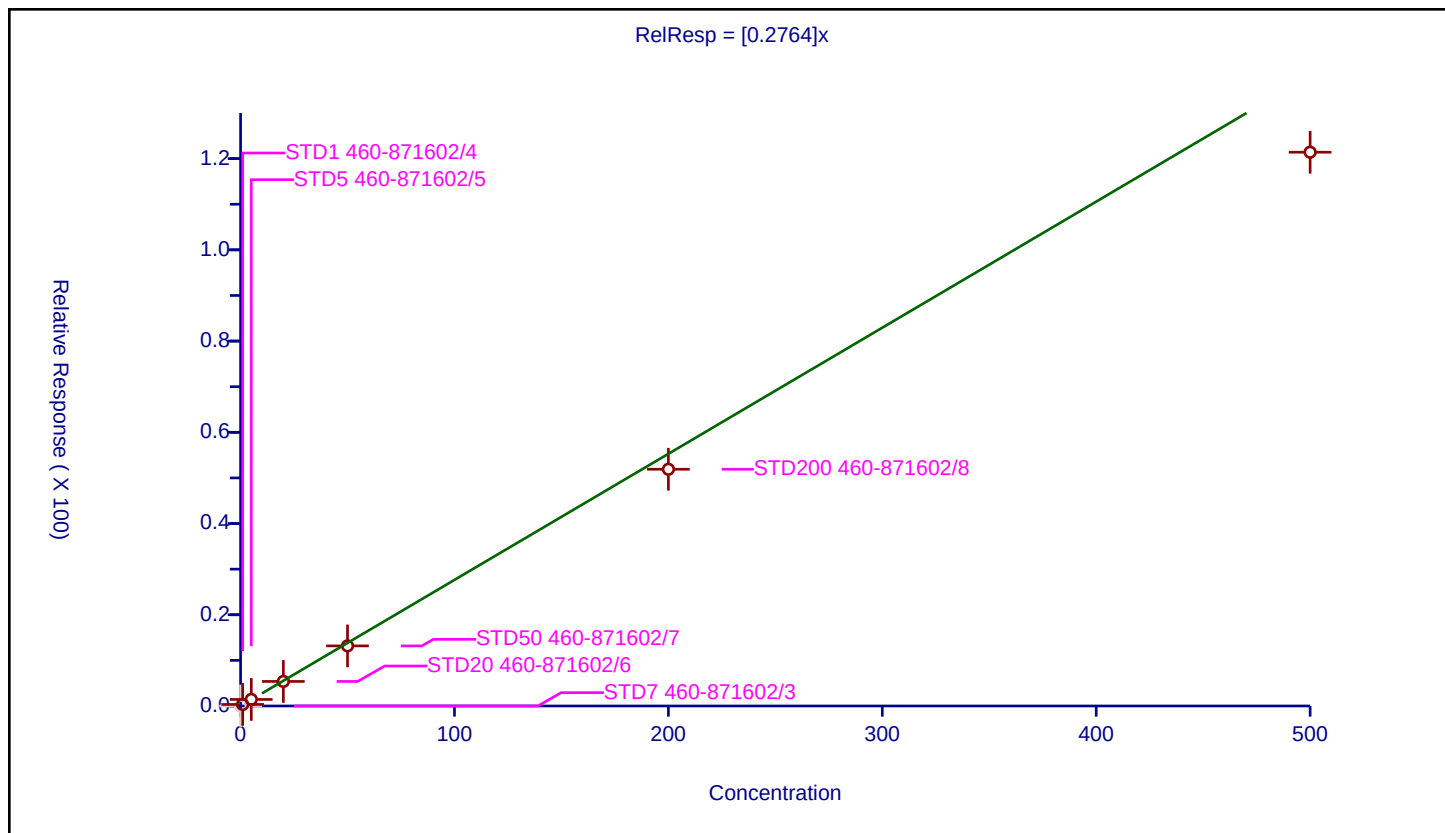
Curve Coefficients

Intercept: 0
Slope: 0.2764

Error Coefficients

Standard Error: 582000
Relative Standard Error: 11.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.337256	50.0	439281.0	0.337256	Y
3	STD5 460-871602/5	5.0	1.432562	50.0	453872.0	0.286512	Y
4	STD20 460-871602/6	20.0	5.380611	50.0	460431.0	0.269031	Y
5	STD50 460-871602/7	50.0	13.175498	50.0	468525.0	0.26351	Y
6	STD200 460-871602/8	200.0	51.90032	50.0	471631.0	0.259502	Y
7	STD500 460-871602/9	500.0	121.408327	50.0	493259.0	0.242817	Y



Calibration

/ 2-Butanone (MEK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

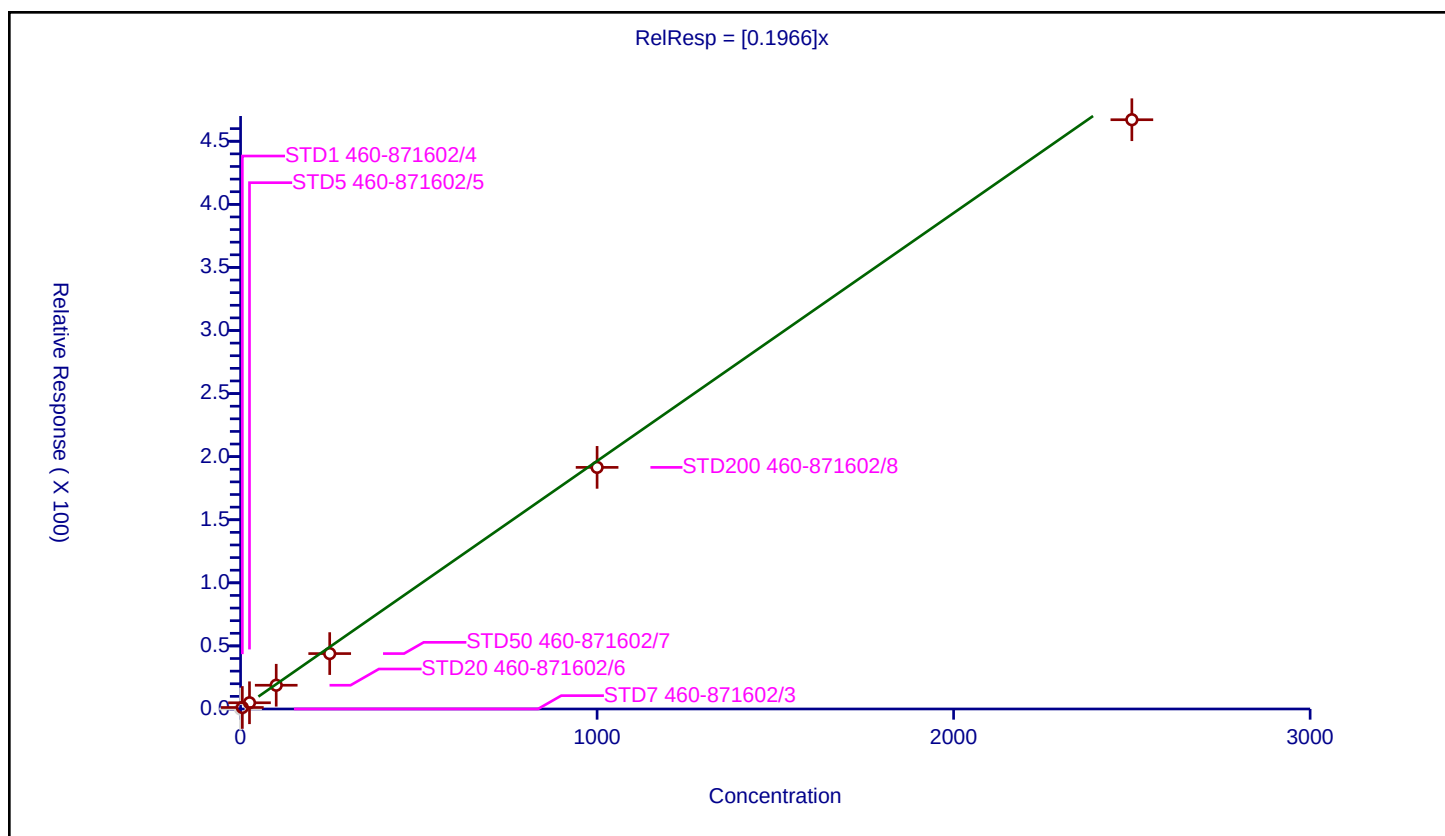
Curve Coefficients

Intercept: 0
 Slope: 0.1966

Error Coefficients

Standard Error: 282000
 Relative Standard Error: 11.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	250.0	260052.0	NaN	N
2	STD1 460-871602/4	5.0	1.198349	250.0	261610.0	0.23967	Y
3	STD5 460-871602/5	25.0	4.937263	250.0	270494.0	0.197491	Y
4	STD20 460-871602/6	100.0	18.819975	250.0	285282.0	0.1882	Y
5	STD50 460-871602/7	250.0	43.911295	250.0	308867.0	0.175645	Y
6	STD200 460-871602/8	1000.0	191.509527	250.0	314688.0	0.19151	Y
7	STD500 460-871602/9	2500.0	467.065955	250.0	309968.0	0.186826	Y



Calibration

/ Ethyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

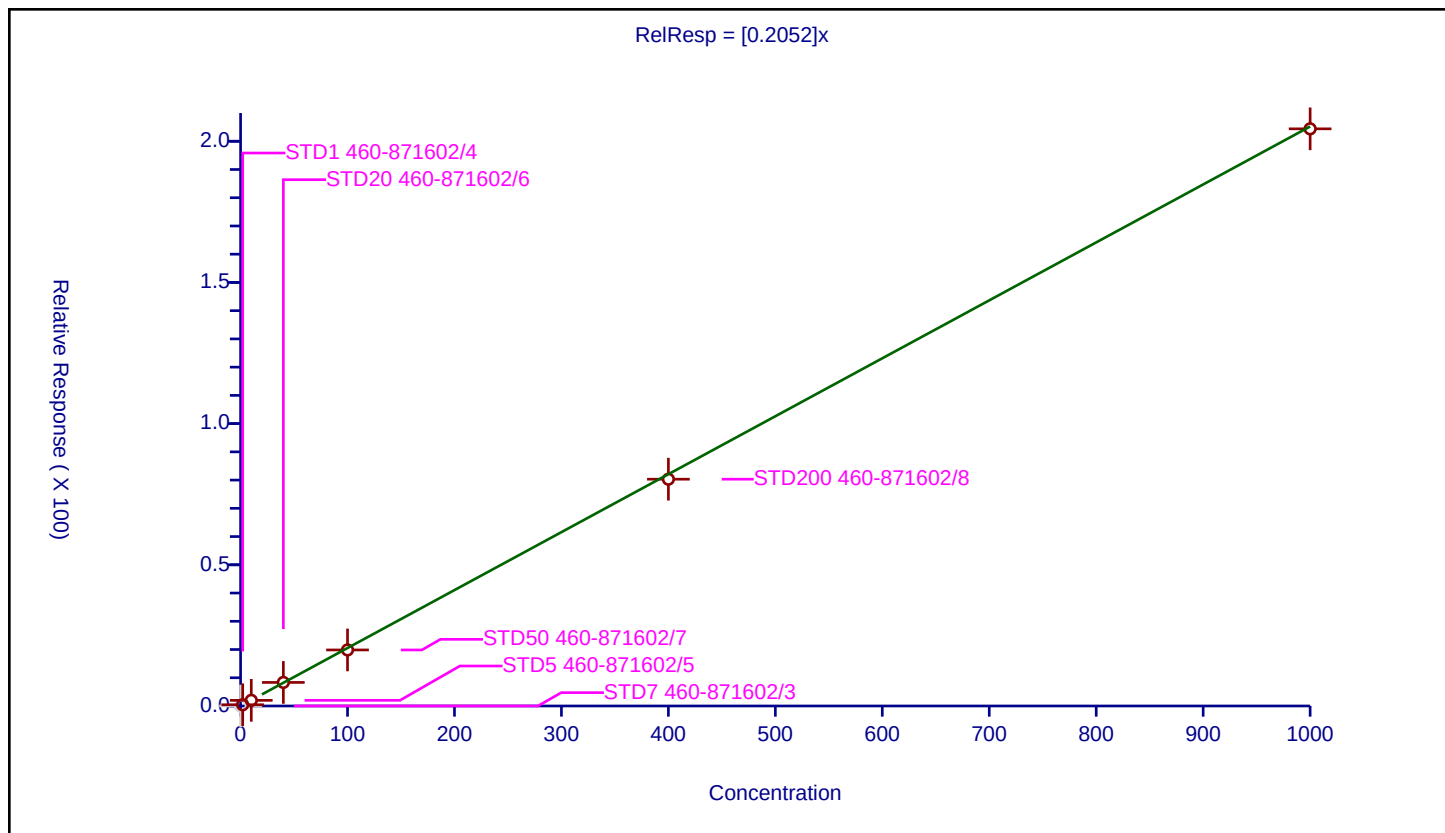
Curve Coefficients

Intercept: 0
 Slope: 0.2052

Error Coefficients

Standard Error: 122000
 Relative Standard Error: 3.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	250.0	260052.0	NaN	N
2	STD1 460-871602/4	2.0	0.439586	250.0	261610.0	0.219793	Y
3	STD5 460-871602/5	10.0	1.993575	250.0	270494.0	0.199357	Y
4	STD20 460-871602/6	40.0	8.339117	250.0	285282.0	0.208478	Y
5	STD50 460-871602/7	100.0	19.849968	250.0	308867.0	0.1985	Y
6	STD200 460-871602/8	400.0	80.312087	250.0	314688.0	0.20078	Y
7	STD500 460-871602/9	1000.0	204.403358	250.0	309968.0	0.204403	Y



Calibration

/ Chlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

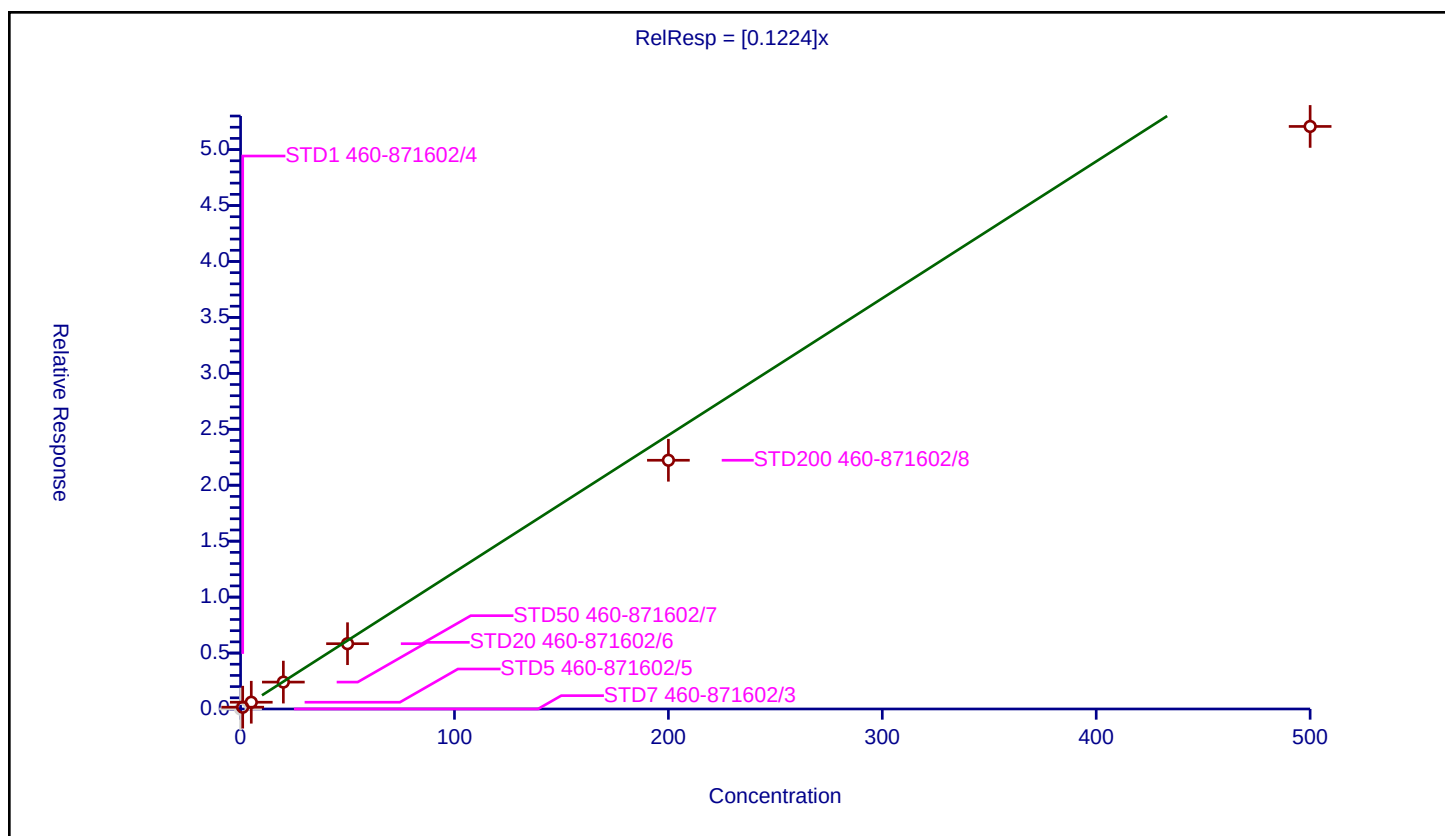
Curve Coefficients

Intercept: 0
Slope: 0.1224

Error Coefficients

Standard Error: 250000
Relative Standard Error: 16.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.964

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.161059	50.0	439281.0	0.161059	Y
3	STD5 460-871602/5	5.0	0.604245	50.0	453872.0	0.120849	Y
4	STD20 460-871602/6	20.0	2.404052	50.0	460431.0	0.120203	Y
5	STD50 460-871602/7	50.0	5.835548	50.0	468525.0	0.116711	Y
6	STD200 460-871602/8	200.0	22.231469	50.0	471631.0	0.111157	Y
7	STD500 460-871602/9	500.0	52.067271	50.0	493259.0	0.104135	Y



Calibration

/ Tetrahydrofuran

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

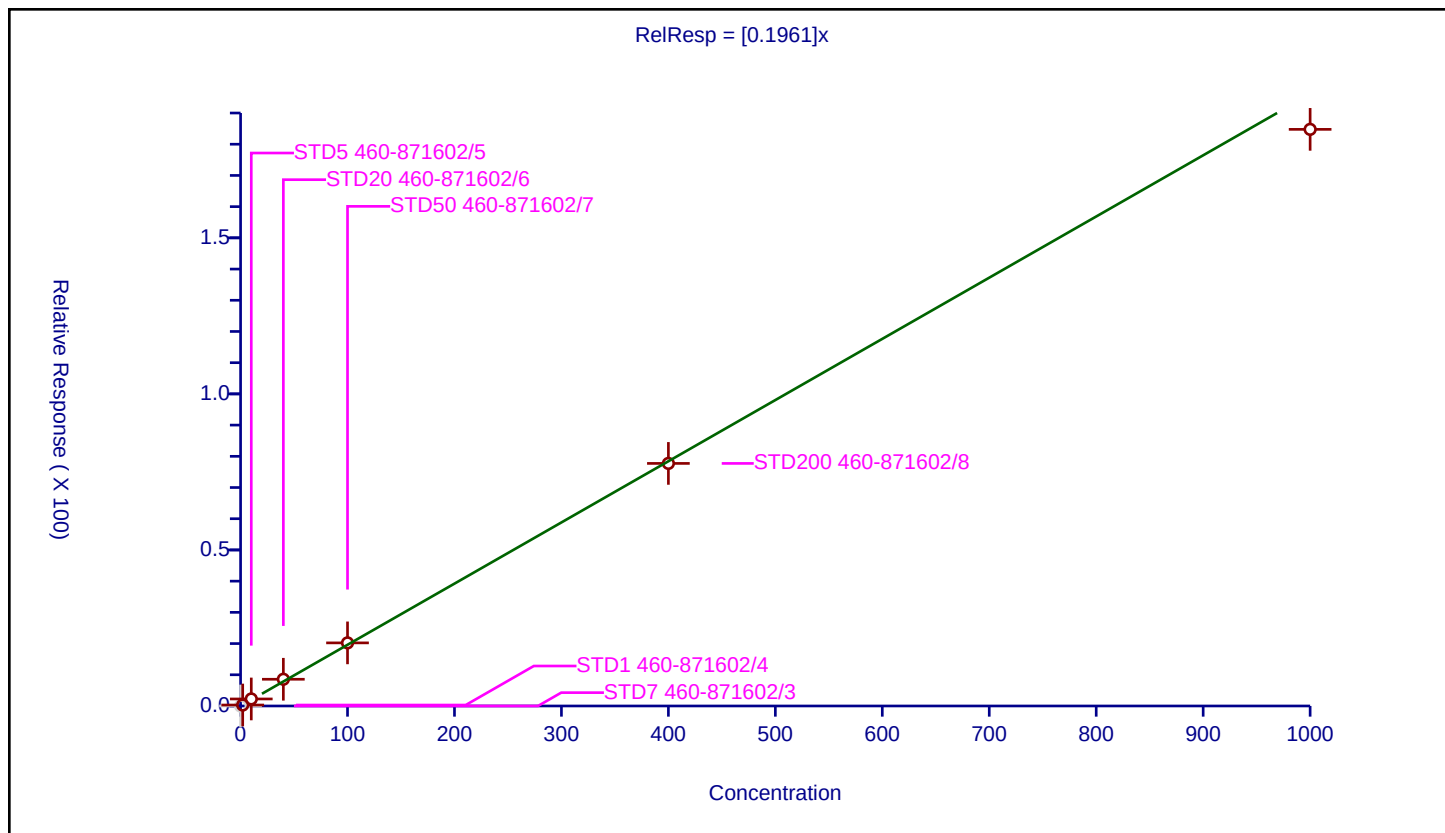
Curve Coefficients

Intercept: 0
Slope: 0.1961

Error Coefficients

Standard Error: 112000
Relative Standard Error: 12.4
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	250.0	260052.0	NaN	N
2	STD1 460-871602/4	2.0	0.311532	250.0	261610.0	0.155766	Y
3	STD5 460-871602/5	10.0	2.25236	250.0	270494.0	0.225236	Y
4	STD20 460-871602/6	40.0	8.56258	250.0	285282.0	0.214065	Y
5	STD50 460-871602/7	100.0	20.21744	250.0	308867.0	0.202174	Y
6	STD200 460-871602/8	400.0	77.727781	250.0	314688.0	0.194319	Y
7	STD500 460-871602/9	1000.0	184.761008	250.0	309968.0	0.184761	Y



Calibration

/ Chloroform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

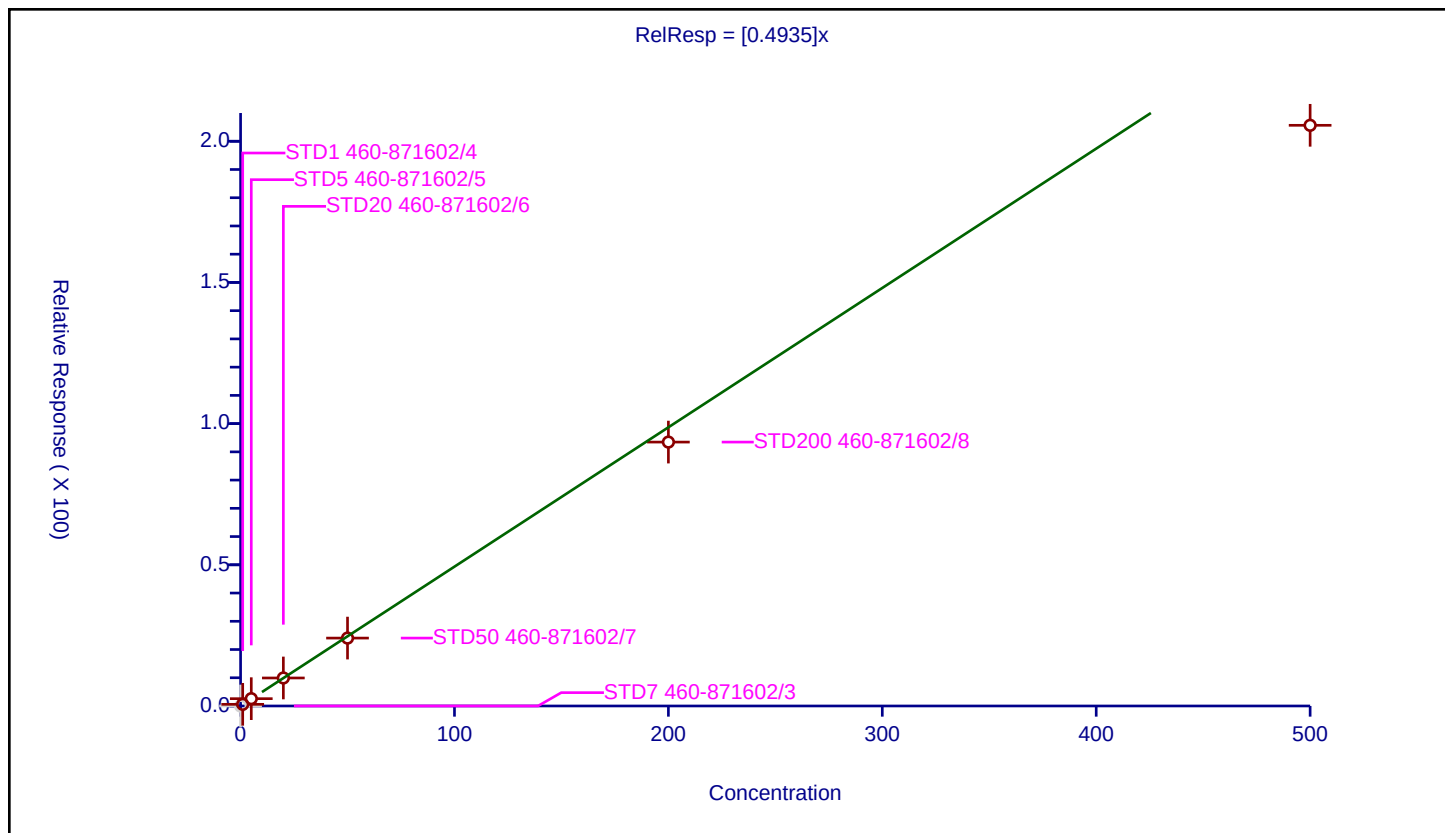
Curve Coefficients

Intercept: 0
Slope: 0.4935

Error Coefficients

Standard Error: 995000
Relative Standard Error: 11.8
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.58721	50.0	439281.0	0.58721	Y
3	STD5 460-871602/5	5.0	2.589937	50.0	453872.0	0.517987	Y
4	STD20 460-871602/6	20.0	9.922225	50.0	460431.0	0.496111	Y
5	STD50 460-871602/7	50.0	24.046849	50.0	468525.0	0.480937	Y
6	STD200 460-871602/8	200.0	93.461414	50.0	471631.0	0.467307	Y
7	STD500 460-871602/9	500.0	205.64602	50.0	493259.0	0.411292	Y



Calibration

/ Cyclohexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

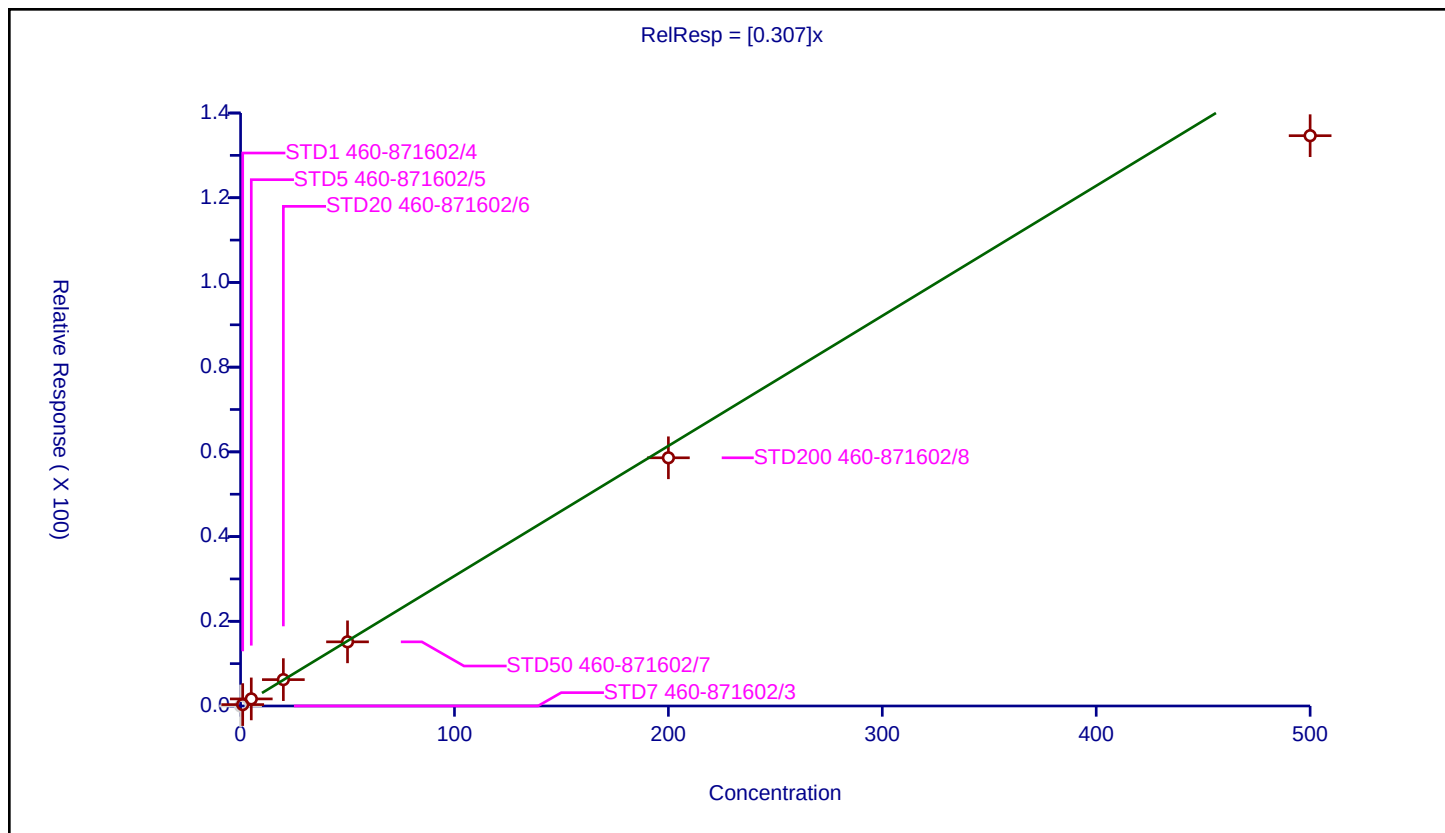
Curve Coefficients

Intercept: 0
 Slope: 0.307

Error Coefficients

Standard Error: 647000
 Relative Standard Error: 8.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.331337	50.0	439281.0	0.331337	Y
3	STD5 460-871602/5	5.0	1.672388	50.0	453872.0	0.334478	Y
4	STD20 460-871602/6	20.0	6.223517	50.0	460431.0	0.311176	Y
5	STD50 460-871602/7	50.0	15.146684	50.0	468525.0	0.302934	Y
6	STD200 460-871602/8	200.0	58.599626	50.0	471631.0	0.292998	Y
7	STD500 460-871602/9	500.0	134.648126	50.0	493259.0	0.269296	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

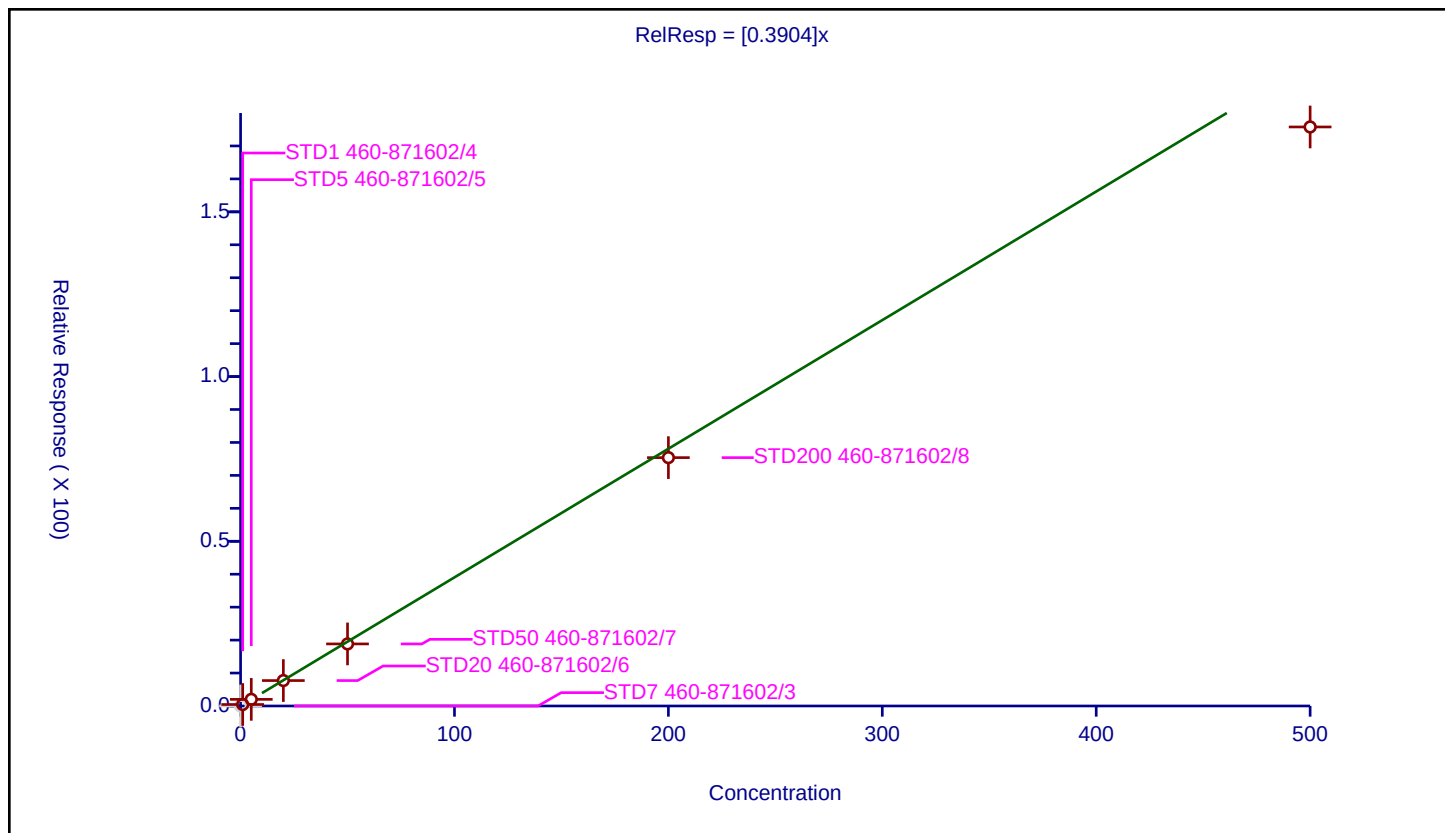
Curve Coefficients

Intercept: 0
 Slope: 0.3904

Error Coefficients

Standard Error: 842000
 Relative Standard Error: 8.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.448688	50.0	439281.0	0.448688	Y
3	STD5 460-871602/5	5.0	2.012902	50.0	453872.0	0.40258	Y
4	STD20 460-871602/6	20.0	7.719941	50.0	460431.0	0.385997	Y
5	STD50 460-871602/7	50.0	18.838589	50.0	468525.0	0.376772	Y
6	STD200 460-871602/8	200.0	75.394005	50.0	471631.0	0.37697	Y
7	STD500 460-871602/9	500.0	175.763443	50.0	493259.0	0.351527	Y



Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

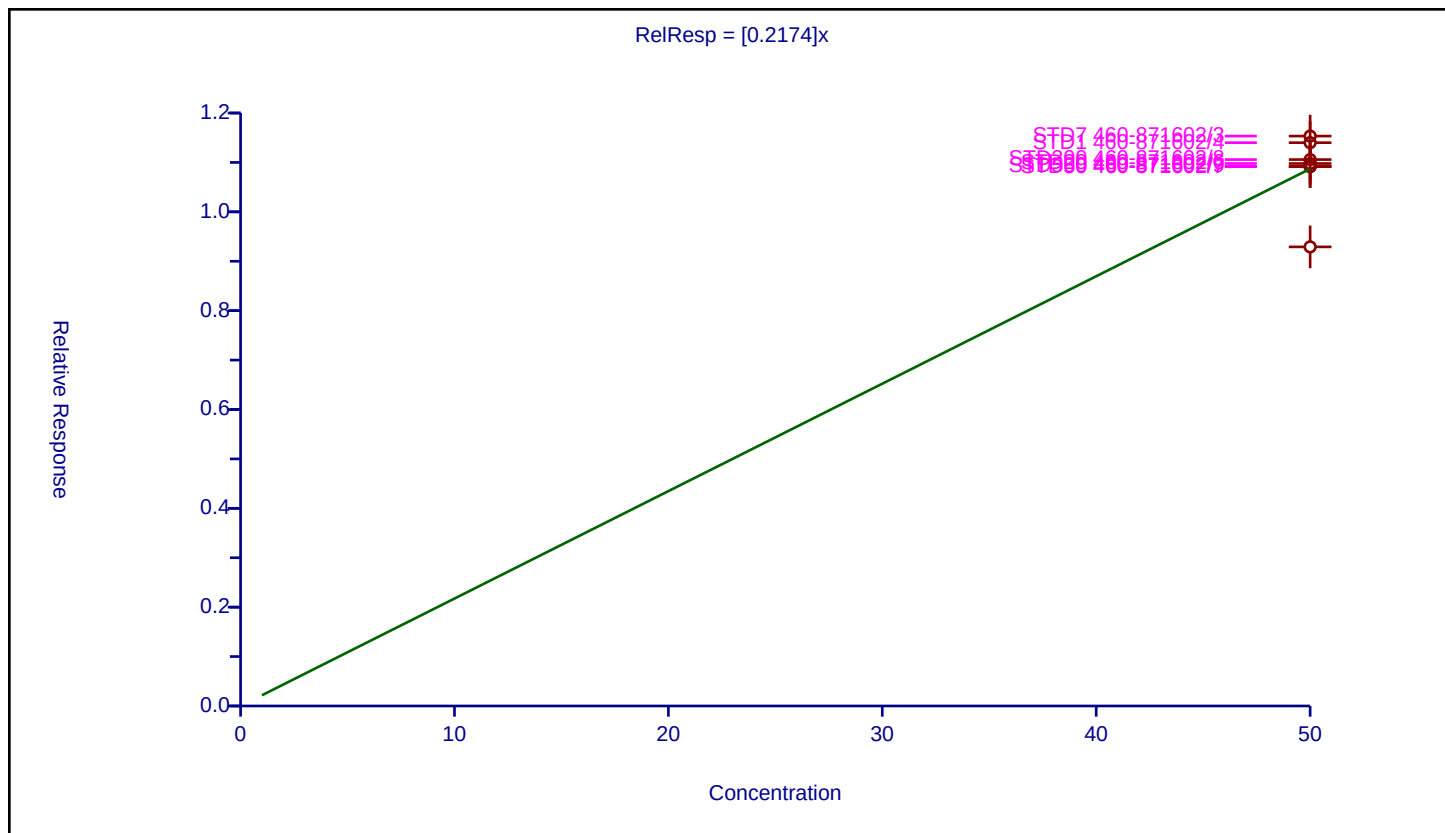
Curve Coefficients

Intercept: 0
 Slope: 0.2174

Error Coefficients

Standard Error: 109000
 Relative Standard Error: 6.8
 Correlation Coefficient: NA
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	50.0	11.533204	50.0	447005.0	0.230664	Y
2	STD1 460-871602/4	50.0	11.399651	50.0	439281.0	0.227993	Y
3	STD5 460-871602/5	50.0	9.290945	50.0	453872.0	0.185819	Y
4	STD20 460-871602/6	50.0	10.977649	50.0	460431.0	0.219553	Y
5	STD50 460-871602/7	50.0	10.913505	50.0	468525.0	0.21827	Y
6	STD200 460-871602/8	50.0	11.057691	50.0	471631.0	0.221154	Y
7	STD500 460-871602/9	50.0	10.919618	50.0	493259.0	0.218392	Y



Calibration

/ Carbon tetrachloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

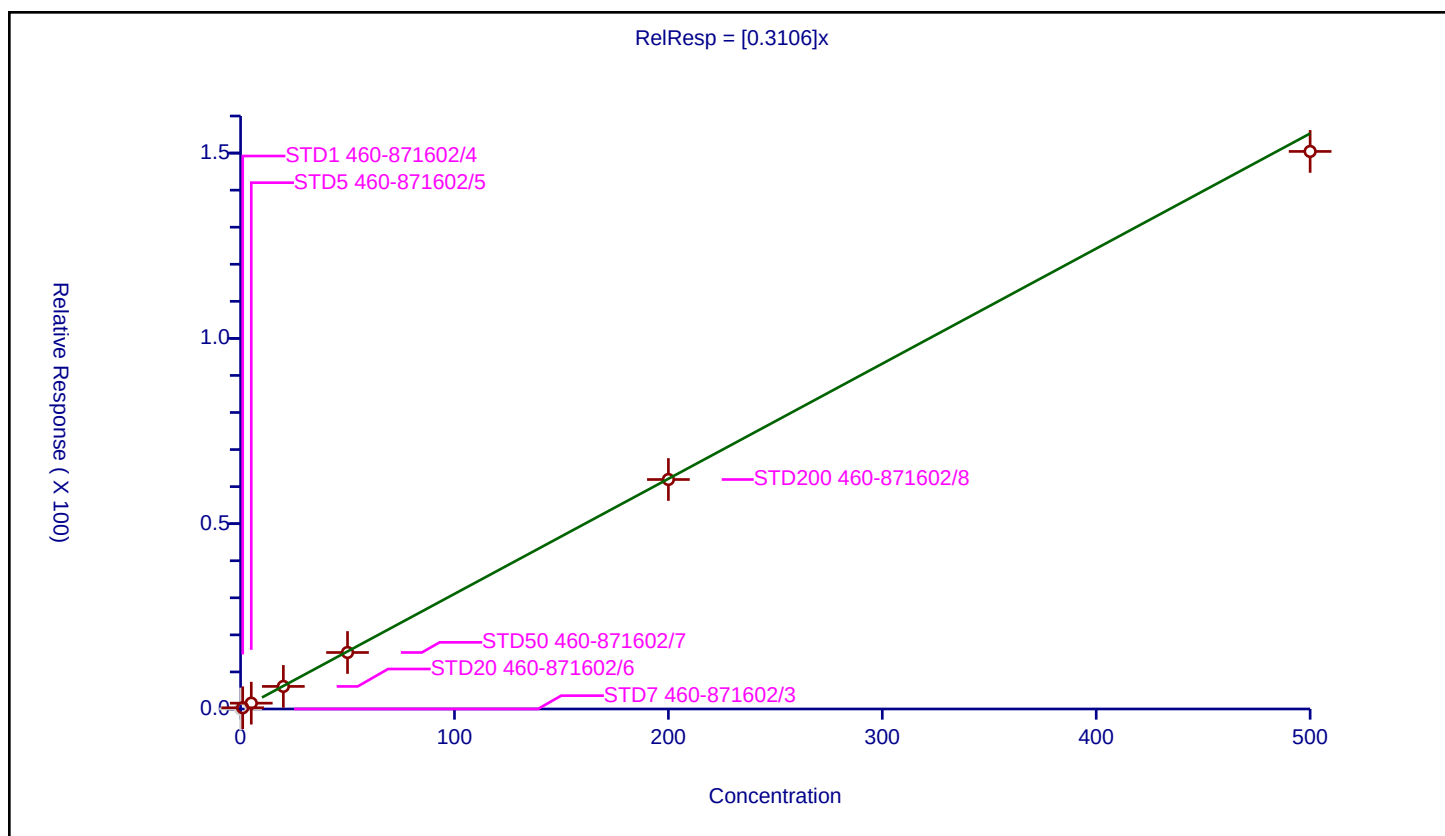
Curve Coefficients

Intercept: 0
Slope: 0.3106

Error Coefficients

Standard Error: 717000
Relative Standard Error: 3.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.329174	50.0	439281.0	0.329174	Y
3	STD5 460-871602/5	5.0	1.571258	50.0	453872.0	0.314252	Y
4	STD20 460-871602/6	20.0	6.091466	50.0	460431.0	0.304573	Y
5	STD50 460-871602/7	50.0	15.246678	50.0	468525.0	0.304934	Y
6	STD200 460-871602/8	200.0	61.919806	50.0	471631.0	0.309599	Y
7	STD500 460-871602/9	500.0	150.446216	50.0	493259.0	0.300892	Y



Calibration

/ 1,1-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

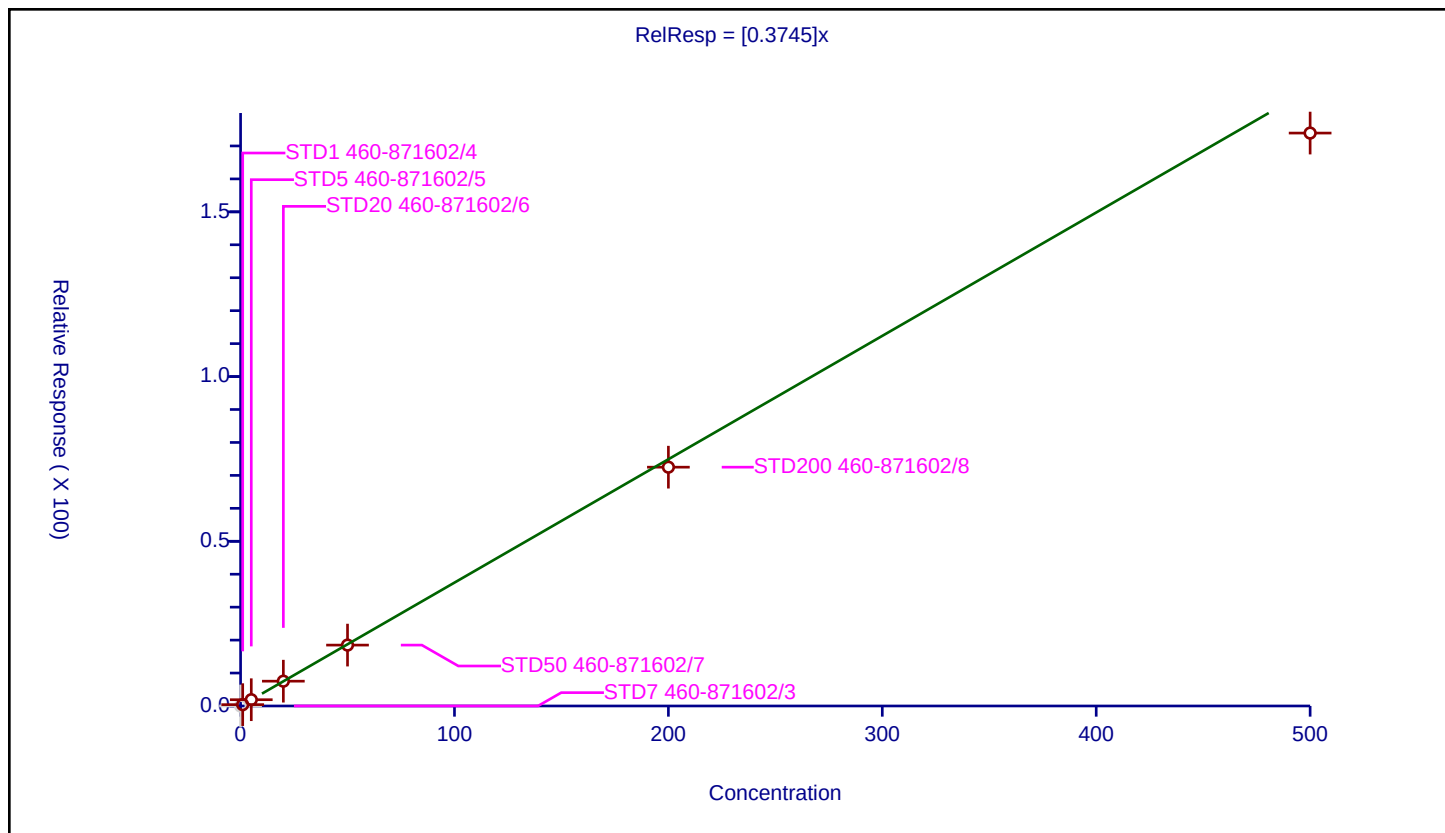
Curve Coefficients

Intercept: 0
 Slope: 0.3745

Error Coefficients

Standard Error: 830000
 Relative Standard Error: 5.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.409533	50.0	439281.0	0.409533	Y
3	STD5 460-871602/5	5.0	1.90329	50.0	453872.0	0.380658	Y
4	STD20 460-871602/6	20.0	7.534028	50.0	460431.0	0.376701	Y
5	STD50 460-871602/7	50.0	18.487807	50.0	468525.0	0.369756	Y
6	STD200 460-871602/8	200.0	72.495871	50.0	471631.0	0.362479	Y
7	STD500 460-871602/9	500.0	173.914921	50.0	493259.0	0.34783	Y



Calibration

/ Benzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

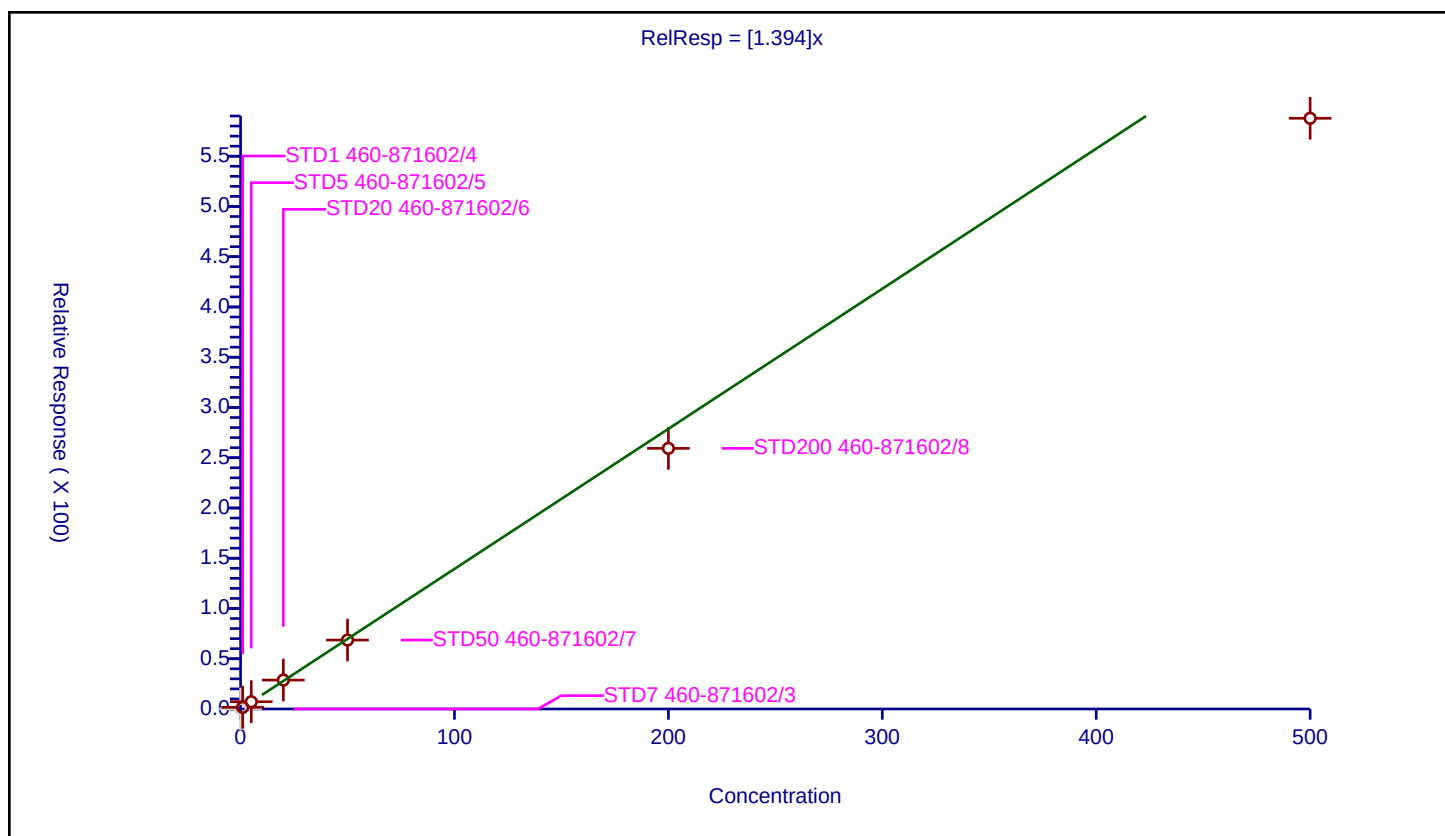
Curve Coefficients

Intercept: 0
Slope: 1.394

Error Coefficients

Standard Error: 2220000
Relative Standard Error: 11.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	1.634879	50.0	345836.0	1.634879	Y
3	STD5 460-871602/5	5.0	7.224721	50.0	343778.0	1.444944	Y
4	STD20 460-871602/6	20.0	28.776508	50.0	344187.0	1.438825	Y
5	STD50 460-871602/7	50.0	68.584559	50.0	359266.0	1.371691	Y
6	STD200 460-871602/8	200.0	259.325814	50.0	362022.0	1.296629	Y
7	STD500 460-871602/9	500.0	587.755371	50.0	387427.0	1.175511	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

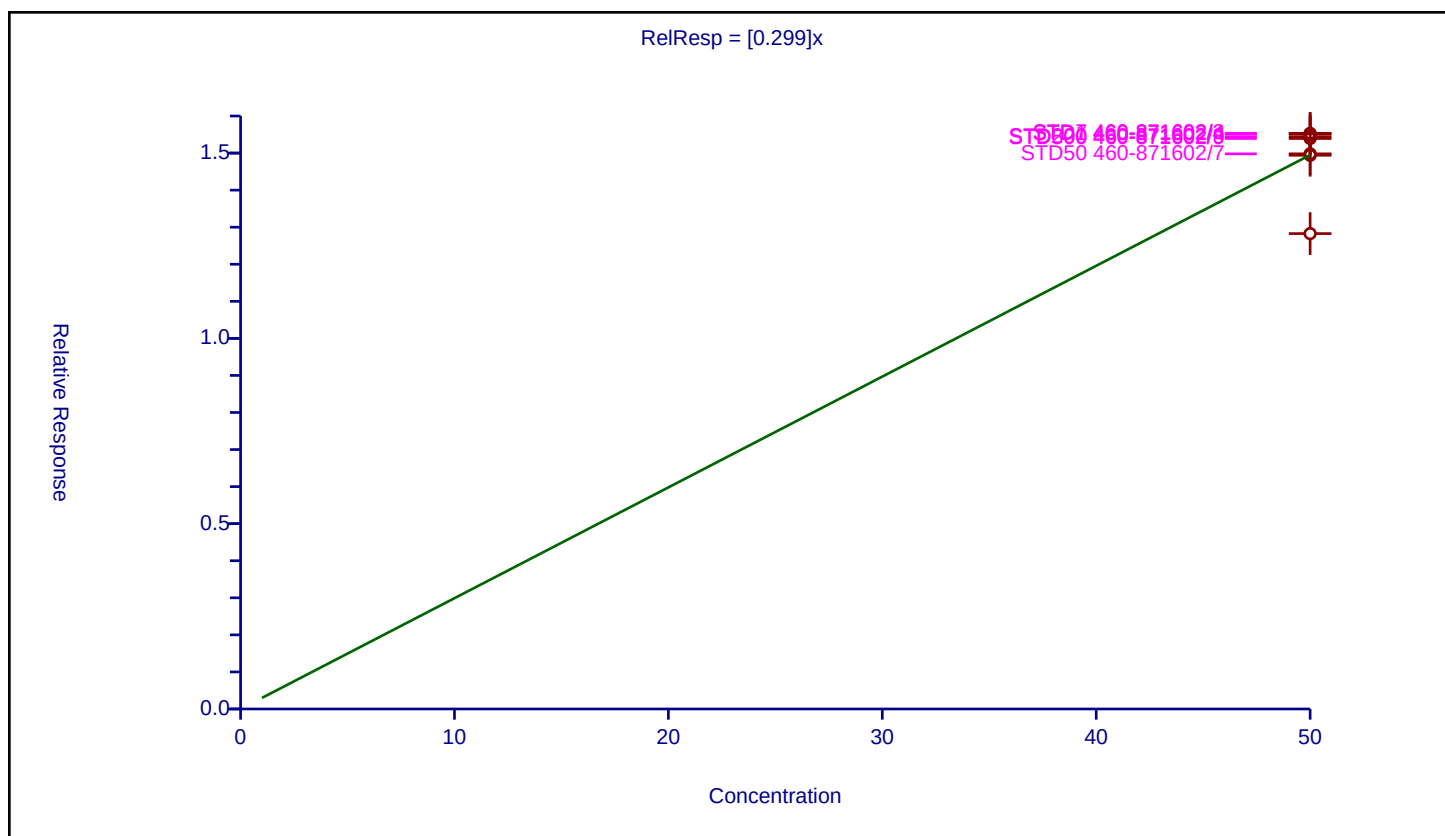
Curve Coefficients

Intercept: 0
 Slope: 0.299

Error Coefficients

Standard Error: 150000
 Relative Standard Error: 6.5
 Correlation Coefficient: NA
 Coefficient of Determination (Adjusted): 0.000000000000000222

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	50.0	15.531482	50.0	447005.0	0.31063	Y
2	STD1 460-871602/4	50.0	15.518199	50.0	439281.0	0.310364	Y
3	STD5 460-871602/5	50.0	12.827295	50.0	453872.0	0.256546	Y
4	STD20 460-871602/6	50.0	14.940892	50.0	460431.0	0.298818	Y
5	STD50 460-871602/7	50.0	14.979457	50.0	468525.0	0.299589	Y
6	STD200 460-871602/8	50.0	15.442899	50.0	471631.0	0.308858	Y
7	STD500 460-871602/9	50.0	15.393536	50.0	493259.0	0.307871	Y



Calibration

/ Isopropyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

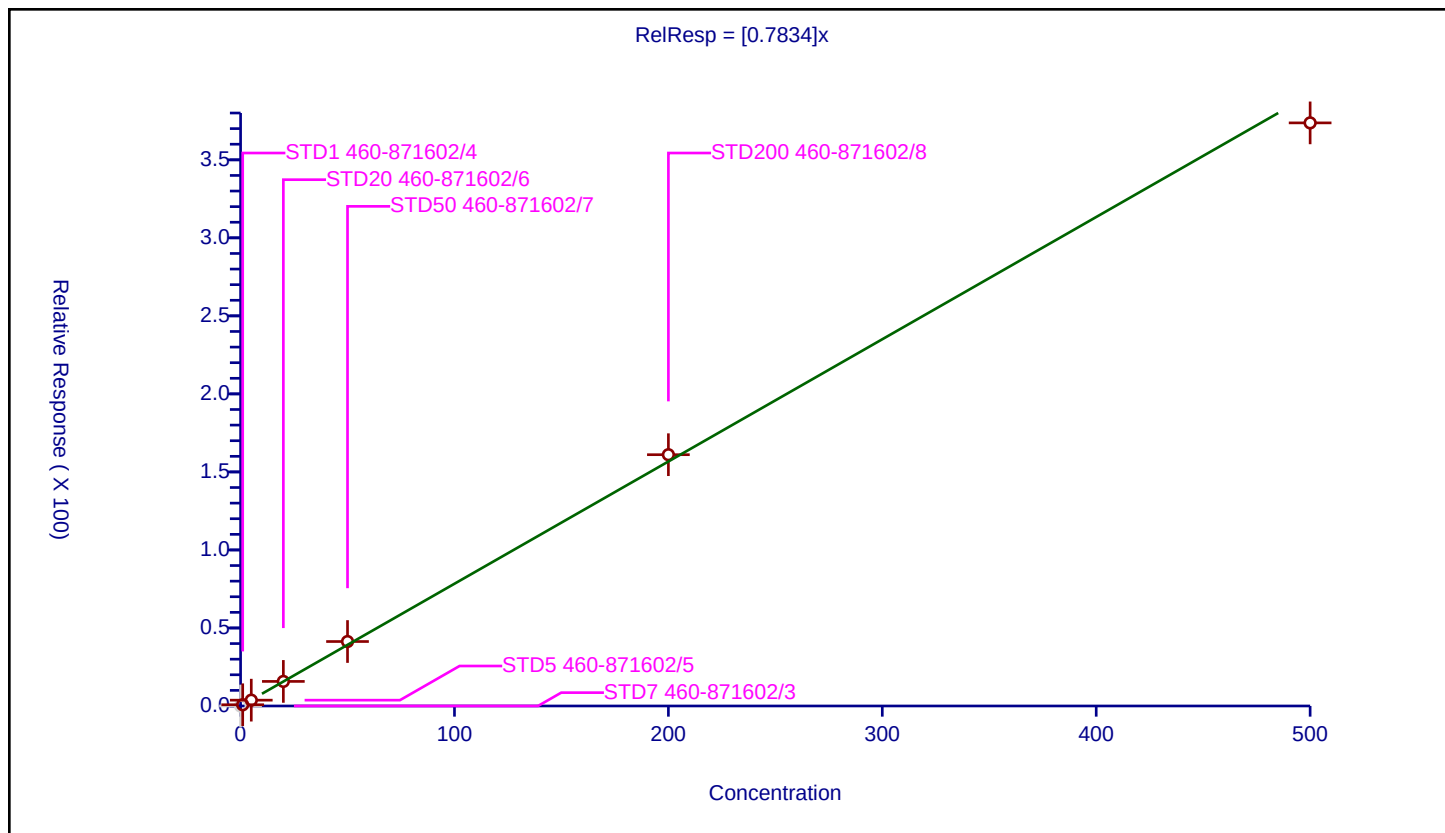
Curve Coefficients

Intercept: 0
 Slope: 0.7834

Error Coefficients

Standard Error: 1790000
 Relative Standard Error: 4.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.788675	50.0	439281.0	0.788675	Y
3	STD5 460-871602/5	5.0	3.729245	50.0	453872.0	0.745849	Y
4	STD20 460-871602/6	20.0	15.741121	50.0	460431.0	0.787056	Y
5	STD50 460-871602/7	50.0	41.306761	50.0	468525.0	0.826135	Y
6	STD200 460-871602/8	200.0	161.030657	50.0	471631.0	0.805153	Y
7	STD500 460-871602/9	500.0	373.679852	50.0	493259.0	0.74736	Y



Calibration

/ 1,2-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

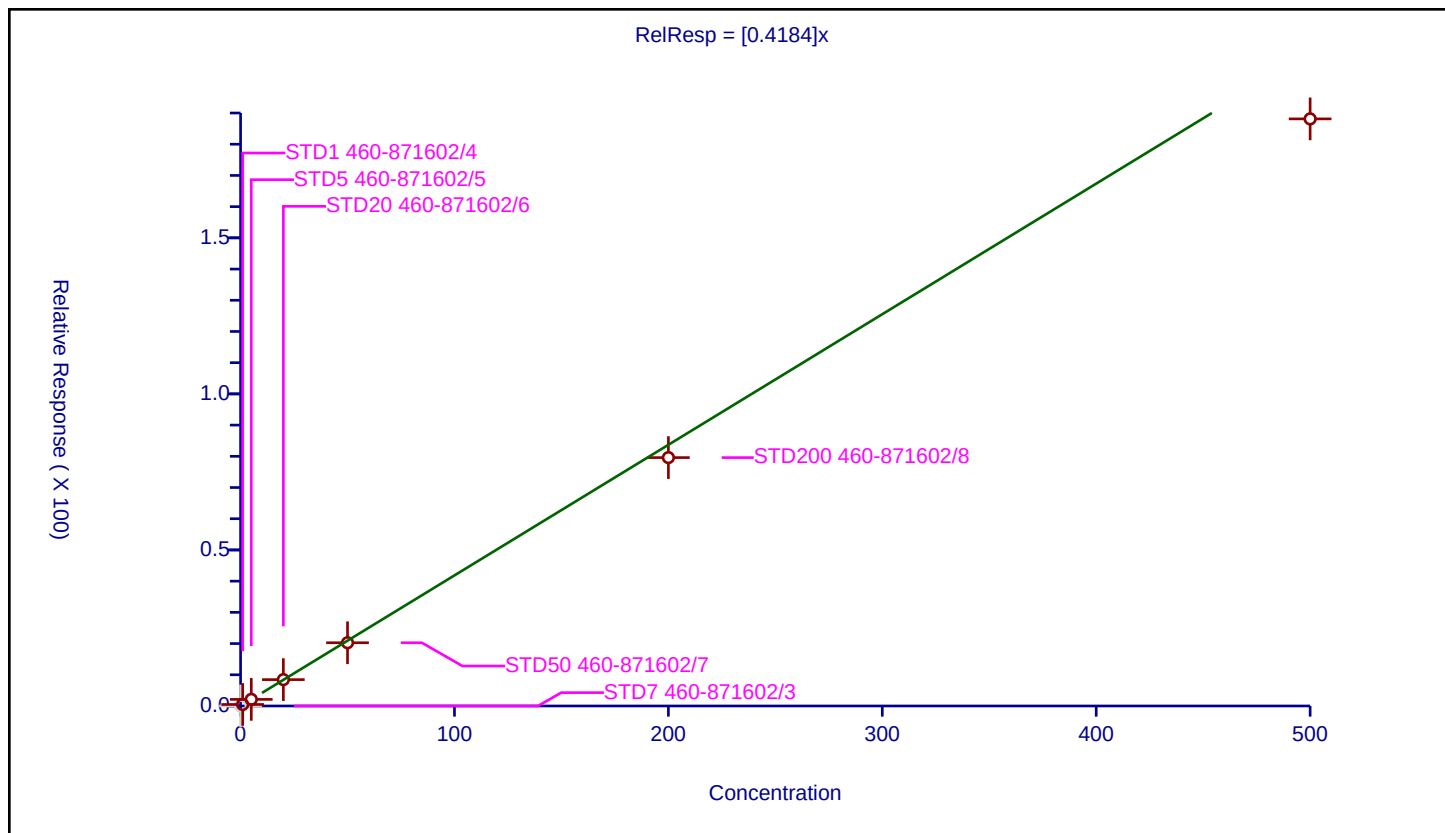
Curve Coefficients

Intercept: 0
 Slope: 0.4184

Error Coefficients

Standard Error: 900000
 Relative Standard Error: 8.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.485794	50.0	439281.0	0.485794	Y
3	STD5 460-871602/5	5.0	2.115024	50.0	453872.0	0.423005	Y
4	STD20 460-871602/6	20.0	8.445891	50.0	460431.0	0.422295	Y
5	STD50 460-871602/7	50.0	20.267328	50.0	468525.0	0.405347	Y
6	STD200 460-871602/8	200.0	79.591778	50.0	471631.0	0.397959	Y
7	STD500 460-871602/9	500.0	188.119933	50.0	493259.0	0.37624	Y



Calibration

/ n-Heptane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

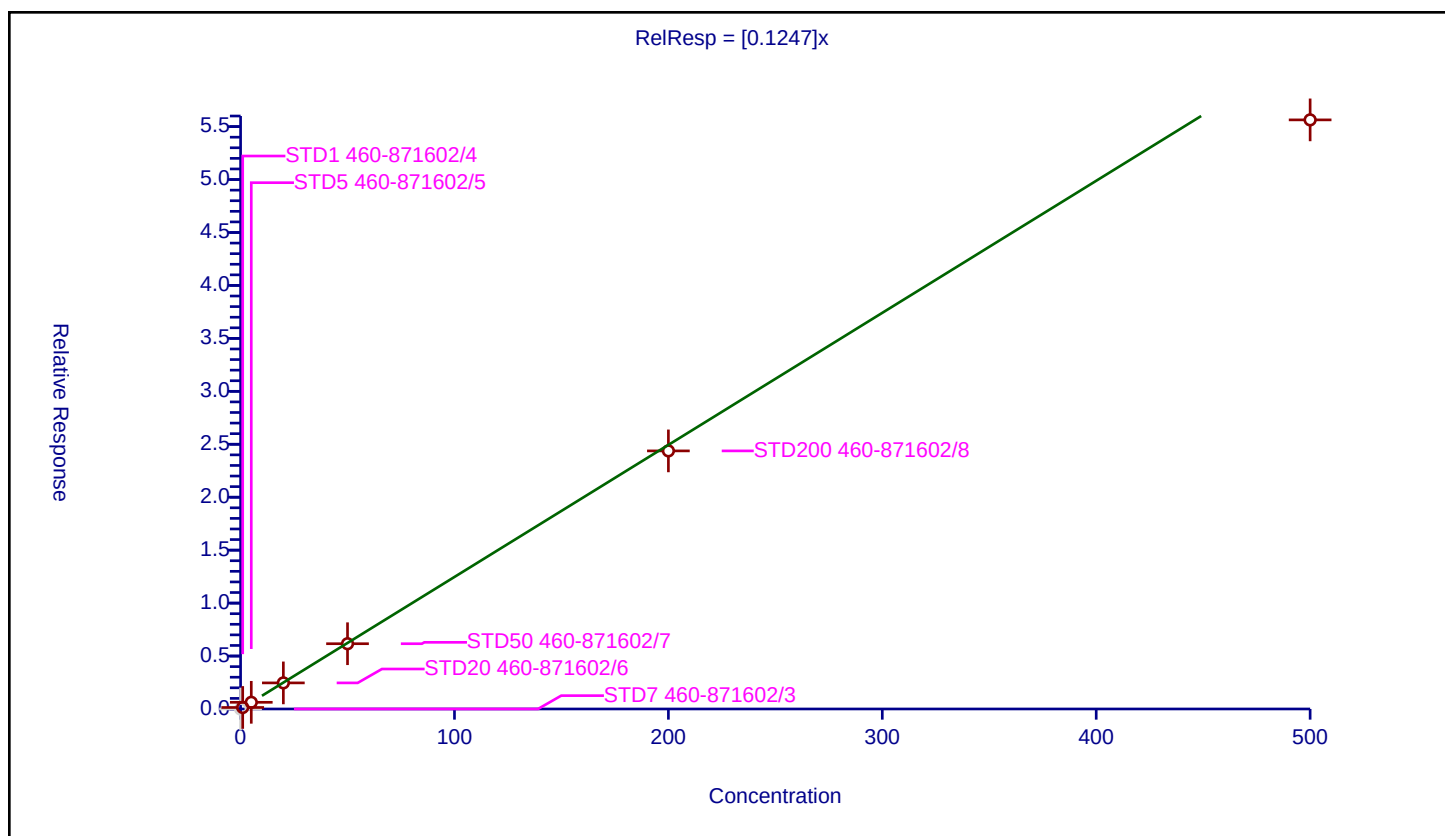
Curve Coefficients

Intercept: 0
Slope: 0.1247

Error Coefficients

Standard Error: 268000
Relative Standard Error: 8.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.142506	50.0	439281.0	0.142506	Y
3	STD5 460-871602/5	5.0	0.630244	50.0	453872.0	0.126049	Y
4	STD20 460-871602/6	20.0	2.465082	50.0	460431.0	0.123254	Y
5	STD50 460-871602/7	50.0	6.163492	50.0	468525.0	0.12327	Y
6	STD200 460-871602/8	200.0	24.375306	50.0	471631.0	0.121877	Y
7	STD500 460-871602/9	500.0	55.634971	50.0	493259.0	0.11127	Y



Calibration

/ n-Butanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

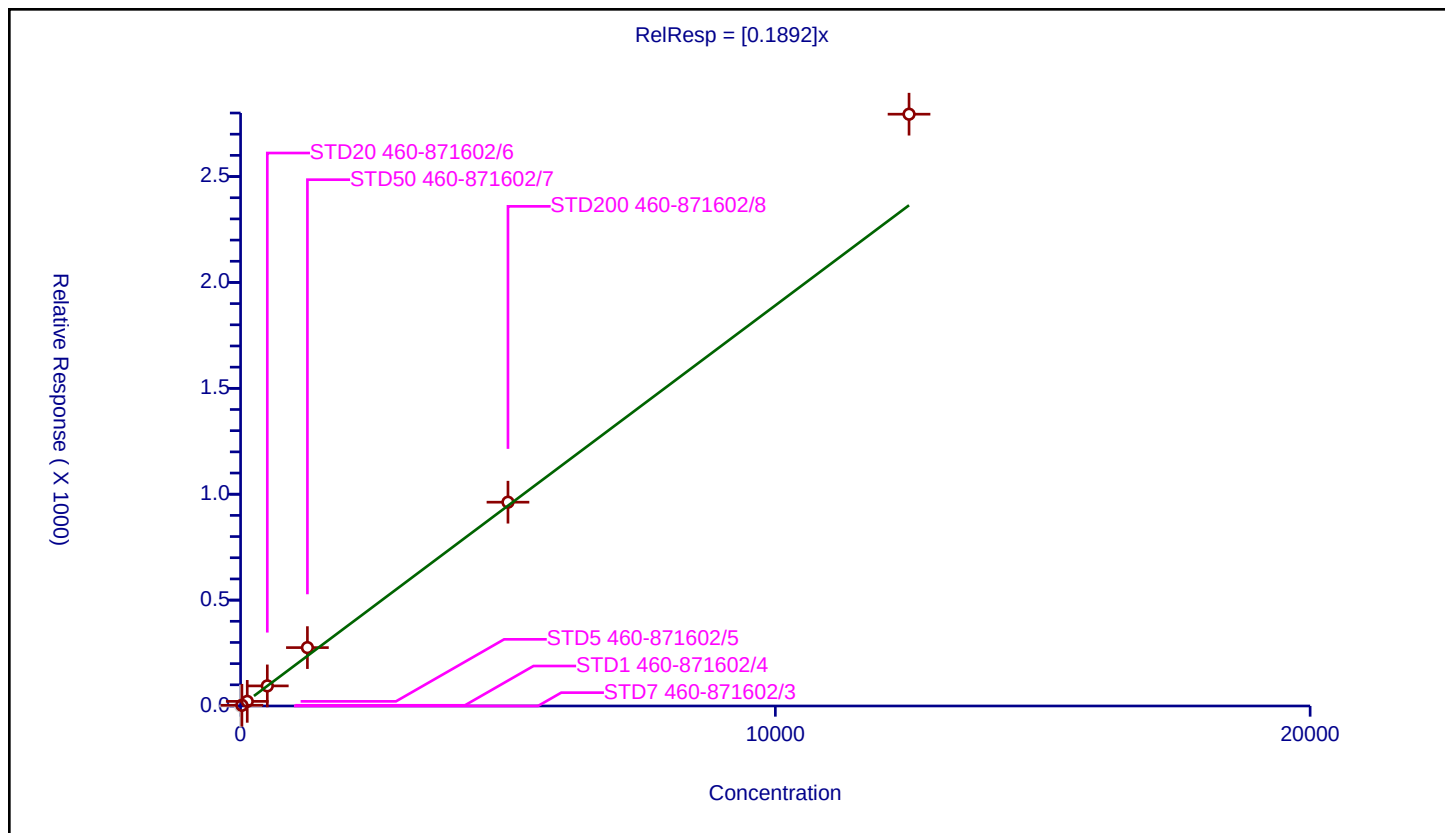
Curve Coefficients

Intercept: 0
 Slope: 0.1892

Error Coefficients

Standard Error: 274000
 Relative Standard Error: 17.4
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	1000.0	177682.0	NaN	N
2	STD1 460-871602/4	25.0	3.348463	1000.0	174707.0	0.133939	Y
3	STD5 460-871602/5	125.0	21.826955	1000.0	176983.0	0.174616	Y
4	STD20 460-871602/6	500.0	94.893001	1000.0	181731.0	0.189786	Y
5	STD50 460-871602/7	1250.0	275.703183	1000.0	201619.0	0.220563	Y
6	STD200 460-871602/8	5000.0	962.306594	1000.0	204492.0	0.192461	Y
7	STD500 460-871602/9	12500.0	2794.459114	1000.0	207151.0	0.223557	Y



Calibration

/ Trichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

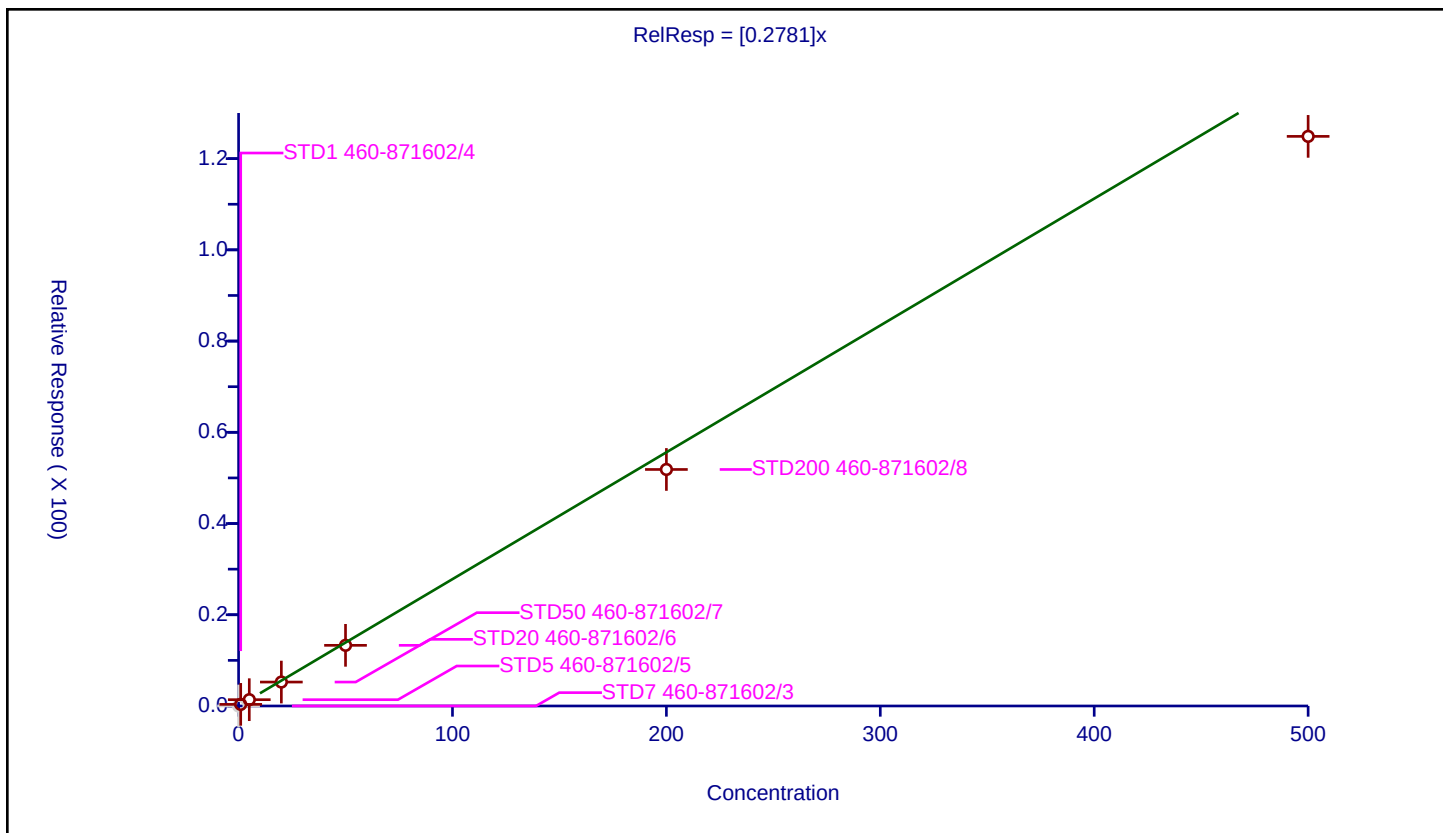
Curve Coefficients

Intercept: 0
 Slope: 0.2781

Error Coefficients

Standard Error: 596000
 Relative Standard Error: 13.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.354329	50.0	439281.0	0.354329	Y
3	STD5 460-871602/5	5.0	1.384421	50.0	453872.0	0.276884	Y
4	STD20 460-871602/6	20.0	5.246714	50.0	460431.0	0.262336	Y
5	STD50 460-871602/7	50.0	13.295235	50.0	468525.0	0.265905	Y
6	STD200 460-871602/8	200.0	51.851447	50.0	471631.0	0.259257	Y
7	STD500 460-871602/9	500.0	124.87983	50.0	493259.0	0.24976	Y



Calibration

/ Methylcyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

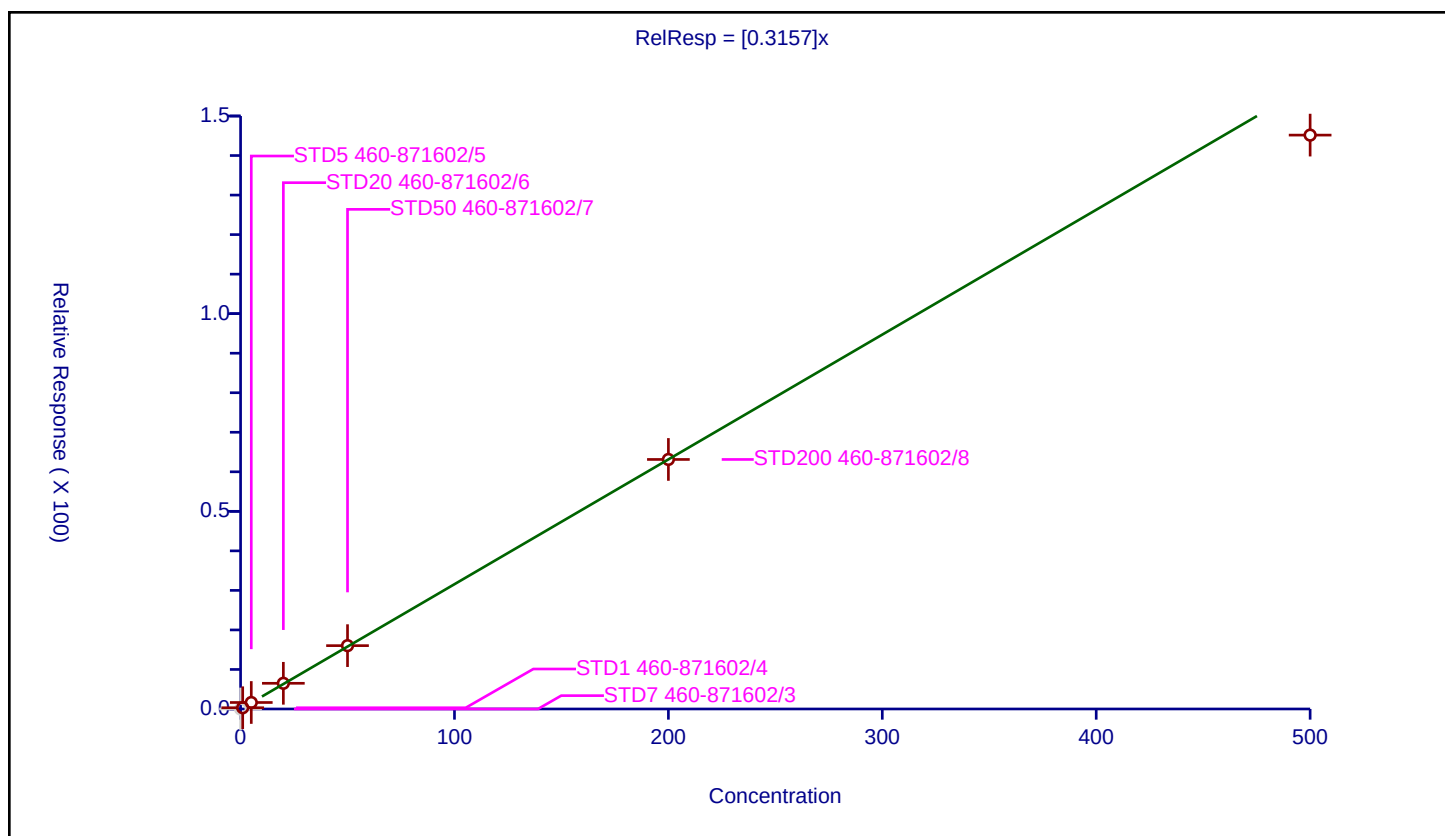
Curve Coefficients

Intercept: 0
Slope: 0.3157

Error Coefficients

Standard Error: 697000
Relative Standard Error: 4.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.313922	50.0	439281.0	0.313922	Y
3	STD5 460-871602/5	5.0	1.644076	50.0	453872.0	0.328815	Y
4	STD20 460-871602/6	20.0	6.499997	50.0	460431.0	0.325	Y
5	STD50 460-871602/7	50.0	16.023371	50.0	468525.0	0.320467	Y
6	STD200 460-871602/8	200.0	63.120003	50.0	471631.0	0.3156	Y
7	STD500 460-871602/9	500.0	145.17059	50.0	493259.0	0.290341	Y



Calibration

/ Ethyl acrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

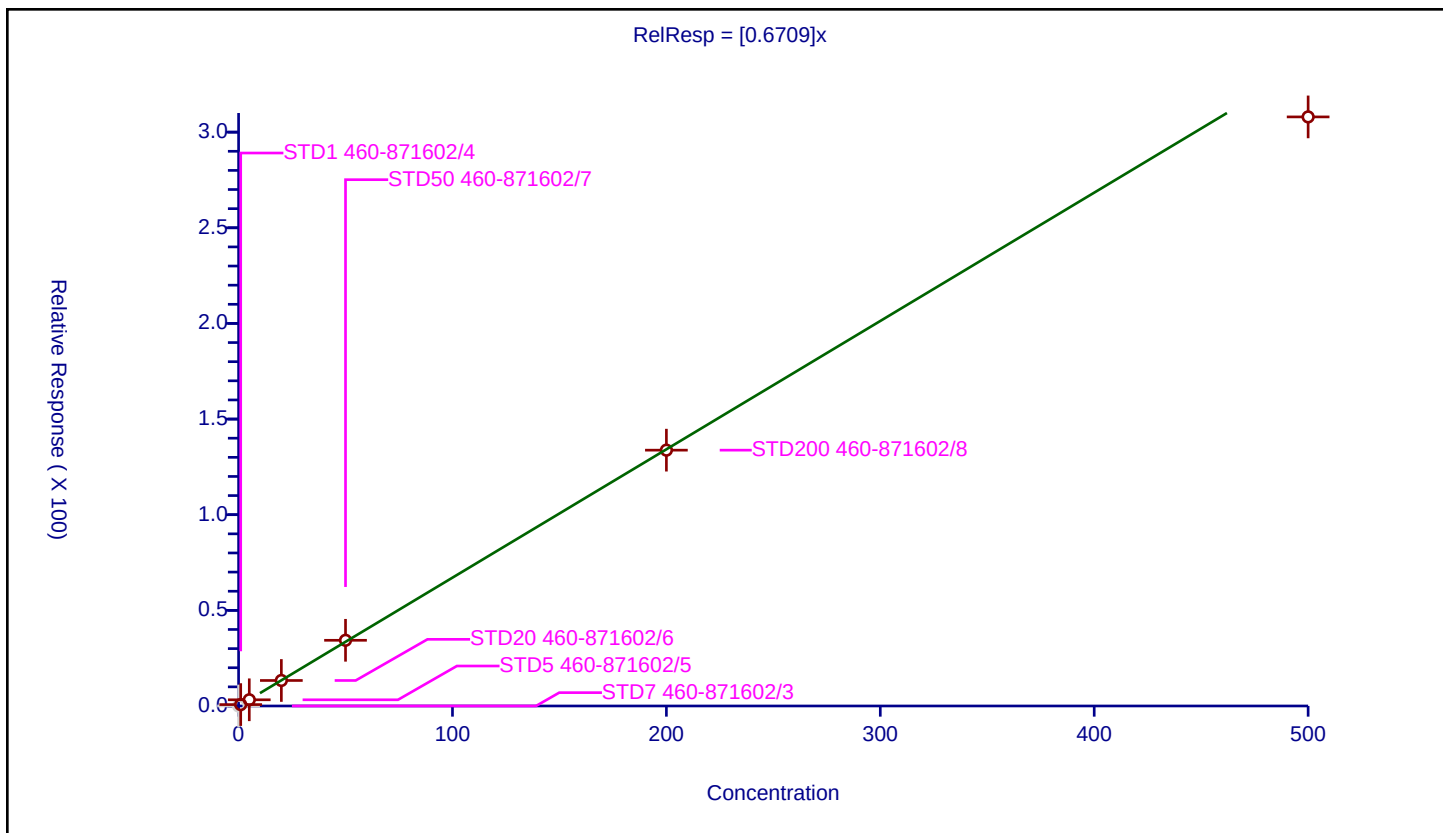
Curve Coefficients

Intercept: 0
 Slope: 0.6709

Error Coefficients

Standard Error: 1480000
 Relative Standard Error: 6.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.738479	50.0	439281.0	0.738479	Y
3	STD5 460-871602/5	5.0	3.243646	50.0	453872.0	0.648729	Y
4	STD20 460-871602/6	20.0	13.333703	50.0	460431.0	0.666685	Y
5	STD50 460-871602/7	50.0	34.349608	50.0	468525.0	0.686992	Y
6	STD200 460-871602/8	200.0	133.748206	50.0	471631.0	0.668741	Y
7	STD500 460-871602/9	500.0	307.96914	50.0	493259.0	0.615938	Y



Calibration

/ 1,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

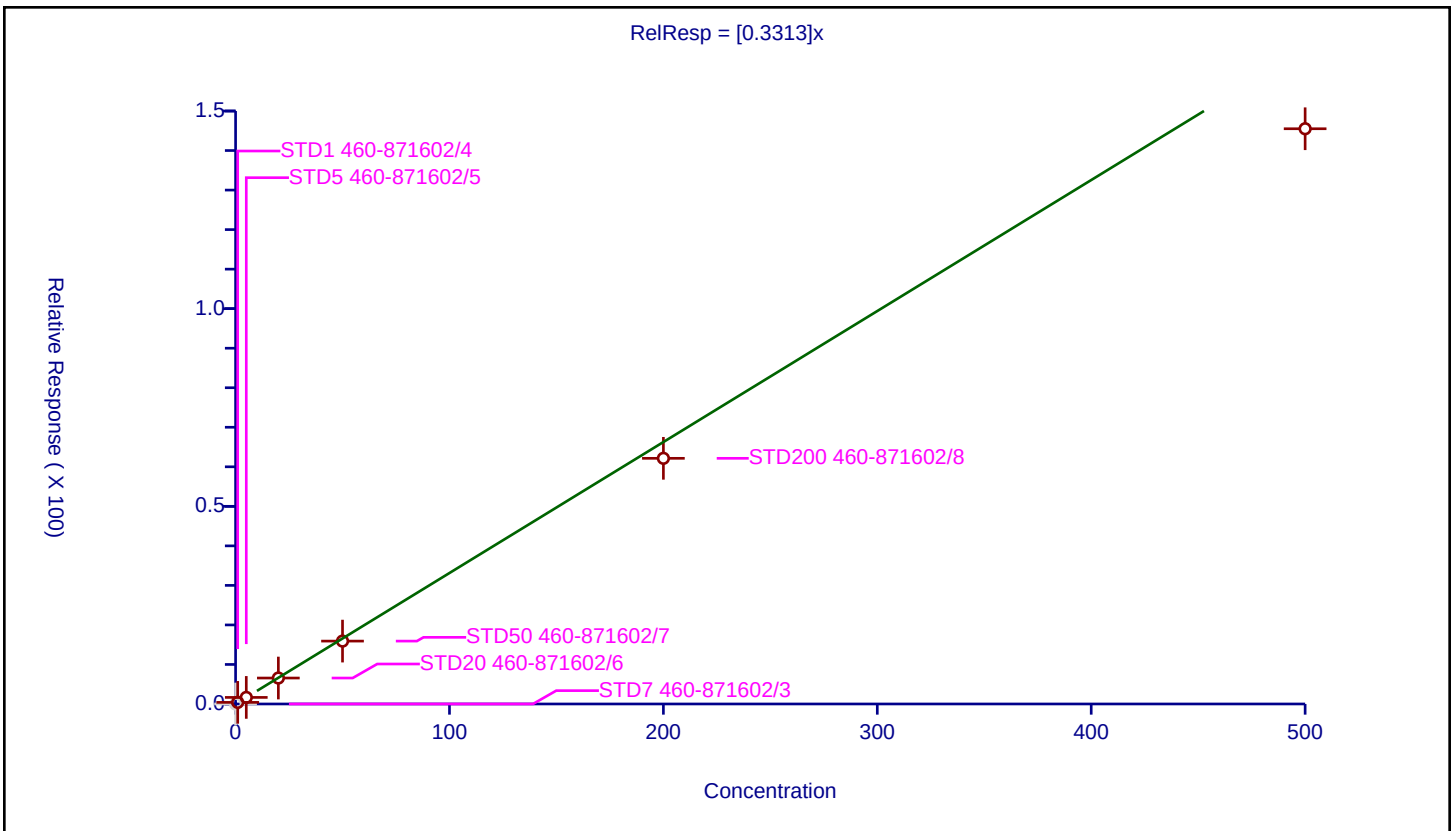
Curve Coefficients

Intercept: 0
 Slope: 0.3313

Error Coefficients

Standard Error: 697000
 Relative Standard Error: 12.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.407826	50.0	439281.0	0.407826	Y
3	STD5 460-871602/5	5.0	1.66038	50.0	453872.0	0.332076	Y
4	STD20 460-871602/6	20.0	6.56537	50.0	460431.0	0.328269	Y
5	STD50 460-871602/7	50.0	15.906408	50.0	468525.0	0.318128	Y
6	STD200 460-871602/8	200.0	62.142968	50.0	471631.0	0.310715	Y
7	STD500 460-871602/9	500.0	145.514324	50.0	493259.0	0.291029	Y



Calibration

/ Methyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

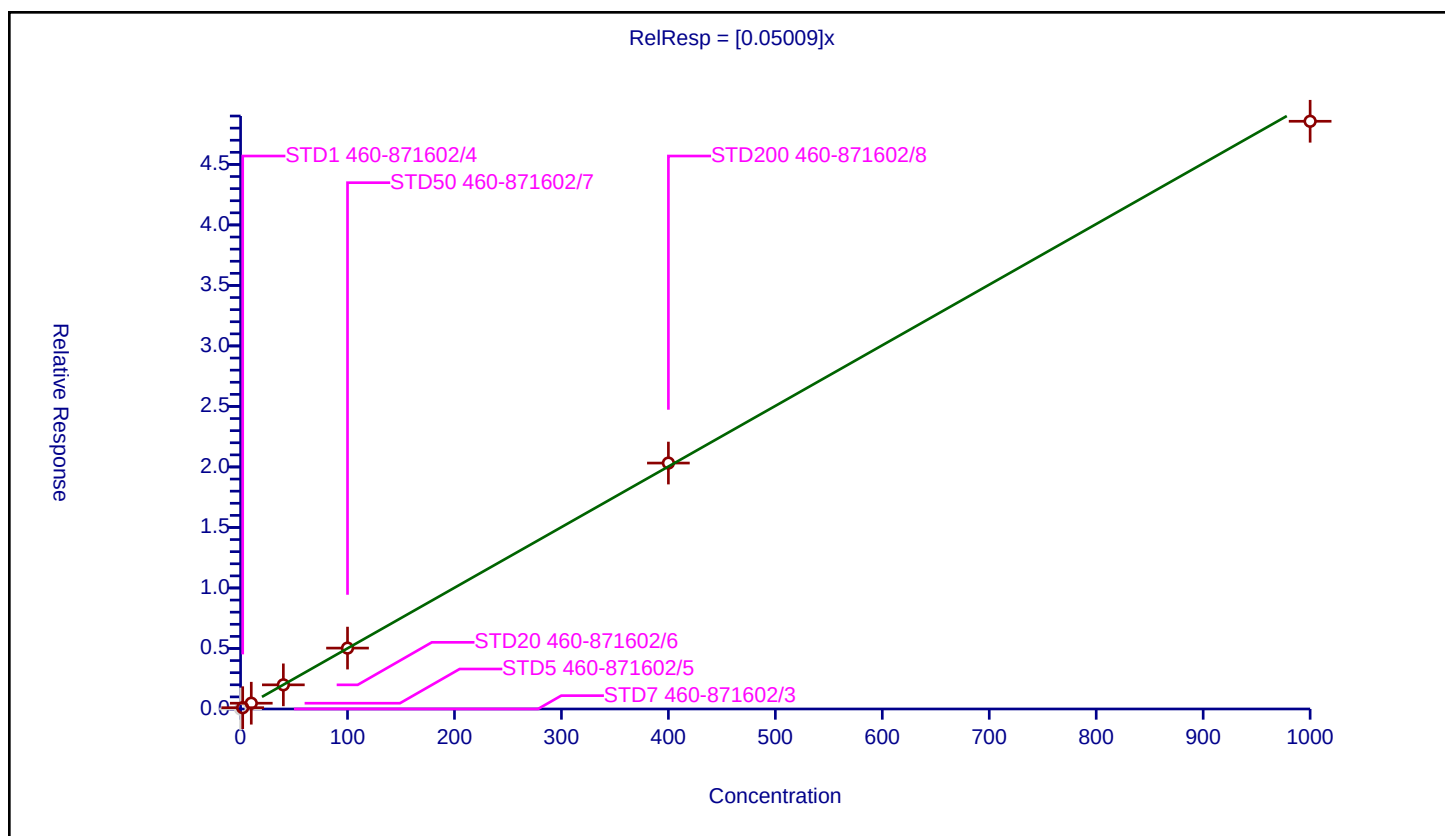
Curve Coefficients

Intercept: 0
Slope: 0.05009

Error Coefficients

Standard Error: 232000
Relative Standard Error: 3.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	2.0	0.106652	50.0	439281.0	0.053326	Y
3	STD5 460-871602/5	10.0	0.476456	50.0	453872.0	0.047646	Y
4	STD20 460-871602/6	40.0	1.995522	50.0	460431.0	0.049888	Y
5	STD50 460-871602/7	100.0	5.031535	50.0	468525.0	0.050315	Y
6	STD200 460-871602/8	400.0	20.323622	50.0	471631.0	0.050809	Y
7	STD500 460-871602/9	1000.0	48.566473	50.0	493259.0	0.048566	Y



Calibration

/ 1,4-Dioxane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

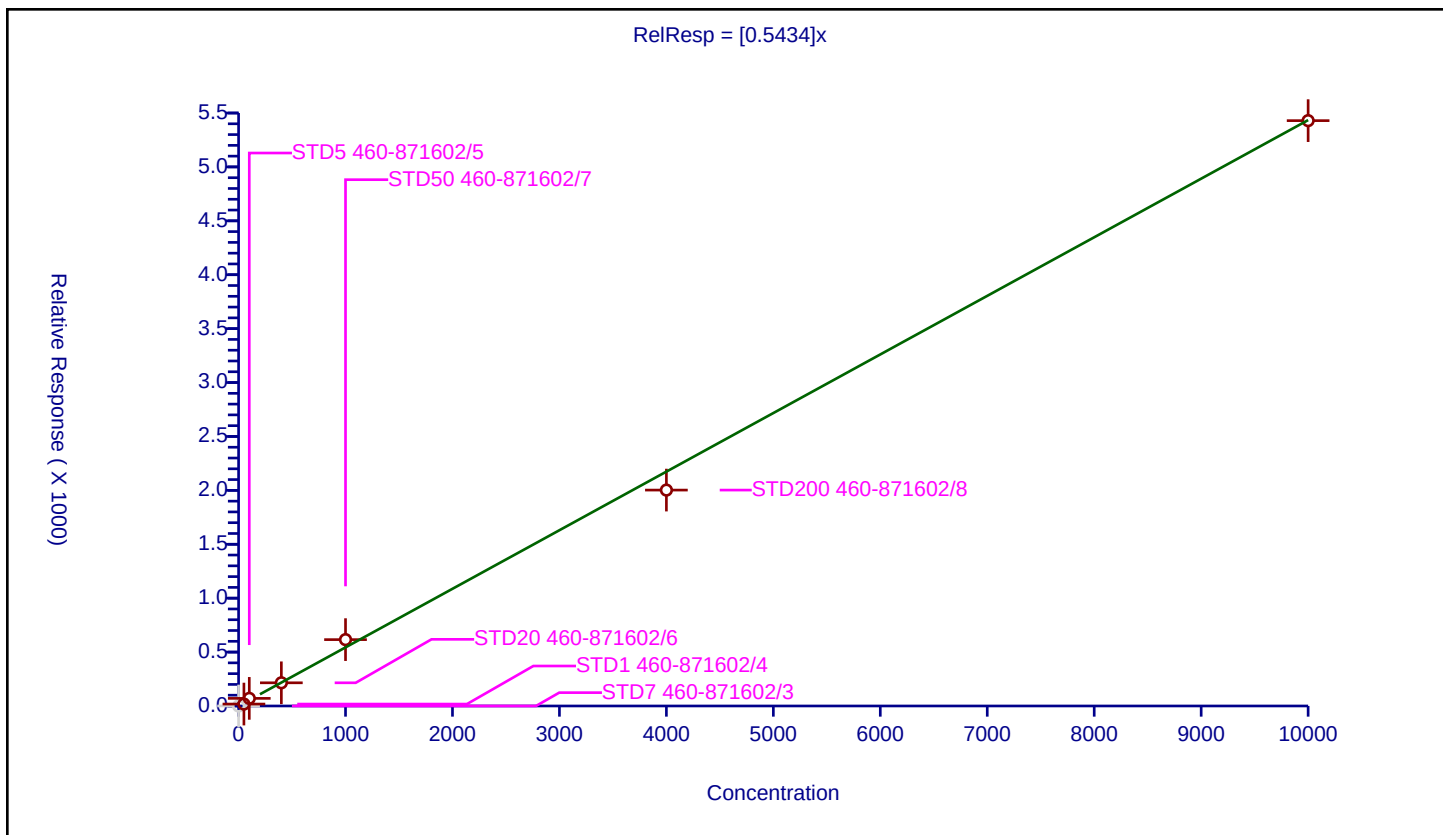
Curve Coefficients

Intercept: 0
Slope: 0.5434

Error Coefficients

Standard Error: 79400
Relative Standard Error: 21.3
Correlation Coefficient: 0.993
Coefficient of Determination (Adjusted): 0.949

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	1000.0	23304.0	NaN	N
2	STD1 460-871602/4	50.000062	17.958489	1000.0	24668.0	0.359169	Y
3	STD5 460-871602/5	100.0	70.495083	1000.0	23491.0	0.704951	Y
4	STD20 460-871602/6	400.0	215.022215	1000.0	23858.0	0.537556	Y
5	STD50 460-871602/7	1000.0	615.393413	1000.0	26232.0	0.615393	Y
6	STD200 460-871602/8	4000.0	2002.49566	1000.0	27648.0	0.500624	Y
7	STD500 460-871602/9	10000.0	5429.27529	1000.0	32068.0	0.542928	Y



Calibration

/ Dibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

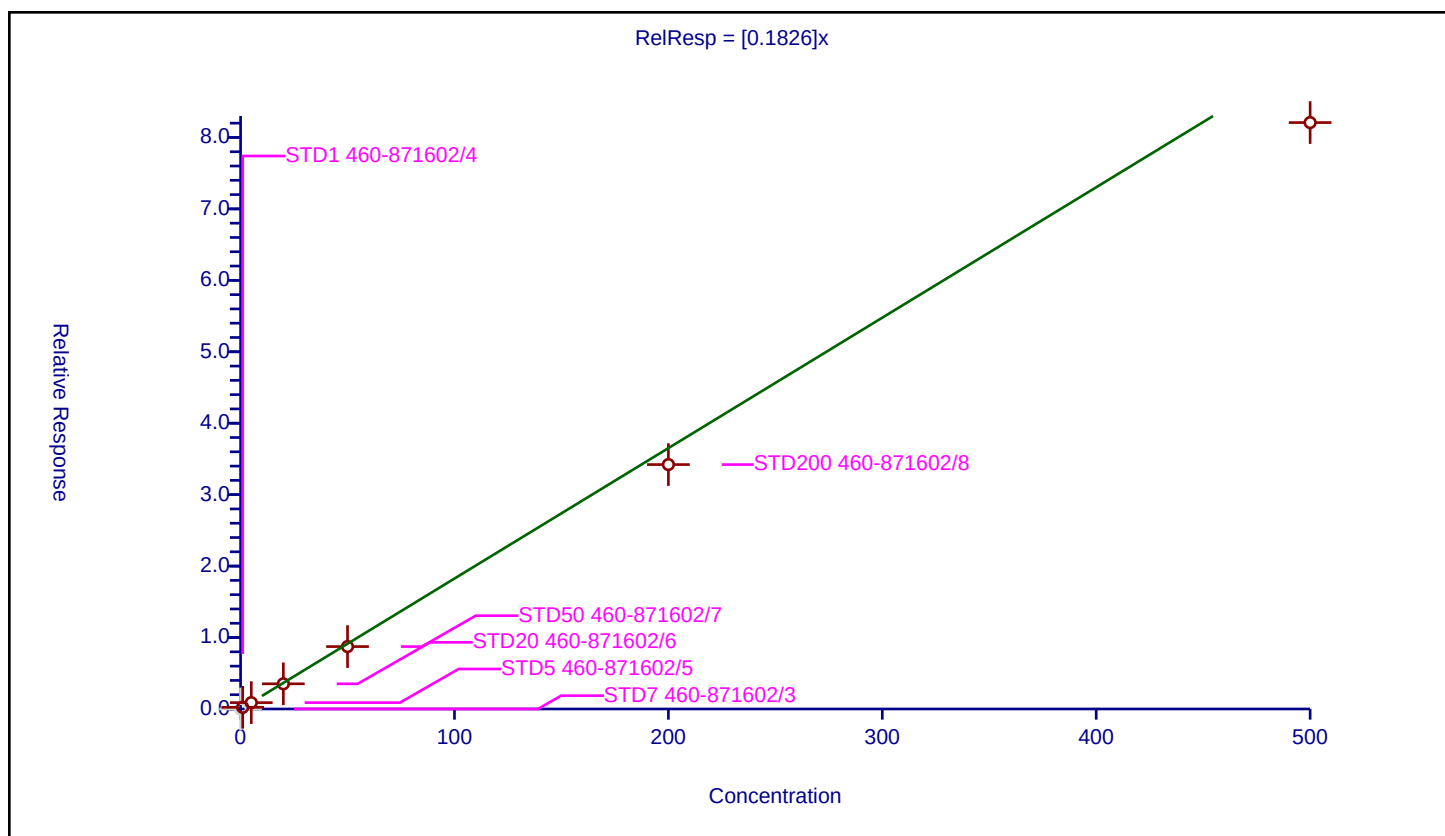
Curve Coefficients

Intercept: 0
Slope: 0.1826

Error Coefficients

Standard Error: 392000
Relative Standard Error: 13.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.231515	50.0	439281.0	0.231515	Y
3	STD5 460-871602/5	5.0	0.889127	50.0	453872.0	0.177825	Y
4	STD20 460-871602/6	20.0	3.522569	50.0	460431.0	0.176128	Y
5	STD50 460-871602/7	50.0	8.735073	50.0	468525.0	0.174701	Y
6	STD200 460-871602/8	200.0	34.21234	50.0	471631.0	0.171062	Y
7	STD500 460-871602/9	500.0	82.080814	50.0	493259.0	0.164162	Y



Calibration

/ n-Propyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

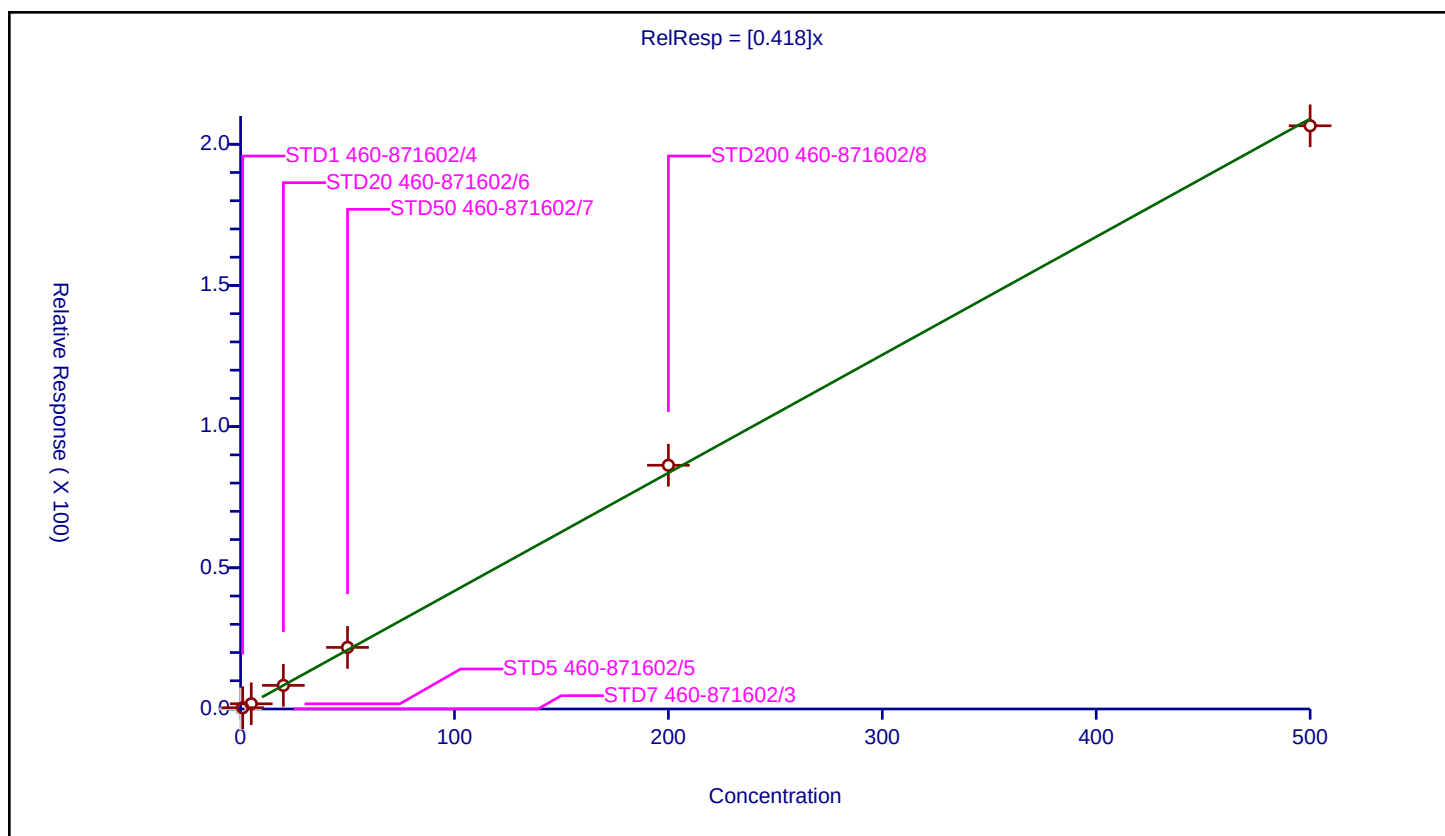
Curve Coefficients

Intercept: 0
 Slope: 0.418

Error Coefficients

Standard Error: 986000
 Relative Standard Error: 6.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.44072	50.0	439281.0	0.44072	Y
3	STD5 460-871602/5	5.0	1.8427	50.0	453872.0	0.36854	Y
4	STD20 460-871602/6	20.0	8.360862	50.0	460431.0	0.418043	Y
5	STD50 460-871602/7	50.0	21.812283	50.0	468525.0	0.436246	Y
6	STD200 460-871602/8	200.0	86.321616	50.0	471631.0	0.431608	Y
7	STD500 460-871602/9	500.0	206.546561	50.0	493259.0	0.413093	Y



Calibration

/ Dichlorobromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

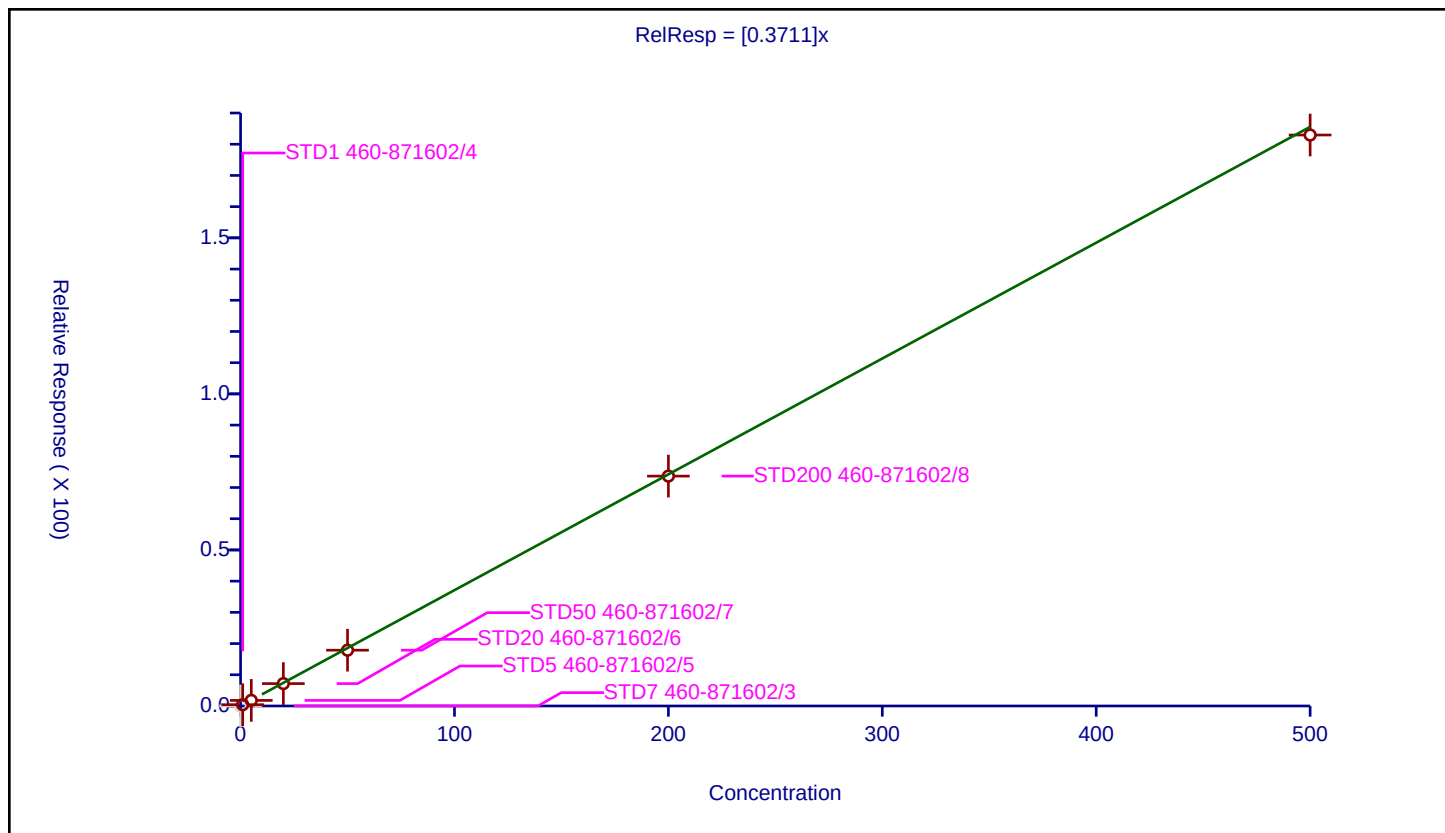
Curve Coefficients

Intercept: 0
 Slope: 0.3711

Error Coefficients

Standard Error: 869000
 Relative Standard Error: 6.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0	0.417387	50.0	439281.0	0.417387	Y
3	STD5 460-871602/5	5.0	1.793567	50.0	453872.0	0.358713	Y
4	STD20 460-871602/6	20.0	7.174039	50.0	460431.0	0.358702	Y
5	STD50 460-871602/7	50.0	17.879942	50.0	468525.0	0.357599	Y
6	STD200 460-871602/8	200.0	73.658644	50.0	471631.0	0.368293	Y
7	STD500 460-871602/9	500.0	182.949931	50.0	493259.0	0.3659	Y



Calibration

/ 2-Chloroethyl vinyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

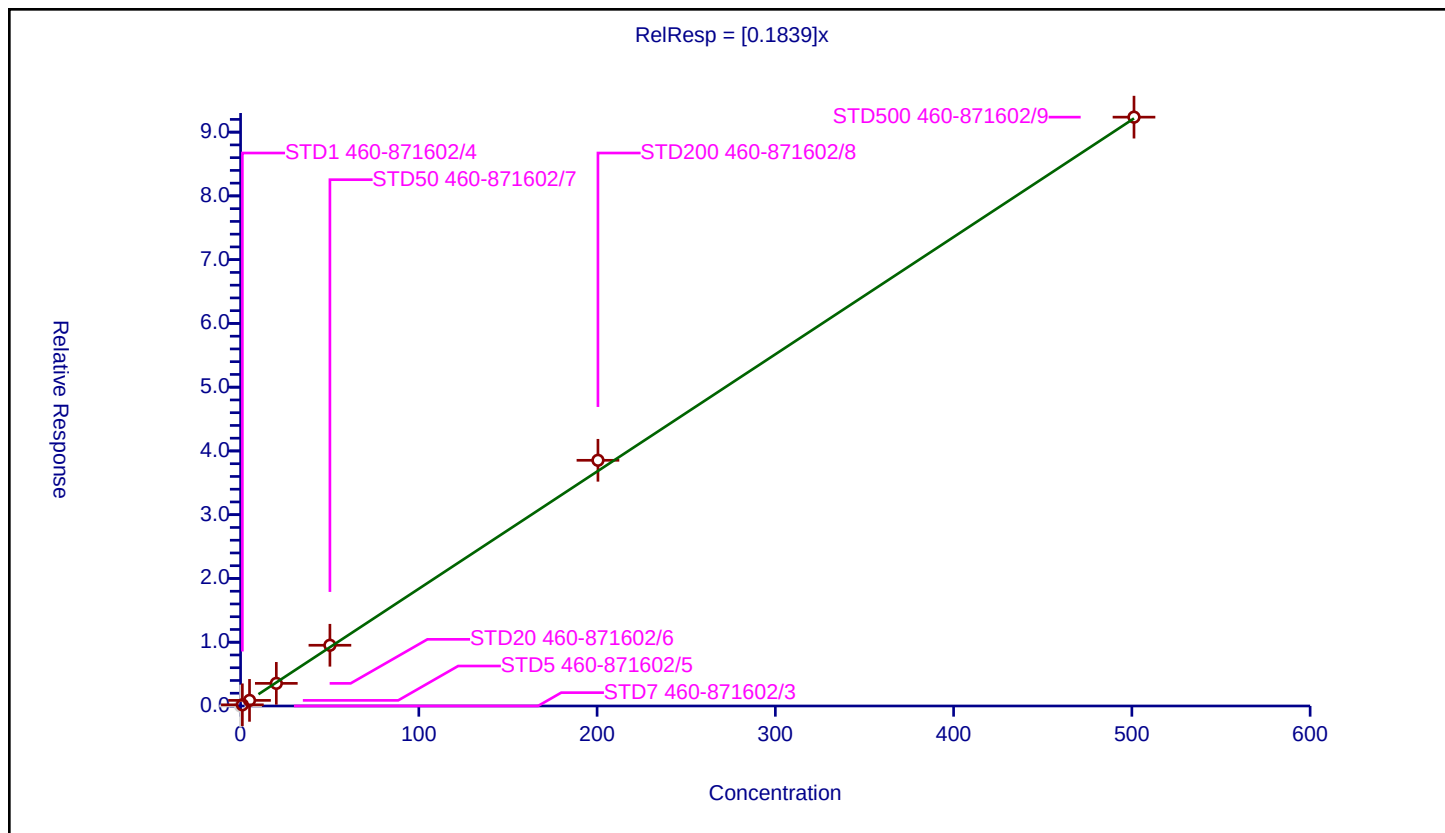
Curve Coefficients

Intercept: 0
 Slope: 0.1839

Error Coefficients

Standard Error: 441000
 Relative Standard Error: 3.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	447005.0	NaN	N
2	STD1 460-871602/4	1.0024	0.18462	50.0	439281.0	0.184178	Y
3	STD5 460-871602/5	5.012	0.879433	50.0	453872.0	0.175465	Y
4	STD20 460-871602/6	20.048	3.5495	50.0	460431.0	0.17705	Y
5	STD50 460-871602/7	50.12	9.524252	50.0	468525.0	0.190029	Y
6	STD200 460-871602/8	200.48	38.535423	50.0	471631.0	0.192216	Y
7	STD500 460-871602/9	501.2	92.353307	50.0	493259.0	0.184264	Y



Calibration

/ Epichlorohydrin

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

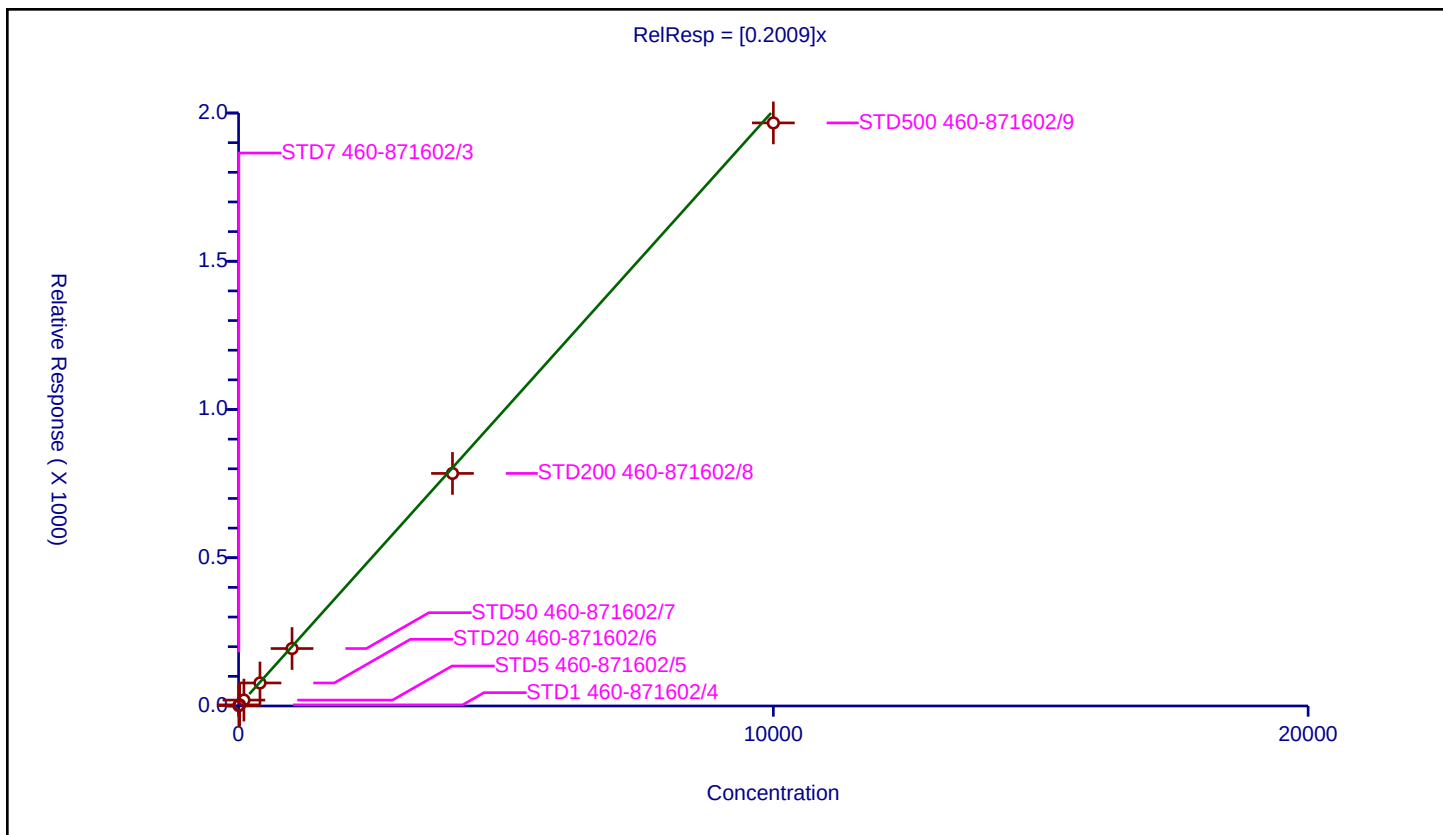
Curve Coefficients

Intercept: 0
 Slope: 0.2009

Error Coefficients

Standard Error: 1080000
 Relative Standard Error: 7.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	5.000009	1.17092	250.0	260052.0	0.234184	Y
2	STD1 460-871602/4	20.000035	3.838729	250.0	261610.0	0.191936	Y
3	STD5 460-871602/5	100.000173	19.915414	250.0	270494.0	0.199154	Y
4	STD20 460-871602/6	400.000692	77.708198	250.0	285282.0	0.19427	Y
5	STD50 460-871602/7	1000.00173	193.746014	250.0	308867.0	0.193746	Y
6	STD200 460-871602/8	4000.00692	784.431723	250.0	314688.0	0.196108	Y
7	STD500 460-871602/9	10000.0173	1966.586873	250.0	309968.0	0.196658	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

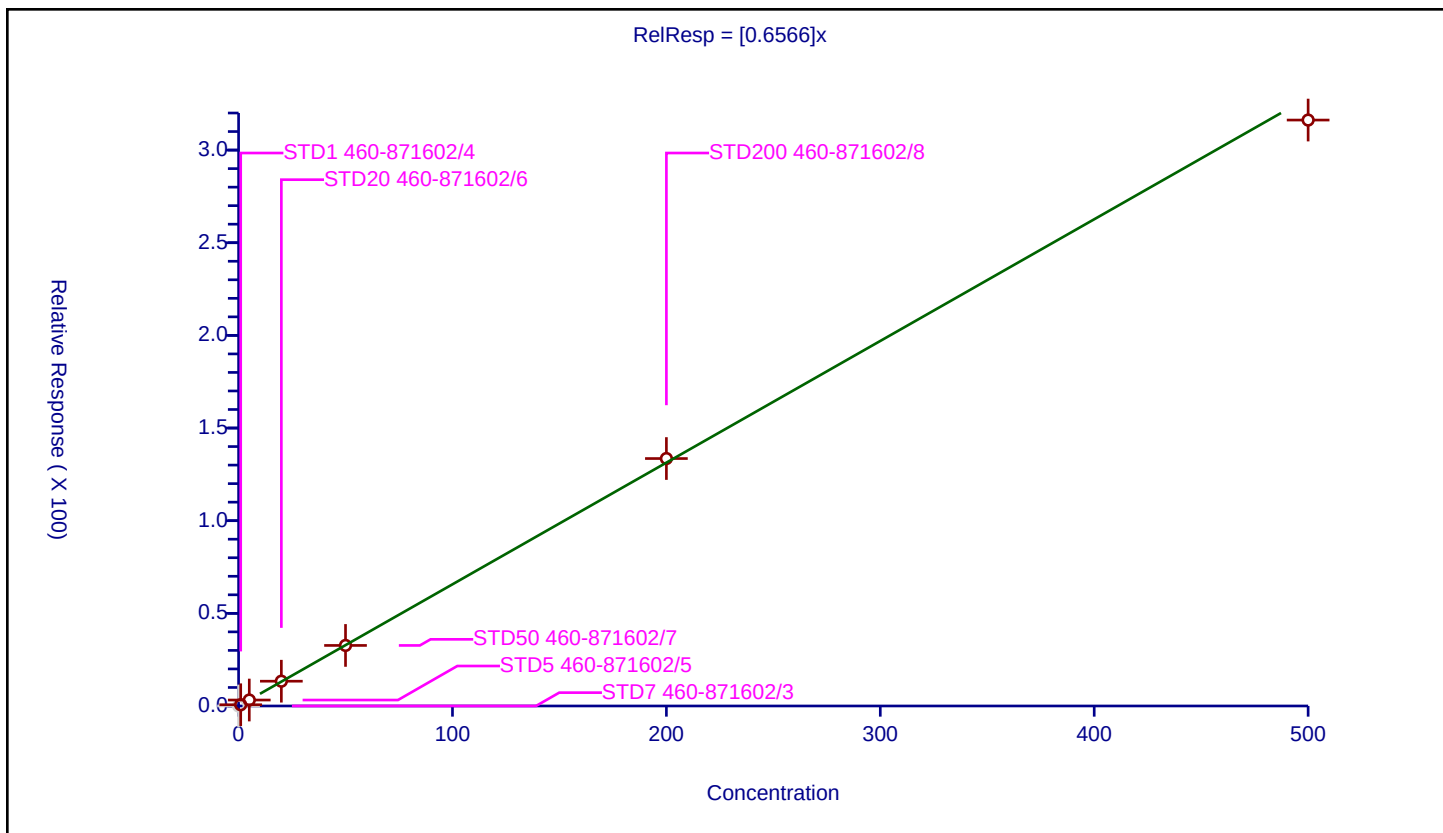
Curve Coefficients

Intercept: 0
 Slope: 0.6566

Error Coefficients

Standard Error: 1180000
 Relative Standard Error: 2.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	0.67373	50.0	345836.0	0.67373	Y
3	STD5 460-871602/5	5.0	3.217192	50.0	343778.0	0.643438	Y
4	STD20 460-871602/6	20.0	13.381389	50.0	344187.0	0.669069	Y
5	STD50 460-871602/7	50.0	32.674397	50.0	359266.0	0.653488	Y
6	STD200 460-871602/8	200.0	133.535531	50.0	362022.0	0.667678	Y
7	STD500 460-871602/9	500.0	316.204343	50.0	387427.0	0.632409	Y



Calibration

/ 4-Methyl-2-pentanone (MIBK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

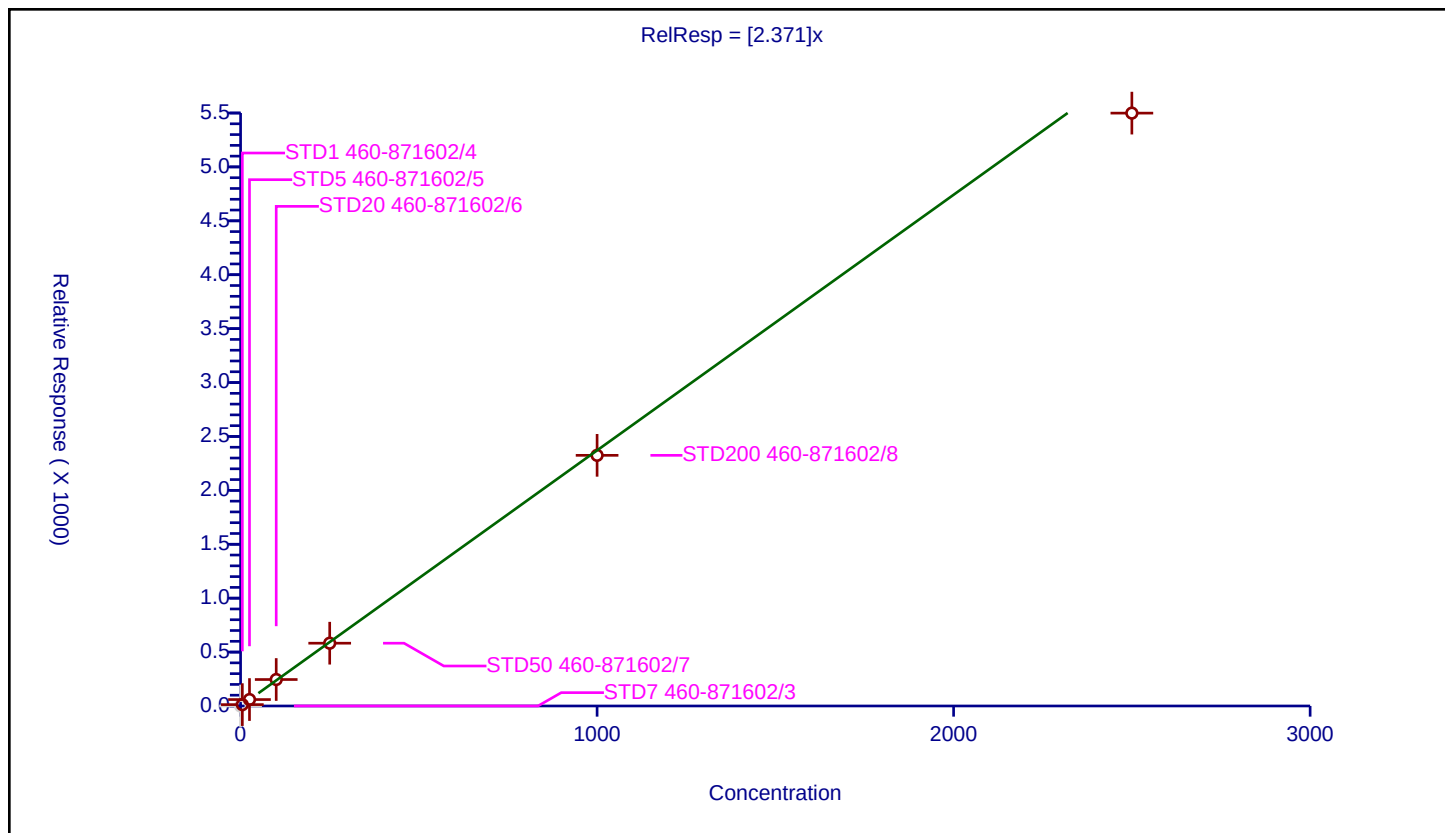
Curve Coefficients

Intercept: 0
 Slope: 2.371

Error Coefficients

Standard Error: 3330000
 Relative Standard Error: 4.8
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	250.0	260052.0	NaN	N
2	STD1 460-871602/4	5.0	12.624709	250.0	261610.0	2.524942	Y
3	STD5 460-871602/5	25.0	59.787833	250.0	270494.0	2.391513	Y
4	STD20 460-871602/6	100.0	245.38965	250.0	285282.0	2.453896	Y
5	STD50 460-871602/7	250.0	582.442443	250.0	308867.0	2.32977	Y
6	STD200 460-871602/8	1000.0	2324.833645	250.0	314688.0	2.324834	Y
7	STD500 460-871602/9	2500.0	5499.086196	250.0	309968.0	2.199634	Y



Calibration

/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

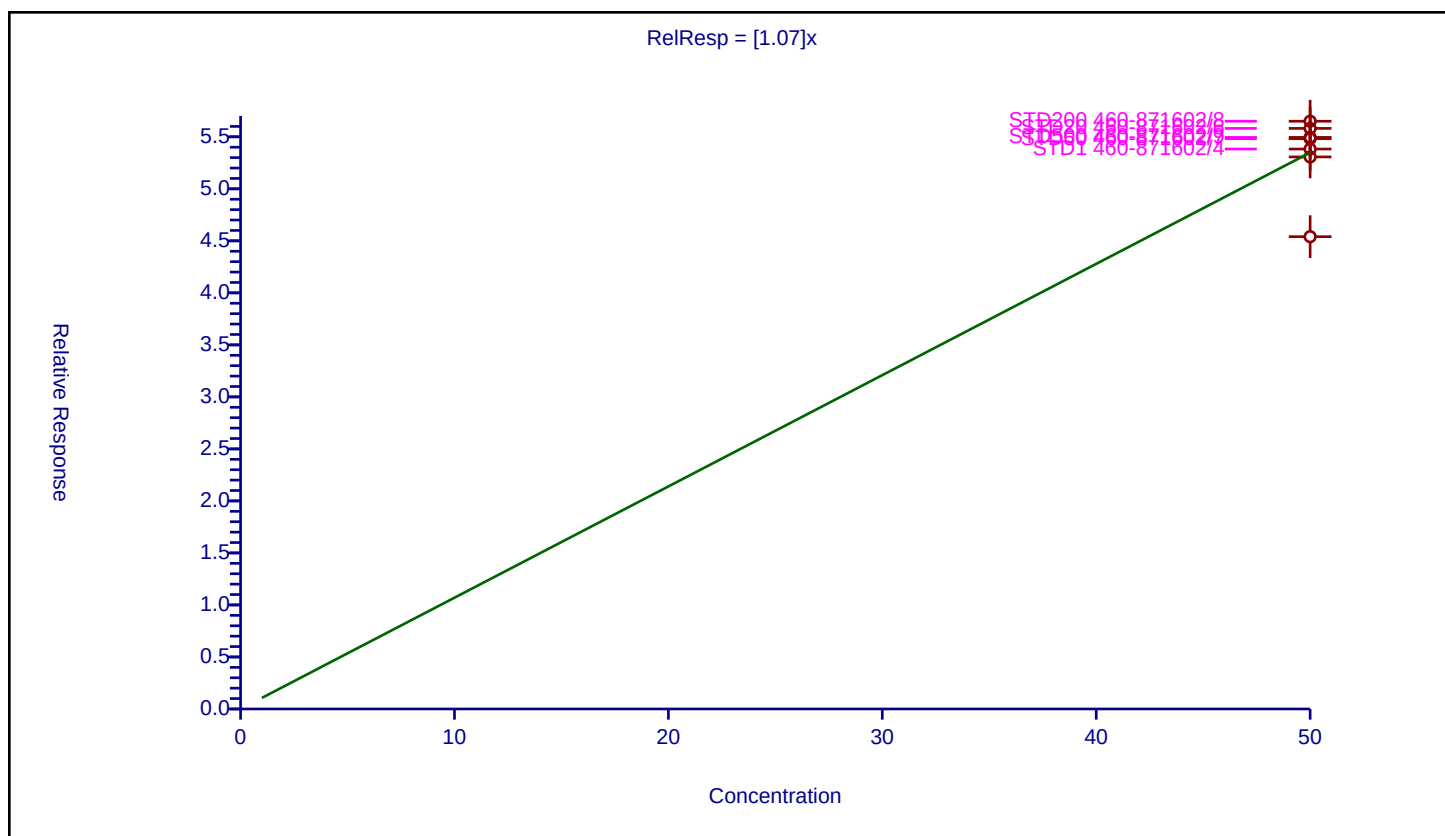
Curve Coefficients

Intercept: 0
 Slope: 1.07

Error Coefficients

Standard Error: 414000
 Relative Standard Error: 7.0
 Correlation Coefficient: 0.00000000000000000000
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	50.0	53.068079	50.0	351311.0	1.061362	Y
2	STD1 460-871602/4	50.0	53.825657	50.0	345836.0	1.076513	Y
3	STD5 460-871602/5	50.0	45.403138	50.0	343778.0	0.908063	Y
4	STD20 460-871602/6	50.0	55.811521	50.0	344187.0	1.11623	Y
5	STD50 460-871602/7	50.0	54.82275	50.0	359266.0	1.096455	Y
6	STD200 460-871602/8	50.0	56.499881	50.0	362022.0	1.129998	Y
7	STD500 460-871602/9	50.0	54.945319	50.0	387427.0	1.098906	Y



Calibration

/ Toluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

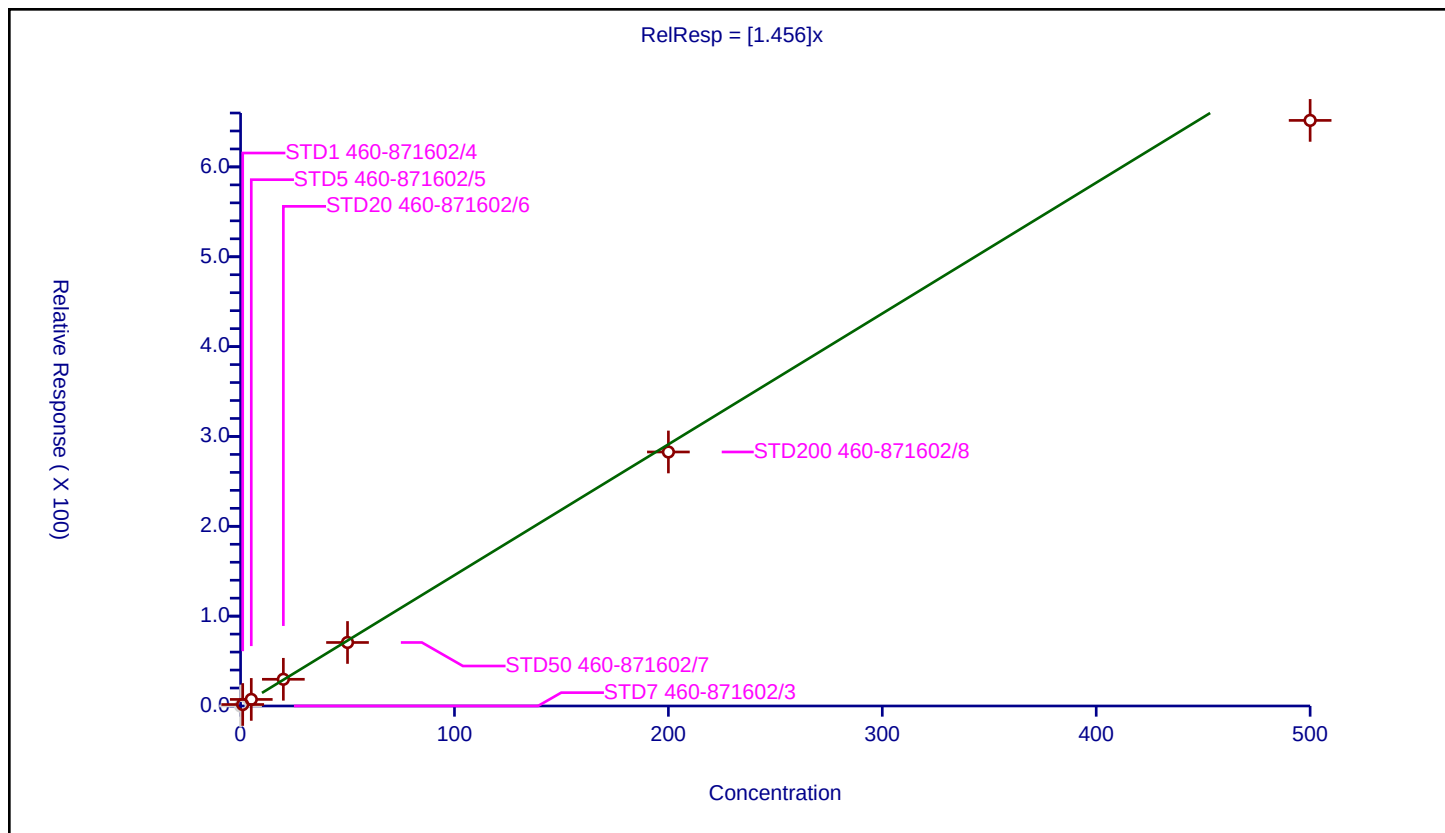
Curve Coefficients

Intercept: 0
 Slope: 1.456

Error Coefficients

Standard Error: 2450000
 Relative Standard Error: 8.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	1.657144	50.0	345836.0	1.657144	Y
3	STD5 460-871602/5	5.0	7.31155	50.0	343778.0	1.46231	Y
4	STD20 460-871602/6	20.0	29.719164	50.0	344187.0	1.485958	Y
5	STD50 460-871602/7	50.0	70.698591	50.0	359266.0	1.413972	Y
6	STD200 460-871602/8	200.0	282.710581	50.0	362022.0	1.413553	Y
7	STD500 460-871602/9	500.0	651.767301	50.0	387427.0	1.303535	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

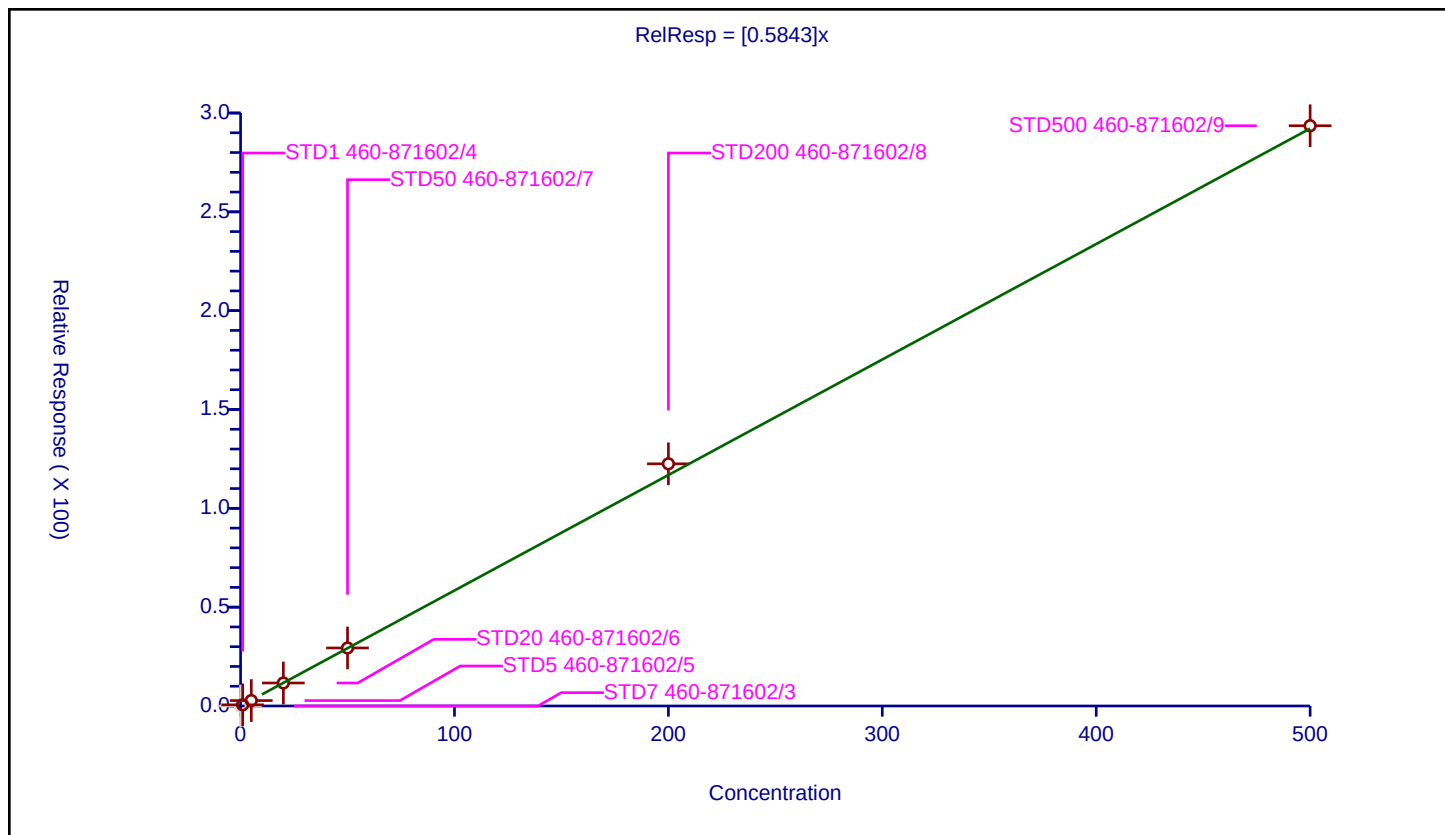
Curve Coefficients

Intercept: 0
 Slope: 0.5843

Error Coefficients

Standard Error: 1100000
 Relative Standard Error: 3.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	0.587417	50.0	345836.0	0.587417	Y
3	STD5 460-871602/5	5.0	2.749885	50.0	343778.0	0.549977	Y
4	STD20 460-871602/6	20.0	11.633502	50.0	344187.0	0.581675	Y
5	STD50 460-871602/7	50.0	29.348032	50.0	359266.0	0.586961	Y
6	STD200 460-871602/8	200.0	122.524322	50.0	362022.0	0.612622	Y
7	STD500 460-871602/9	500.0	293.560593	50.0	387427.0	0.587121	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

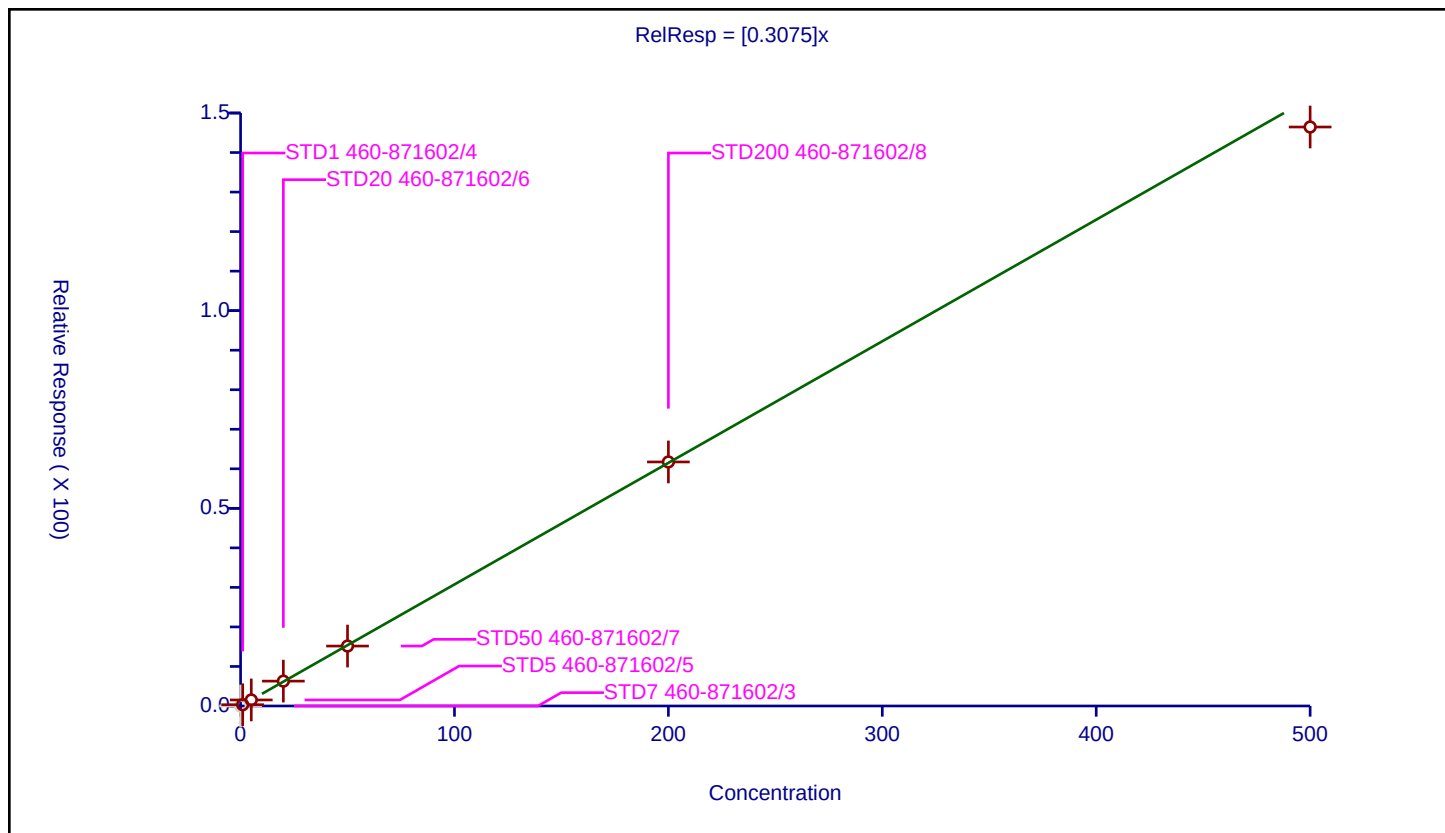
Curve Coefficients

Intercept: 0
Slope: 0.3075

Error Coefficients

Standard Error: 548000
Relative Standard Error: 3.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	0.320094	50.0	345836.0	0.320094	Y
3	STD5 460-871602/5	5.0	1.528894	50.0	343778.0	0.305779	Y
4	STD20 460-871602/6	20.0	6.289314	50.0	344187.0	0.314466	Y
5	STD50 460-871602/7	50.0	15.162303	50.0	359266.0	0.303246	Y
6	STD200 460-871602/8	200.0	61.732022	50.0	362022.0	0.30866	Y
7	STD500 460-871602/9	500.0	146.461785	50.0	387427.0	0.292924	Y



Calibration

/ Tetrachloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

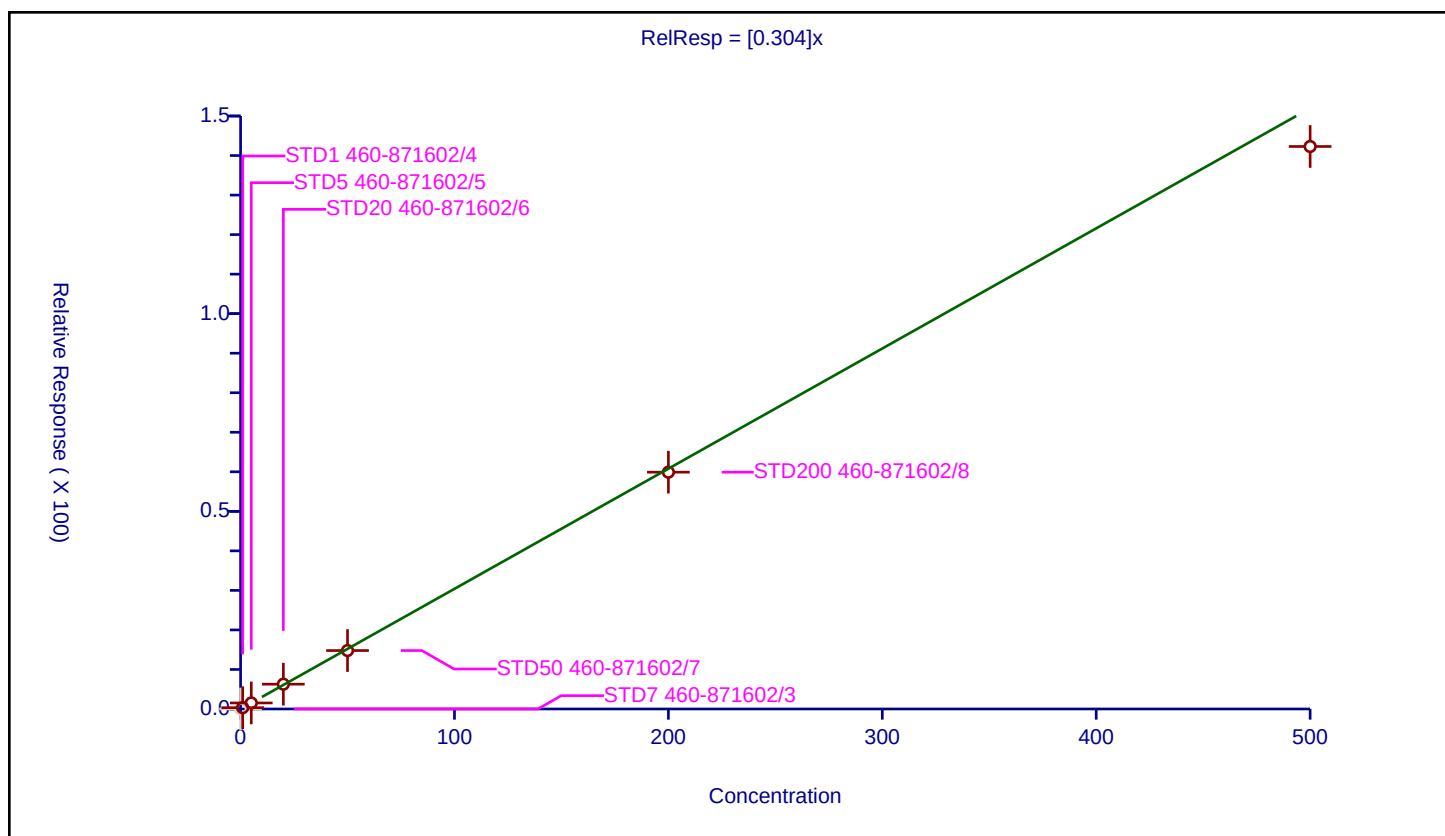
Curve Coefficients

Intercept: 0
 Slope: 0.304

Error Coefficients

Standard Error: 532000
 Relative Standard Error: 4.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	0.32501	50.0	345836.0	0.32501	Y
3	STD5 460-871602/5	5.0	1.524967	50.0	343778.0	0.304993	Y
4	STD20 460-871602/6	20.0	6.278273	50.0	344187.0	0.313914	Y
5	STD50 460-871602/7	50.0	14.785563	50.0	359266.0	0.295711	Y
6	STD200 460-871602/8	200.0	59.902575	50.0	362022.0	0.299513	Y
7	STD500 460-871602/9	500.0	142.291838	50.0	387427.0	0.284584	Y



Calibration

/ 1,3-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

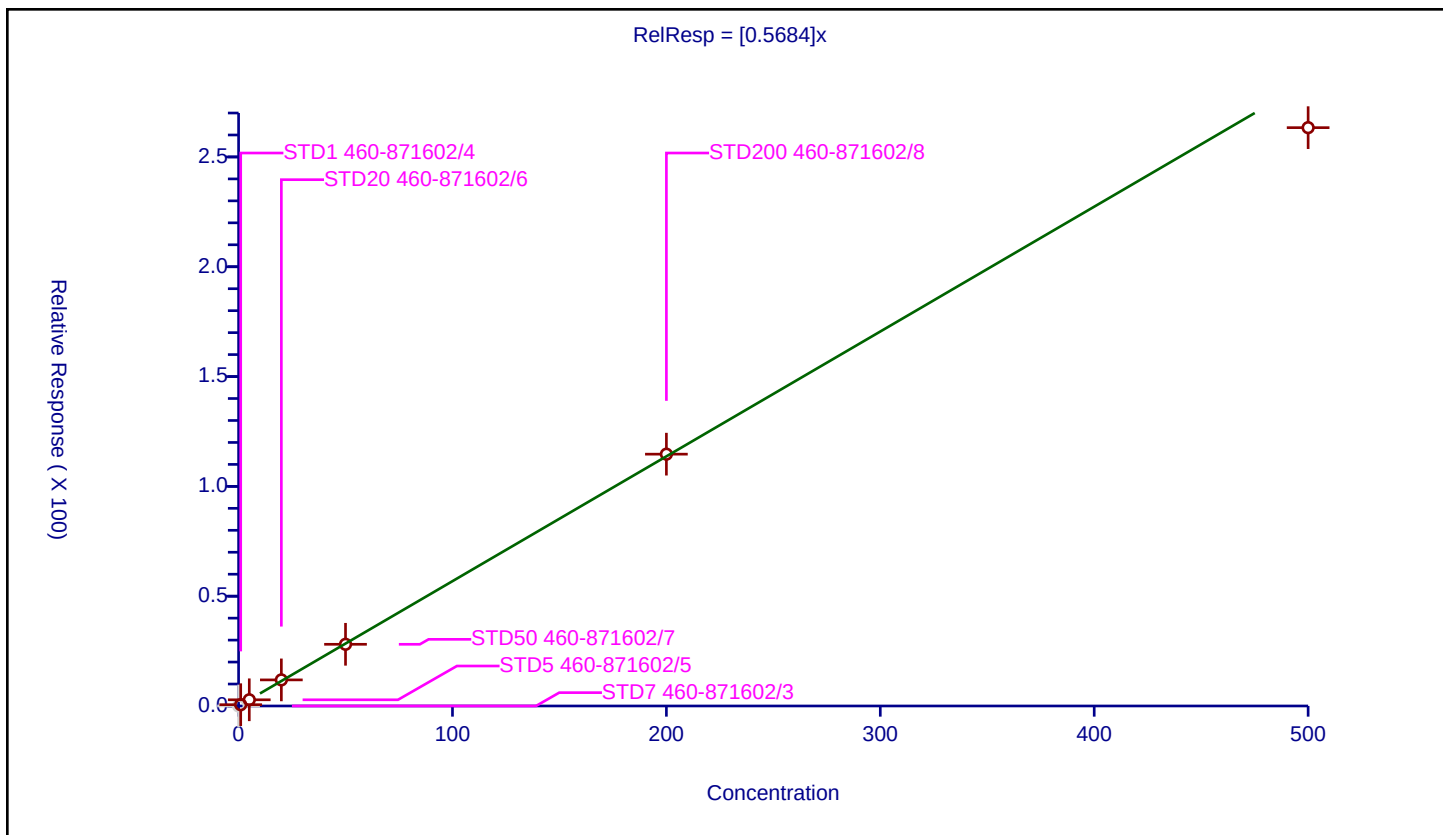
Curve Coefficients

Intercept: 0
 Slope: 0.5684

Error Coefficients

Standard Error: 990000
 Relative Standard Error: 4.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	0.590598	50.0	345836.0	0.590598	Y
3	STD5 460-871602/5	5.0	2.818825	50.0	343778.0	0.563765	Y
4	STD20 460-871602/6	20.0	11.881332	50.0	344187.0	0.594067	Y
5	STD50 460-871602/7	50.0	28.089354	50.0	359266.0	0.561787	Y
6	STD200 460-871602/8	200.0	114.664993	50.0	362022.0	0.573325	Y
7	STD500 460-871602/9	500.0	263.328317	50.0	387427.0	0.526657	Y



Calibration

/ 2-Hexanone

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

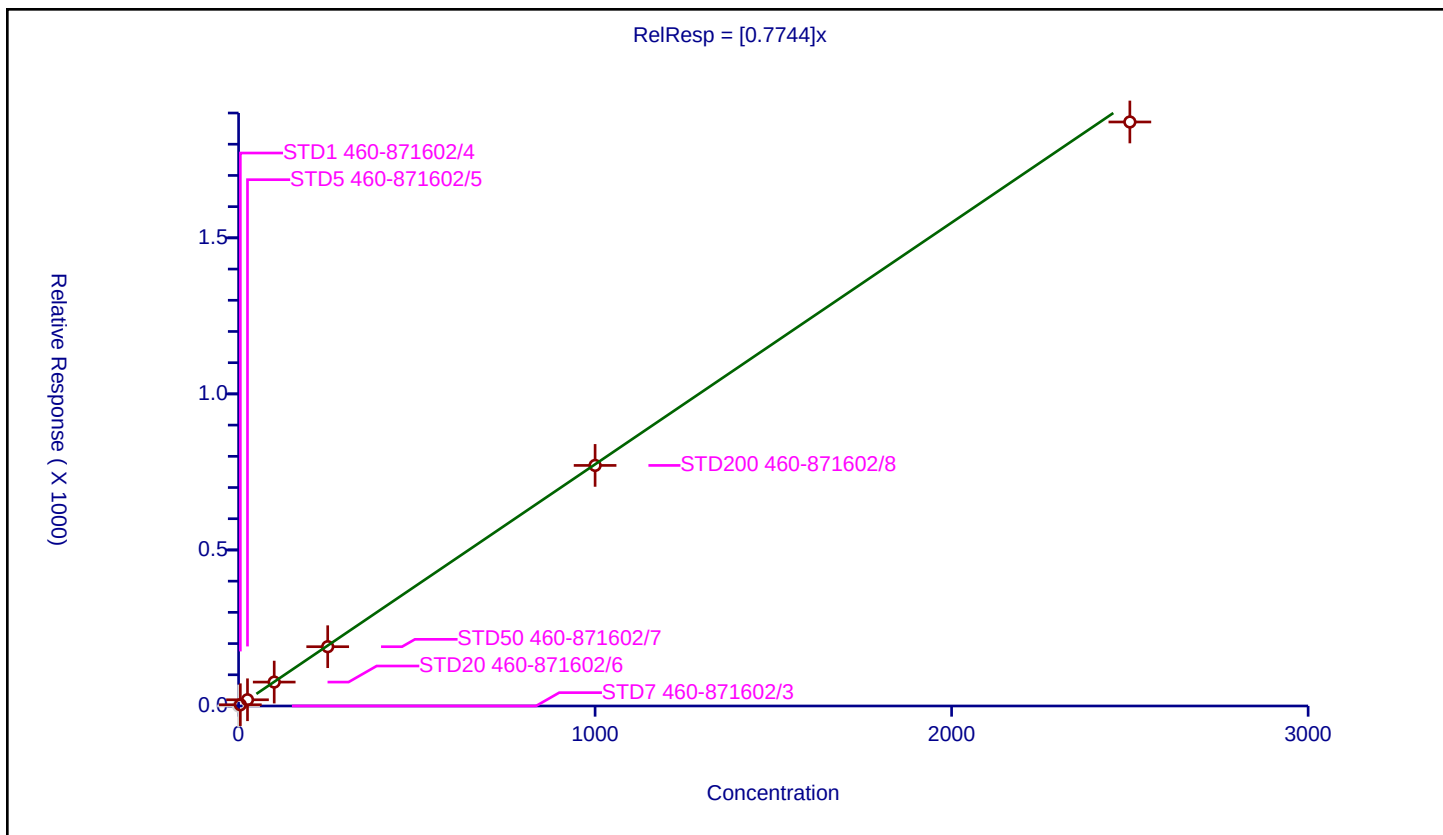
Curve Coefficients

Intercept: 0
 Slope: 0.7744

Error Coefficients

Standard Error: 1130000
 Relative Standard Error: 2.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	250.0	260052.0	NaN	N
2	STD1 460-871602/4	5.0	4.012652	250.0	261610.0	0.80253	Y
3	STD5 460-871602/5	25.0	19.963474	250.0	270494.0	0.798539	Y
4	STD20 460-871602/6	100.0	76.593511	250.0	285282.0	0.765935	Y
5	STD50 460-871602/7	250.0	189.974973	250.0	308867.0	0.7599	Y
6	STD200 460-871602/8	1000.0	770.825389	250.0	314688.0	0.770825	Y
7	STD500 460-871602/9	2500.0	1871.28994	250.0	309968.0	0.748516	Y



Calibration

/ n-Butyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

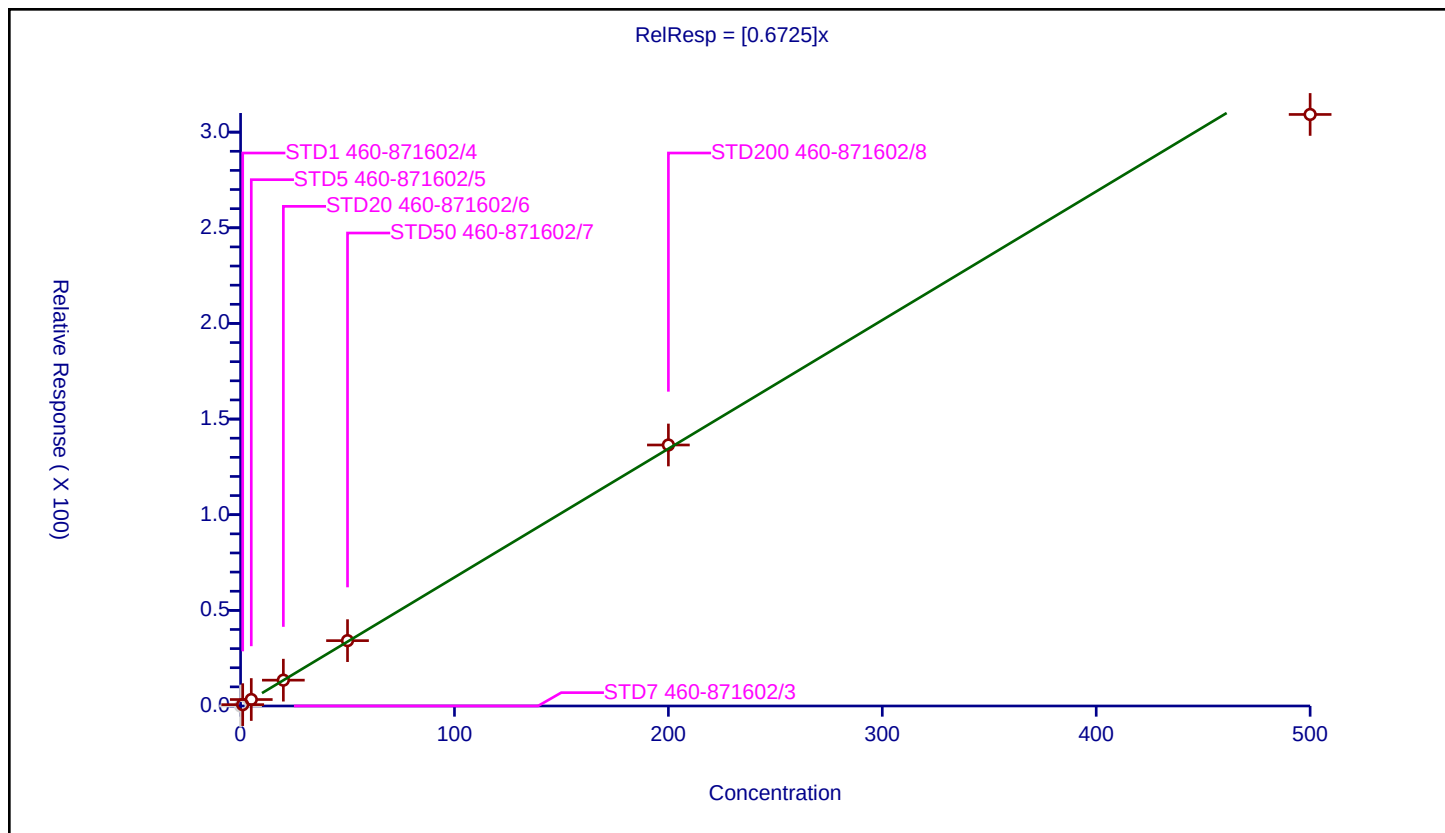
Curve Coefficients

Intercept: 0
 Slope: 0.6725

Error Coefficients

Standard Error: 1160000
 Relative Standard Error: 4.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	0.700477	50.0	345836.0	0.700477	Y
3	STD5 460-871602/5	5.0	3.374852	50.0	343778.0	0.67497	Y
4	STD20 460-871602/6	20.0	13.507483	50.0	344187.0	0.675374	Y
5	STD50 460-871602/7	50.0	34.165215	50.0	359266.0	0.683304	Y
6	STD200 460-871602/8	200.0	136.447094	50.0	362022.0	0.682235	Y
7	STD500 460-871602/9	500.0	309.244193	50.0	387427.0	0.618488	Y



Calibration

/ Chlorodibromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

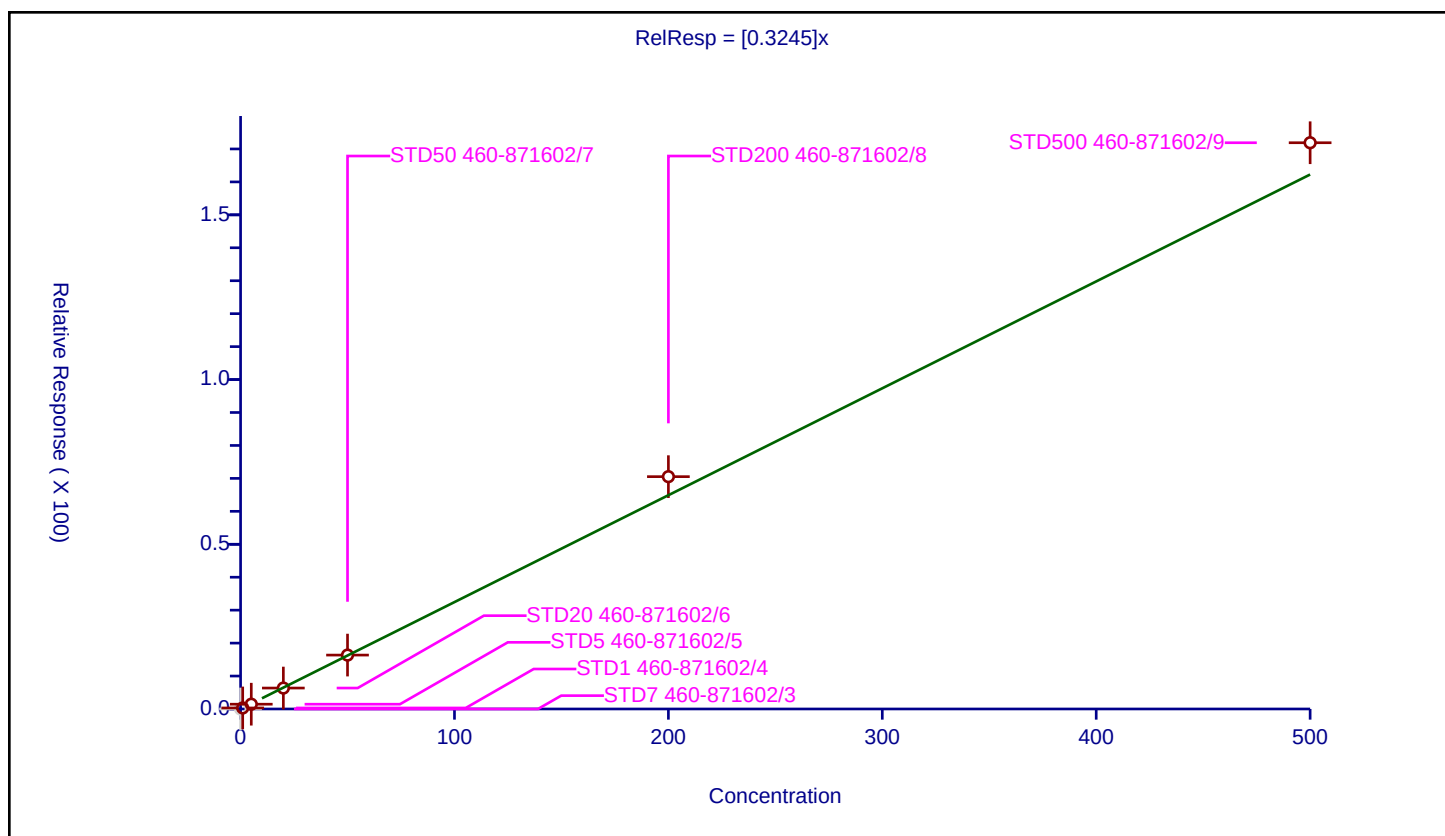
Curve Coefficients

Intercept: 0
 Slope: 0.3245

Error Coefficients

Standard Error: 640000
 Relative Standard Error: 6.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	0.314166	50.0	345836.0	0.314166	Y
3	STD5 460-871602/5	5.0	1.456609	50.0	343778.0	0.291322	Y
4	STD20 460-871602/6	20.0	6.354395	50.0	344187.0	0.31772	Y
5	STD50 460-871602/7	50.0	16.36225	50.0	359266.0	0.327245	Y
6	STD200 460-871602/8	200.0	70.523753	50.0	362022.0	0.352619	Y
7	STD500 460-871602/9	500.0	171.887865	50.0	387427.0	0.343776	Y



Calibration

/ Ethylene Dibromide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

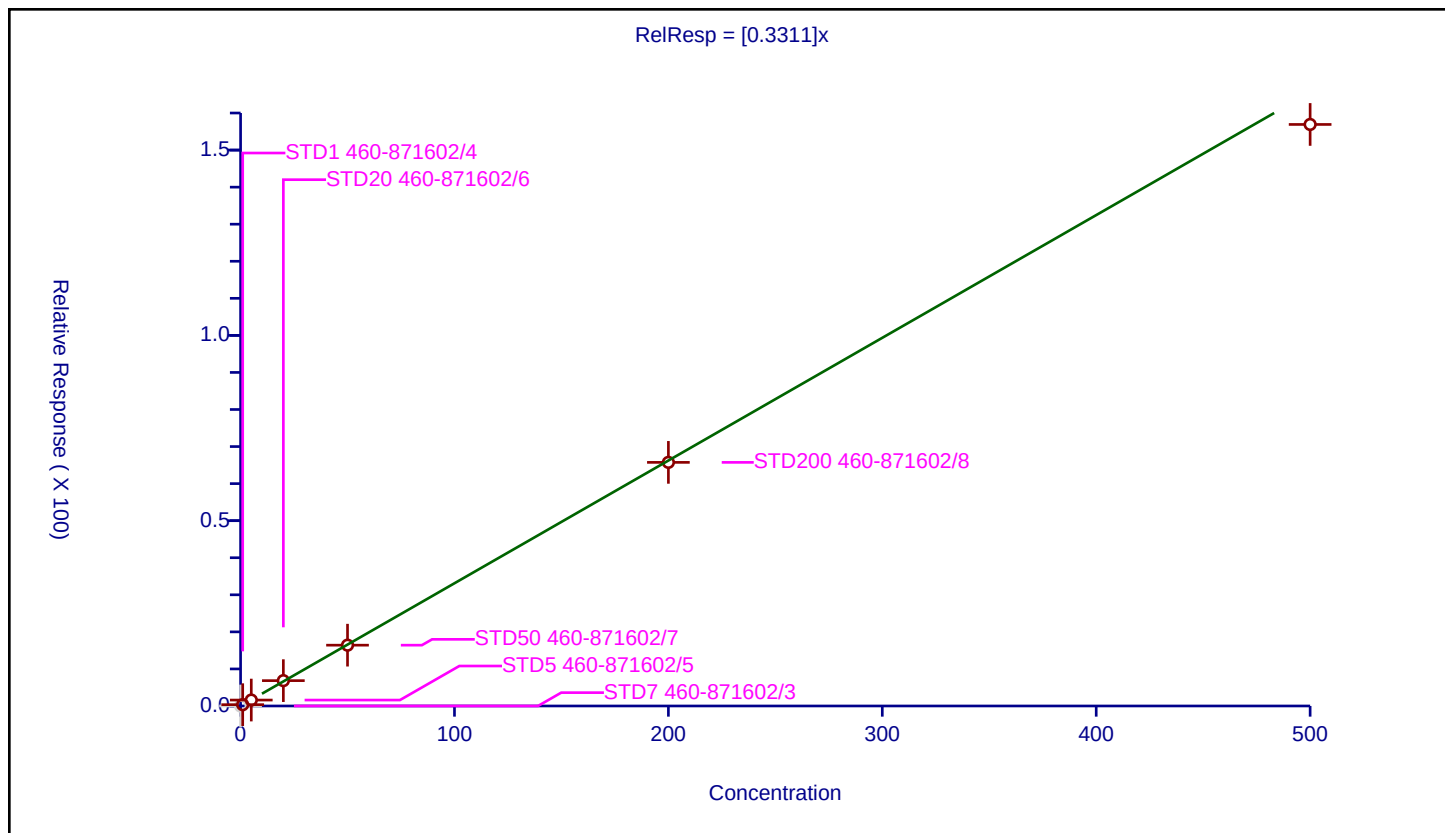
Curve Coefficients

Intercept: 0
 Slope: 0.3311

Error Coefficients

Standard Error: 587000
 Relative Standard Error: 4.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	0.353925	50.0	345836.0	0.353925	Y
3	STD5 460-871602/5	5.0	1.602488	50.0	343778.0	0.320498	Y
4	STD20 460-871602/6	20.0	6.835674	50.0	344187.0	0.341784	Y
5	STD50 460-871602/7	50.0	16.406367	50.0	359266.0	0.328127	Y
6	STD200 460-871602/8	200.0	65.730674	50.0	362022.0	0.328653	Y
7	STD500 460-871602/9	500.0	156.916658	50.0	387427.0	0.313833	Y



Calibration

/ Chlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

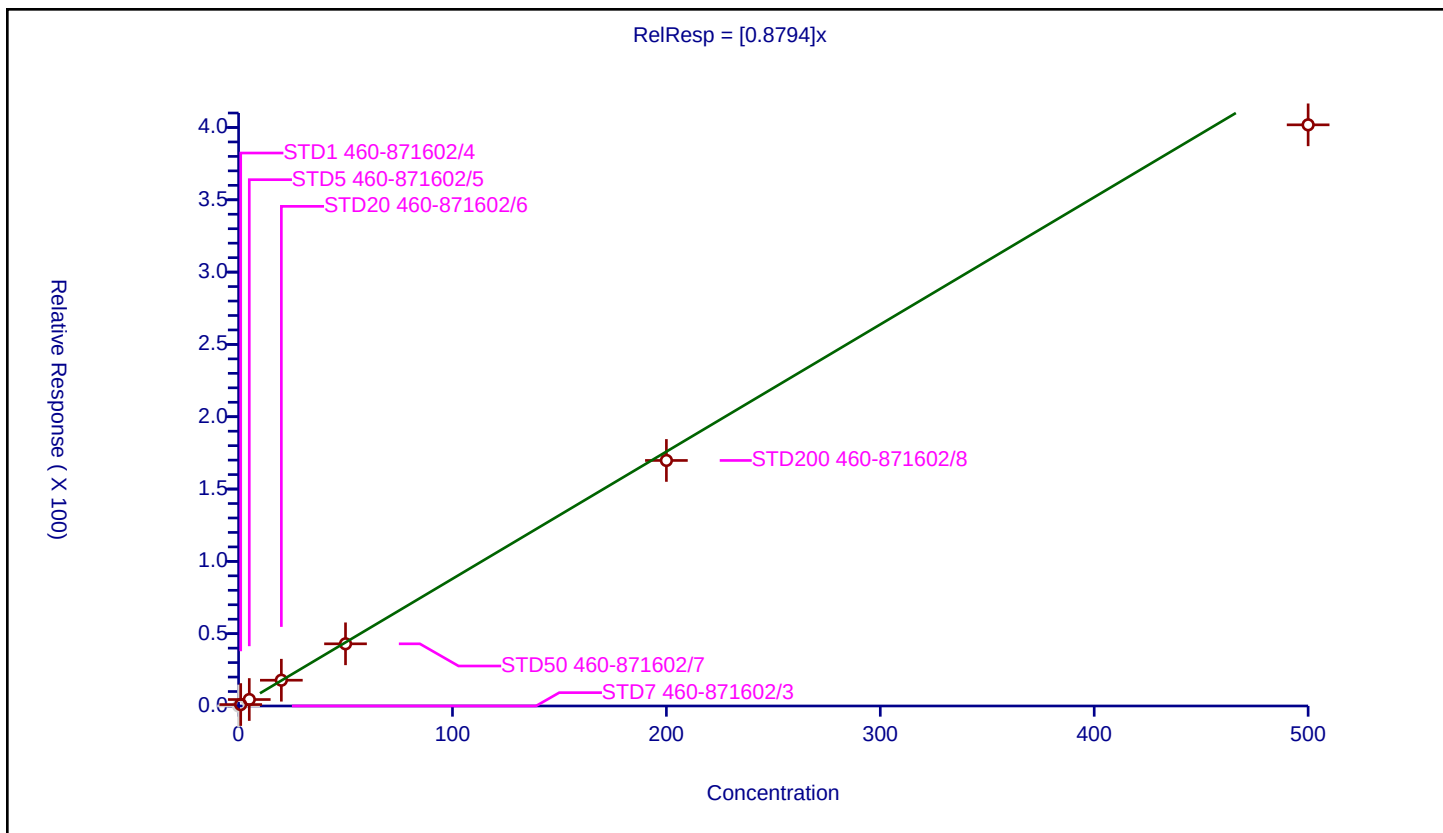
Curve Coefficients

Intercept: 0
 Slope: 0.8794

Error Coefficients

Standard Error: 1500000
 Relative Standard Error: 6.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	0.977776	50.0	345836.0	0.977776	Y
3	STD5 460-871602/5	5.0	4.476435	50.0	343778.0	0.895287	Y
4	STD20 460-871602/6	20.0	17.826065	50.0	344187.0	0.891303	Y
5	STD50 460-871602/7	50.0	42.986812	50.0	359266.0	0.859736	Y
6	STD200 460-871602/8	200.0	169.760678	50.0	362022.0	0.848803	Y
7	STD500 460-871602/9	500.0	401.838024	50.0	387427.0	0.803676	Y



Calibration

/ Ethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

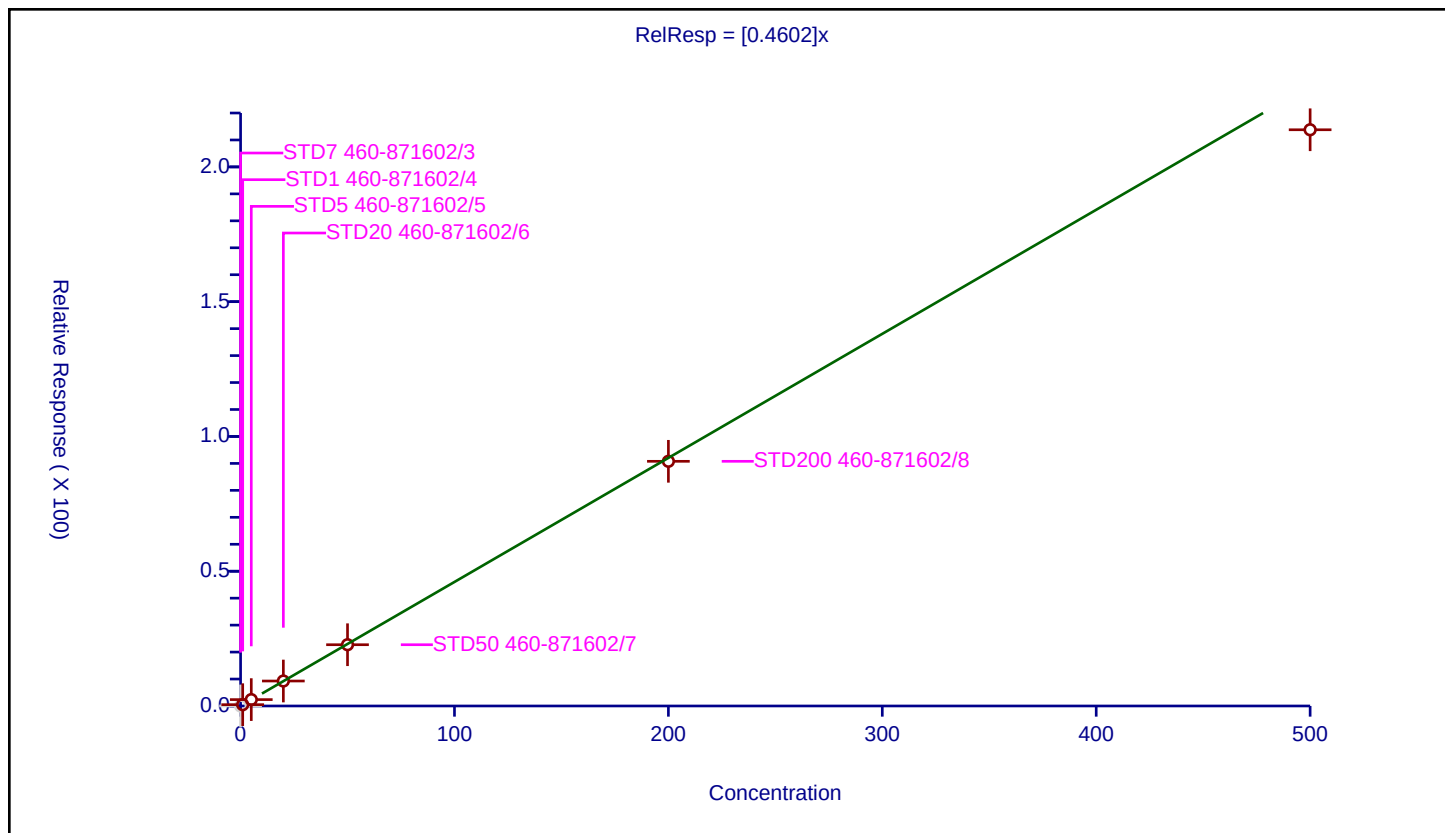
Curve Coefficients

Intercept: 0
 Slope: 0.4602

Error Coefficients

Standard Error: 801000
 Relative Standard Error: 4.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.010105	50.0	351311.0		N
2	STD1 460-871602/4	1.0	0.487225	50.0	345836.0	0.487225	Y
3	STD5 460-871602/5	5.0	2.372752	50.0	343778.0	0.47455	Y
4	STD20 460-871602/6	20.0	9.270106	50.0	344187.0	0.463505	Y
5	STD50 460-871602/7	50.0	22.733852	50.0	359266.0	0.454677	Y
6	STD200 460-871602/8	200.0	90.775146	50.0	362022.0	0.453876	Y
7	STD500 460-871602/9	500.0	213.784532	50.0	387427.0	0.427569	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

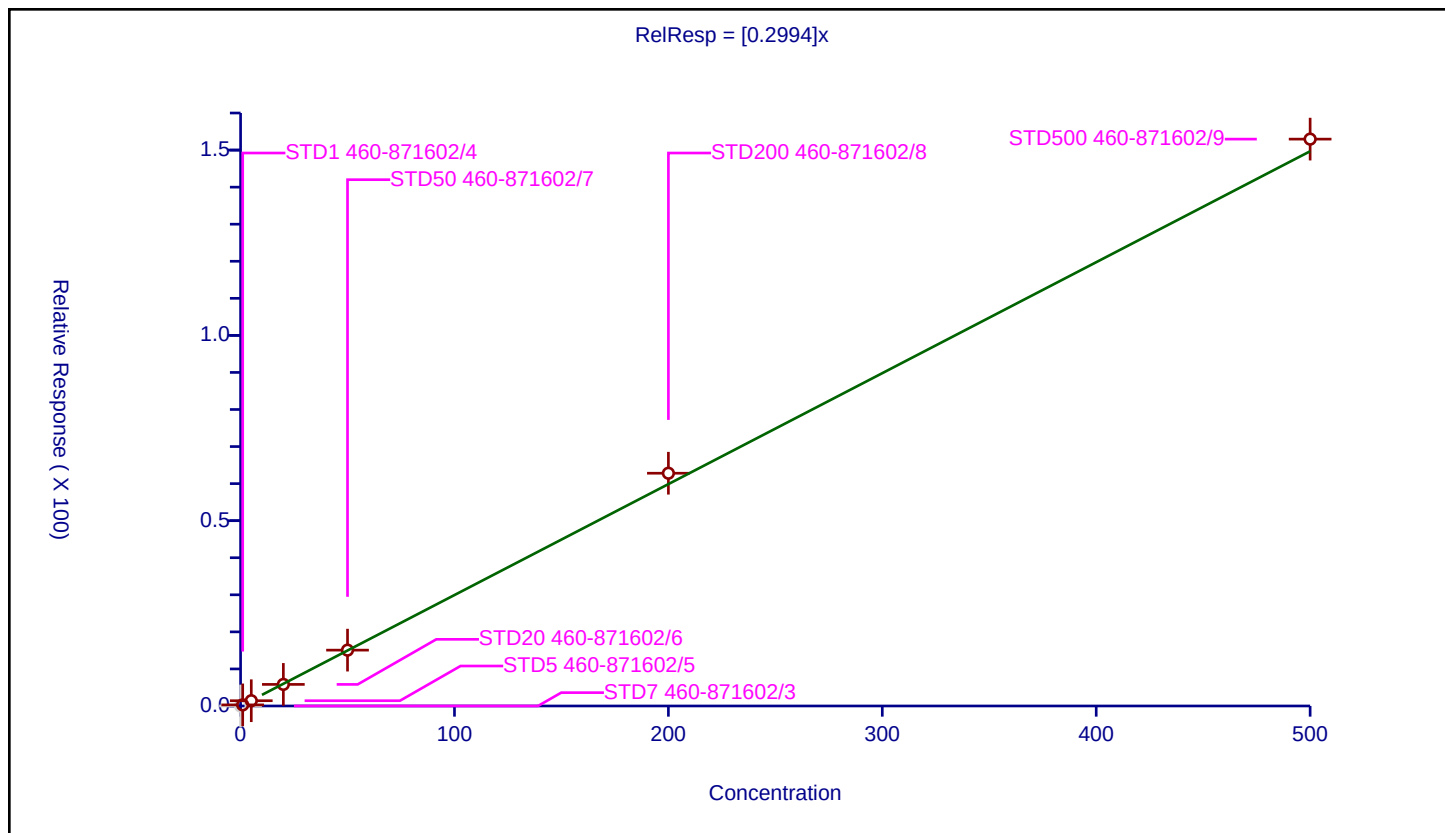
Curve Coefficients

Intercept: 0
 Slope: 0.2994

Error Coefficients

Standard Error: 570000
 Relative Standard Error: 3.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	0.299709	50.0	345836.0	0.299709	Y
3	STD5 460-871602/5	5.0	1.419812	50.0	343778.0	0.283962	Y
4	STD20 460-871602/6	20.0	5.822416	50.0	344187.0	0.291121	Y
5	STD50 460-871602/7	50.0	15.069197	50.0	359266.0	0.301384	Y
6	STD200 460-871602/8	200.0	62.803089	50.0	362022.0	0.314015	Y
7	STD500 460-871602/9	500.0	152.958622	50.0	387427.0	0.305917	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

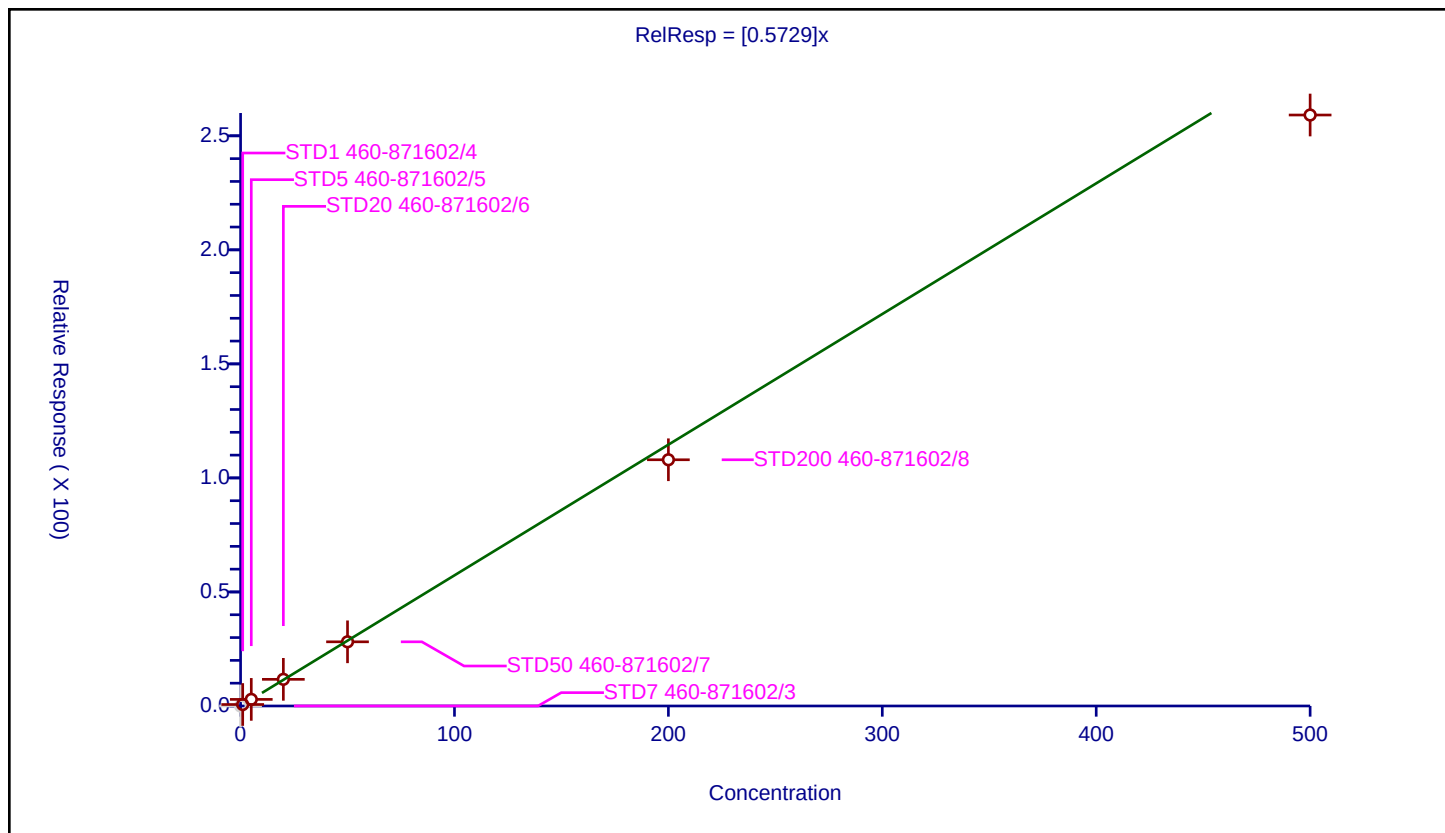
Curve Coefficients

Intercept: 0
 Slope: 0.5729

Error Coefficients

Standard Error: 968000
 Relative Standard Error: 8.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	0.652621	50.0	345836.0	0.652621	Y
3	STD5 460-871602/5	5.0	2.896346	50.0	343778.0	0.579269	Y
4	STD20 460-871602/6	20.0	11.688849	50.0	344187.0	0.584442	Y
5	STD50 460-871602/7	50.0	28.142797	50.0	359266.0	0.562856	Y
6	STD200 460-871602/8	200.0	107.964019	50.0	362022.0	0.53982	Y
7	STD500 460-871602/9	500.0	259.123912	50.0	387427.0	0.518248	Y



Calibration

/ o-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

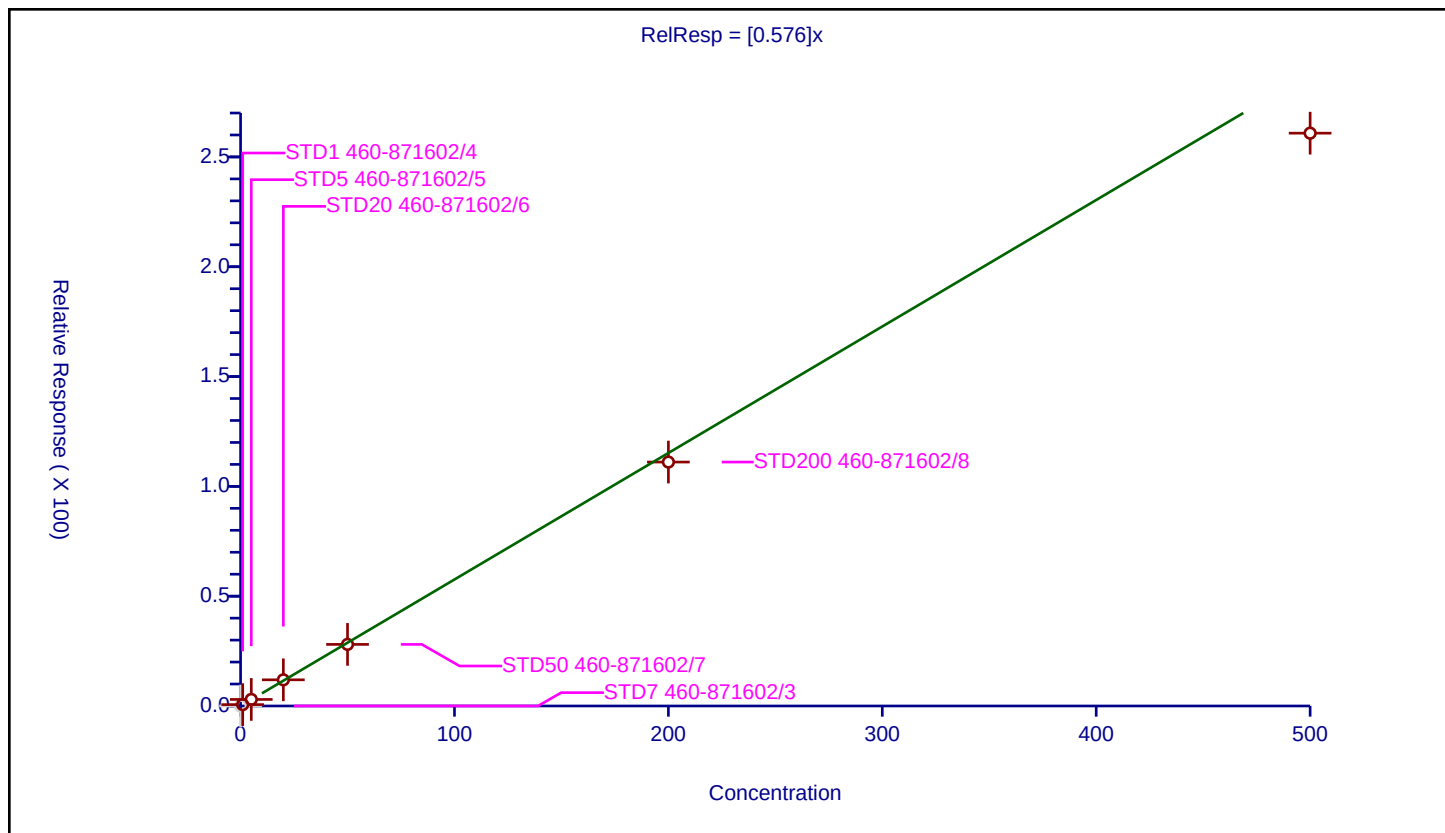
Curve Coefficients

Intercept: 0
 Slope: 0.576

Error Coefficients

Standard Error: 978000
 Relative Standard Error: 6.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	0.625296	50.0	345836.0	0.625296	Y
3	STD5 460-871602/5	5.0	2.984775	50.0	343778.0	0.596955	Y
4	STD20 460-871602/6	20.0	11.915616	50.0	344187.0	0.595781	Y
5	STD50 460-871602/7	50.0	28.045376	50.0	359266.0	0.560908	Y
6	STD200 460-871602/8	200.0	111.067836	50.0	362022.0	0.555339	Y
7	STD500 460-871602/9	500.0	260.822426	50.0	387427.0	0.521645	Y



Calibration

/ n-Butyl acrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

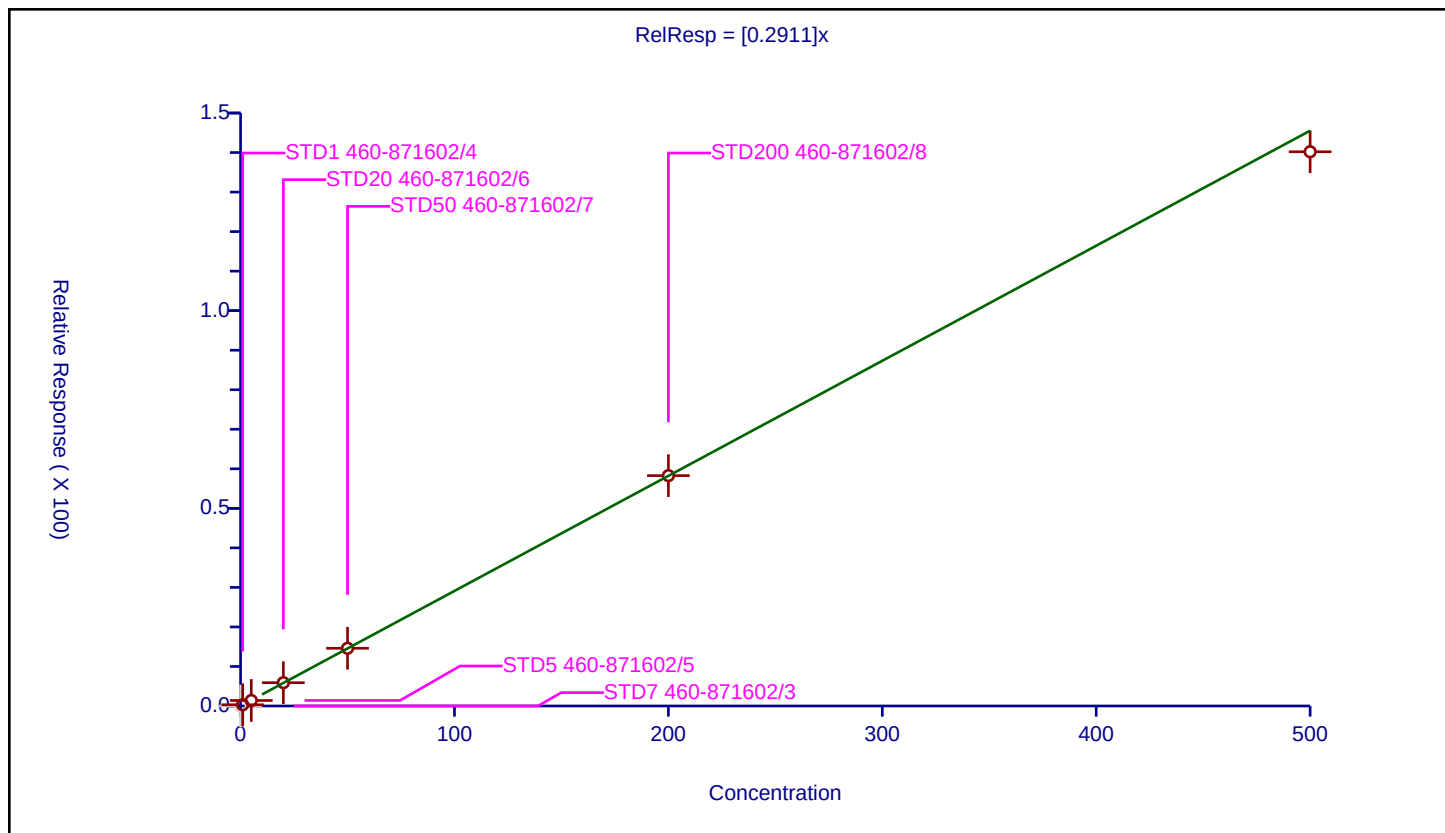
Curve Coefficients

Intercept: 0
 Slope: 0.2911

Error Coefficients

Standard Error: 524000
 Relative Standard Error: 3.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	0.309251	50.0	345836.0	0.309251	Y
3	STD5 460-871602/5	5.0	1.394505	50.0	343778.0	0.278901	Y
4	STD20 460-871602/6	20.0	5.889386	50.0	344187.0	0.294469	Y
5	STD50 460-871602/7	50.0	14.599489	50.0	359266.0	0.29199	Y
6	STD200 460-871602/8	200.0	58.272011	50.0	362022.0	0.29136	Y
7	STD500 460-871602/9	500.0	140.196218	50.0	387427.0	0.280392	Y



Calibration

/ Styrene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

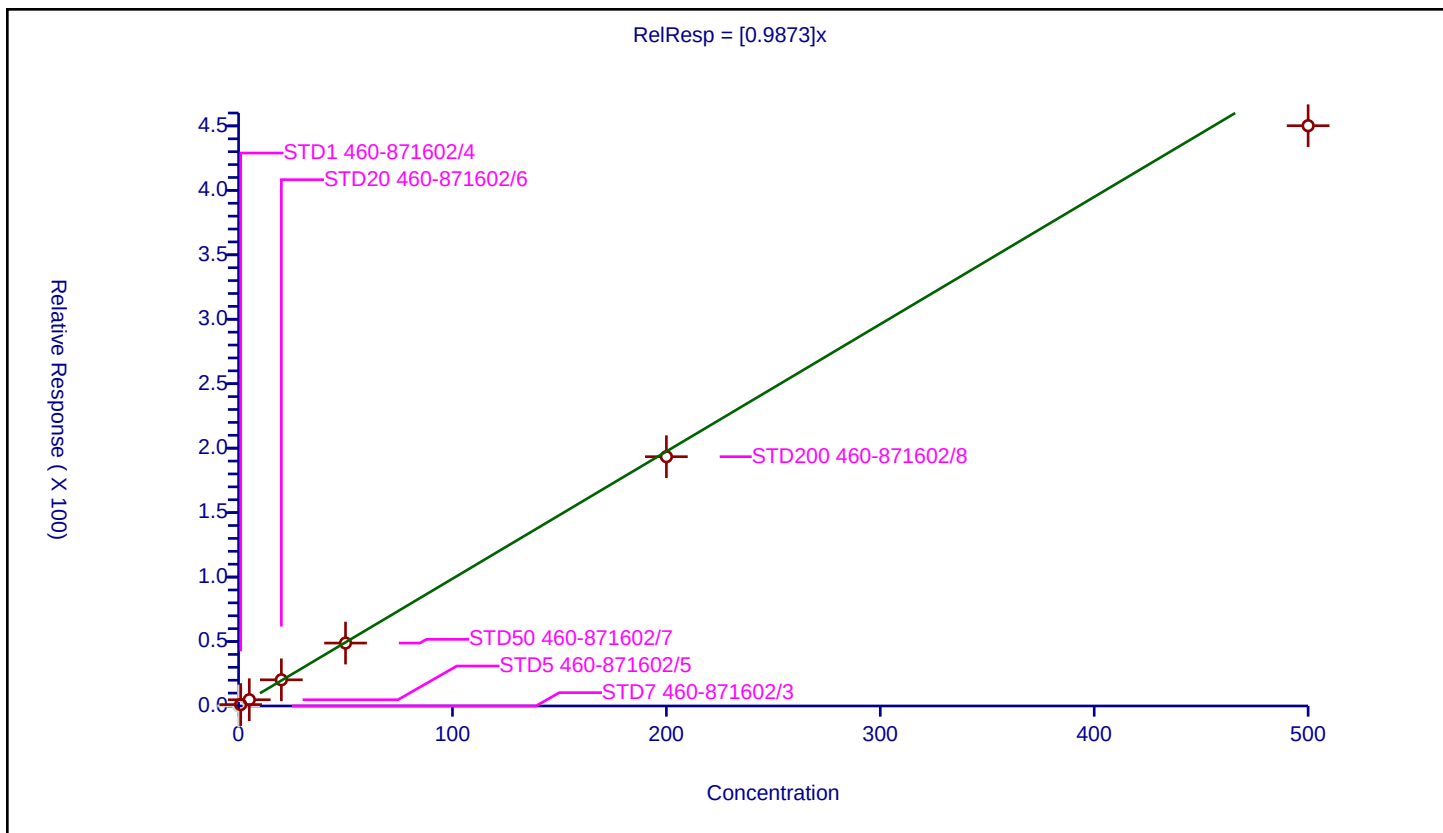
Curve Coefficients

Intercept: 0
 Slope: 0.9873

Error Coefficients

Standard Error: 1690000
 Relative Standard Error: 6.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	1.094739	50.0	345836.0	1.094739	Y
3	STD5 460-871602/5	5.0	4.852841	50.0	343778.0	0.970568	Y
4	STD20 460-871602/6	20.0	20.299721	50.0	344187.0	1.014986	Y
5	STD50 460-871602/7	50.0	48.803811	50.0	359266.0	0.976076	Y
6	STD200 460-871602/8	200.0	193.39612	50.0	362022.0	0.966981	Y
7	STD500 460-871602/9	500.0	450.162998	50.0	387427.0	0.900326	Y



Calibration

/ Bromoform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

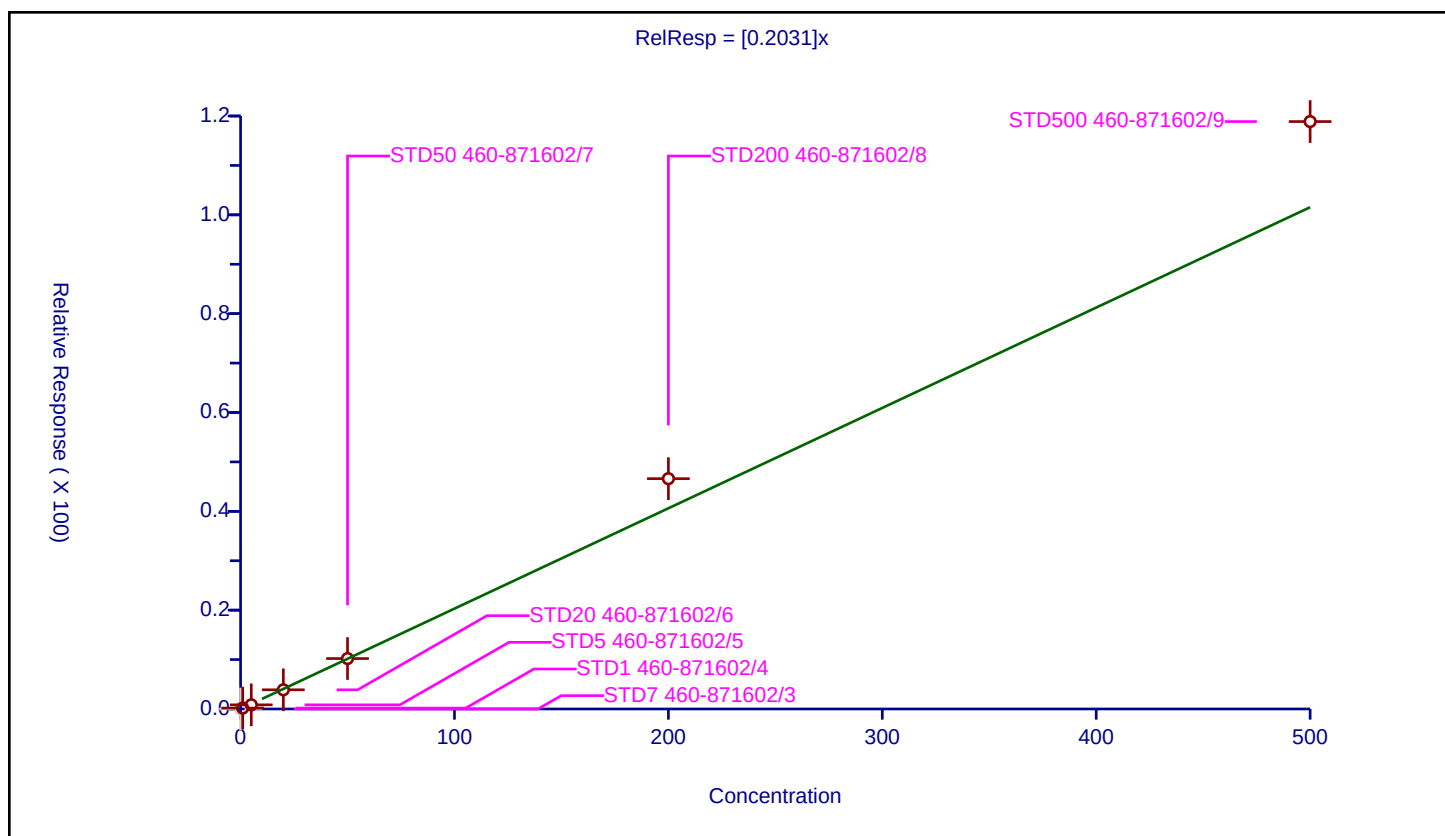
Curve Coefficients

Intercept: 0
Slope: 0.2031

Error Coefficients

Standard Error: 440000
Relative Standard Error: 13.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	0.181734	50.0	345836.0	0.181734	Y
3	STD5 460-871602/5	5.0	0.838041	50.0	343778.0	0.167608	Y
4	STD20 460-871602/6	20.0	3.883354	50.0	344187.0	0.194168	Y
5	STD50 460-871602/7	50.0	10.206087	50.0	359266.0	0.204122	Y
6	STD200 460-871602/8	200.0	46.61167	50.0	362022.0	0.233058	Y
7	STD500 460-871602/9	500.0	118.880073	50.0	387427.0	0.23776	Y



Calibration

/ Amyl acetate (mixed isomers)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

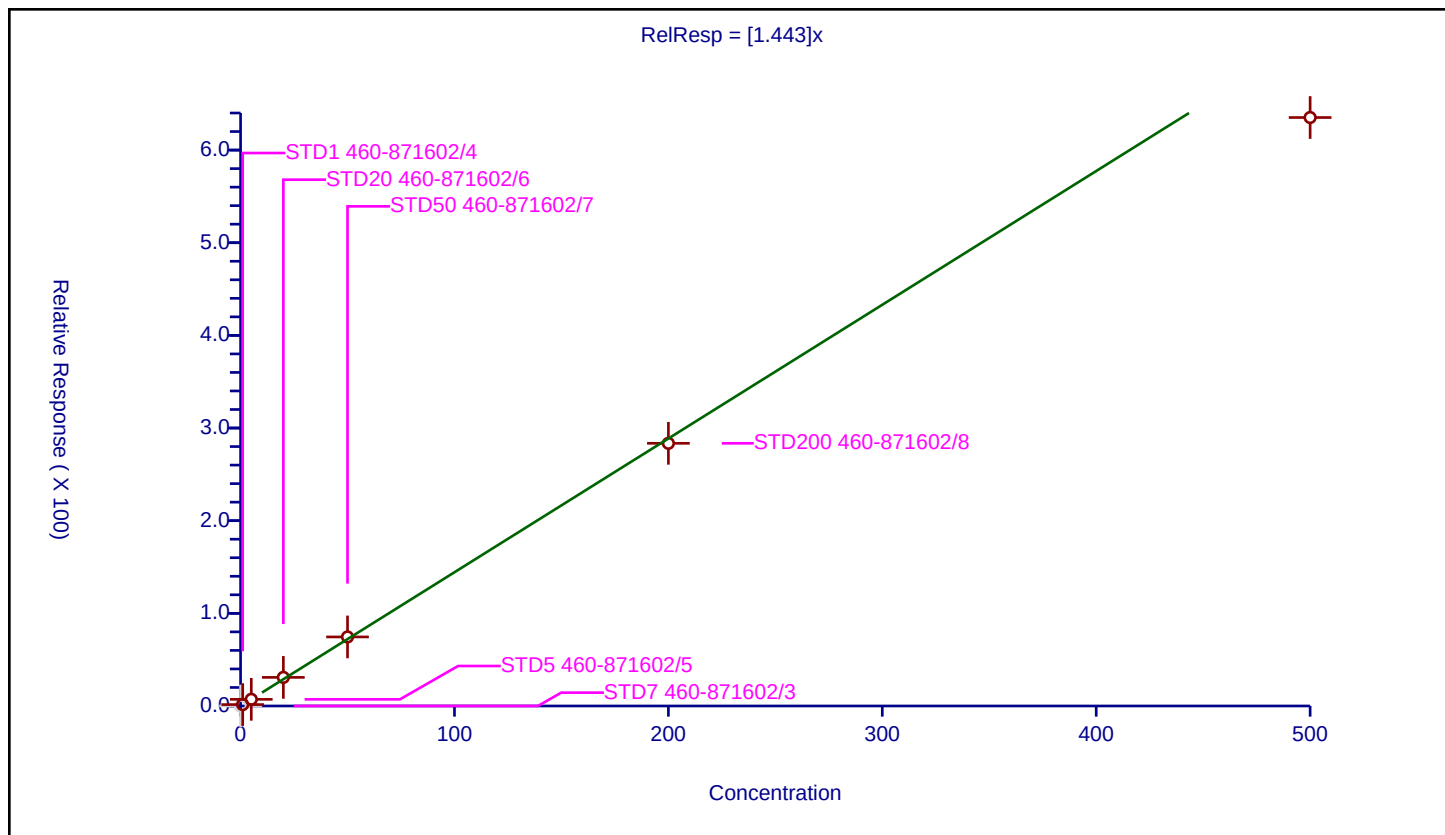
Curve Coefficients

Intercept: 0
 Slope: 1.443

Error Coefficients

Standard Error: 1410000
 Relative Standard Error: 6.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	1.49978	50.0	189061.0	1.49978	Y
3	STD5 460-871602/5	5.0	7.192111	50.0	189541.0	1.438422	Y
4	STD20 460-871602/6	20.0	30.882182	50.0	189292.0	1.544109	Y
5	STD50 460-871602/7	50.0	74.523869	50.0	195797.0	1.490477	Y
6	STD200 460-871602/8	200.0	283.502623	50.0	203202.0	1.417513	Y
7	STD500 460-871602/9	500.0	635.144717	50.0	229171.0	1.270289	Y



Calibration

/ Isopropylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

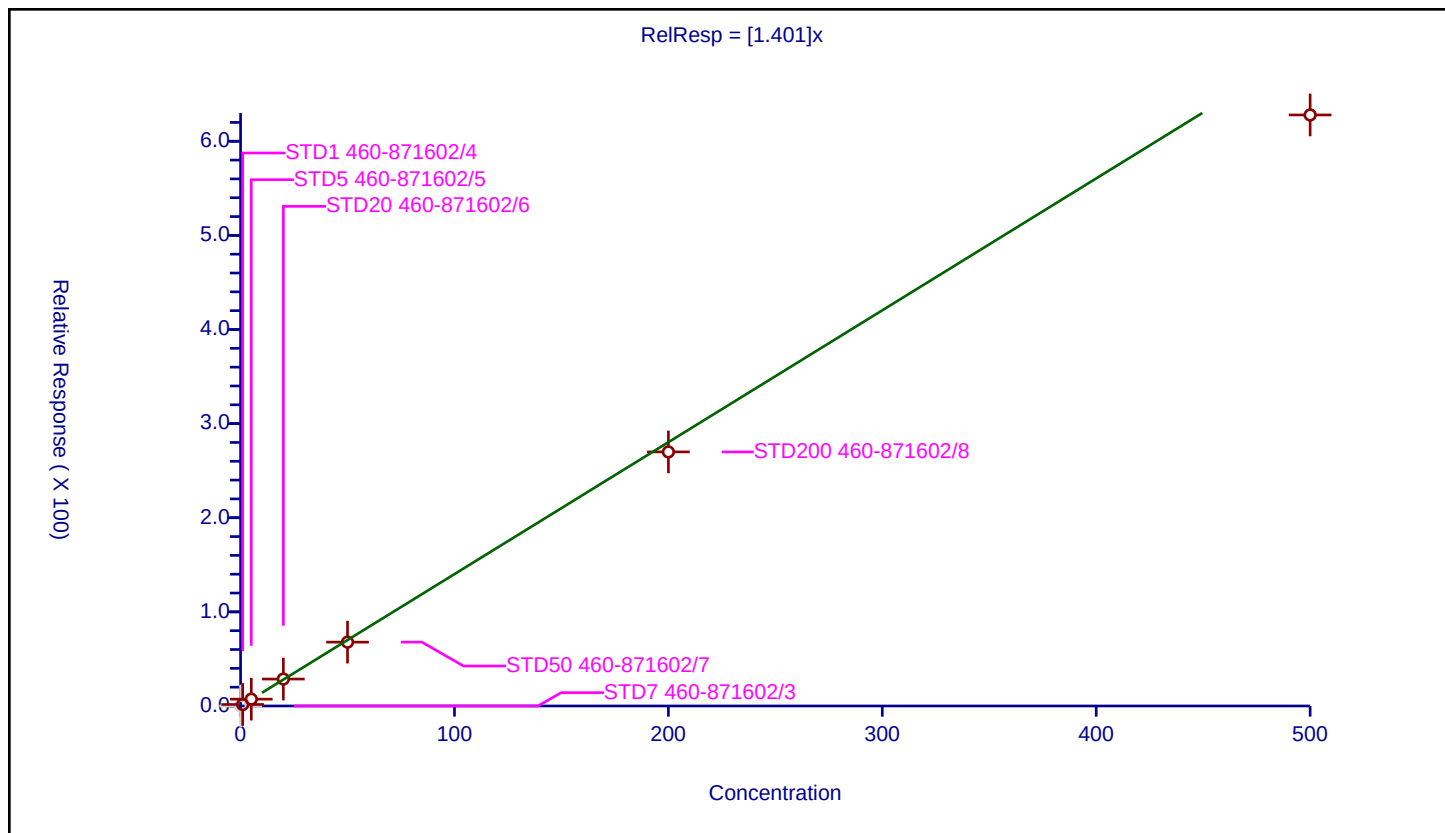
Curve Coefficients

Intercept: 0
Slope: 1.401

Error Coefficients

Standard Error: 2360000
Relative Standard Error: 7.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	351311.0	NaN	N
2	STD1 460-871602/4	1.0	1.562735	50.0	345836.0	1.562735	Y
3	STD5 460-871602/5	5.0	7.258172	50.0	343778.0	1.451634	Y
4	STD20 460-871602/6	20.0	28.618309	50.0	344187.0	1.430915	Y
5	STD50 460-871602/7	50.0	67.844717	50.0	359266.0	1.356894	Y
6	STD200 460-871602/8	200.0	269.928761	50.0	362022.0	1.349644	Y
7	STD500 460-871602/9	500.0	627.933004	50.0	387427.0	1.255866	Y



Calibration

/ 4-Bromofluorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

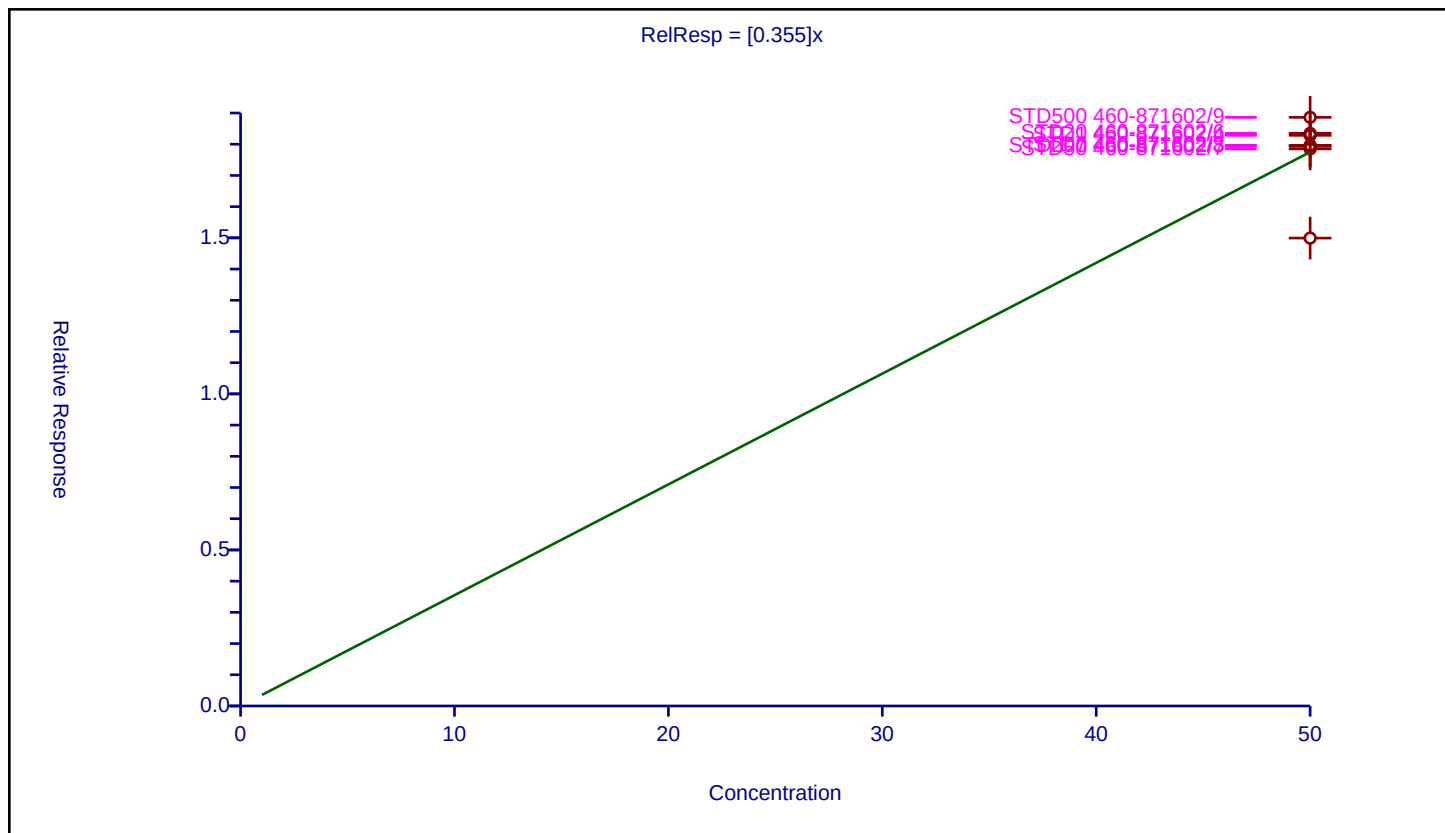
Curve Coefficients

Intercept: 0
 Slope: 0.355

Error Coefficients

Standard Error: 137000
 Relative Standard Error: 7.1
 Correlation Coefficient: NA
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	50.0	17.964567	50.0	351311.0	0.359291	Y
2	STD1 460-871602/4	50.0	18.284967	50.0	345836.0	0.365699	Y
3	STD5 460-871602/5	50.0	14.992815	50.0	343778.0	0.299856	Y
4	STD20 460-871602/6	50.0	18.349182	50.0	344187.0	0.366984	Y
5	STD50 460-871602/7	50.0	17.851119	50.0	359266.0	0.357022	Y
6	STD200 460-871602/8	50.0	17.934269	50.0	362022.0	0.358685	Y
7	STD500 460-871602/9	50.0	18.860456	50.0	387427.0	0.377209	Y



Calibration

/ Bromobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

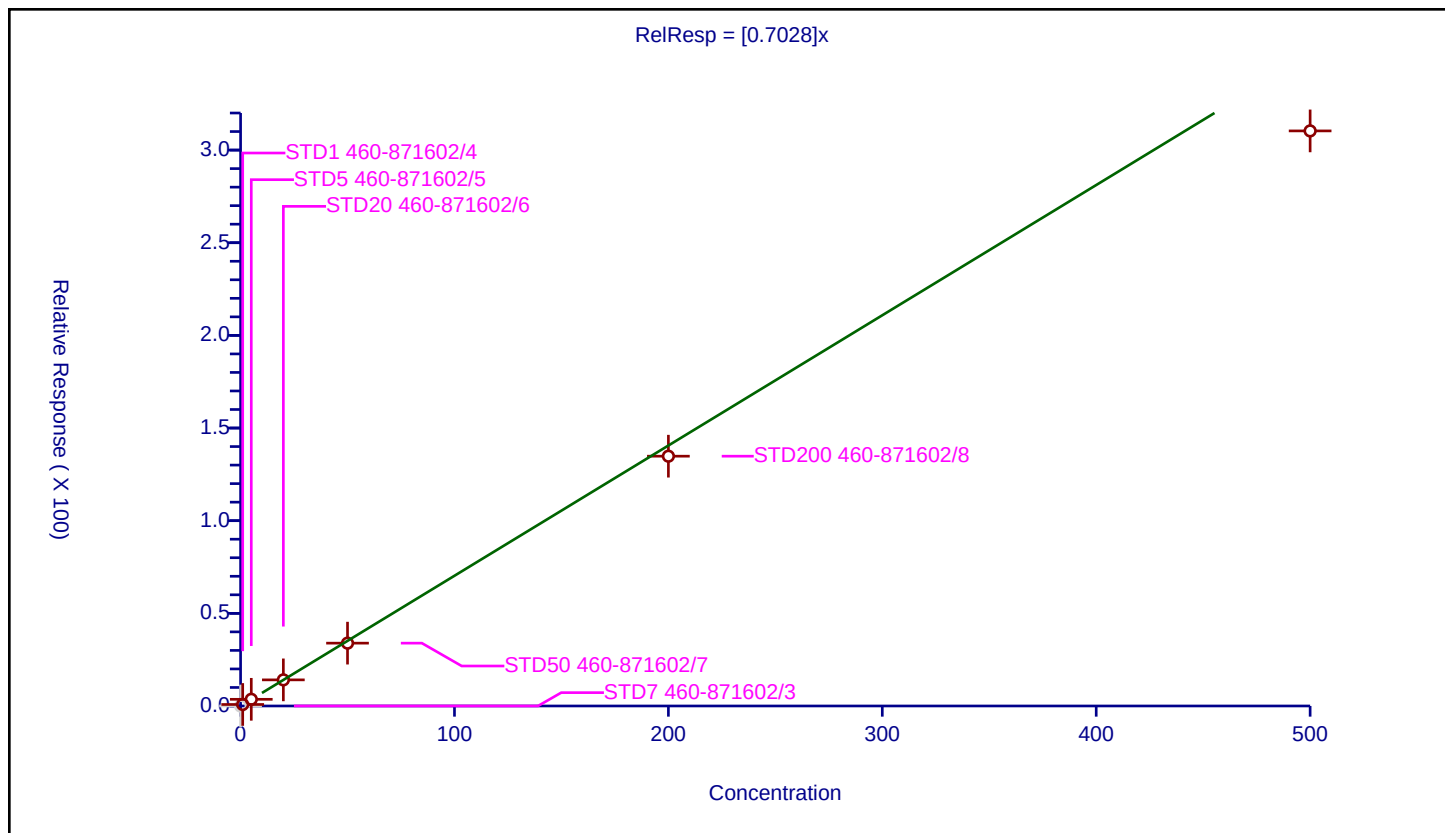
Curve Coefficients

Intercept: 0
 Slope: 0.7028

Error Coefficients

Standard Error: 685000
 Relative Standard Error: 9.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	0.817197	50.0	189061.0	0.817197	Y
3	STD5 460-871602/5	5.0	3.611883	50.0	189541.0	0.722377	Y
4	STD20 460-871602/6	20.0	14.091192	50.0	189292.0	0.70456	Y
5	STD50 460-871602/7	50.0	33.906035	50.0	195797.0	0.678121	Y
6	STD200 460-871602/8	200.0	134.804283	50.0	203202.0	0.674021	Y
7	STD500 460-871602/9	500.0	310.339877	50.0	229171.0	0.62068	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

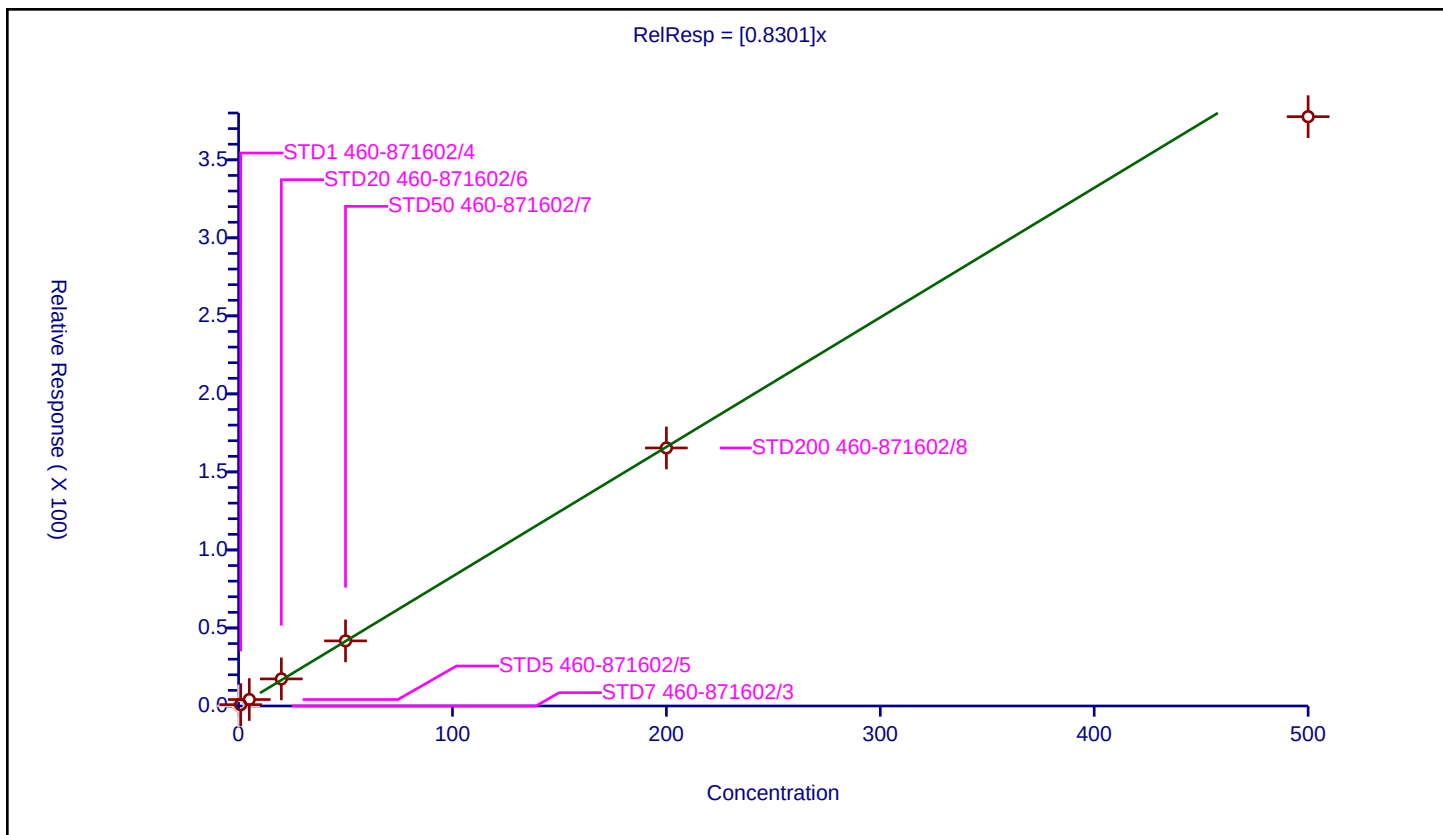
Curve Coefficients

Intercept: 0
 Slope: 0.8301

Error Coefficients

Standard Error: 834000
 Relative Standard Error: 4.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	0.866387	50.0	189061.0	0.866387	Y
3	STD5 460-871602/5	5.0	4.149762	50.0	189541.0	0.829952	Y
4	STD20 460-871602/6	20.0	17.348065	50.0	189292.0	0.867403	Y
5	STD50 460-871602/7	50.0	41.727657	50.0	195797.0	0.834553	Y
6	STD200 460-871602/8	200.0	165.353934	50.0	203202.0	0.82677	Y
7	STD500 460-871602/9	500.0	377.66515	50.0	229171.0	0.75533	Y



Calibration

/ N-Propylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

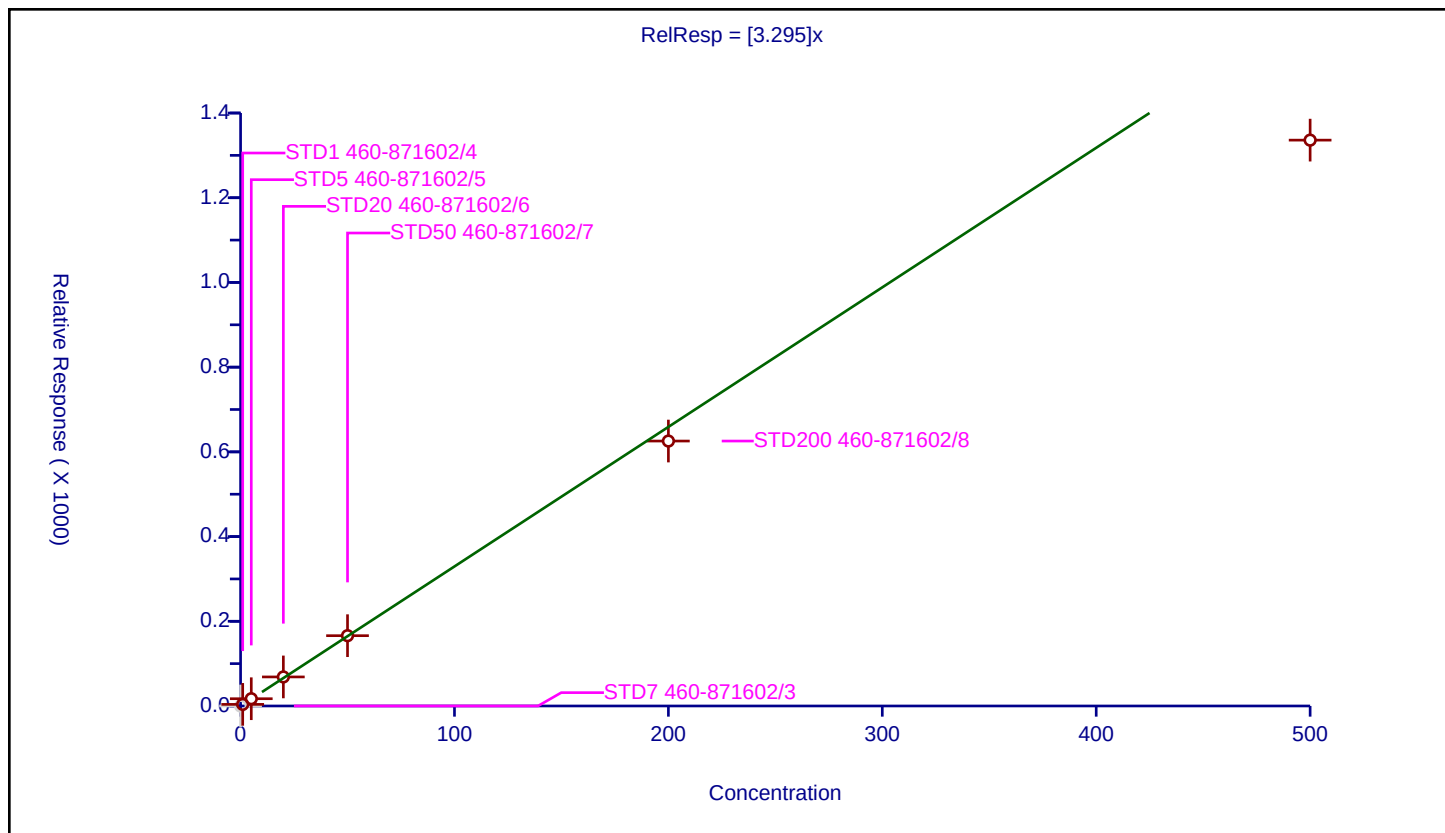
Curve Coefficients

Intercept: 0
 Slope: 3.295

Error Coefficients

Standard Error: 2980000
 Relative Standard Error: 11.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	3.791633	50.0	189061.0	3.791633	Y
3	STD5 460-871602/5	5.0	17.136134	50.0	189541.0	3.427227	Y
4	STD20 460-871602/6	20.0	68.591647	50.0	189292.0	3.429582	Y
5	STD50 460-871602/7	50.0	165.998202	50.0	195797.0	3.319964	Y
6	STD200 460-871602/8	200.0	625.513774	50.0	203202.0	3.127569	Y
7	STD500 460-871602/9	500.0	1335.976629	50.0	229171.0	2.671953	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

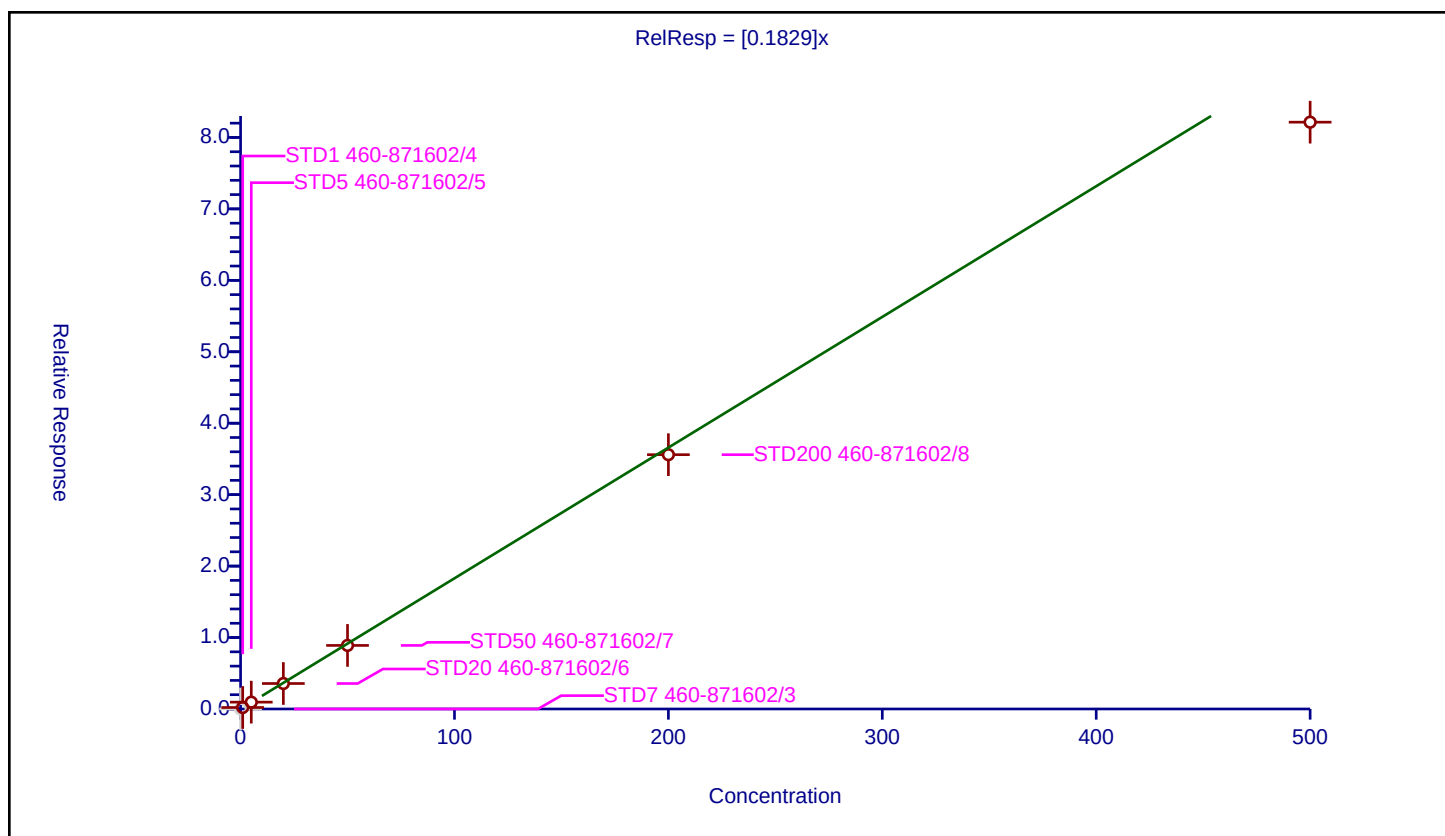
Curve Coefficients

Intercept: 0
Slope: 0.1829

Error Coefficients

Standard Error: 181000
Relative Standard Error: 8.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	0.207605	50.0	189061.0	0.207605	Y
3	STD5 460-871602/5	5.0	0.957049	50.0	189541.0	0.19141	Y
4	STD20 460-871602/6	20.0	3.568032	50.0	189292.0	0.178402	Y
5	STD50 460-871602/7	50.0	8.896204	50.0	195797.0	0.177924	Y
6	STD200 460-871602/8	200.0	35.597091	50.0	203202.0	0.177985	Y
7	STD500 460-871602/9	500.0	82.139101	50.0	229171.0	0.164278	Y



Calibration

/ 2-Chlorotoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

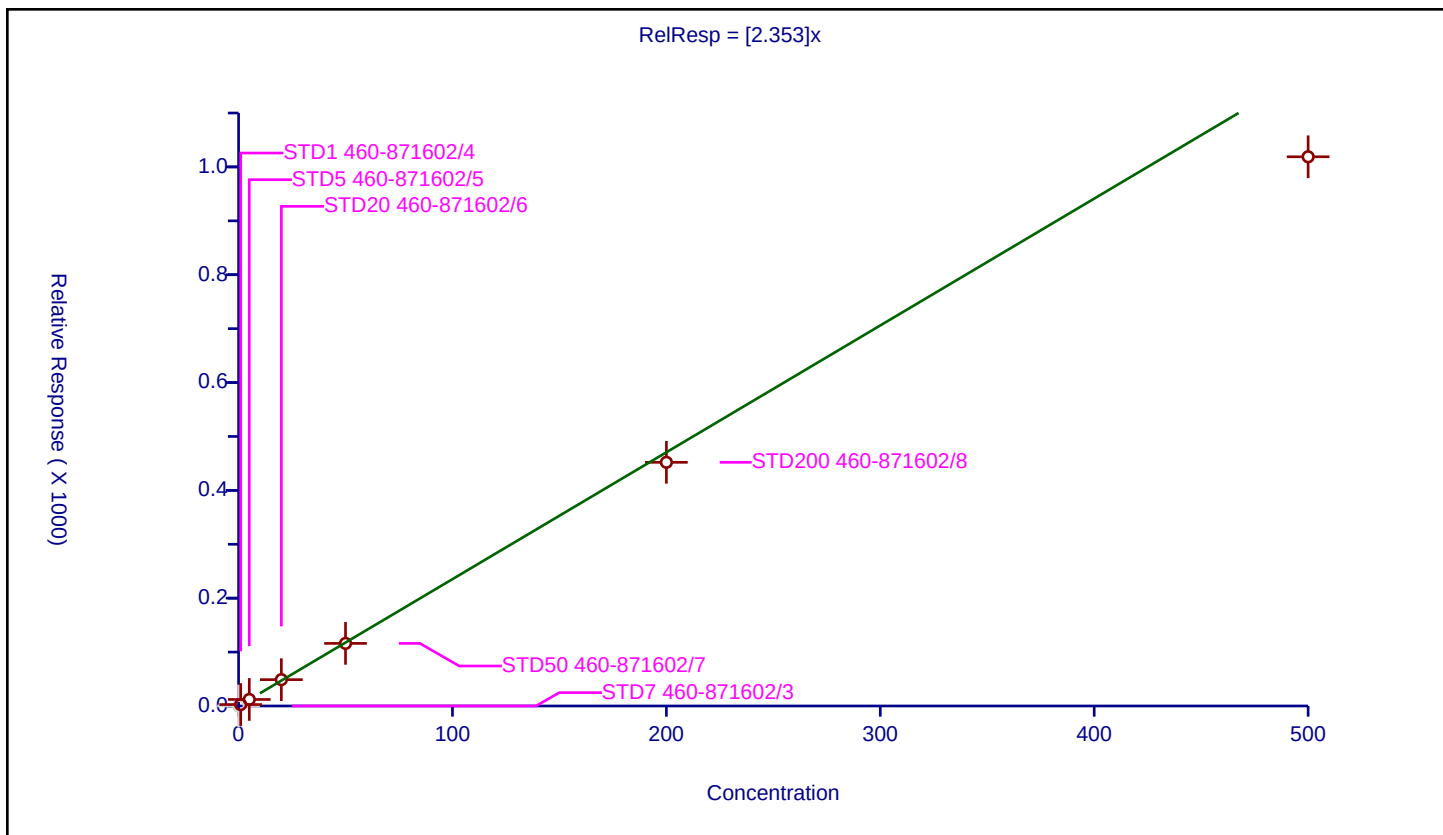
Curve Coefficients

Intercept: 0
 Slope: 2.353

Error Coefficients

Standard Error: 2250000
 Relative Standard Error: 8.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	2.632219	50.0	189061.0	2.632219	Y
3	STD5 460-871602/5	5.0	12.11875	50.0	189541.0	2.42375	Y
4	STD20 460-871602/6	20.0	48.846227	50.0	189292.0	2.442311	Y
5	STD50 460-871602/7	50.0	116.110308	50.0	195797.0	2.322206	Y
6	STD200 460-871602/8	200.0	452.015974	50.0	203202.0	2.26008	Y
7	STD500 460-871602/9	500.0	1018.836589	50.0	229171.0	2.037673	Y



Calibration

/ 1,3,5-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

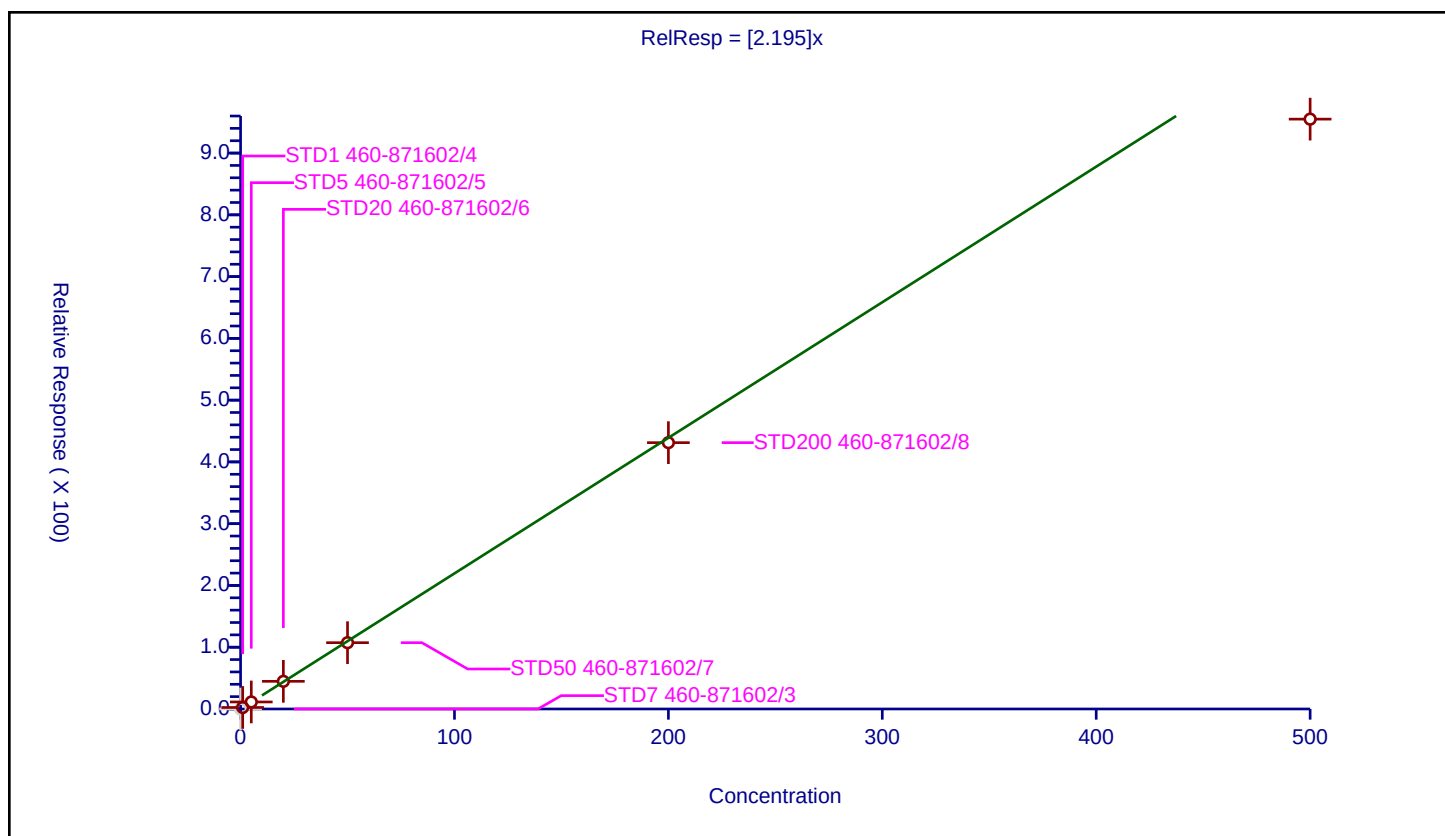
Curve Coefficients

Intercept: 0
 Slope: 2.195

Error Coefficients

Standard Error: 2120000
 Relative Standard Error: 8.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	2.44392	50.0	189061.0	2.44392	Y
3	STD5 460-871602/5	5.0	11.37432	50.0	189541.0	2.274864	Y
4	STD20 460-871602/6	20.0	44.773419	50.0	189292.0	2.238671	Y
5	STD50 460-871602/7	50.0	107.33285	50.0	195797.0	2.146657	Y
6	STD200 460-871602/8	200.0	431.184732	50.0	203202.0	2.155924	Y
7	STD500 460-871602/9	500.0	954.957215	50.0	229171.0	1.909914	Y



Calibration

/ 4-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

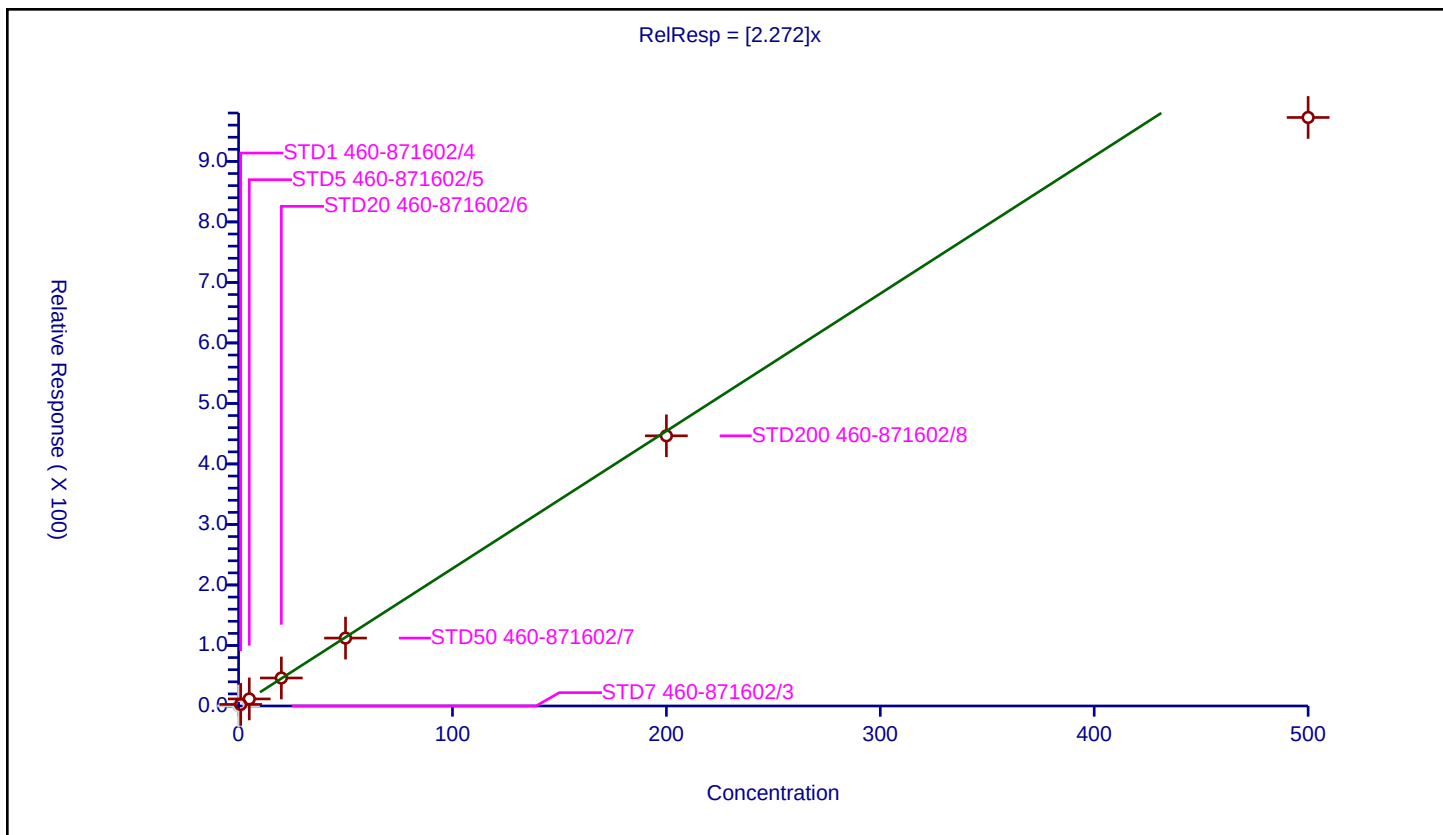
Curve Coefficients

Intercept: 0
Slope: 2.272

Error Coefficients

Standard Error: 2160000
Relative Standard Error: 8.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	2.56531	50.0	189061.0	2.56531	Y
3	STD5 460-871602/5	5.0	11.647612	50.0	189541.0	2.329522	Y
4	STD20 460-871602/6	20.0	46.271897	50.0	189292.0	2.313595	Y
5	STD50 460-871602/7	50.0	112.240994	50.0	195797.0	2.24482	Y
6	STD200 460-871602/8	200.0	446.497574	50.0	203202.0	2.232488	Y
7	STD500 460-871602/9	500.0	972.621754	50.0	229171.0	1.945244	Y



Calibration

/ Butyl Methacrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

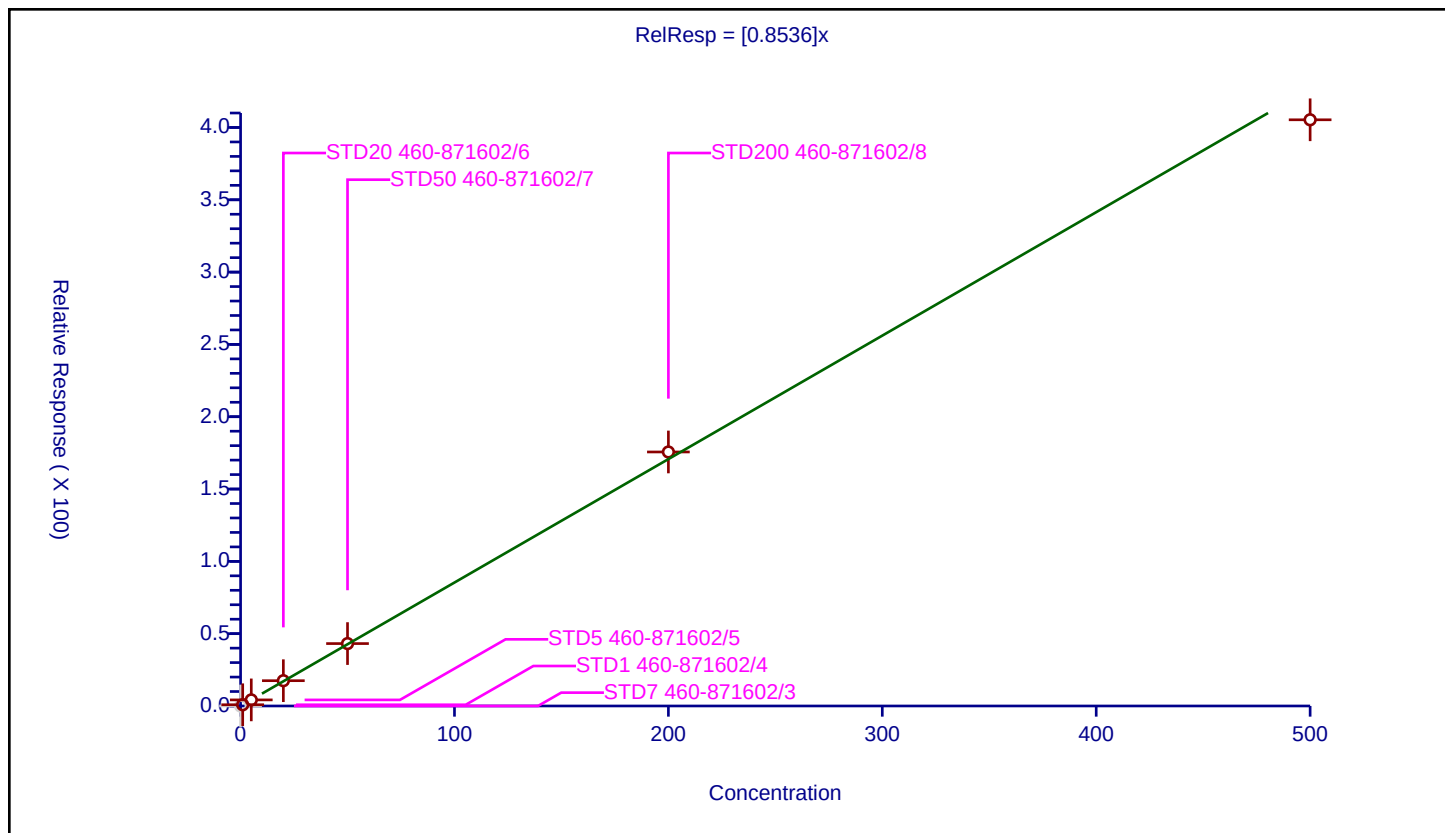
Curve Coefficients

Intercept: 0
 Slope: 0.8536

Error Coefficients

Standard Error: 894000
 Relative Standard Error: 2.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	0.853428	50.0	189061.0	0.853428	Y
3	STD5 460-871602/5	5.0	4.210962	50.0	189541.0	0.842192	Y
4	STD20 460-871602/6	20.0	17.48225	50.0	189292.0	0.874112	Y
5	STD50 460-871602/7	50.0	43.146473	50.0	195797.0	0.862929	Y
6	STD200 460-871602/8	200.0	175.62401	50.0	203202.0	0.87812	Y
7	STD500 460-871602/9	500.0	405.314372	50.0	229171.0	0.810629	Y



Calibration

/ tert-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

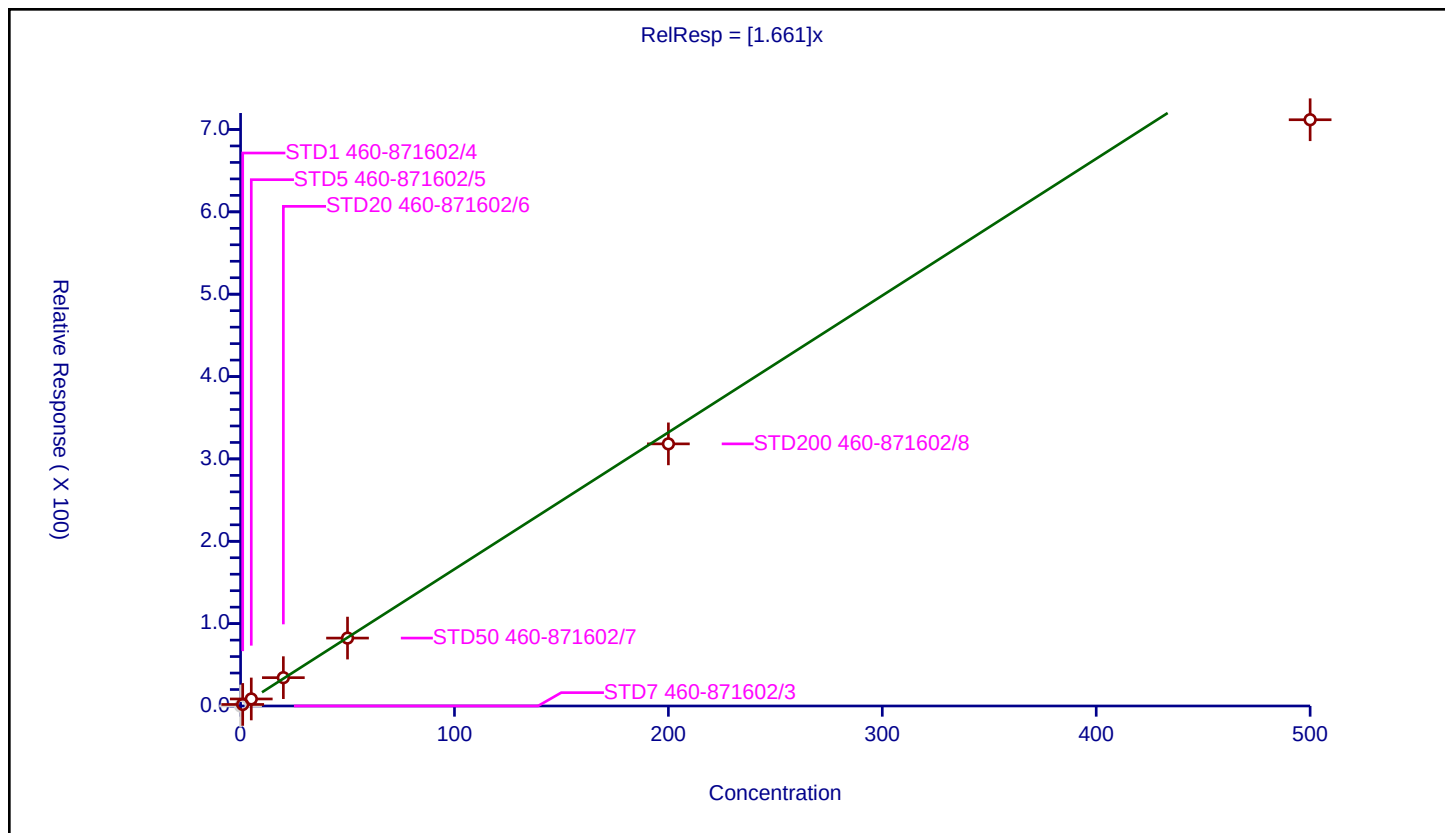
Curve Coefficients

Intercept: 0
Slope: 1.661

Error Coefficients

Standard Error: 1580000
Relative Standard Error: 9.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	1.875056	50.0	189061.0	1.875056	Y
3	STD5 460-871602/5	5.0	8.543798	50.0	189541.0	1.70876	Y
4	STD20 460-871602/6	20.0	34.387085	50.0	189292.0	1.719354	Y
5	STD50 460-871602/7	50.0	82.459639	50.0	195797.0	1.649193	Y
6	STD200 460-871602/8	200.0	318.278117	50.0	203202.0	1.591391	Y
7	STD500 460-871602/9	500.0	711.838103	50.0	229171.0	1.423676	Y



Calibration

/ 1,2,4-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

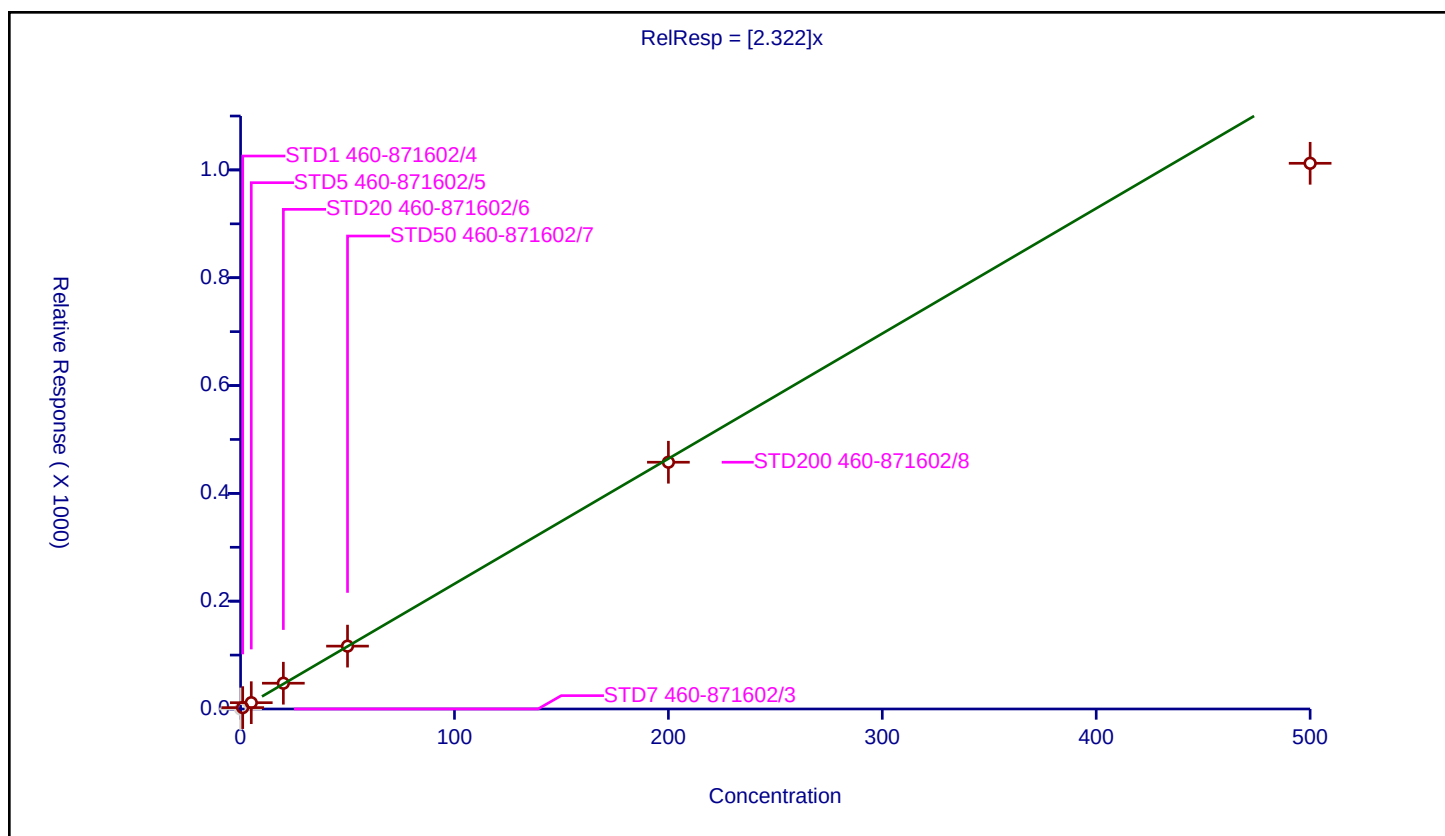
Curve Coefficients

Intercept: 0
 Slope: 2.322

Error Coefficients

Standard Error: 2250000
 Relative Standard Error: 7.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	2.549177	50.0	189061.0	2.549177	Y
3	STD5 460-871602/5	5.0	11.722793	50.0	189541.0	2.344559	Y
4	STD20 460-871602/6	20.0	47.799432	50.0	189292.0	2.389972	Y
5	STD50 460-871602/7	50.0	116.628191	50.0	195797.0	2.332564	Y
6	STD200 460-871602/8	200.0	457.738605	50.0	203202.0	2.288693	Y
7	STD500 460-871602/9	500.0	1012.275113	50.0	229171.0	2.02455	Y



Calibration

/ sec-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

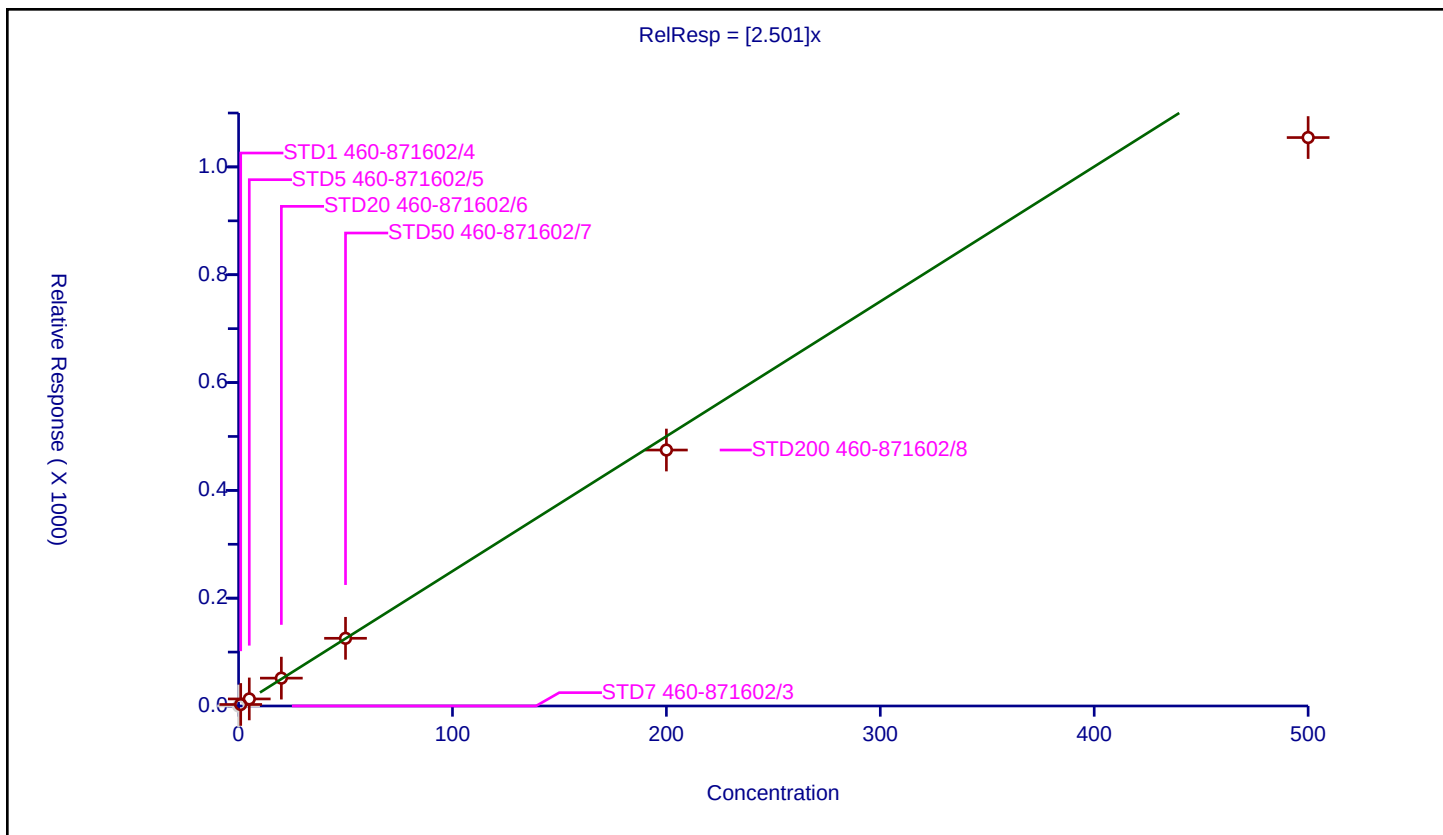
Curve Coefficients

Intercept: 0
 Slope: 2.501

Error Coefficients

Standard Error: 2340000
 Relative Standard Error: 9.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	2.810733	50.0	189061.0	2.810733	Y
3	STD5 460-871602/5	5.0	13.093473	50.0	189541.0	2.618695	Y
4	STD20 460-871602/6	20.0	51.67968	50.0	189292.0	2.583984	Y
5	STD50 460-871602/7	50.0	125.59079	50.0	195797.0	2.511816	Y
6	STD200 460-871602/8	200.0	474.810779	50.0	203202.0	2.374054	Y
7	STD500 460-871602/9	500.0	1054.498388	50.0	229171.0	2.108997	Y



Calibration

/ 1,3-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

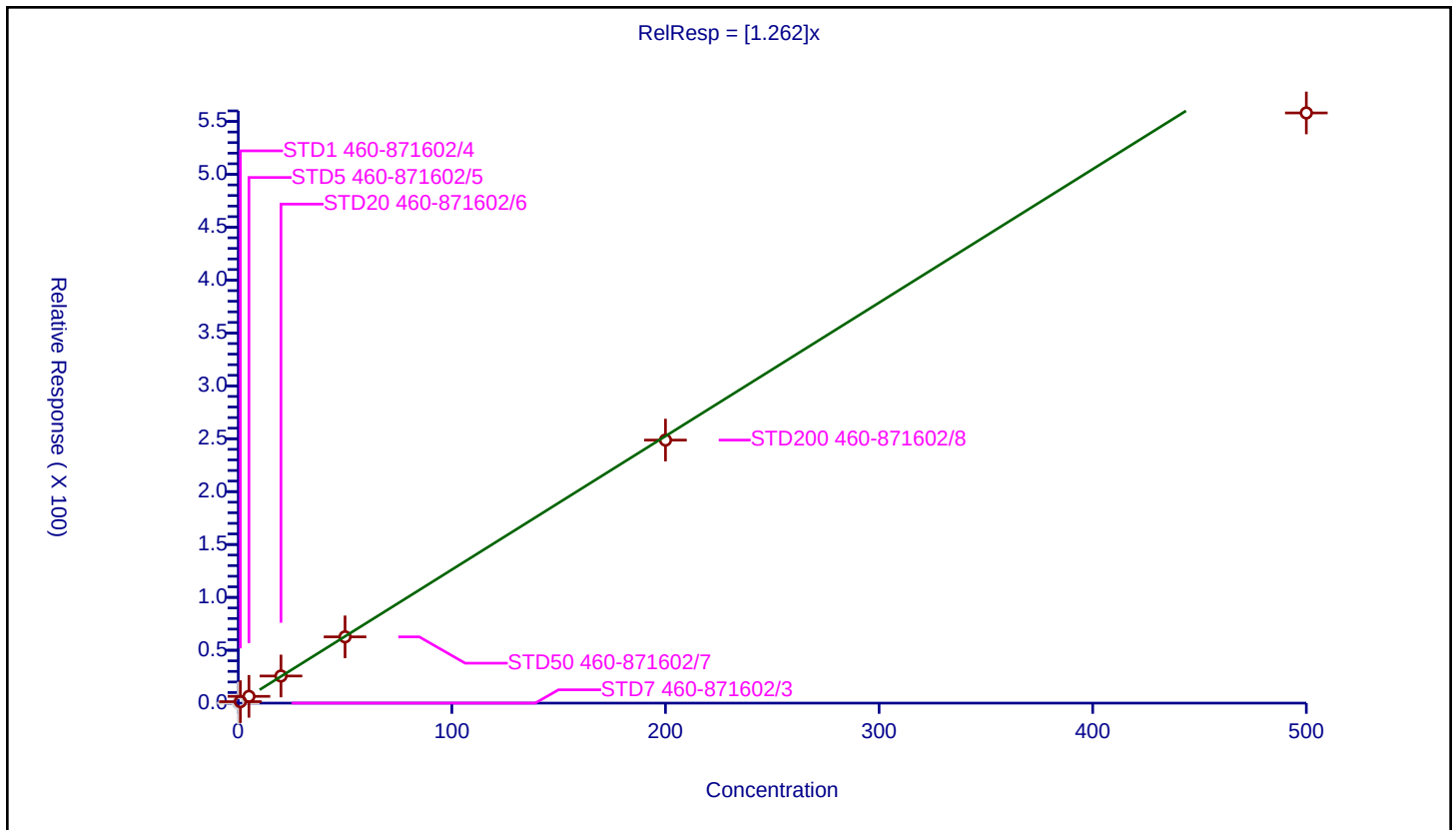
Curve Coefficients

Intercept: 0
 Slope: 1.262

Error Coefficients

Standard Error: 1240000
 Relative Standard Error: 7.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	1.396904	50.0	189061.0	1.396904	Y
3	STD5 460-871602/5	5.0	6.405738	50.0	189541.0	1.281148	Y
4	STD20 460-871602/6	20.0	25.645563	50.0	189292.0	1.282278	Y
5	STD50 460-871602/7	50.0	62.658774	50.0	195797.0	1.253175	Y
6	STD200 460-871602/8	200.0	248.725898	50.0	203202.0	1.243629	Y
7	STD500 460-871602/9	500.0	558.069084	50.0	229171.0	1.116138	Y



Calibration

/ 4-Isopropyltoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

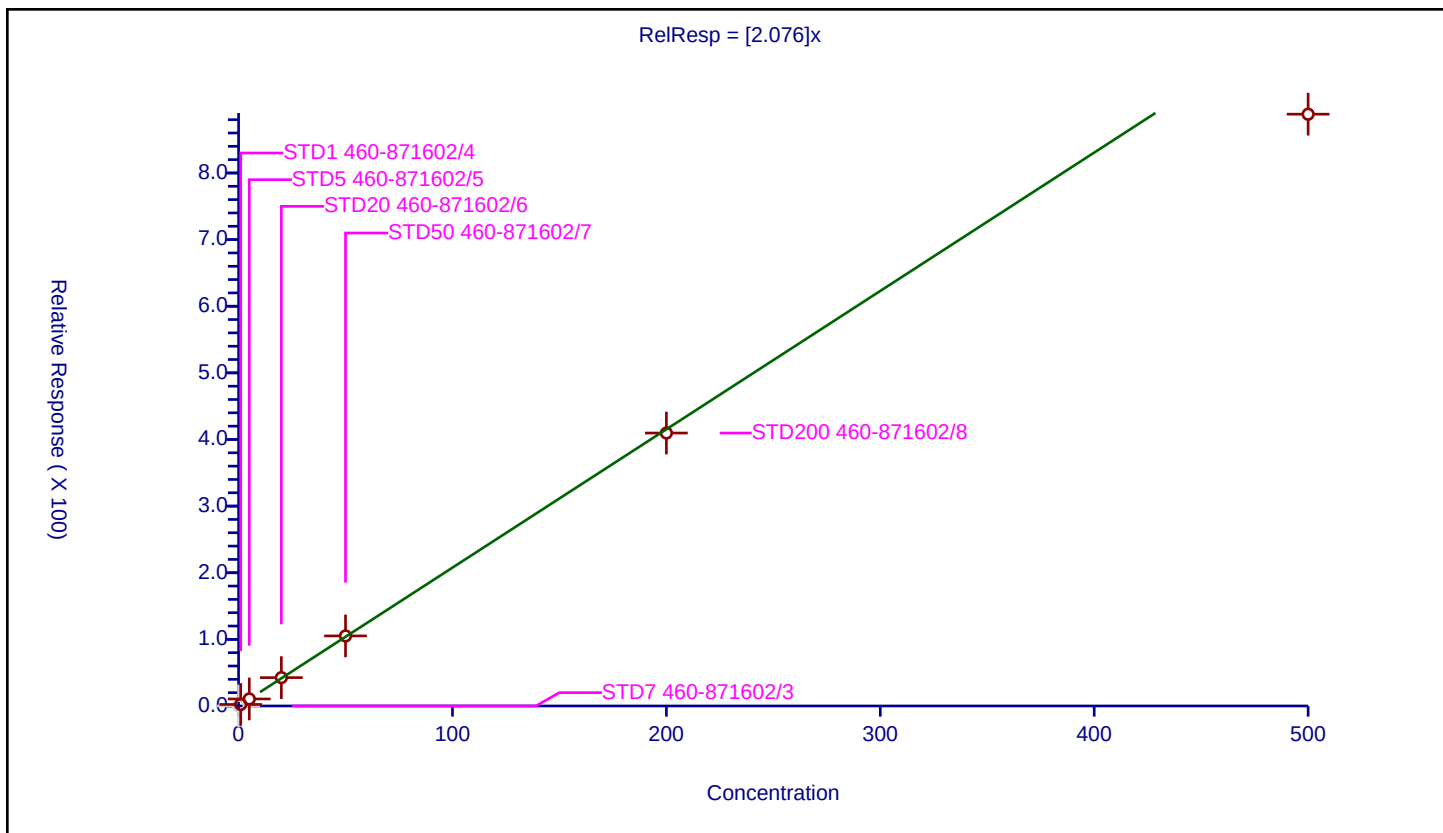
Curve Coefficients

Intercept: 0
 Slope: 2.076

Error Coefficients

Standard Error: 1980000
 Relative Standard Error: 8.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	2.294762	50.0	189061.0	2.294762	Y
3	STD5 460-871602/5	5.0	10.541255	50.0	189541.0	2.108251	Y
4	STD20 460-871602/6	20.0	42.55753	50.0	189292.0	2.127877	Y
5	STD50 460-871602/7	50.0	105.158404	50.0	195797.0	2.103168	Y
6	STD200 460-871602/8	200.0	409.66649	50.0	203202.0	2.048332	Y
7	STD500 460-871602/9	500.0	888.231932	50.0	229171.0	1.776464	Y



Calibration

/ 1,4-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

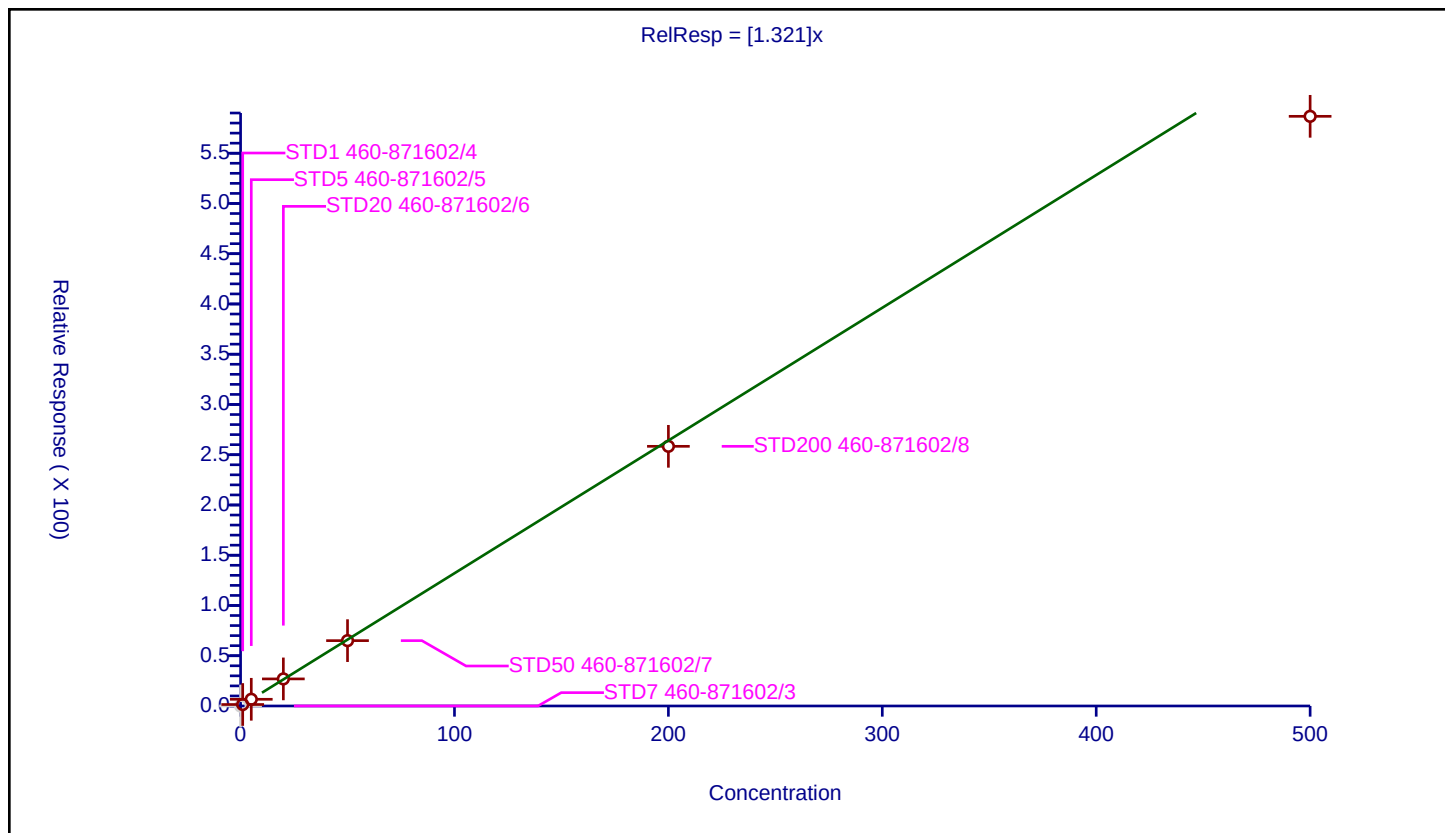
Curve Coefficients

Intercept: 0
Slope: 1.321

Error Coefficients

Standard Error: 1300000
Relative Standard Error: 7.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	1.479417	50.0	189061.0	1.479417	Y
3	STD5 460-871602/5	5.0	6.661356	50.0	189541.0	1.332271	Y
4	STD20 460-871602/6	20.0	26.938539	50.0	189292.0	1.346927	Y
5	STD50 460-871602/7	50.0	65.010444	50.0	195797.0	1.300209	Y
6	STD200 460-871602/8	200.0	258.369504	50.0	203202.0	1.291848	Y
7	STD500 460-871602/9	500.0	586.70796	50.0	229171.0	1.173416	Y



Calibration

/ 1,2,3-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

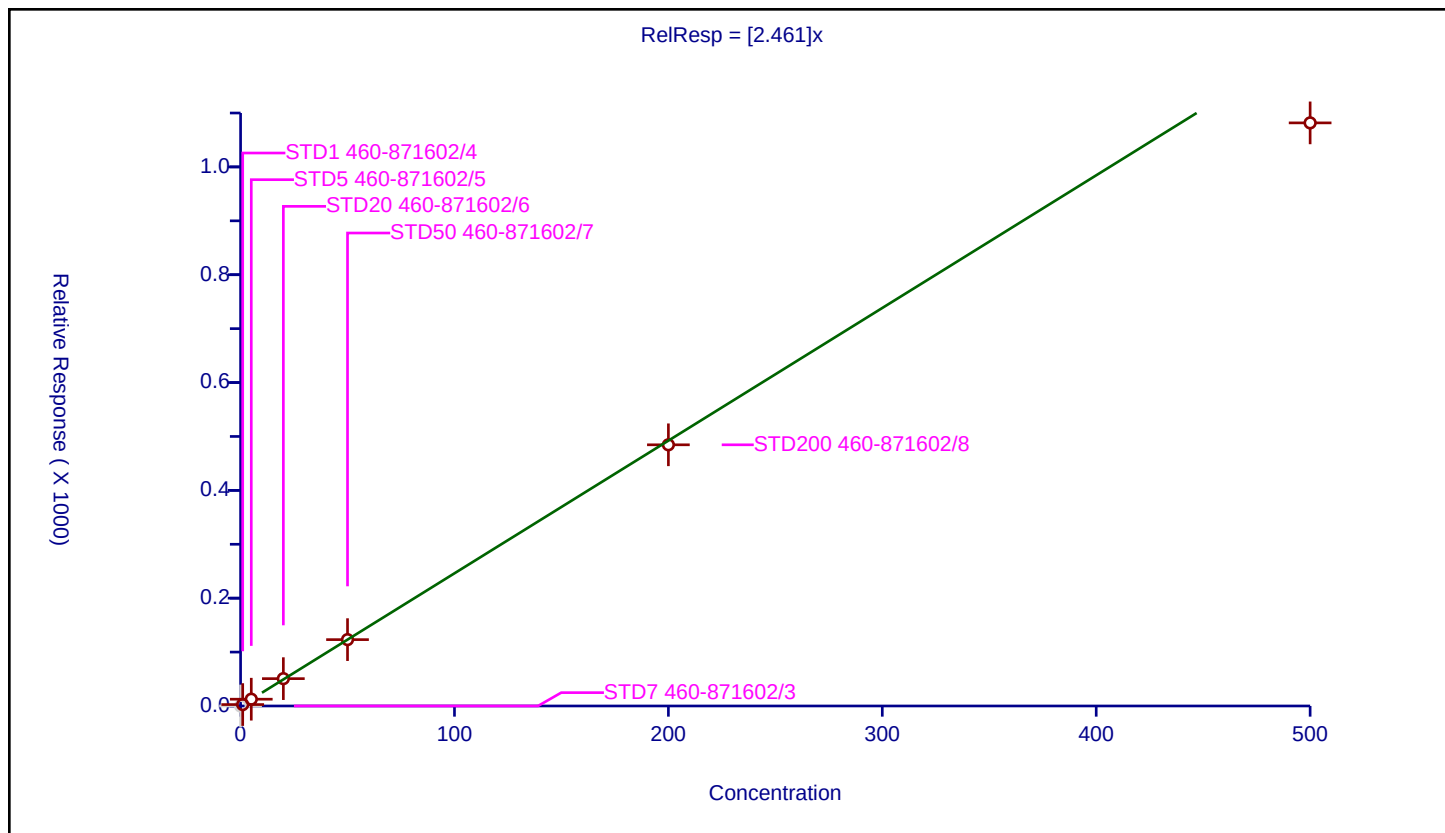
Curve Coefficients

Intercept: 0
Slope: 2.461

Error Coefficients

Standard Error: 2400000
Relative Standard Error: 6.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	2.659988	50.0	189061.0	2.659988	Y
3	STD5 460-871602/5	5.0	12.613102	50.0	189541.0	2.52262	Y
4	STD20 460-871602/6	20.0	50.708429	50.0	189292.0	2.535421	Y
5	STD50 460-871602/7	50.0	123.124971	50.0	195797.0	2.462499	Y
6	STD200 460-871602/8	200.0	484.530664	50.0	203202.0	2.422653	Y
7	STD500 460-871602/9	500.0	1081.715618	50.0	229171.0	2.163431	Y



Calibration

/ Benzyl chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

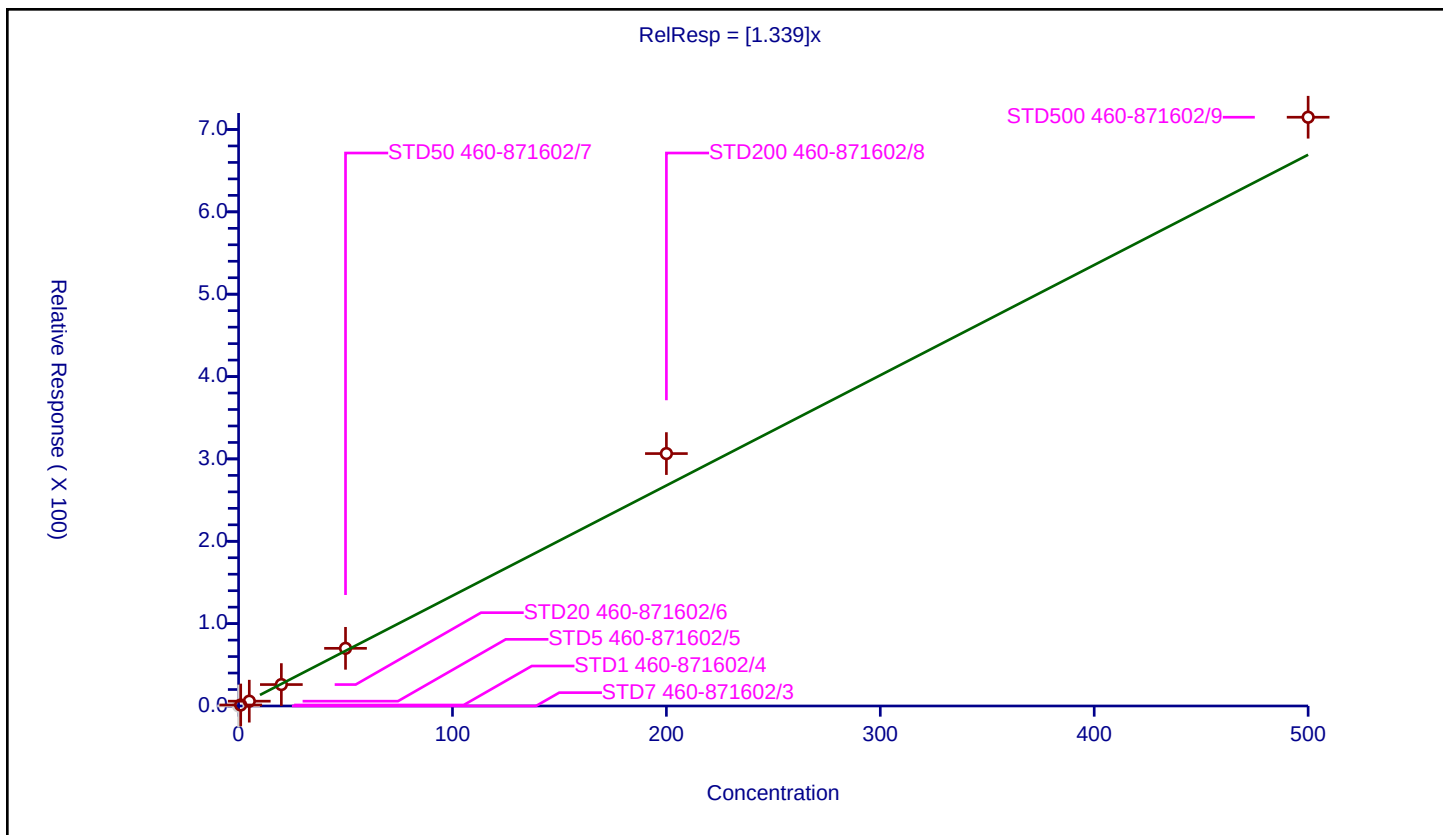
Curve Coefficients

Intercept: 0
 Slope: 1.339

Error Coefficients

Standard Error: 1570000
 Relative Standard Error: 10.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	1.197762	50.0	189061.0	1.197762	Y
3	STD5 460-871602/5	5.0	5.856517	50.0	189541.0	1.171303	Y
4	STD20 460-871602/6	20.0	26.009551	50.0	189292.0	1.300478	Y
5	STD50 460-871602/7	50.0	70.006435	50.0	195797.0	1.400129	Y
6	STD200 460-871602/8	200.0	306.488863	50.0	203202.0	1.532444	Y
7	STD500 460-871602/9	500.0	714.879064	50.0	229171.0	1.429758	Y



Calibration

/ n-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

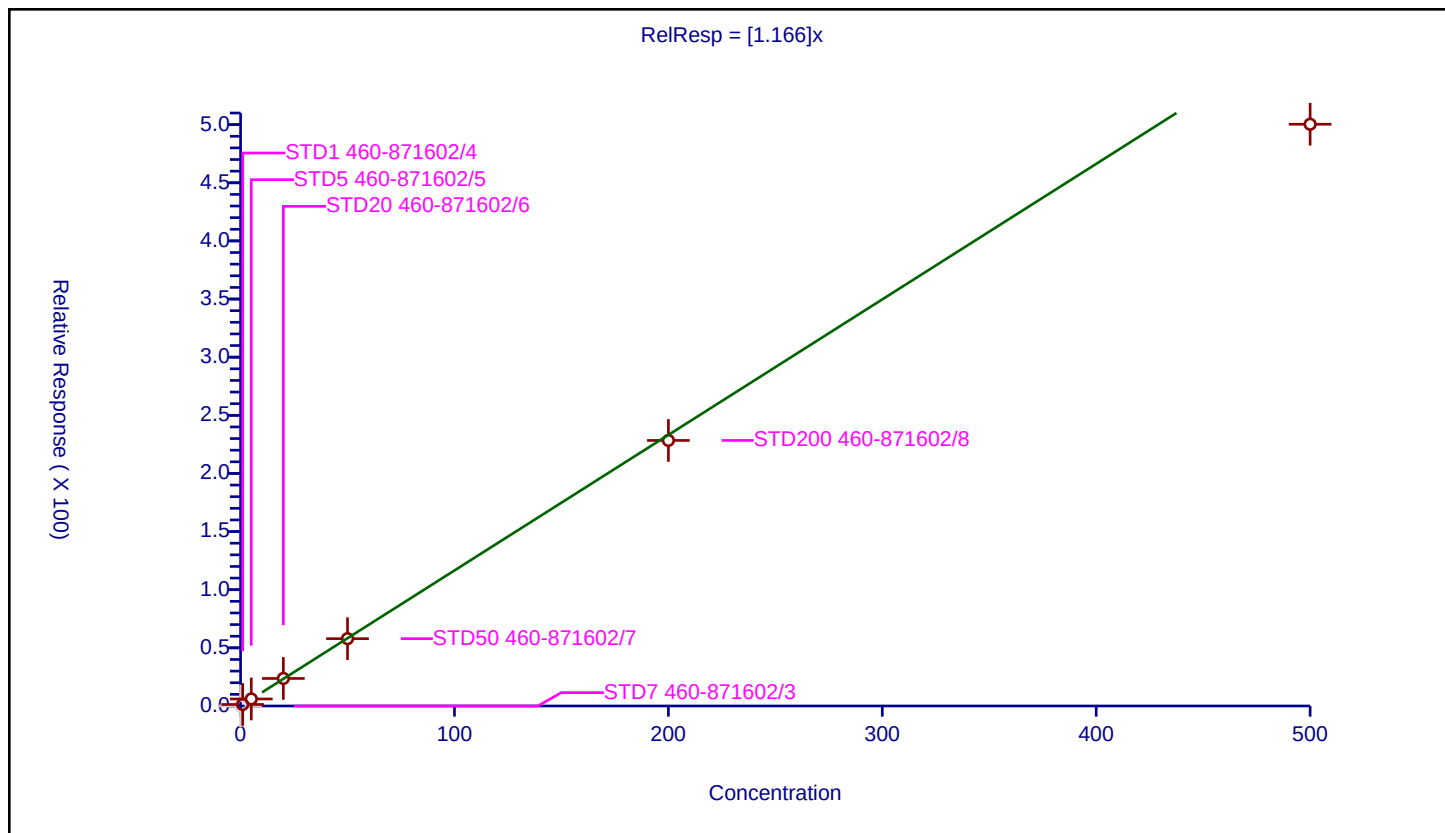
Curve Coefficients

Intercept: 0
 Slope: 1.166

Error Coefficients

Standard Error: 1110000
 Relative Standard Error: 8.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	1.300638	50.0	189061.0	1.300638	Y
3	STD5 460-871602/5	5.0	6.041437	50.0	189541.0	1.208287	Y
4	STD20 460-871602/6	20.0	23.684308	50.0	189292.0	1.184215	Y
5	STD50 460-871602/7	50.0	57.910489	50.0	195797.0	1.15821	Y
6	STD200 460-871602/8	200.0	228.406463	50.0	203202.0	1.142032	Y
7	STD500 460-871602/9	500.0	500.342103	50.0	229171.0	1.000684	Y



Calibration

/ 1,2-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

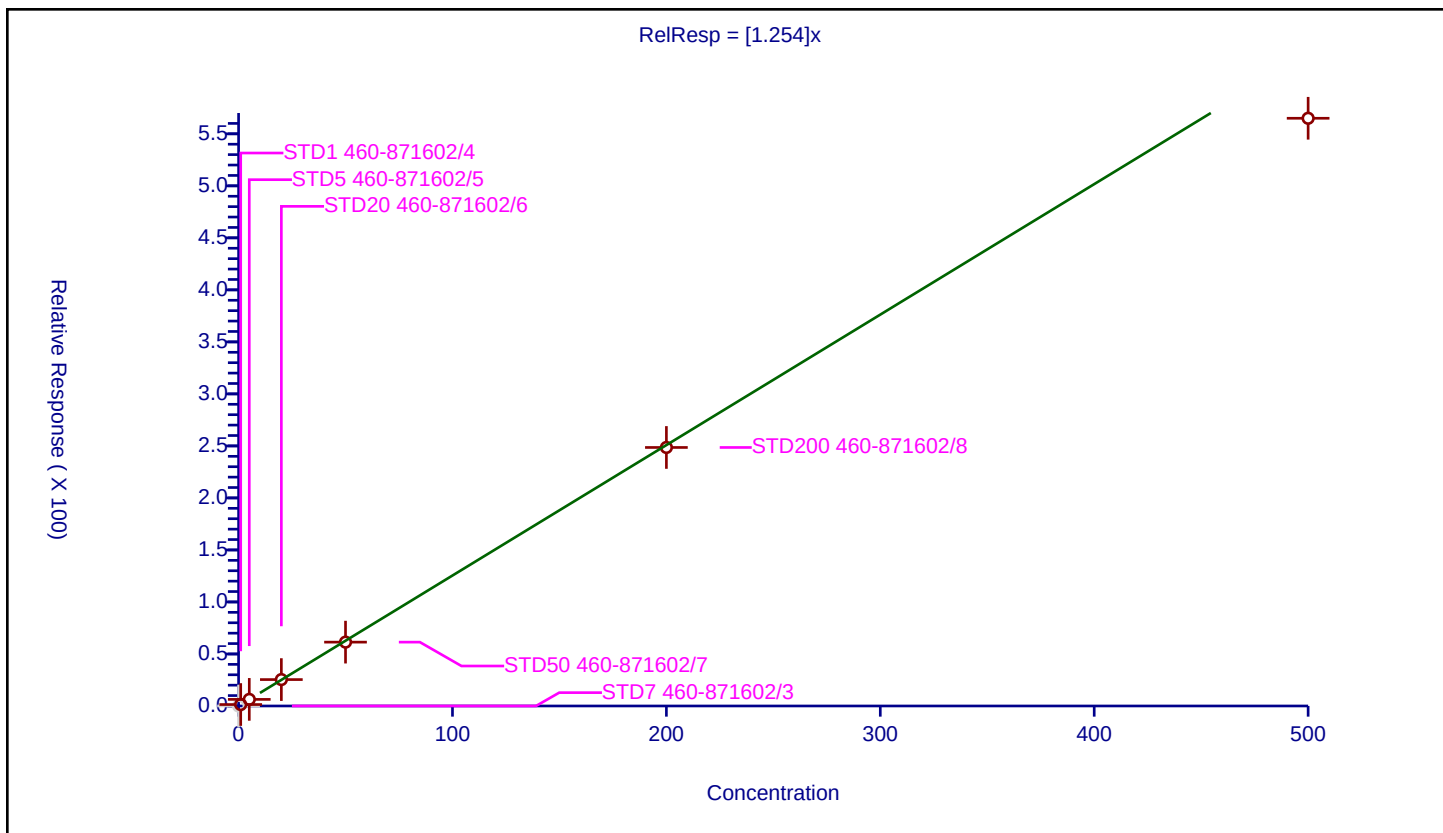
Curve Coefficients

Intercept: 0
 Slope: 1.254

Error Coefficients

Standard Error: 1250000
 Relative Standard Error: 6.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	1.387383	50.0	189061.0	1.387383	Y
3	STD5 460-871602/5	5.0	6.337415	50.0	189541.0	1.267483	Y
4	STD20 460-871602/6	20.0	25.388289	50.0	189292.0	1.269414	Y
5	STD50 460-871602/7	50.0	61.384495	50.0	195797.0	1.22769	Y
6	STD200 460-871602/8	200.0	248.514778	50.0	203202.0	1.242574	Y
7	STD500 460-871602/9	500.0	564.948226	50.0	229171.0	1.129896	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

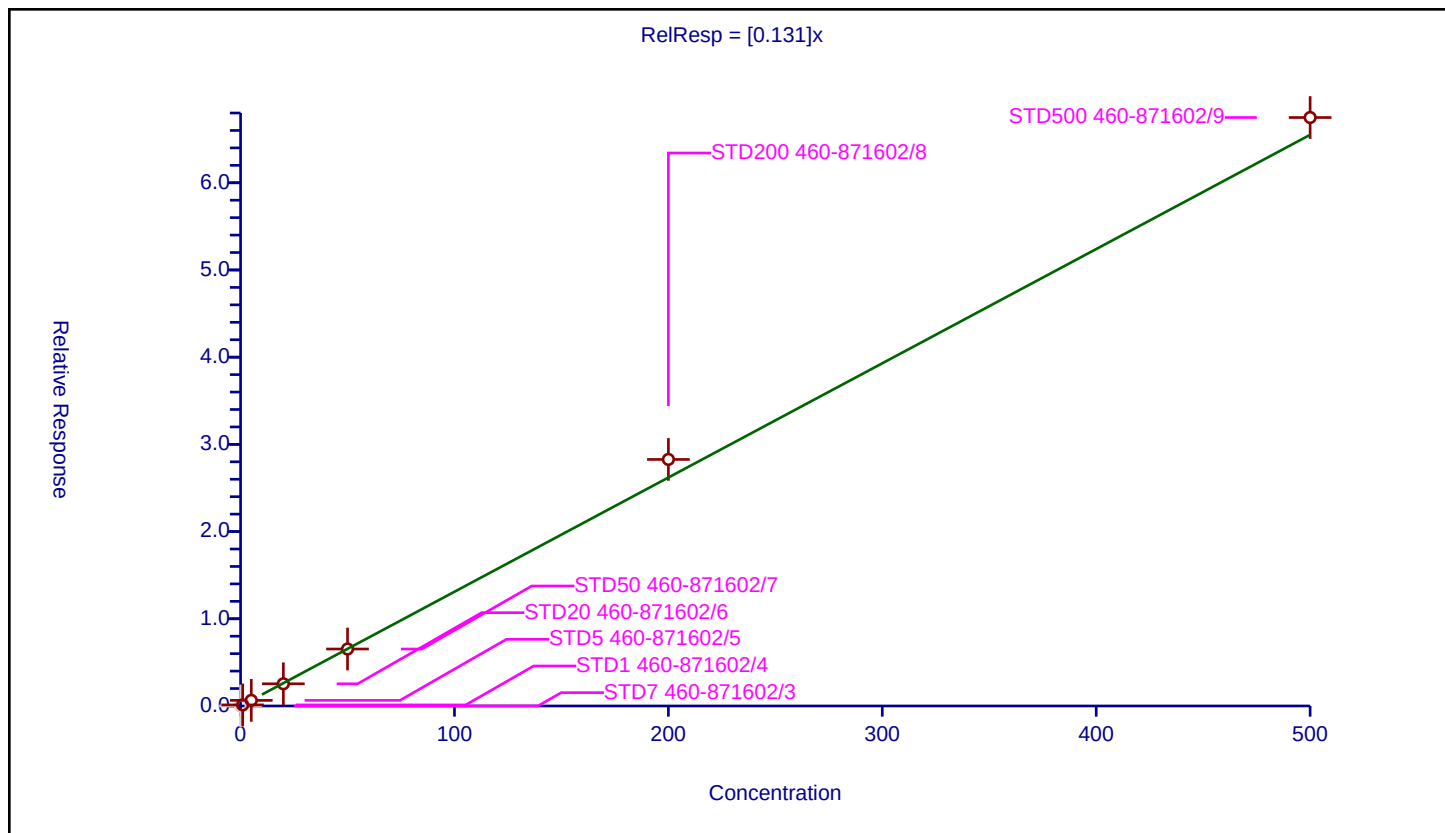
Curve Coefficients

Intercept: 0
 Slope: 0.131

Error Coefficients

Standard Error: 148000
 Relative Standard Error: 4.9
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	0.122712	50.0	189061.0	0.122712	Y
3	STD5 460-871602/5	5.0	0.644715	50.0	189541.0	0.128943	Y
4	STD20 460-871602/6	20.0	2.546066	50.0	189292.0	0.127303	Y
5	STD50 460-871602/7	50.0	6.534574	50.0	195797.0	0.130691	Y
6	STD200 460-871602/8	200.0	28.274082	50.0	203202.0	0.14137	Y
7	STD500 460-871602/9	500.0	67.482579	50.0	229171.0	0.134965	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

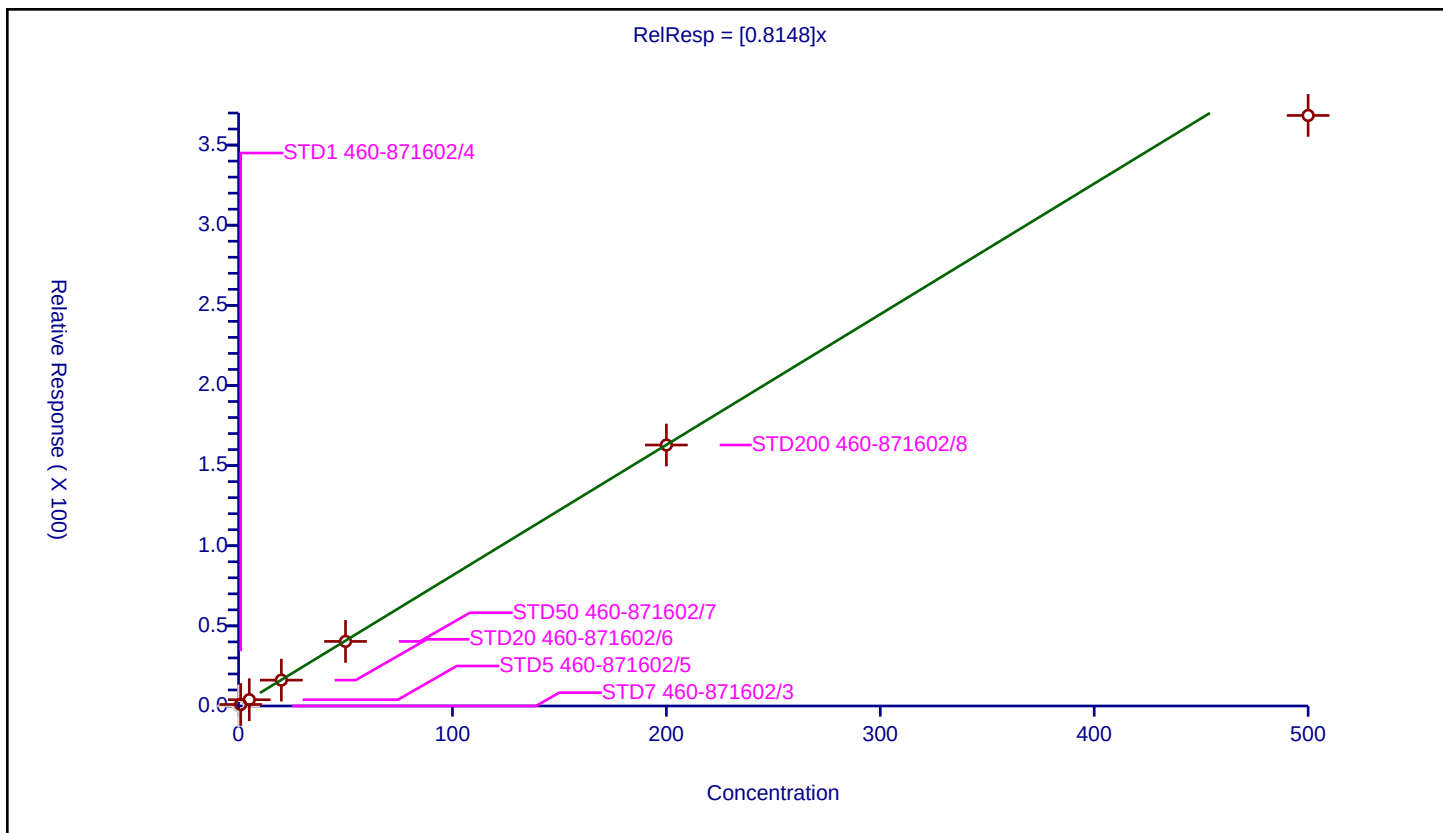
Curve Coefficients

Intercept: 0
 Slope: 0.8148

Error Coefficients

Standard Error: 815000
 Relative Standard Error: 8.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	0.939908	50.0	189061.0	0.939908	Y
3	STD5 460-871602/5	5.0	3.925536	50.0	189541.0	0.785107	Y
4	STD20 460-871602/6	20.0	16.13803	50.0	189292.0	0.806902	Y
5	STD50 460-871602/7	50.0	40.289943	50.0	195797.0	0.805799	Y
6	STD200 460-871602/8	200.0	162.840425	50.0	203202.0	0.814202	Y
7	STD500 460-871602/9	500.0	368.485105	50.0	229171.0	0.73697	Y



Calibration

/ Hexachlorobutadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

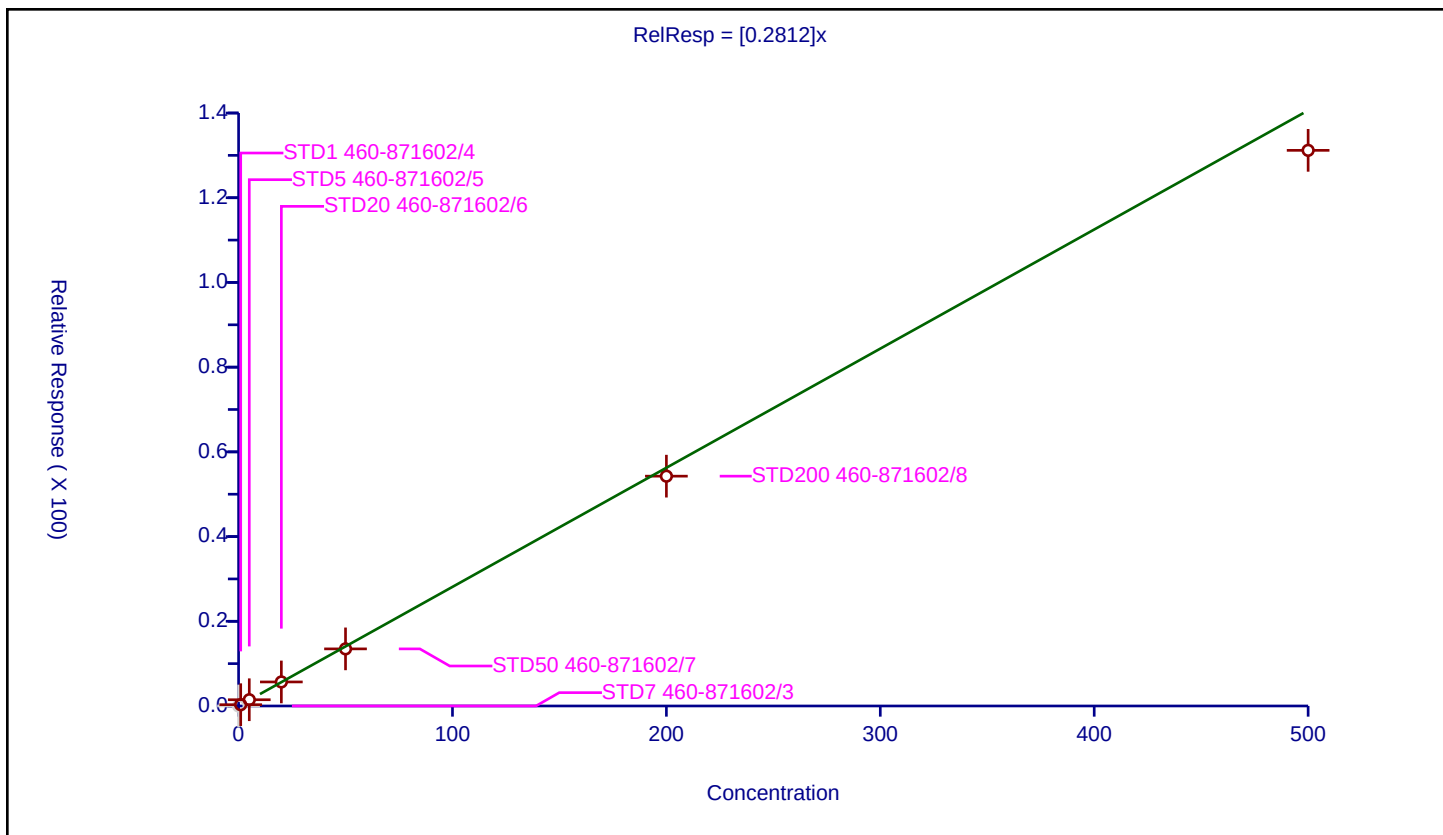
Curve Coefficients

Intercept: 0
 Slope: 0.2812

Error Coefficients

Standard Error: 287000
 Relative Standard Error: 5.8
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	0.304928	50.0	189061.0	0.304928	Y
3	STD5 460-871602/5	5.0	1.47567	50.0	189541.0	0.295134	Y
4	STD20 460-871602/6	20.0	5.678528	50.0	189292.0	0.283926	Y
5	STD50 460-871602/7	50.0	13.484885	50.0	195797.0	0.269698	Y
6	STD200 460-871602/8	200.0	54.260293	50.0	203202.0	0.271301	Y
7	STD500 460-871602/9	500.0	131.185447	50.0	229171.0	0.262371	Y



Calibration

/ Naphthalene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

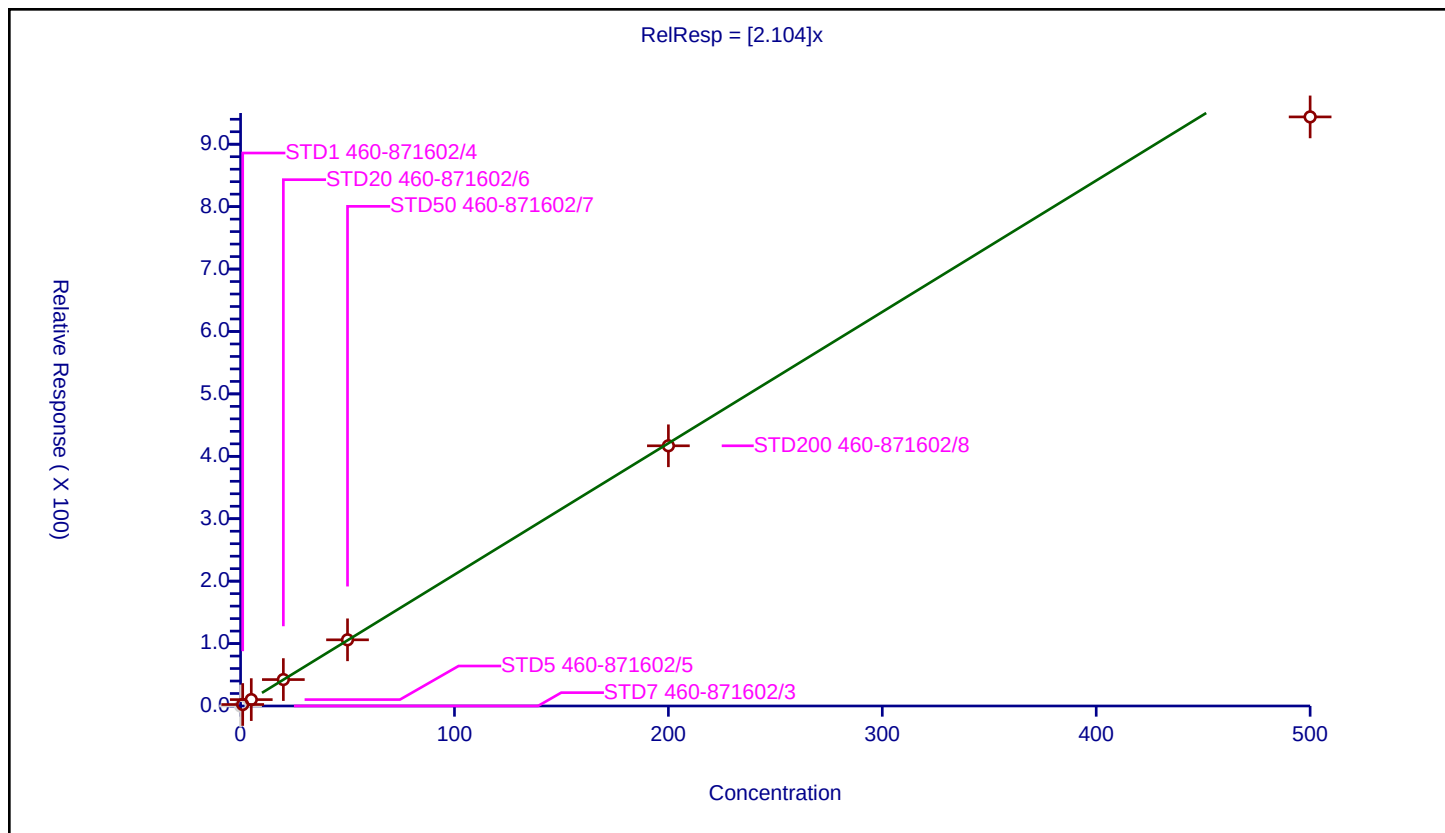
Curve Coefficients

Intercept: 0
 Slope: 2.104

Error Coefficients

Standard Error: 2090000
 Relative Standard Error: 7.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	2.370135	50.0	189061.0	2.370135	Y
3	STD5 460-871602/5	5.0	10.247123	50.0	189541.0	2.049425	Y
4	STD20 460-871602/6	20.0	42.306595	50.0	189292.0	2.11533	Y
5	STD50 460-871602/7	50.0	105.998815	50.0	195797.0	2.119976	Y
6	STD200 460-871602/8	200.0	416.854165	50.0	203202.0	2.084271	Y
7	STD500 460-871602/9	500.0	943.780409	50.0	229171.0	1.887561	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

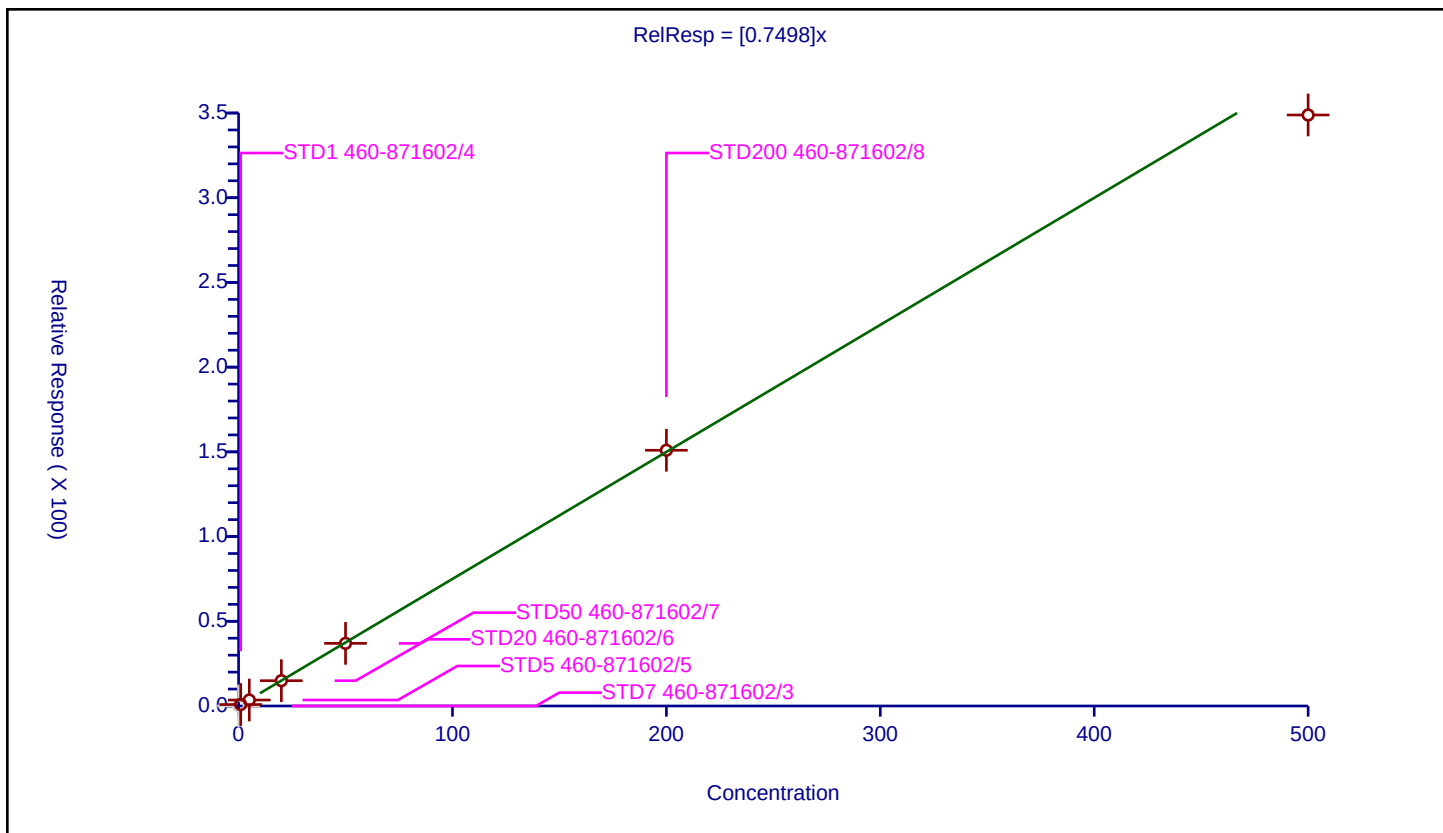
Curve Coefficients

Intercept: 0
 Slope: 0.7498

Error Coefficients

Standard Error: 769000
 Relative Standard Error: 7.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD7 460-871602/3	0.0	0.0	50.0	190101.0	NaN	N
2	STD1 460-871602/4	1.0	0.858453	50.0	189061.0	0.858453	Y
3	STD5 460-871602/5	5.0	3.511377	50.0	189541.0	0.702275	Y
4	STD20 460-871602/6	20.0	14.932749	50.0	189292.0	0.746637	Y
5	STD50 460-871602/7	50.0	36.958176	50.0	195797.0	0.739164	Y
6	STD200 460-871602/8	200.0	150.938967	50.0	203202.0	0.754695	Y
7	STD500 460-871602/9	500.0	348.833404	50.0	229171.0	0.697667	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-268503-1

SDG No.: _____

Lab Sample ID: ICV 460-871602/16 Calibration Date: 10/13/2022 04:56

Instrument ID: CVOAMS8 Calib Start Date: 10/12/2022 23:30

GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 10/13/2022 02:01

Lab File ID: J81275.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
Dichlorodifluoromethane	Ave	0.3674	0.3225		17.6	20.0	88	60-140
Chloromethane	Ave	0.5304	0.4982		18.8	20.0	94	0.1-205
Vinyl chloride	Ave	0.3527	0.3764		21.3	20.0	107	5-195
Butadiene	Ave	0.3387	0.3046		18.0	20.0	90	60-140
Bromomethane	Ave	0.1299	0.1494		23.0	20.0	115	15-185
Chloroethane	Ave	0.1740	0.1785		20.5	20.0	103	40-160
Trichlorofluoromethane	Ave	0.3747	0.3642		19.4	20.0	97	50-150
Pentane	Ave	0.4372	0.5664		51.8	40.0	130	60-140
Ethanol	Ave	0.0450	0.0335		595	800	74	60-140
Ethyl ether	Ave	0.2176	0.2204		20.3	20.0	101	60-140
2-Methyl-1,3-butadiene	Ave	0.2746	0.2996		21.8	20.0	109	60-140
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2217	0.2133		19.2	20.0	96	60-140
Acrolein	Ave	1.799	1.496		33.3	40.1	83	10-150
1,1-Dichloroethene	Ave	0.2219	0.2131		19.2	20.0	96	50-150
Acetone	Ave	0.6627	0.5453		82.3	100	82	60-140
Iodomethane	Lin2		0.1824		15.8	20.0	79	60-140
Isopropyl alcohol	Ave	0.5196	0.4000		154	200	77	60-140
Carbon disulfide	Ave	0.8155	0.8224		20.2	20.0	101	60-140
3-Chloro-1-propene	Ave	0.1557	0.1571		20.2	20.0	101	60-140
Methyl acetate	Ave	0.2143	0.2240		41.8	40.0	105	60-140
Acetonitrile	Ave	1.325	1.509		228	200	114	60-140
Methylene Chloride	Ave	0.2744	0.2682		19.5	20.0	98	60-140
2-Methyl-2-propanol	Ave	0.8017	0.6463		161	200	81	60-140
Methyl tert-butyl ether	Ave	0.6816	0.6659		19.5	20.0	98	60-140
trans-1,2-Dichloroethene	Ave	0.2515	0.2365		18.8	20.0	94	70-130
Acrylonitrile	Ave	4.784	4.845		203	200	101	60-140
Hexane	Ave	0.3133	0.3290		21.0	20.0	105	60-140
Isopropyl ether	Ave	1.042	1.149		22.1	20.0	110	60-140
1,1-Dichloroethane	Ave	0.5650	0.5568		19.7	20.0	99	70-130
Vinyl acetate	Ave	0.6615	0.7312		44.2	40.0	111	60-140
2,2-Dichloropropane	Ave	0.1453	0.1326		18.2	20.0	91	60-140
cis-1,2-Dichloroethene	Ave	0.2764	0.2715		19.6	20.0	98	60-140
2-Butanone (MEK)	Ave	0.1966	0.1764		89.8	100	90	60-140
Ethyl acetate	Ave	0.2052	0.2003		39.0	40.0	98	60-140
Chlorobromomethane	Ave	0.1224	0.1177		19.2	20.0	96	60-140
Tetrahydrofuran	Ave	0.1961	0.1985		40.5	40.0	101	60-140
Chloroform	Ave	0.4935	0.4943		20.0	20.0	100	70-135
Cyclohexane	Ave	0.3070	0.3150		20.5	20.0	103	60-140
1,1,1-Trichloroethane	Ave	0.3904	0.3792		19.4	20.0	97	70-130
Carbon tetrachloride	Ave	0.3106	0.2924		18.8	20.0	94	70-130

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-268503-1
 SDG No.: _____
 Lab Sample ID: ICV 460-871602/16 Calibration Date: 10/13/2022 04:56
 Instrument ID: CVOAMS8 Calib Start Date: 10/12/2022 23:30
 GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 10/13/2022 02:01
 Lab File ID: J81275.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
1,1-Dichloropropene	Ave	0.3745	0.3735		19.9	20.0	100	60-140
Benzene	Ave	1.394	1.503		21.6	20.0	108	65-135
Isopropyl acetate	Ave	0.7834	0.8019		20.5	20.0	102	60-140
1,2-Dichloroethane	Ave	0.4184	0.4119		19.7	20.0	98	70-130
n-Heptane	Ave	0.1247	0.1321		21.2	20.0	106	60-140
n-Butanol	Ave	0.1892	0.1567		414	500	83	60-140
Trichloroethene	Ave	0.2781	0.2635		18.9	20.0	95	65-135
Methylcyclohexane	Ave	0.3157	0.3234		20.5	20.0	102	60-140
Ethyl acrylate	Ave	0.6709	0.6737		20.1	20.0	100	60-140
1,2-Dichloropropane	Ave	0.3313	0.3122		18.8	20.0	94	35-165
Methyl methacrylate	Ave	0.0501	0.0476		38.0	40.0	95	60-140
1,4-Dioxane	Ave	0.5434	0.3693		272	400	68	60-140
Dibromomethane	Ave	0.1826	0.1715		18.8	20.0	94	60-140
n-Propyl acetate	Ave	0.4180	0.4188		20.0	20.0	100	60-140
Dichlorobromomethane	Ave	0.3711	0.3540		19.1	20.0	95	65-135
2-Chloroethyl vinyl ether	Ave	0.1839	0.1726		18.8	20.0	94	0.1-225
Epichlorohydrin	Ave	0.2009	0.1942		19.3	20.0	97	60-140
cis-1,3-Dichloropropene	Ave	0.6566	0.6386		19.4	20.0	97	25-175
4-Methyl-2-pentanone (MIBK)	Ave	2.371	2.306		97.2	100	97	60-140
Toluene	Ave	1.456	1.458		20.0	20.0	100	70-130
trans-1,3-Dichloropropene	Ave	0.5843	0.5750		19.7	20.0	98	50-150
1,1,2-Trichloroethane	Ave	0.3075	0.3054		19.9	20.0	99	70-130
Tetrachloroethene	Ave	0.3040	0.3056		20.1	20.0	101	70-130
1,3-Dichloropropane	Ave	0.5684	0.5749		20.2	20.0	101	60-140
2-Hexanone	Ave	0.7744	0.7191		92.9	100	93	60-140
n-Butyl acetate	Ave	0.6725	0.6914		20.6	20.0	103	60-140
Chlorodibromomethane	Ave	0.3245	0.3098		19.1	20.0	95	70-135
Ethylene Dibromide	Ave	0.3311	0.3242		19.6	20.0	98	60-140
Chlorobenzene	Ave	0.8794	0.8683		19.7	20.0	99	65-135
Ethylbenzene	Ave	0.4602	0.4597		20.0	20.0	100	60-140
1,1,1,2-Tetrachloroethane	Ave	0.2994	0.2926		19.5	20.0	98	60-140
m-Xylene & p-Xylene	Ave	0.5729	0.5658		19.8	20.0	99	60-140
o-Xylene	Ave	0.5760	0.5685		19.7	20.0	99	60-140
n-Butyl acrylate	Ave	0.2911	0.2931		20.1	20.0	101	60-140
Styrene	Ave	0.9873	0.9827		19.9	20.0	100	60-140
Bromoform	Ave	0.2031	0.1877		18.5	20.0	92	70-130
Amyl acetate (mixed isomers)	Ave	1.443	1.536		21.3	20.0	106	60-140
Isopropylbenzene	Ave	1.401	1.422		20.3	20.0	101	60-140
Bromobenzene	Ave	0.7028	0.6909		19.7	20.0	98	60-140
1,1,2,2-Tetrachloroethane	Ave	0.8301	0.8407		20.3	20.0	101	60-140
N-Propylbenzene	Ave	3.295	3.321		20.2	20.0	101	60-140

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-268503-1
 SDG No.: _____
 Lab Sample ID: ICV 460-871602/16 Calibration Date: 10/13/2022 04:56
 Instrument ID: CVOAMS8 Calib Start Date: 10/12/2022 23:30
 GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 10/13/2022 02:01
 Lab File ID: J81275.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
1,2,3-Trichloropropane	Ave	0.1829	0.1739		19.0	20.0	95	60-140
2-Chlorotoluene	Ave	2.353	2.407		20.5	20.0	102	60-140
1,3,5-Trimethylbenzene	Ave	2.195	2.192		20.0	20.0	100	60-140
4-Chlorotoluene	Ave	2.272	2.290		20.2	20.0	101	60-140
Butyl Methacrylate	Ave	0.8536	0.8583		20.1	20.0	101	60-140
tert-Butylbenzene	Ave	1.661	1.662		20.0	20.0	100	60-140
1,2,4-Trimethylbenzene	Ave	2.322	2.367		20.4	20.0	102	60-140
sec-Butylbenzene	Ave	2.501	2.518		20.1	20.0	101	60-140
1,3-Dichlorobenzene	Ave	1.262	1.251		19.8	20.0	99	70-130
4-Isopropyltoluene	Ave	2.076	2.100		20.2	20.0	101	60-140
1,4-Dichlorobenzene	Ave	1.321	1.313		19.9	20.0	99	65-135
1,2,3-Trimethylbenzene	Ave	2.461	2.526		20.5	20.0	103	60-140
Benzyl chloride	Ave	1.339	1.359		20.3	20.0	102	60-140
n-Butylbenzene	Ave	1.166	1.173		20.1	20.0	101	60-140
1,2-Dichlorobenzene	Ave	1.254	1.252		20.0	20.0	100	65-135
1,2-Dibromo-3-Chloropropane	Ave	0.1310	0.1172		17.9	20.0	89	60-140
1,2,4-Trichlorobenzene	Ave	0.8148	0.7824		19.2	20.0	96	60-140
Hexachlorobutadiene	Ave	0.2812	0.2845		20.2	20.0	101	60-140
Naphthalene	Ave	2.104	2.006		19.1	20.0	95	60-140
1,2,3-Trichlorobenzene	Ave	0.7498	0.7067		18.8	20.0	94	60-140
Dibromofluoromethane (Surr)	Ave	0.2174	0.2194		50.5	50.0	101	60-140
1,2-Dichloroethane-d4 (Surr)	Ave	0.2990	0.3033		50.7	50.0	101	60-140
Toluene-d8 (Surr)	Ave	1.070	1.129		52.8	50.0	106	60-140
4-Bromofluorobenzene	Ave	0.3550	0.3637		51.2	50.0	102	60-140

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81275.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 13-Oct-2022 04:56:30 ALS Bottle#: 16 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 460-0151655-016
 Operator ID: Instrument ID: CVOAMS8
 Sublist:
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 14-Oct-2022 16:05:18 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: HVW2

Date: 13-Oct-2022 05:16:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	118	1.148	1.151	-0.003	95	2626	NC	NC	
4 Dichlorodifluoromethane	85	1.173	1.175	-0.002	100	58464	20.0	17.6	
5 Chlorodifluoromethane	67	1.191	1.193	-0.002	98	10922	NC	NC	
6 Chloromethane	50	1.307	1.303	0.004	100	90322	20.0	18.8	
7 Vinyl chloride	62	1.361	1.364	-0.003	99	68231	20.0	21.3	
8 Butadiene	54	1.380	1.376	0.004	94	55213	20.0	18.0	
9 Bromomethane	94	1.574	1.577	-0.003	99	27082	20.0	23.0	
10 Chloroethane	64	1.629	1.631	-0.002	98	32361	20.0	20.5	
12 Dichlorofluoromethane	67	1.751	1.753	-0.002	99	94697	NC	NC	
11 Trichlorofluoromethane	101	1.763	1.759	0.004	98	66030	20.0	19.4	
13 Pentane	43	1.793	1.789	0.004	96	205378	40.0	51.8	
14 Ethanol	46	1.891	1.887	0.004	97	4911	800.0	594.6	
15 Ethyl ether	59	1.933	1.929	0.004	88	39959	20.0	20.3	
16 2-Methyl-1,3-butadiene	53	1.951	1.948	0.003	95	54311	20.0	21.8	
17 1,2-Dichloro-1,1,2-trifluoroethane	117	1.958	1.960	-0.002	97	29764	NC	NC	
18 1,1,1-Trifluoro-2,2-dichloroethane	83	2.000	1.996	0.004	98	63332	NC	NC	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.055	2.057	-0.002	92	38666	20.0	19.2	
19 Acrolein	56	2.061	2.057	0.004	94	10989	40.1	33.3	
21 1,1-Dichloroethene	96	2.091	2.088	0.003	92	38639	20.0	19.2	
22 Acetone	43	2.152	2.148	0.004	84	63288	100.0	82.3	
23 Iodomethane	142	2.213	2.209	0.004	99	33068	20.0	15.8	
25 Isopropyl alcohol	45	2.213	2.209	0.004	55	14669	200.0	154.0	
24 Carbon disulfide	76	2.237	2.234	0.003	100	149101	20.0	20.2	
26 3-Chloro-1-propene	76	2.335	2.331	0.004	94	28479	20.0	20.2	
28 Methyl acetate	43	2.335	2.337	-0.002	99	81215	40.0	41.8	
27 Cyclopentene	67	2.353	2.349	0.004	95	124604	NC	NC	
29 Acetonitrile	41	2.383	2.380	0.003	97	55356	200.0	227.8	
* 30 TBA-d9 (IS)	65	2.414	2.410	0.004	77	183376	1000.0	1000.0	
31 Methylene Chloride	84	2.432	2.428	0.004	95	48624	20.0	19.5	
32 2-Methyl-2-propanol	59	2.469	2.465	0.004	98	23705	200.0	161.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73	2.560	2.556	0.004	96	120728	20.0	19.5	
34 trans-1,2-Dichloroethene	96	2.584	2.580	0.004	95	42878	20.0	18.8	
35 Acrylonitrile	53	2.639	2.635	0.004	93	177700	200.0	202.6	
36 Hexane	57	2.706	2.702	0.004	94	59650	20.0	21.0	
37 Isopropyl ether	45	2.876	2.872	0.004	97	208368	20.0	22.1	
38 1,1-Dichloroethane	63	2.913	2.909	0.004	99	100949	20.0	19.7	
39 Vinyl acetate	43	2.919	2.915	0.004	100	265132	40.0	44.2	
40 2-Chloro-1,3-butadiene	88	2.949	2.945	0.004	95	40152	NC	NC	
41 Tert-butyl ethyl ether	59	3.150	3.146	0.004	86	161015	NC	NC	
* 43 2-Butanone-d5	46	3.326	3.323	0.003	96	290133	250.0	250.0	
42 2,2-Dichloropropane	79	3.339	3.335	0.003	92	24037	20.0	18.2	
44 cis-1,2-Dichloroethene	96	3.363	3.359	0.004	89	49213	20.0	19.6	
46 2-Butanone (MEK)	72	3.381	3.377	0.004	94	20474	100.0	89.8	
45 Ethyl acetate	70	3.381	3.377	0.004	96	9298	40.0	39.0	
47 Methyl acrylate	55	3.430	3.426	0.004	99	43238	NC	NC	
48 Propionitrile	54	3.497	3.493	0.004	97	64209	NC	NC	
50 Chlorobromomethane	128	3.570	3.566	0.004	93	21338	20.0	19.2	
49 Tetrahydrofuran	72	3.570	3.566	0.004	94	9215	40.0	40.5	
51 Methacrylonitrile	67	3.588	3.584	0.004	98	190101	NC	NC	
52 Chloroform	83	3.612	3.608	0.004	96	89617	20.0	20.0	
53 Cyclohexane	84	3.728	3.724	0.004	97	57106	20.0	20.5	
54 1,1,1-Trichloroethane	97	3.740	3.742	-0.002	96	68753	20.0	19.4	
\$ 55 Dibromofluoromethane (Surr)	113	3.758	3.754	0.004	94	99433	50.0	50.5	
56 Carbon tetrachloride	117	3.856	3.852	0.004	97	53018	20.0	18.8	
57 1,1-Dichloropropene	75	3.886	3.882	0.004	91	67712	20.0	19.9	
58 Isobutyl alcohol	43	4.014	4.010	0.004	94	55162	NC	NC	
59 Isooctane	57	4.038	4.034	0.004	98	107205	NC	NC	
60 Benzene	78	4.069	4.065	0.004	98	195279	20.0	21.6	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.087	4.083	0.004	0	137478	50.0	50.7	
62 Isopropyl acetate	43	4.129	4.126	0.003	94	145375	20.0	20.5	
63 Tert-amyl methyl ether	55	4.135	4.132	0.003	90	33616	NC	NC	
64 1,2-Dichloroethane	62	4.160	4.156	0.004	96	74672	20.0	19.7	
65 n-Heptane	57	4.221	4.211	0.010	97	23952	20.0	21.2	
* 66 Fluorobenzene	96	4.348	4.345	0.003	97	453232	50.0	50.0	
67 n-Butanol	56	4.671	4.667	0.004	98	14370	500.0	414.3	
68 Trichloroethene	95	4.695	4.691	0.004	91	47766	20.0	18.9	
69 Methylcyclohexane	83	4.817	4.813	0.004	85	58638	20.0	20.5	
70 Ethyl acrylate	55	4.829	4.819	0.010	97	122137	20.0	20.1	
71 1,2-Dichloropropane	63	4.987	4.983	0.004	87	56597	20.0	18.8	
* 72 1,4-Dioxane-d8	96	5.060	5.056	0.004	0	22507	1000.0	1000.0	
73 Methyl methacrylate	100	5.078	5.075	0.003	94	17258	40.0	38.0	
74 Dibromomethane	93	5.121	5.117	0.004	93	31097	20.0	18.8	
75 1,4-Dioxane	88	5.115	5.123	-0.008	38	3325	400.0	271.8	
76 n-Propyl acetate	43	5.139	5.135	0.004	99	75934	20.0	20.0	
77 Dichlorobromomethane	83	5.279	5.275	0.004	98	64169	20.0	19.1	
78 2-Nitropropane	41	5.638	5.634	0.004	81	25830	NC	NC	
79 2-Chloroethyl vinyl ether	63	5.650	5.640	0.010	83	31284	20.0	18.8	
80 Epichlorohydrin	57	5.760	5.750	0.010	91	4508	20.0	19.3	
81 cis-1,3-Dichloropropene	75	5.808	5.805	0.003	99	82978	20.0	19.4	
82 4-Methyl-2-pentanone (MIBK)	43	5.997	5.993	0.004	97	267568	100.0	97.2	
\$ 83 Toluene-d8 (Surr)	98	6.064	6.060	0.004	97	366845	50.0	52.8	
84 Toluene	91	6.149	6.145	0.004	93	189502	20.0	20.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.551	6.541	0.010	97	74717	20.0	19.7	
86 Ethyl methacrylate	69	6.593	6.589	0.004	97	55633	NC	NC	
87 1,1,2-Trichloroethane	83	6.782	6.778	0.004	93	39687	20.0	19.9	
88 Tetrachloroethene	166	6.812	6.808	0.004	92	39710	20.0	20.1	
89 1,3-Dichloropropane	76	7.013	7.009	0.004	95	74702	20.0	20.2	
90 2-Hexanone	58	7.104	7.100	0.004	98	83454	100.0	92.9	
91 n-Butyl acetate	43	7.250	7.246	0.004	95	89839	20.0	20.6	
92 Chlorodibromomethane	129	7.268	7.259	0.009	96	40262	20.0	19.1	
93 Ethylene Dibromide	107	7.433	7.423	0.010	98	42123	20.0	19.6	
* 94 Chlorobenzene-d5	117	8.017	8.013	0.004	93	324862	50.0	50.0	
95 Chlorobenzene	112	8.053	8.049	0.004	89	112830	20.0	19.7	
96 Ethylbenzene	106	8.163	8.153	0.010	100	59738	20.0	20.0	
97 1,1,1,2-Tetrachloroethane	131	8.175	8.165	0.010	93	38016	20.0	19.5	
98 m-Xylene & p-Xylene	106	8.309	8.305	0.004	0	73517	20.0	19.8	
99 o-Xylene	106	8.759	8.755	0.004	92	73874	20.0	19.7	
100 n-Butyl acrylate	73	8.777	8.773	0.004	95	38092	20.0	20.1	
101 Styrene	104	8.795	8.792	0.003	91	127703	20.0	19.9	
103 Bromoform	173	9.008	9.004	0.004	94	24393	20.0	18.5	
102 Amyl acetate (mixed isomers)	43	9.027	9.017	0.010	85	110667	20.0	21.3	
104 Isopropylbenzene	105	9.142	9.138	0.004	98	184734	20.0	20.3	
\$ 105 4-Bromofluorobenzene	174	9.337	9.333	0.004	83	118149	50.0	51.2	
106 Bromobenzene	156	9.465	9.461	0.004	93	49791	20.0	19.7	
107 1,1,2,2-Tetrachloroethane	83	9.531	9.528	0.003	99	60583	20.0	20.3	
108 N-Propylbenzene	91	9.550	9.546	0.004	98	239348	20.0	20.2	
109 1,2,3-Trichloropropane	110	9.568	9.564	0.004	96	12533	20.0	19.0	
110 trans-1,4-Dichloro-2-butene	53	9.598	9.595	0.003	85	18919	NC	NC	
111 2-Chlorotoluene	91	9.641	9.637	0.004	97	173440	20.0	20.5	
112 4-Ethyltoluene	105	9.659	9.655	0.004	97	193196	NC	NC	
113 1,3,5-Trimethylbenzene	105	9.726	9.722	0.004	91	157946	20.0	20.0	
114 4-Chlorotoluene	91	9.757	9.753	0.004	99	165010	20.0	20.2	
115 Butyl Methacrylate	87	9.842	9.838	0.004	96	61849	20.0	20.1	
116 tert-Butylbenzene	119	10.006	10.002	0.004	88	119763	20.0	20.0	
117 1,2,4-Trimethylbenzene	105	10.061	10.063	-0.002	99	170600	20.0	20.4	
118 sec-Butylbenzene	105	10.201	10.197	0.004	98	181425	20.0	20.1	
120 1,3-Dichlorobenzene	146	10.322	10.319	0.003	92	90117	20.0	19.8	
119 4-Isopropyltoluene	119	10.328	10.325	0.003	96	151330	20.0	20.2	
* 121 1,4-Dichlorobenzene-d4	152	10.389	10.385	0.004	98	180160	50.0	50.0	
122 1,4-Dichlorobenzene	146	10.408	10.404	0.004	95	94607	20.0	19.9	
123 1,2,3-Trimethylbenzene	105	10.426	10.428	-0.002	99	182061	20.0	20.5	
124 Benzyl chloride	91	10.535	10.531	0.004	96	97938	20.0	20.3	
125 2,3-Dihydroindene	117	10.590	10.586	0.004	94	173470	NC	NC	
126 p-Diethylbenzene	119	10.651	10.647	0.004	90	93274	NC	NC	
127 n-Butylbenzene	92	10.669	10.671	-0.002	97	84565	20.0	20.1	
128 1,2-Dichlorobenzene	146	10.718	10.714	0.004	93	90220	20.0	20.0	
129 1,2,4,5-Tetramethylbenzene	119	11.277	11.274	0.003	96	156151	NC	NC	
130 1,2-Dibromo-3-Chloropropane	157	11.357	11.353	0.004	87	8443	20.0	17.9	
131 1,3,5-Trichlorobenzene	180	11.466	11.462	0.004	95	62656	NC	NC	
132 1,2,4-Trichlorobenzene	180	11.941	11.937	0.004	93	56385	20.0	19.2	
133 Hexachlorobutadiene	225	12.026	12.022	0.004	93	20499	20.0	20.2	
134 Naphthalene	128	12.129	12.125	0.004	98	144549	20.0	19.1	
135 1,2,3-Trichlorobenzene	180	12.299	12.296	0.003	94	50926	20.0	18.8	
S 136 1,2-Dichloroethene, Total	100				0		40.0	38.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 137 Xylenes, Total	100				0		40.0	39.5	
S 138 Total BTEX	1				0		100.0	101.1	

QC Flag Legend

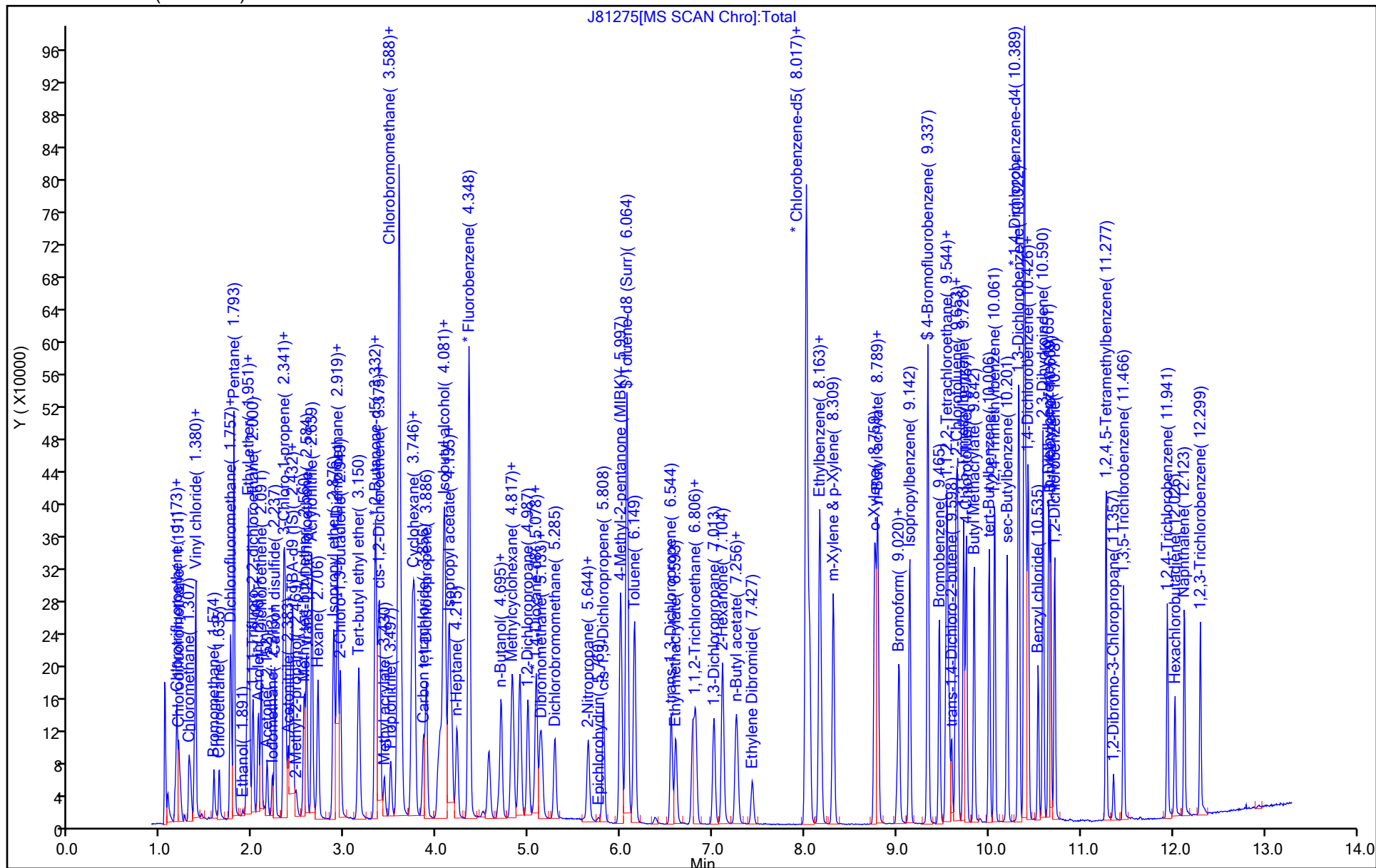
Processing Flags

NC - Not Calibrated

Reagents:

GAS C SP_00483	Amount Added: 20.00	Units: uL	
8260 SP_00159	Amount Added: 20.00	Units: uL	
8FreonsSS_00050	Amount Added: 20.00	Units: uL	
ACROLEIN SP_00142	Amount Added: 4.00	Units: uL	
8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00232	Amount Added: 1.00	Units: uL	Run Reagent

Column: Rtx-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-268503-1

SDG No.: _____

Lab Sample ID: CCVIS 460-875754/3 Calibration Date: 11/03/2022 08:29

Instrument ID: CVOAMS8 Calib Start Date: 10/12/2022 23:30

GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 10/13/2022 02:01

Lab File ID: J82192.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
Dichlorodifluoromethane	Ave	0.3674	0.3081		16.8	20.0	84	60-140
Chloromethane	Ave	0.5304	0.2976		11.2	20.0	56	0.1-205
Vinyl chloride	Ave	0.3527	0.2356		13.4	20.0	67	5-195
Butadiene	Ave	0.3387	0.2085		12.3	20.0	62	60-140
Bromomethane	Ave	0.1299	0.0999		15.4	20.0	77	15-185
Chloroethane	Ave	0.1740	0.1261		14.5	20.0	72	40-160
Trichlorofluoromethane	Ave	0.3747	0.3566		19.0	20.0	95	50-150
Pentane	Ave	0.4372	0.3132		28.7	40.0	72	60-140
Ethanol	Ave	0.0450	0.0569		1010	800	126	60-140
Ethyl ether	Ave	0.2176	0.1552		14.3	20.0	71	60-140
2-Methyl-1,3-butadiene	Ave	0.2746	0.2105		15.3	20.0	77	60-140
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2217	0.2482		22.4	20.0	112	60-140
Acrolein	Ave	1.799	1.355		30.1	40.0	75	10-150
1,1-Dichloroethene	Ave	0.2219	0.2156		19.4	20.0	97	50-150
Acetone	Ave	0.6627	0.5697		86.0	100	86	60-140
Iodomethane	Lin2		0.1665		14.4	20.0	72	60-140
Isopropyl alcohol	Ave	0.5196	0.6558		252	200	126	60-140
Carbon disulfide	Ave	0.8155	0.8344		20.5	20.0	102	60-140
3-Chloro-1-propene	Ave	0.1557	0.1358		17.4	20.0	87	60-140
Methyl acetate	Ave	0.2143	0.1240		23.1	40.0	58*	60-140
Acetonitrile	Ave	1.325	1.366		206	200	103	60-140
Methylene Chloride	Ave	0.2744	0.2599		18.9	20.0	95	60-140
2-Methyl-2-propanol	Ave	0.8017	0.9779		244	200	122	60-140
Methyl tert-butyl ether	Ave	0.6816	0.5279		15.5	20.0	77	60-140
trans-1,2-Dichloroethene	Ave	0.2515	0.2423		19.3	20.0	96	70-130
Acrylonitrile	Ave	4.784	4.178		175	200	87	60-140
Hexane	Ave	0.3133	0.2339		14.9	20.0	75	60-140
Isopropyl ether	Ave	1.042	0.5627		10.8	20.0	54*	60-140
1,1-Dichloroethane	Ave	0.5650	0.4525		16.0	20.0	80	70-130
Vinyl acetate	Ave	0.6615	0.3802		23.0	40.0	57*	60-140
2,2-Dichloropropane	Ave	0.1453	0.1189		16.4	20.0	82	60-140
cis-1,2-Dichloroethene	Ave	0.2764	0.2809		20.3	20.0	102	60-140
2-Butanone (MEK)	Ave	0.1966	0.2360		120	100	120	60-140
Ethyl acetate	Ave	0.2052	0.2905		56.6	40.0	142*	60-140
Chlorobromomethane	Ave	0.1224	0.1402		22.9	20.0	115	60-140
Tetrahydrofuran	Ave	0.1961	0.2523		51.5	40.0	129	60-140
Chloroform	Ave	0.4935	0.4642		18.8	20.0	94	70-135
Cyclohexane	Ave	0.3070	0.3011		19.6	20.0	98	60-140
1,1,1-Trichloroethane	Ave	0.3904	0.3916		20.1	20.0	100	70-130
Carbon tetrachloride	Ave	0.3106	0.3344		21.5	20.0	108	70-130

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-268503-1

SDG No.: _____

Lab Sample ID: CCVIS 460-875754/3 Calibration Date: 11/03/2022 08:29

Instrument ID: CVOAMS8 Calib Start Date: 10/12/2022 23:30

GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 10/13/2022 02:01

Lab File ID: J82192.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
1,1-Dichloropropene	Ave	0.3745	0.3196		17.1	20.0	85	60-140
Benzene	Ave	1.394	0.9703		13.9	20.0	70	65-135
Isopropyl acetate	Ave	0.7834	0.4166		10.6	20.0	53*	60-140
1,2-Dichloroethane	Ave	0.4184	0.3403		16.3	20.0	81	70-130
n-Heptane	Ave	0.1247	0.0824		13.2	20.0	66	60-140
n-Butanol	Ave	0.1892	0.3423		905	500	181*	60-140
Trichloroethene	Ave	0.2781	0.3217		23.1	20.0	116	65-135
Methylcyclohexane	Ave	0.3157	0.3493		22.1	20.0	111	60-140
Ethyl acrylate	Ave	0.6709	0.5466		16.3	20.0	81	60-140
1,2-Dichloropropane	Ave	0.3313	0.3164		19.1	20.0	95	35-165
Methyl methacrylate	Ave	0.0501	0.0536		42.8	40.0	107	60-140
1,4-Dioxane	Ave	0.5434	1.075		792	400	198*	60-140
Dibromomethane	Ave	0.1826	0.2164		23.7	20.0	119	60-140
n-Propyl acetate	Ave	0.4180	0.2653		12.7	20.0	63	60-140
Dichlorobromomethane	Ave	0.3711	0.4034		21.7	20.0	109	65-135
2-Chloroethyl vinyl ether	Ave	0.1839	0.1153		12.6	20.0	63	0.1-225
Epichlorohydrin	Ave	0.2009	0.2688		535	400	134	60-140
cis-1,3-Dichloropropene	Ave	0.6566	0.4642		14.1	20.0	71	25-175
4-Methyl-2-pentanone (MIBK)	Ave	2.371	2.274		95.9	100	96	60-140
Toluene	Ave	1.456	1.212		16.7	20.0	83	70-130
trans-1,3-Dichloropropene	Ave	0.5843	0.3844		13.2	20.0	66	50-150
1,1,2-Trichloroethane	Ave	0.3075	0.2564		16.7	20.0	83	70-130
Tetrachloroethene	Ave	0.3040	0.3396		22.3	20.0	112	70-130
1,3-Dichloropropane	Ave	0.5684	0.4253		15.0	20.0	75	60-140
2-Hexanone	Ave	0.7744	0.8540		110	100	110	60-140
n-Butyl acetate	Ave	0.6725	0.2646		7.87	20.0	39*	60-140
Chlorodibromomethane	Ave	0.3245	0.3326		20.5	20.0	103	70-135
Ethylene Dibromide	Ave	0.3311	0.2950		17.8	20.0	89	60-140
Chlorobenzene	Ave	0.8794	0.8591		19.5	20.0	98	65-135
Ethylbenzene	Ave	0.4602	0.3831		16.6	20.0	83	60-140
1,1,1,2-Tetrachloroethane	Ave	0.2994	0.2915		19.5	20.0	97	60-140
m-Xylene & p-Xylene	Ave	0.5729	0.4784		16.7	20.0	84	60-140
o-Xylene	Ave	0.5760	0.4619		16.0	20.0	80	60-140
n-Butyl acrylate	Ave	0.2911	0.1853		12.7	20.0	64	60-140
Styrene	Ave	0.9873	0.9029		18.3	20.0	91	60-140
Bromoform	Ave	0.2031	0.2301		22.7	20.0	113	70-130
Amyl acetate (mixed isomers)	Ave	1.443	0.5439		7.54	20.0	38*	60-140
Isopropylbenzene	Ave	1.401	1.165		16.6	20.0	83	60-140
Bromobenzene	Ave	0.7028	0.6202		17.6	20.0	88	60-140
1,1,2,2-Tetrachloroethane	Ave	0.8301	0.6432		15.5	20.0	77	60-140
N-Propylbenzene	Ave	3.295	2.279		13.8	20.0	69	60-140

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-268503-1

SDG No.: _____

Lab Sample ID: CCVIS 460-875754/3 Calibration Date: 11/03/2022 08:29

Instrument ID: CVOAMS8 Calib Start Date: 10/12/2022 23:30

GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 10/13/2022 02:01

Lab File ID: J82192.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
1,2,3-Trichloropropane	Ave	0.1829	0.1465		16.0	20.0	80	60-140
2-Chlorotoluene	Ave	2.353	1.742		14.8	20.0	74	60-140
1,3,5-Trimethylbenzene	Ave	2.195	1.640		14.9	20.0	75	60-140
4-Chlorotoluene	Ave	2.272	1.687		14.9	20.0	74	60-140
Butyl Methacrylate	Ave	0.8536	0.5090		11.9	20.0	60	60-140
tert-Butylbenzene	Ave	1.661	1.222		14.7	20.0	74	60-140
1,2,4-Trimethylbenzene	Ave	2.322	1.749		15.1	20.0	75	60-140
sec-Butylbenzene	Ave	2.501	1.822		14.6	20.0	73	60-140
1,3-Dichlorobenzene	Ave	1.262	1.134		18.0	20.0	90	70-130
4-Isopropyltoluene	Ave	2.076	1.554		15.0	20.0	75	60-140
1,4-Dichlorobenzene	Ave	1.321	1.179		17.9	20.0	89	65-135
1,2,3-Trimethylbenzene	Ave	2.461	1.887		15.3	20.0	77	60-140
Benzyl chloride	Ave	1.339	1.009		15.1	20.0	75	60-140
n-Butylbenzene	Ave	1.166	0.8797		15.1	20.0	75	60-140
1,2-Dichlorobenzene	Ave	1.254	1.179		18.8	20.0	94	65-135
1,2-Dibromo-3-Chloropropane	Ave	0.1310	0.1288		19.7	20.0	98	60-140
1,2,4-Trichlorobenzene	Ave	0.8148	0.7061		17.3	20.0	87	60-140
Hexachlorobutadiene	Ave	0.2812	0.2819		20.1	20.0	100	60-140
Naphthalene	Ave	2.104	1.663		15.8	20.0	79	60-140
1,2,3-Trichlorobenzene	Ave	0.7498	0.6729		17.9	20.0	90	60-140
Dibromofluoromethane (Surr)	Ave	0.2174	0.2453		56.4	50.0	12.8	
1,2-Dichloroethane-d4 (Surr)	Ave	0.2990	0.2643		44.2	50.0	-11.6	
Toluene-d8 (Surr)	Ave	1.070	1.053		49.2	50.0	-1.5	
4-Bromofluorobenzene	Ave	0.3550	0.4113		57.9	50.0	15.9	

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82192.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 03-Nov-2022 08:29:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 460-0152676-003
 Operator ID: Instrument ID: CVOAMS8
 Sublist: chrom-8260_W8*sub61
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 20:00:48 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: HVW2

Date: 03-Nov-2022 20:00:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	118	1.143	1.143	0.000	90	3852	NC	NC	
4 Dichlorodifluoromethane	85	1.167	1.167	0.000	99	57847	20.0	16.8	
5 Chlorodifluoromethane	67	1.185	1.185	0.000	98	10269	NC	NC	
6 Chloromethane	50	1.295	1.295	0.000	99	55871	20.0	11.2	
7 Vinyl chloride	62	1.350	1.350	0.000	99	44237	20.0	13.4	
8 Butadiene	54	1.368	1.368	0.000	97	39144	20.0	12.3	
9 Bromomethane	94	1.563	1.563	0.000	98	18749	20.0	15.4	
10 Chloroethane	64	1.617	1.617	0.000	99	23673	20.0	14.5	
12 Dichlorofluoromethane	67	1.739	1.739	0.000	99	77699	NC	NC	
11 Trichlorofluoromethane	101	1.751	1.751	0.000	98	66948	20.0	19.0	
13 Pentane	43	1.782	1.782	0.000	94	117600	40.0	28.7	
14 Ethanol	46	1.879	1.879	0.000	97	6859	800.0	1010.9	
15 Ethyl ether	59	1.915	1.915	0.000	98	29142	20.0	14.3	
16 2-Methyl-1,3-butadiene	53	1.934	1.934	0.000	97	39529	20.0	15.3	
17 1,2-Dichloro-1,1,2-trifluoroethane	117	1.946	1.946	0.000	93	34830	NC	NC	
18 1,1,1-Trifluoro-2,2-dichloroethane	83	1.988	1.988	0.000	98	62584	NC	NC	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.043	2.043	0.000	97	46595	20.0	22.4	
19 Acrolein	56	2.049	2.049	0.000	45	8164	40.0	30.1	
21 1,1-Dichloroethene	96	2.074	2.074	0.000	99	40488	20.0	19.4	
22 Acetone	43	2.141	2.141	0.000	85	42506	100.0	86.0	
23 Iodomethane	142	2.195	2.195	0.000	99	31259	20.0	14.4	
25 Isopropyl alcohol	45	2.201	2.201	0.000	74	19758	200.0	252.5	
24 Carbon disulfide	76	2.226	2.226	0.000	99	156657	20.0	20.5	
26 3-Chloro-1-propene	76	2.317	2.317	0.000	93	25501	20.0	17.4	
28 Methyl acetate	43	2.323	2.323	0.000	100	46552	40.0	23.1	
27 Cyclopentene	67	2.335	2.335	0.000	96	92849	NC	NC	
29 Acetonitrile	41	2.366	2.366	0.000	99	41169	200.0	206.2	
* 30 TBA-d9 (IS)	65	2.402	2.402	0.000	81	150637	1000.0	1000.0	
31 Methylene Chloride	84	2.420	2.420	0.000	90	48793	20.0	18.9	
32 2-Methyl-2-propanol	59	2.457	2.457	0.000	98	29462	200.0	244.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73	2.542	2.542	0.000	96	99111	20.0	15.5	
34 trans-1,2-Dichloroethene	96	2.566	2.566	0.000	97	45498	20.0	19.3	
35 Acrylonitrile	53	2.627	2.627	0.000	94	125868	200.0	174.7	
36 Hexane	57	2.688	2.688	0.000	91	43915	20.0	14.9	
37 Isopropyl ether	45	2.858	2.858	0.000	96	105657	20.0	10.8	
38 1,1-Dichloroethane	63	2.895	2.895	0.000	99	84964	20.0	16.0	
39 Vinyl acetate	43	2.901	2.901	0.000	100	142767	40.0	23.0	
40 2-Chloro-1,3-butadiene	88	2.931	2.931	0.000	93	36720	NC	NC	
41 Tert-butyl ethyl ether	59	3.132	3.132	0.000	88	103358	NC	NC	
* 43 2-Butanone-d5	46	3.315	3.315	0.000	99	186523	250.0	250.0	
42 2,2-Dichloropropane	79	3.315	3.315	0.000	93	22323	20.0	16.4	
44 cis-1,2-Dichloroethene	96	3.345	3.345	0.000	98	52740	20.0	20.3	
45 Ethyl acetate	70	3.363	3.363	0.000	96	8670	40.0	56.6	
46 2-Butanone (MEK)	72	3.363	3.363	0.000	96	17606	100.0	120.1	
47 Methyl acrylate	55	3.412	3.412	0.000	100	27704	NC	NC	
48 Propionitrile	54	3.479	3.479	0.000	97	48906	NC	NC	
50 Chlorobromomethane	128	3.546	3.546	0.000	85	26322	20.0	22.9	
49 Tetrahydrofuran	72	3.552	3.552	0.000	53	7529	40.0	51.5	
51 Methacrylonitrile	67	3.570	3.570	0.000	90	149989	NC	NC	
52 Chloroform	83	3.594	3.594	0.000	99	87156	20.0	18.8	
53 Cyclohexane	84	3.710	3.710	0.000	92	56527	20.0	19.6	
54 1,1,1-Trichloroethane	97	3.722	3.722	0.000	98	73530	20.0	20.1	
\$ 55 Dibromofluoromethane (Surr)	113	3.740	3.740	0.000	96	115129	50.0	56.4	
56 Carbon tetrachloride	117	3.832	3.832	0.000	99	62784	20.0	21.5	
57 1,1-Dichloropropene	75	3.862	3.862	0.000	97	60009	20.0	17.1	
58 Isobutyl alcohol	43	3.996	3.996	0.000	95	43572	NC	NC	
59 Isooctane	57	4.014	4.014	0.000	97	74491	NC	NC	a
60 Benzene	78	4.051	4.051	0.000	97	178184	20.0	13.9	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.069	4.069	0.000	0	124056	50.0	44.2	
62 Isopropyl acetate	43	4.112	4.112	0.000	92	78209	20.0	10.6	
63 Tert-amyl methyl ether	55	4.112	4.112	0.000	88	26499	NC	NC	
64 1,2-Dichloroethane	62	4.142	4.142	0.000	99	63895	20.0	16.3	
65 n-Heptane	57	4.197	4.197	0.000	90	15480	20.0	13.2	
* 66 Fluorobenzene	96	4.331	4.331	0.000	98	469380	50.0	50.0	
67 n-Butanol	56	4.647	4.647	0.000	90	25779	500.0	904.7	
68 Trichloroethene	95	4.677	4.677	0.000	99	60402	20.0	23.1	
69 Methylcyclohexane	83	4.793	4.793	0.000	93	65580	20.0	22.1	
70 Ethyl acrylate	55	4.805	4.805	0.000	97	102621	20.0	16.3	
71 1,2-Dichloropropane	63	4.963	4.963	0.000	93	59410	20.0	19.1	
* 72 1,4-Dioxane-d8	96	5.036	5.036	0.000	0	31040	1000.0	1000.0	
73 Methyl methacrylate	100	5.055	5.055	0.000	88	20116	40.0	42.8	
75 1,4-Dioxane	88	5.097	5.097	0.000	45	13352	400.0	791.5	
74 Dibromomethane	93	5.097	5.097	0.000	98	40626	20.0	23.7	
76 n-Propyl acetate	43	5.121	5.121	0.000	97	49813	20.0	12.7	
77 Dichlorobromomethane	83	5.255	5.255	0.000	99	75736	20.0	21.7	
78 2-Nitropropane	41	5.614	5.614	0.000	85	17474	NC	NC	
79 2-Chloroethyl vinyl ether	63	5.626	5.626	0.000	86	21700	20.0	12.6	
80 Epichlorohydrin	57	5.730	5.730	0.000	99	80206	400.0	535.2	
81 cis-1,3-Dichloropropene	75	5.785	5.785	0.000	91	85251	20.0	14.1	
82 4-Methyl-2-pentanone (MIBK)	43	5.973	5.973	0.000	96	169696	100.0	95.9	
\$ 83 Toluene-d8 (Surr)	98	6.040	6.040	0.000	99	483518	50.0	49.2	
84 Toluene	91	6.125	6.125	0.000	93	222655	20.0	16.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.521	6.521	0.000	96	70599	20.0	13.2	
86 Ethyl methacrylate	69	6.575	6.575	0.000	87	45061	NC	NC	
87 1,1,2-Trichloroethane	83	6.758	6.758	0.000	97	47095	20.0	16.7	
88 Tetrachloroethene	166	6.788	6.788	0.000	97	62370	20.0	22.3	
89 1,3-Dichloropropane	76	6.983	6.983	0.000	93	78103	20.0	15.0	
90 2-Hexanone	58	7.080	7.080	0.000	96	63713	100.0	110.3	
91 n-Butyl acetate	43	7.226	7.226	0.000	98	48592	20.0	7.87	
92 Chlorodibromomethane	129	7.238	7.238	0.000	98	61079	20.0	20.5	
93 Ethylene Dibromide	107	7.403	7.403	0.000	98	54177	20.0	17.8	
* 94 Chlorobenzene-d5	117	7.993	7.993	0.000	85	459118	50.0	50.0	
95 Chlorobenzene	112	8.029	8.029	0.000	96	157770	20.0	19.5	
96 Ethylbenzene	106	8.139	8.139	0.000	98	70349	20.0	16.6	
97 1,1,1,2-Tetrachloroethane	131	8.151	8.151	0.000	97	53537	20.0	19.5	
98 m-Xylene & p-Xylene	106	8.291	8.291	0.000	0	87854	20.0	16.7	
99 o-Xylene	106	8.741	8.741	0.000	94	84819	20.0	16.0	
100 n-Butyl acrylate	73	8.759	8.759	0.000	97	34033	20.0	12.7	
101 Styrene	104	8.778	8.778	0.000	96	165809	20.0	18.3	
103 Bromoform	173	8.984	8.984	0.000	97	42255	20.0	22.7	
102 Amyl acetate (mixed isomers)	43	9.009	9.009	0.000	91	64949	20.0	7.54	
104 Isopropylbenzene	105	9.124	9.124	0.000	96	213920	20.0	16.6	
\$ 105 4-Bromofluorobenzene	174	9.319	9.319	0.000	95	188816	50.0	57.9	
106 Bromobenzene	156	9.447	9.447	0.000	94	74054	20.0	17.6	
107 1,1,2,2-Tetrachloroethane	83	9.514	9.514	0.000	98	76800	20.0	15.5	
108 N-Propylbenzene	91	9.532	9.532	0.000	99	272110	20.0	13.8	
109 1,2,3-Trichloropropane	110	9.550	9.550	0.000	98	17488	20.0	16.0	
110 trans-1,4-Dichloro-2-butene	53	9.581	9.581	0.000	94	16578	NC	NC	
111 2-Chlorotoluene	91	9.629	9.629	0.000	96	208004	20.0	14.8	
112 4-Ethyltoluene	105	9.641	9.641	0.000	98	237605	NC	NC	
113 1,3,5-Trimethylbenzene	105	9.708	9.708	0.000	92	195877	20.0	14.9	
114 4-Chlorotoluene	91	9.739	9.739	0.000	97	201430	20.0	14.9	
115 Butyl Methacrylate	87	9.824	9.824	0.000	90	60781	20.0	11.9	
116 tert-Butylbenzene	119	9.988	9.988	0.000	93	145932	20.0	14.7	
117 1,2,4-Trimethylbenzene	105	10.049	10.049	0.000	97	208887	20.0	15.1	
118 sec-Butylbenzene	105	10.183	10.183	0.000	99	217559	20.0	14.6	
120 1,3-Dichlorobenzene	146	10.305	10.305	0.000	97	135429	20.0	18.0	
119 4-Isopropyltoluene	119	10.317	10.317	0.000	97	185612	20.0	15.0	
* 121 1,4-Dichlorobenzene-d4	152	10.371	10.371	0.000	94	298524	50.0	50.0	
122 1,4-Dichlorobenzene	146	10.390	10.390	0.000	96	140817	20.0	17.9	
123 1,2,3-Trimethylbenzene	105	10.414	10.414	0.000	98	225344	20.0	15.3	
124 Benzyl chloride	91	10.517	10.517	0.000	99	120441	20.0	15.1	
125 2,3-Dihydroindene	117	10.572	10.572	0.000	94	226252	NC	NC	
126 p-Diethylbenzene	119	10.633	10.633	0.000	92	120524	NC	NC	
127 n-Butylbenzene	92	10.657	10.657	0.000	98	105050	20.0	15.1	
128 1,2-Dichlorobenzene	146	10.700	10.700	0.000	97	140745	20.0	18.8	
129 1,2,4,5-Tetramethylbenzene	119	11.260	11.260	0.000	97	173177	NC	NC	
130 1,2-Dibromo-3-Chloropropane	157	11.345	11.345	0.000	94	15377	20.0	19.7	
131 1,3,5-Trichlorobenzene	180	11.448	11.448	0.000	97	94582	NC	NC	
132 1,2,4-Trichlorobenzene	180	11.929	11.929	0.000	94	84316	20.0	17.3	
133 Hexachlorobutadiene	225	12.008	12.008	0.000	96	33666	20.0	20.1	
134 Naphthalene	128	12.111	12.111	0.000	100	198608	20.0	15.8	
135 1,2,3-Trichlorobenzene	180	12.288	12.288	0.000	95	80345	20.0	17.9	
S 136 1,2-Dichloroethene, Total	100				0		40.0	39.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 137 Xylenes, Total	100				0		40.0	32.7	
S 138 Total BTEX	1				0		100.0	80.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

524freon_00059	Amount Added: 20.00	Units: uL	
GASES Li_00500	Amount Added: 20.00	Units: uL	
8260MIX1COMB_00161	Amount Added: 20.00	Units: uL	
ACROLEIN W_00145	Amount Added: 4.00	Units: uL	
8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00233	Amount Added: 1.00	Units: uL	Run Reagent

Chrom Revision: 2.3 25-Oct-2022 11:16:06

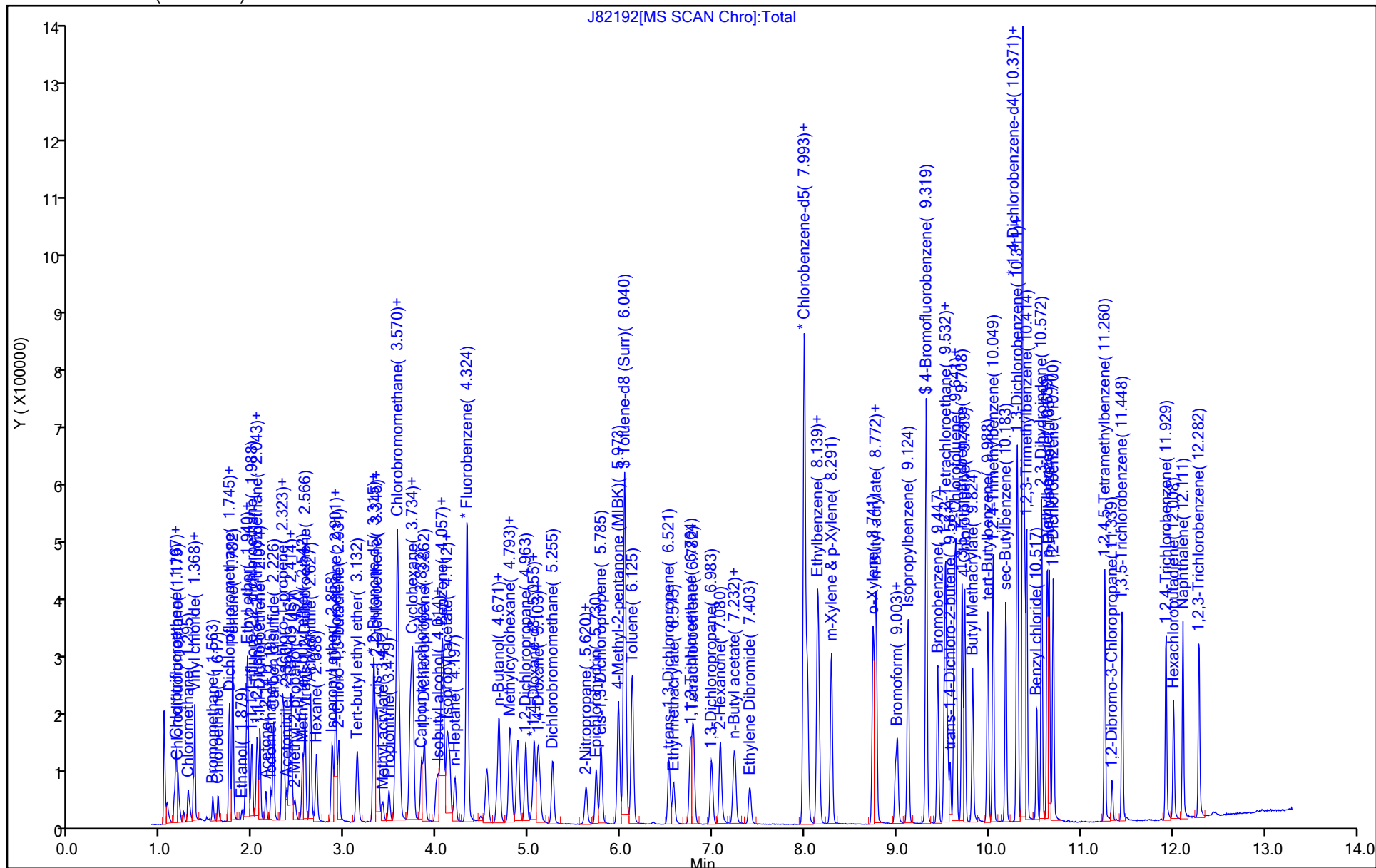
Operator ID:
Worklist Smp#: 3

ALS Bottle#: 2

Dil. Factor: 1.0000
Limit Group: VOA 624.1 ICAL

ALS Bottle#: 2

Column: Rtx-624 (0.25 mm)



Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81260.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 12-Oct-2022 22:40:30 ALS Bottle#: 9 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 460-0151655-001
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 14-Oct-2022 16:05:18 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: HVW2

Date: 12-Oct-2022 22:51:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 139 BFB	95	3.910	3.910	0.000	74	54901	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_00032

Amount Added: 1.00

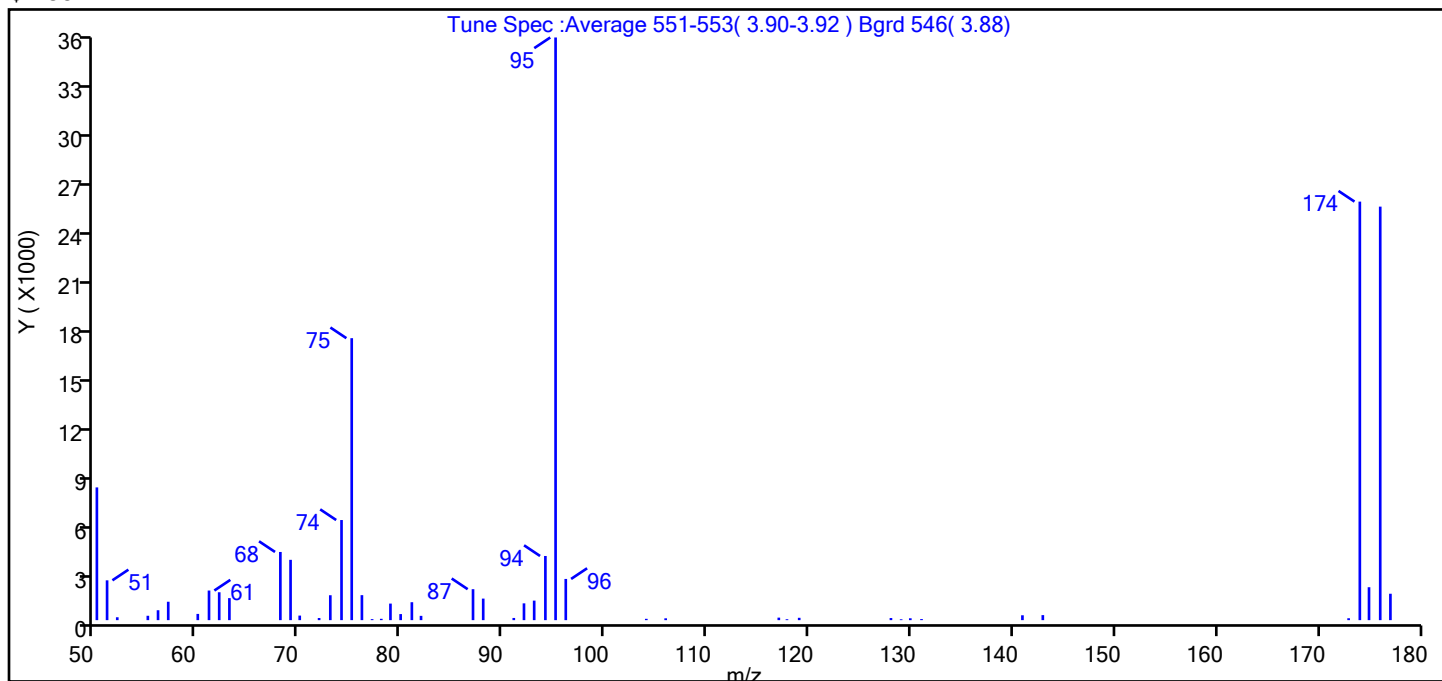
Units: uL

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81260.D
Injection Date: 12-Oct-2022 22:40:30 Instrument ID: CVOAMS8
Lims ID: BFB
Client ID:
Operator ID:
Injection Vol: 5.0 mL
Method: 8260_W8
Tune Method: BFB Method 8260

ALS Bottle#: 9 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: VOA 624.1 ICAL

\$ 139 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.8
75	30 to 60% of m/z 95	48.4
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.3 (0.5)
174	50 to 120% of m/z 95	71.8
175	5 to 9% of m/z 174	5.6 (7.9)
176	Greater than 95% but less than 101% of m/z 174	71.0 (98.8)
177	5 to 9% of m/z 176	4.5 (6.4)

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81260.D\8260_W8.rslt\spectra.d
Injection Date: 12-Oct-2022 22:40:30
Spectrum: Tune Spec :Average 551-553(3.90-3.92) Bgrd 546(3.88)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	8048	70.00	276	87.00	1877	119.00	142
51.00	2414	72.00	129	88.00	1306	128.00	128
52.00	175	73.00	1510	91.00	133	129.00	51
55.00	265	74.00	6070	92.00	1018	130.00	113
56.00	601	75.00	17096	93.00	1184	131.00	65
57.00	1116	76.00	1515	94.00	3890	141.00	295
60.00	378	77.00	61	95.00	35328	143.00	305
61.00	1795	78.00	81	96.00	2498	173.00	115
62.00	1691	79.00	1004	104.00	80	174.00	25376
63.00	1335	80.00	368	106.00	111	175.00	1996
68.00	4134	81.00	1087	117.00	152	176.00	25072
69.00	3657	82.00	260	118.00	55	177.00	1601

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81260.D

Injection Date: 12-Oct-2022 22:40:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

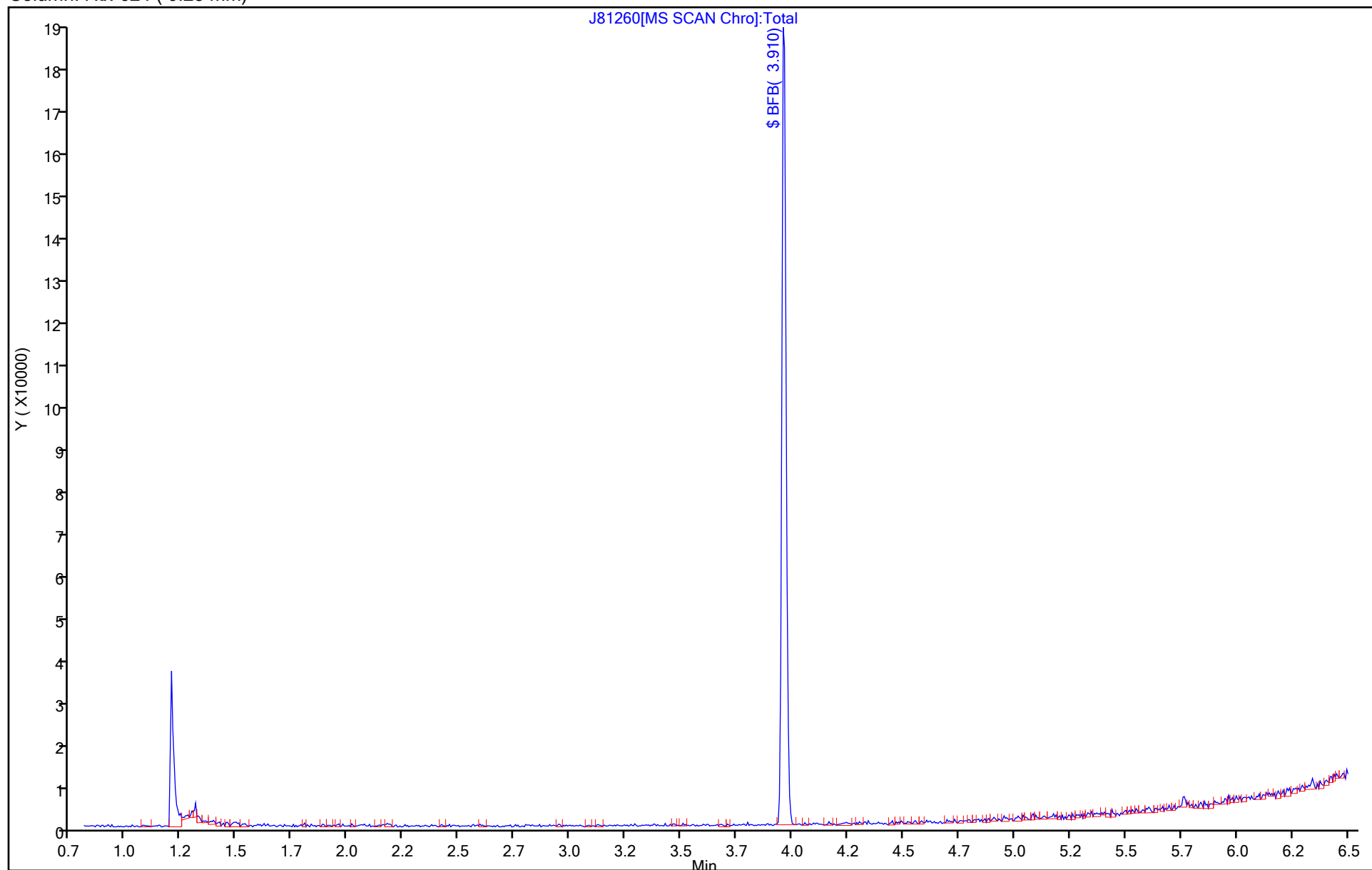
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82190.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 03-Nov-2022 07:37:30 ALS Bottle#: 99 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 460-0152676-001
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 08:51:10 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1674

First Level Reviewer: KG2Q

Date: 03-Nov-2022 07:57:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 139 BFB	95	3.904	3.904	0.000	84	63388	NR	NR	a
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

a - User Assigned ID

Reagents:

BFB_00032

Amount Added: 1.00

Units: uL

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82190.D

Injection Date: 03-Nov-2022 07:37:30

Instrument ID: CVOAMS8

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#:

99

Worklist Smp#:

1

Injection Vol: 5.0 mL

Dil. Factor:

1.0000

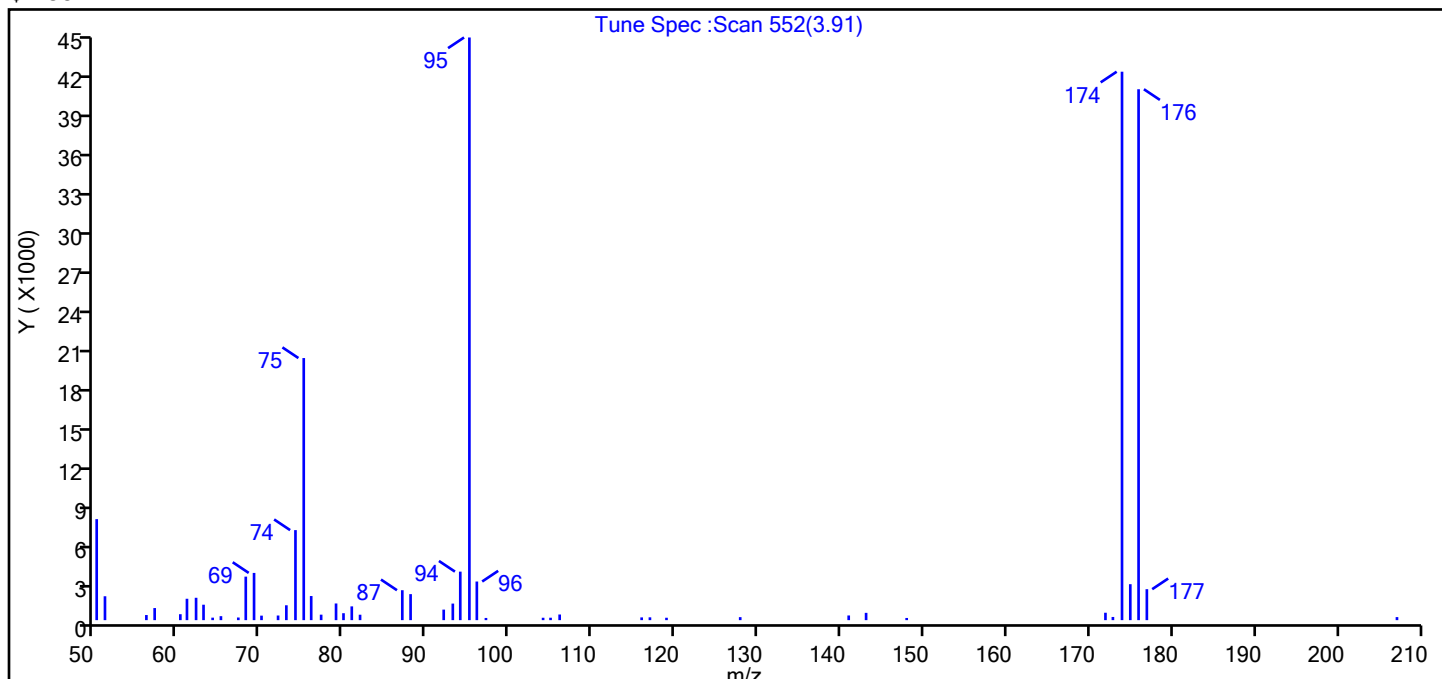
Method: 8260_W8

Limit Group:

VOA 624.1 ICAL

Tune Method: BFB Method 8260

\$ 139 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.3
75	30 to 60% of m/z 95	45.0
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	94.1
175	5 to 9% of m/z 174	6.2 (6.6)
176	Greater than 95% but less than 101% of m/z 174	91.1 (96.8)
177	5 to 9% of m/z 176	5.3 (5.8)

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82190.D\8260_W8.rslt\spectra.d
Injection Date: 03-Nov-2022 07:37:30
Spectrum: Tune Spec :Scan 552(3.91)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 49

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	7695	70.00	343	92.00	803	141.00	356
51.00	1820	72.00	353	93.00	1262	143.00	556
56.00	389	73.00	1133	94.00	3696	148.00	166
57.00	921	74.00	6859	95.00	44392	172.00	564
60.00	453	75.00	19968	96.00	2943	173.00	242
61.00	1629	76.00	1837	97.00	167	174.00	41784
62.00	1704	77.00	418	104.00	183	175.00	2739
63.00	1176	79.00	1270	105.00	185	176.00	40448
64.00	190	80.00	528	106.00	430	177.00	2358
65.00	303	81.00	1049	116.00	209	207.00	232
67.00	201	82.00	414	117.00	215		
68.00	3315	87.00	2280	119.00	183		
69.00	3598	88.00	1982	128.00	229		

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82190.D

Injection Date: 03-Nov-2022 07:37:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

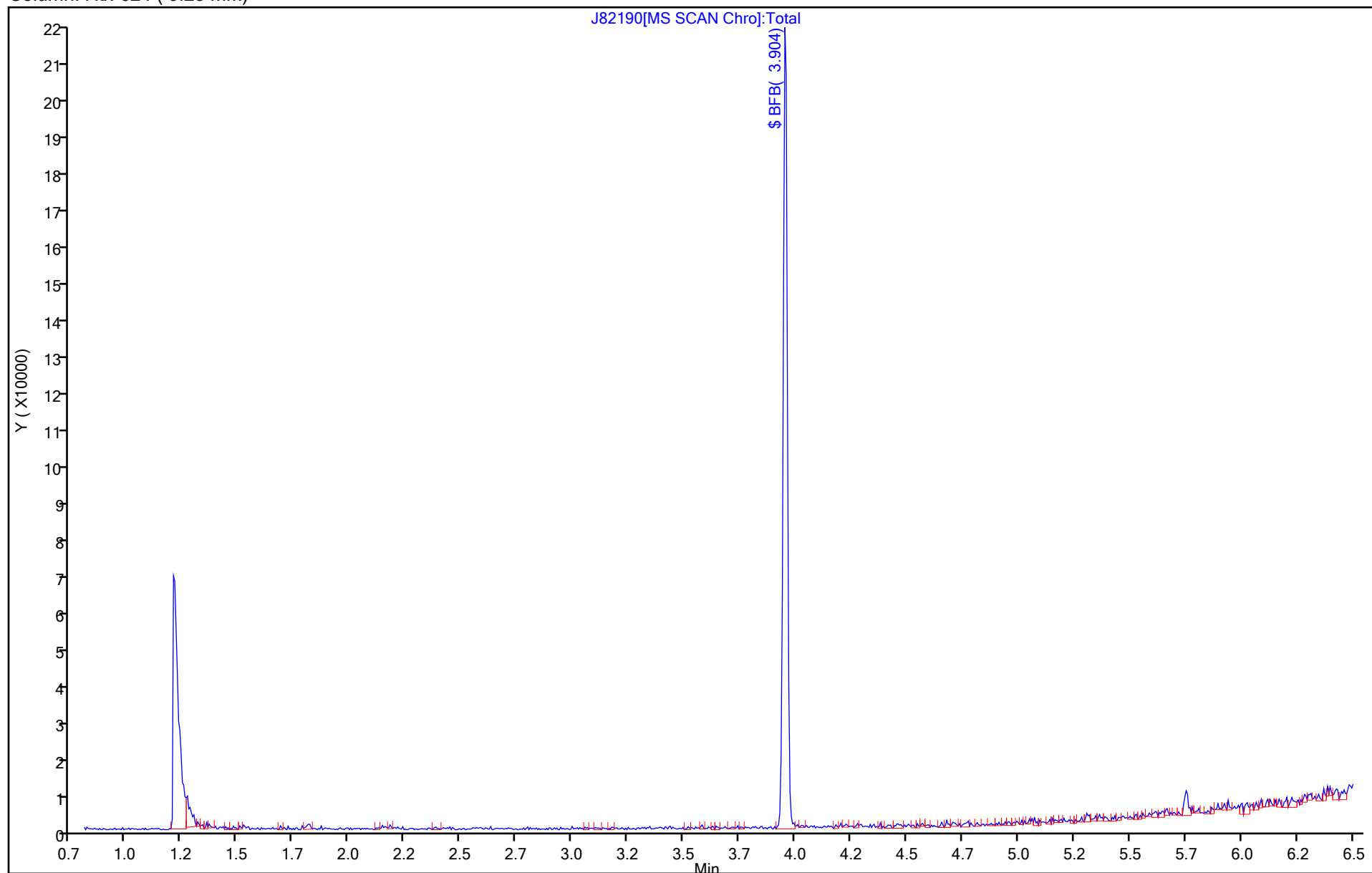
Dil. Factor: 1.0000

ALS Bottle#: 99

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison Job No.: 460-268503-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 460-875754/8
 Matrix: Water Lab File ID: J82197.D
 Analysis Method: 624.1 Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/03/2022 10:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 875754 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.65

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	110		60-140
1868-53-7	Dibromofluoromethane (Surr)	117		60-140
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		60-140
2037-26-5	Toluene-d8 (Surr)	90		60-140

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82197.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 03-Nov-2022 10:53:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 460-0152676-008
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 11:13:21 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1674

First Level Reviewer: KG2Q

Date: 03-Nov-2022 11:13:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 30 TBA-d9 (IS)	65	2.397	2.402	-0.005	75	121739	1000.0	1000.0	
* 43 2-Butanone-d5	46	3.309	3.315	-0.006	88	152854	250.0	250.0	
\$ 55 Dibromofluoromethane (Surr)	113	3.741	3.740	0.001	96	113316	50.0	58.4	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.070	4.069	0.001	0	115379	50.0	43.2	
* 66 Fluorobenzene	96	4.325	4.331	-0.006	99	446264	50.0	50.0	
* 72 1,4-Dioxane-d8	96	5.043	5.036	0.007	0	25536	1000.0	1000.0	
\$ 83 Toluene-d8 (Surr)	98	6.041	6.040	0.001	99	397867	50.0	45.0	
* 94 Chlorobenzene-d5	117	7.993	7.993	0.000	85	413500	50.0	50.0	
\$ 105 4-Bromofluorobenzene	174	9.320	9.319	0.001	94	160745	50.0	54.8	
* 121 1,4-Dichlorobenzene-d4	152	10.372	10.371	0.001	95	246116	50.0	50.0	

QC Flag Legend

Processing Flags

Reagents:

8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00233	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82197.D

Injection Date: 03-Nov-2022 10:53:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: MB

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

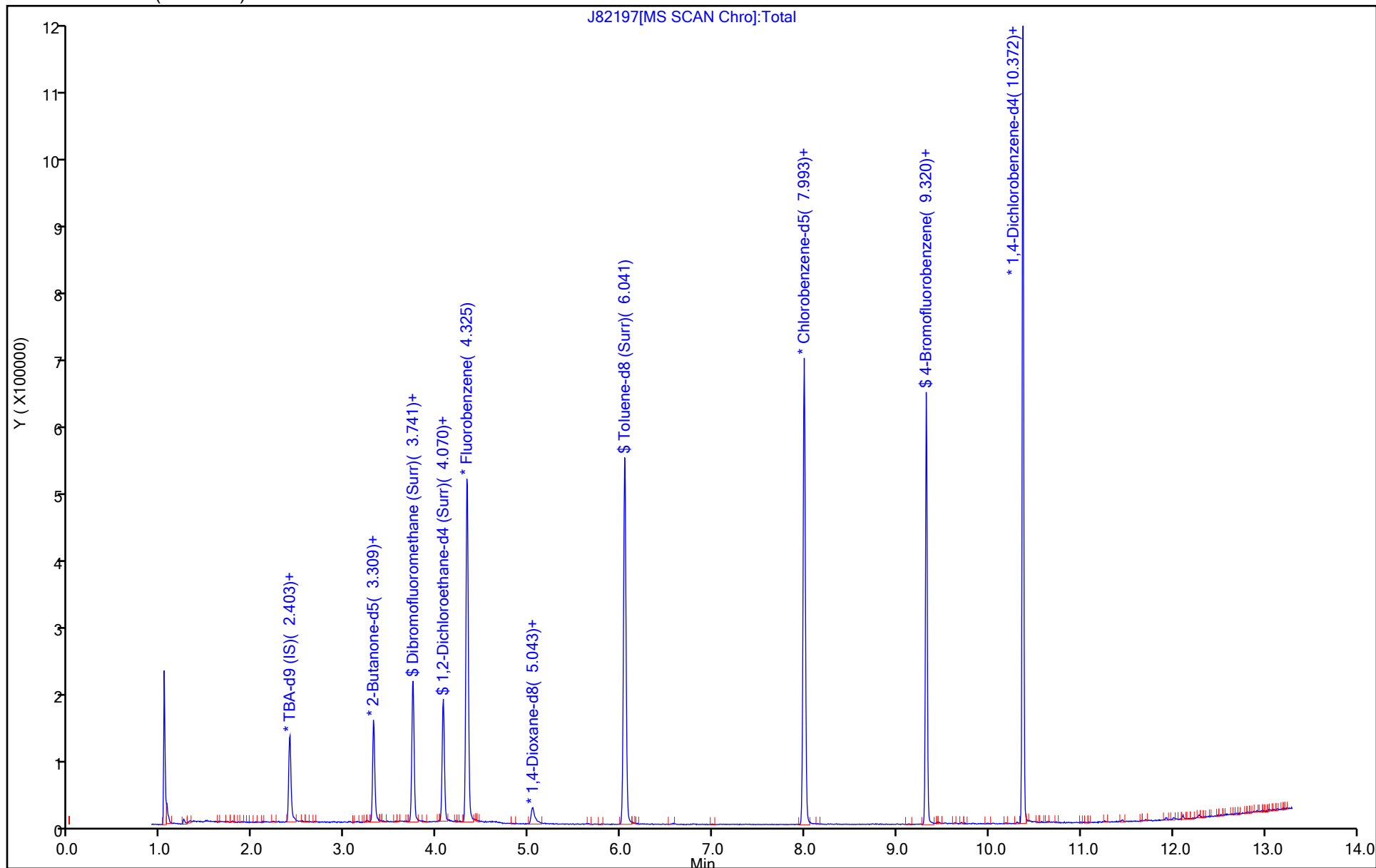
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison
Recovery Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82197.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 03-Nov-2022 10:53:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0152676-008
Operator ID: Instrument ID: CVOAMS8
Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
Limit Group: VOA 624.1 ICAL
Last Update: 03-Nov-2022 11:13:21 Calib Date: 13-Oct-2022 02:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: KG2Q

Date: 03-Nov-2022 11:13:21

Compound	Amount Added	Amount Recovered	% Rec.
\$ 55 Dibromofluoromethane (Surr)	50.0	58.4	116.80
\$ 61 1,2-Dichloroethane-d4 (Surr)	50.0	43.2	86.48
\$ 83 Toluene-d8 (Surr)	50.0	45.0	89.95
\$ 105 4-Bromofluorobenzene	50.0	54.8	109.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison Job No.: 460-268503-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 460-875754/5
 Matrix: Water Lab File ID: J82194.D
 Analysis Method: 624.1 Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/03/2022 09:28
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 875754 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	33.9		2.0	0.65

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	116		60-140
1868-53-7	Dibromofluoromethane (Surr)	114		60-140
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		60-140
2037-26-5	Toluene-d8 (Surr)	97		60-140

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82194.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Nov-2022 09:28:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 460-0152676-005
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 09:50:31 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1674

First Level Reviewer: KG2Q

Date: 03-Nov-2022 09:50:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	118	1.144	1.143	0.001	93	4743	NC	NC	
4 Dichlorodifluoromethane	85	1.168	1.167	0.001	99	61465	20.0	17.4	
5 Chlorodifluoromethane	67	1.186	1.185	0.001	98	12374	NC	NC	
6 Chloromethane	50	1.296	1.295	0.001	99	61936	20.0	12.2	
7 Vinyl chloride	62	1.350	1.350	0.000	98	48560	20.0	14.3	
8 Butadiene	54	1.369	1.368	0.001	97	44124	20.0	13.6	
9 Bromomethane	94	1.563	1.563	0.000	98	23313	20.0	18.7	
10 Chloroethane	64	1.618	1.617	0.001	98	24291	20.0	14.6	
12 Dichlorofluoromethane	67	1.740	1.739	0.001	98	84588	NC	NC	
11 Trichlorofluoromethane	101	1.746	1.751	-0.005	98	73942	20.0	20.6	
13 Pentane	43	1.776	1.782	-0.006	95	120884	40.0	28.8	
14 Ethanol	46	1.874	1.879	-0.005	97	7204	800.0	1175.5	
15 Ethyl ether	59	1.916	1.915	0.001	93	28957	20.0	13.9	
16 2-Methyl-1,3-butadiene	53	1.934	1.934	0.000	96	38506	20.0	14.6	
17 1,2-Dichloro-1,1,2-trifluoroethane	117	1.947	1.946	0.001	94	37523	NC	NC	
18 1,1,1-Trifluoro-2,2-dichloroethane	83	1.983	1.988	-0.005	98	70895	NC	NC	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.044	2.043	0.001	97	48519	20.0	22.8	
19 Acrolein	56	2.050	2.049	0.001	94	5904	40.0	24.1	
21 1,1-Dichloroethene	96	2.074	2.074	0.000	98	42925	20.0	20.2	
22 Acetone	43	2.141	2.141	0.000	87	43698	100.0	93.4	
23 Iodomethane	142	2.196	2.195	0.001	99	35975	20.0	16.2	
25 Isopropyl alcohol	45	2.196	2.201	-0.005	61	19507	200.0	275.9	
24 Carbon disulfide	76	2.220	2.226	-0.006	99	162920	20.0	20.8	
26 3-Chloro-1-propene	76	2.318	2.317	0.001	95	27329	20.0	18.3	
28 Methyl acetate	43	2.324	2.323	0.001	99	43236	40.0	21.0	
27 Cyclopentene	67	2.336	2.335	0.001	96	96180	NC	NC	
29 Acetonitrile	41	2.366	2.366	0.000	98	32892	200.0	182.4	
* 30 TBA-d9 (IS)	65	2.397	2.402	-0.005	77	136061	1000.0	1000.0	
31 Methylene Chloride	84	2.415	2.420	-0.005	93	49793	20.0	18.9	
32 2-Methyl-2-propanol	59	2.458	2.457	0.001	99	27805	200.0	254.9	
33 Methyl tert-butyl ether	73	2.543	2.542	0.001	97	90502	20.0	13.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 trans-1,2-Dichloroethene	96	2.567	2.566	0.001	97	47067	20.0	19.5	
35 Acrylonitrile	53	2.622	2.627	-0.005	93	118125	200.0	181.5	
36 Hexane	57	2.689	2.688	0.001	90	41811	20.0	13.9	
37 Isopropyl ether	45	2.859	2.858	0.001	96	100846	20.0	10.1	
38 1,1-Dichloroethane	63	2.896	2.895	0.001	99	88281	20.0	16.3	
39 Vinyl acetate	43	2.902	2.901	0.001	100	129298	40.0	20.4	
40 2-Chloro-1,3-butadiene	88	2.932	2.931	0.001	92	37862	NC	NC	
41 Tert-butyl ethyl ether	59	3.133	3.132	0.001	87	98991	NC	NC	
* 43 2-Butanone-d5	46	3.309	3.315	-0.006	99	176579	250.0	250.0	
42 2,2-Dichloropropane	79	3.321	3.315	0.006	94	23576	20.0	16.9	
44 cis-1,2-Dichloroethene	96	3.346	3.345	0.001	97	52669	20.0	19.9	
45 Ethyl acetate	70	3.364	3.363	0.001	96	8065	40.0	55.6	
46 2-Butanone (MEK)	72	3.358	3.363	-0.005	96	17718	100.0	127.6	
47 Methyl acrylate	55	3.407	3.412	-0.005	100	24770	NC	NC	
48 Propionitrile	54	3.480	3.479	0.001	97	49488	NC	NC	
50 Chlorobromomethane	128	3.547	3.546	0.001	88	27108	20.0	23.1	
49 Tetrahydrofuran	72	3.553	3.552	0.001	51	7745	40.0	55.9	
51 Methacrylonitrile	67	3.571	3.570	0.001	90	149413	NC	NC	
52 Chloroform	83	3.595	3.594	0.001	98	91455	20.0	19.3	
53 Cyclohexane	84	3.711	3.710	0.001	92	59425	20.0	20.2	
54 1,1,1-Trichloroethane	97	3.723	3.722	0.001	98	75725	20.0	20.2	
\$ 55 Dibromofluoromethane (Surr)	113	3.735	3.740	-0.005	96	118806	50.0	57.0	
56 Carbon tetrachloride	117	3.832	3.832	0.000	99	66742	20.0	22.4	
57 1,1-Dichloropropene	75	3.863	3.862	0.001	98	63088	20.0	17.6	
58 Isobutyl alcohol	43	3.997	3.996	0.001	97	43856	NC	NC	
59 Isooctane	57	4.015	4.014	0.001	98	76638	NC	NC	a
60 Benzene	78	4.051	4.051	0.000	96	189758	20.0	15.0	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.070	4.069	0.001	0	122783	50.0	42.8	
62 Isopropyl acetate	43	4.112	4.112	0.000	87	73839	20.0	9.82	
63 Tert-amyl methyl ether	55	4.112	4.112	0.000	87	25831	NC	NC	
64 1,2-Dichloroethane	62	4.137	4.142	-0.005	98	64106	20.0	16.0	
65 n-Heptane	57	4.198	4.197	0.001	91	16132	20.0	13.5	
* 66 Fluorobenzene	96	4.325	4.331	-0.006	98	479687	50.0	50.0	
67 n-Butanol	56	4.648	4.647	0.001	92	22037	500.0	856.3	
68 Trichloroethene	95	4.672	4.677	-0.005	98	49372	20.0	18.5	
69 Methylcyclohexane	83	4.788	4.793	-0.005	94	54689	20.0	18.1	
70 Ethyl acrylate	55	4.806	4.805	0.001	97	80351	20.0	12.5	
71 1,2-Dichloropropane	63	4.964	4.963	0.001	93	60014	20.0	18.9	
* 72 1,4-Dioxane-d8	96	5.037	5.036	0.001	0	30790	1000.0	1000.0	
73 Methyl methacrylate	100	5.055	5.055	0.001	87	18357	40.0	38.2	
75 1,4-Dioxane	88	5.092	5.097	-0.005	44	12567	400.0	751.1	
74 Dibromomethane	93	5.098	5.097	0.001	96	40051	20.0	22.9	
76 n-Propyl acetate	43	5.116	5.121	-0.005	97	46886	20.0	11.7	
77 Dichlorobromomethane	83	5.256	5.255	0.001	99	76351	20.0	21.4	
78 2-Nitropropane	41	5.615	5.614	0.001	92	16724	NC	NC	
79 2-Chloroethyl vinyl ether	63	5.621	5.626	-0.005	94	21702	20.0	12.3	
80 Epichlorohydrin	57	5.731	5.730	0.001	100	78817	400.0	555.5	
81 cis-1,3-Dichloropropene	75	5.785	5.785	0.000	90	86016	20.0	14.4	
82 4-Methyl-2-pentanone (MIBK)	43	5.974	5.973	0.001	96	158159	100.0	94.5	
\$ 83 Toluene-d8 (Surr)	98	6.041	6.040	0.001	99	473617	50.0	48.7	
84 Toluene	91	6.120	6.125	-0.005	94	223170	20.0	16.9	
85 trans-1,3-Dichloropropene	75	6.521	6.521	0.000	95	71196	20.0	13.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 Ethyl methacrylate	69	6.570	6.575	-0.005	88	44846	NC	NC	
87 1,1,2-Trichloroethane	83	6.753	6.758	-0.005	98	46566	20.0	16.7	
88 Tetrachloroethene	166	6.783	6.788	-0.005	97	59610	20.0	21.6	
89 1,3-Dichloropropane	76	6.984	6.983	0.001	93	76823	20.0	14.9	
90 2-Hexanone	58	7.081	7.080	0.001	95	61175	100.0	111.8	
91 n-Butyl acetate	43	7.227	7.226	0.001	98	48413	20.0	7.92	
92 Chlorodibromomethane	129	7.239	7.238	0.001	97	60029	20.0	20.3	
93 Ethylene Dibromide	107	7.403	7.403	0.000	99	53414	20.0	17.7	
* 94 Chlorobenzene-d5	117	7.994	7.993	0.001	85	454658	50.0	50.0	
95 Chlorobenzene	112	8.024	8.029	-0.005	95	160574	20.0	20.1	
96 Ethylbenzene	106	8.140	8.139	0.001	98	70930	20.0	16.9	
97 1,1,1,2-Tetrachloroethane	131	8.152	8.151	0.001	96	53863	20.0	19.8	
98 m-Xylene & p-Xylene	106	8.292	8.291	0.001	0	89764	20.0	17.2	
99 o-Xylene	106	8.742	8.741	0.001	94	87558	20.0	16.7	
100 n-Butyl acrylate	73	8.760	8.759	0.001	98	33908	20.0	12.8	
101 Styrene	104	8.772	8.778	-0.006	96	168820	20.0	18.8	
103 Bromoform	173	8.985	8.984	0.001	97	42349	20.0	22.9	
102 Amyl acetate (mixed isomers)	43	9.003	9.009	-0.006	91	63701	20.0	7.54	
104 Isopropylbenzene	105	9.125	9.124	0.001	96	216914	20.0	17.0	
\$ 105 4-Bromofluorobenzene	174	9.320	9.319	0.001	94	187070	50.0	58.0	
106 Bromobenzene	156	9.448	9.447	0.001	96	75828	20.0	18.4	
107 1,1,2,2-Tetrachloroethane	83	9.514	9.514	0.000	99	78211	20.0	16.1	
108 N-Propylbenzene	91	9.533	9.532	0.001	99	278812	20.0	14.4	
109 1,2,3-Trichloropropane	110	9.551	9.550	0.001	98	18111	20.0	16.9	
110 trans-1,4-Dichloro-2-butene	53	9.575	9.581	-0.006	91	16879	NC	NC	
111 2-Chlorotoluene	91	9.624	9.629	-0.005	97	212124	20.0	15.4	
112 4-Ethyltoluene	105	9.642	9.641	0.001	98	244120	NC	NC	
113 1,3,5-Trimethylbenzene	105	9.709	9.708	0.001	93	197712	20.0	15.4	
114 4-Chlorotoluene	91	9.740	9.739	0.001	97	223226	20.0	16.8	
115 Butyl Methacrylate	87	9.825	9.824	0.001	91	59445	20.0	11.9	
116 tert-Butylbenzene	119	9.989	9.988	0.001	93	148544	20.0	15.3	
117 1,2,4-Trimethylbenzene	105	10.050	10.049	0.001	98	216269	20.0	15.9	
118 sec-Butylbenzene	105	10.184	10.183	0.001	99	226097	20.0	15.4	
120 1,3-Dichlorobenzene	146	10.305	10.305	0.000	97	137897	20.0	18.7	
119 4-Isopropyltoluene	119	10.311	10.317	-0.006	97	190238	20.0	15.6	
* 121 1,4-Dichlorobenzene-d4	152	10.372	10.371	0.001	94	292839	50.0	50.0	
122 1,4-Dichlorobenzene	146	10.390	10.390	0.000	96	146204	20.0	18.9	
123 1,2,3-Trimethylbenzene	105	10.415	10.414	0.001	98	232102	20.0	16.1	
124 Benzyl chloride	91	10.518	10.517	0.001	99	114954	20.0	14.7	
125 2,3-Dihydroindene	117	10.573	10.572	0.001	94	230522	NC	NC	
126 p-Diethylbenzene	119	10.634	10.633	0.001	93	123039	NC	NC	
127 n-Butylbenzene	92	10.658	10.657	0.001	98	109260	20.0	16.0	
128 1,2-Dichlorobenzene	146	10.701	10.700	0.001	97	141619	20.0	19.3	
129 1,2,4,5-Tetramethylbenzene	119	11.260	11.260	0.000	97	172177	NC	NC	
130 1,2-Dibromo-3-Chloropropane	157	11.339	11.345	-0.006	96	15183	20.0	19.8	
131 1,3,5-Trichlorobenzene	180	11.449	11.448	0.001	98	94124	NC	NC	
132 1,2,4-Trichlorobenzene	180	11.930	11.929	0.001	94	86182	20.0	18.1	
133 Hexachlorobutadiene	225	12.009	12.008	0.001	97	34443	20.0	20.9	
134 Naphthalene	128	12.112	12.111	0.001	100	205784	20.0	16.7	
135 1,2,3-Trichlorobenzene	180	12.282	12.288	-0.006	96	83334	20.0	19.0	
S 136 1,2-Dichloroethene, Total	100				0		40.0	39.4	
S 137 Xylenes, Total	100				0		40.0	33.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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S 138 Total BTEX

1

0

100.0

82.7

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

524freon_00059

Amount Added: 20.00

Units: uL

GASES Li_00500

Amount Added: 20.00

Units: uL

8260MIX1COMB_00161

Amount Added: 20.00

Units: uL

ACROLEIN W_00145

Amount Added: 4.00

Units: uL

8260ISNEW_00171

Amount Added: 1.00

Units: uL

Run Reagent

8260SURR250_00233

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82194.D

Injection Date: 03-Nov-2022 09:28:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

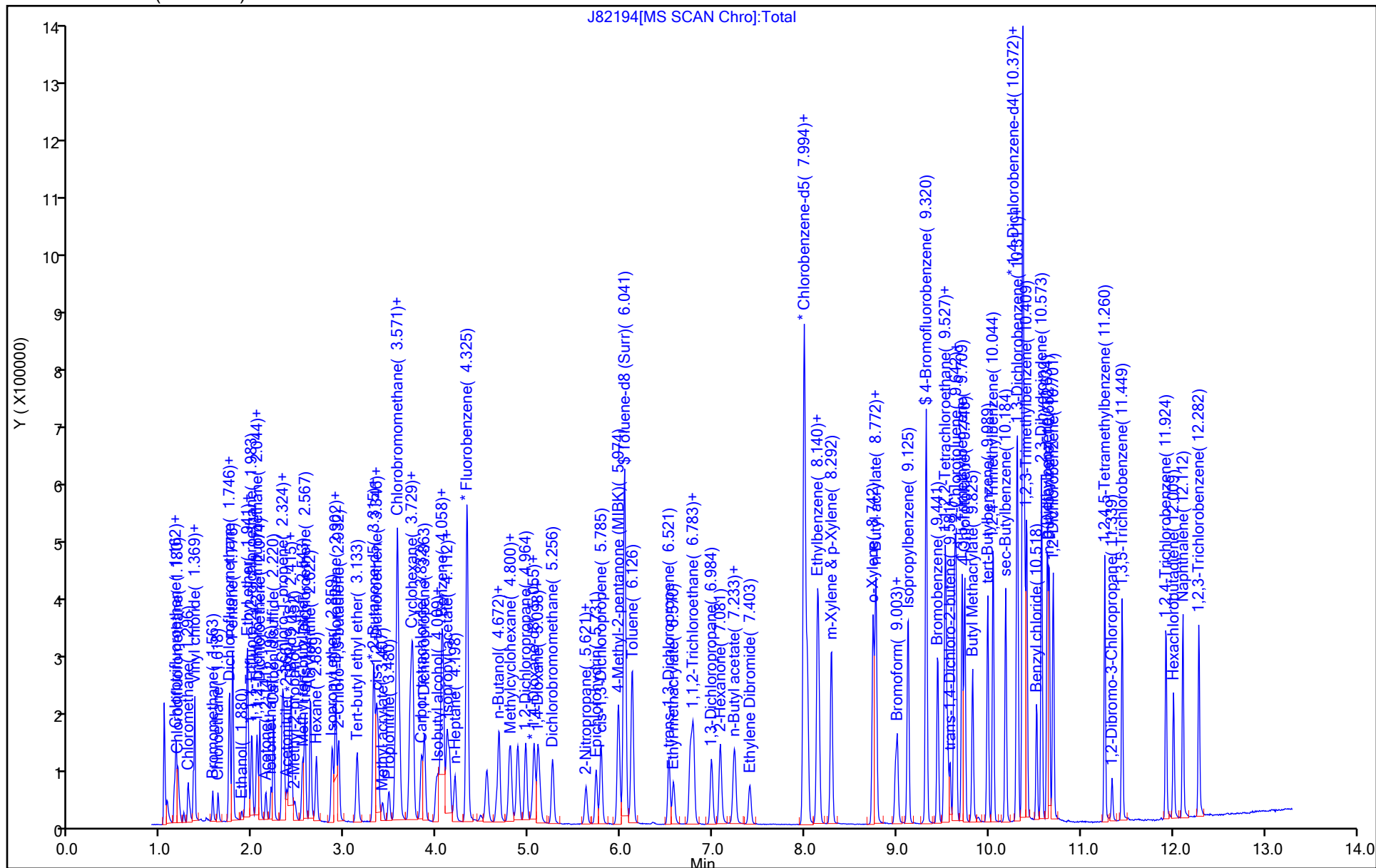
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison
Recovery Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82194.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Nov-2022 09:28:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 460-0152676-005
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 09:50:31 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1674

First Level Reviewer: KG2Q

Date: 03-Nov-2022 09:50:31

Compound	Amount Added	Amount Recovered	% Rec.
\$ 55 Dibromofluoromethane (Surr)	50.0	57.0	113.92
\$ 61 1,2-Dichloroethane-d4 (Surr)	50.0	42.8	85.62
\$ 83 Toluene-d8 (Surr)	50.0	48.7	97.39
\$ 105 4-Bromofluorobenzene	50.0	58.0	115.91

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Edison</u>	Job No.: <u>460-268503-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-6 MS</u>	Lab Sample ID: <u>460-268503-1 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>J82200.D</u>
Analysis Method: <u>624.1</u>	Date Collected: <u>10/28/2022 13:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/03/2022 12:15</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>Rtx-624</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>875754</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	41.0		2.0	0.65

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	119		60-140
1868-53-7	Dibromofluoromethane (Surr)	116		60-140
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		60-140
2037-26-5	Toluene-d8 (Surr)	99		60-140

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82200.D
 Lims ID: 460-268503-B-1 MS
 Client ID: RW-6
 Sample Type: MS
 Inject. Date: 03-Nov-2022 12:15:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-268503-B-1 MS
 Misc. Info.: 460-0152676-011
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 12:58:00 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1674

First Level Reviewer: KG2Q

Date: 03-Nov-2022 12:58:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	118	1.142	1.143	-0.001	88	4836	NC	NC	
4 Dichlorodifluoromethane	85	1.167	1.167	0.000	99	62971	20.0	19.2	
5 Chlorodifluoromethane	67	1.185	1.185	0.000	99	10606	NC	NC	
6 Chloromethane	50	1.294	1.295	-0.001	100	60378	20.0	12.7	
7 Vinyl chloride	62	1.349	1.350	-0.001	99	47748	20.0	15.2	
8 Butadiene	54	1.367	1.368	-0.001	96	41644	20.0	13.8	
9 Bromomethane	94	1.562	1.563	-0.001	98	22449	20.0	19.4	
10 Chloroethane	64	1.623	1.617	0.006	99	25121	20.0	16.2	
12 Dichlorofluoromethane	67	1.738	1.739	-0.001	99	87080	NC	NC	
11 Trichlorofluoromethane	101	1.751	1.751	0.000	99	75469	20.0	22.6	
13 Pentane	43	1.781	1.782	-0.001	91	110548	40.0	28.3	
14 Ethanol	46	1.878	1.879	-0.001	98	2228	800.0	389.4	
15 Ethyl ether	59	1.921	1.915	0.006	96	29973	20.0	15.4	
16 2-Methyl-1,3-butadiene	53	1.939	1.934	0.005	96	39232	20.0	16.0	
17 1,2-Dichloro-1,1,2-trifluoroethane	117	1.945	1.946	-0.001	95	40420	NC	NC	
18 1,1,1-Trifluoro-2,2-dichloroethane	83	1.988	1.988	0.000	98	66001	NC	NC	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.043	2.043	0.000	98	49586	20.0	25.1	
19 Acrolein	56	2.049	2.049	0.000	93	6694	40.0	29.3	
21 1,1-Dichloroethene	96	2.073	2.074	-0.001	97	42548	20.0	21.5	
22 Acetone	43	2.140	2.141	-0.001	87	36971	100.0	86.7	
23 Iodomethane	142	2.195	2.195	0.000	98	32915	20.0	15.9	
25 Isopropyl alcohol	45	2.195	2.201	-0.006	44	8470	200.0	128.3	
24 Carbon disulfide	76	2.225	2.226	-0.001	99	158763	20.0	21.8	
26 3-Chloro-1-propene	76	2.316	2.317	-0.001	94	25233	20.0	18.2	
28 Methyl acetate	43	2.322	2.323	-0.001	99	38784	40.0	20.3	
27 Cyclopentene	67	2.335	2.335	0.000	96	92053	NC	NC	
29 Acetonitrile	41	2.371	2.366	0.005	97	27720	200.0	164.6	
* 30 TBA-d9 (IS)	65	2.401	2.402	-0.001	80	127026	1000.0	1000.0	
31 Methylene Chloride	84	2.420	2.420	0.000	90	50344	20.0	20.5	
32 2-Methyl-2-propanol	59	2.456	2.457	-0.001	98	16211	200.0	159.2	
33 Methyl tert-butyl ether	73	2.541	2.542	-0.001	96	93084	20.0	15.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 trans-1,2-Dichloroethene	96	2.566	2.566	0.000	97	46686	20.0	20.8	
35 Acrylonitrile	53	2.627	2.627	0.000	93	116207	200.0	191.2	
36 Hexane	57	2.687	2.688	-0.001	91	40217	20.0	14.4	
37 Isopropyl ether	45	2.864	2.858	0.006	97	100265	20.0	10.8	
38 1,1-Dichloroethane	63	2.894	2.895	-0.001	100	89897	20.0	17.8	
39 Vinyl acetate	43	2.900	2.901	-0.001	100	125604	40.0	21.3	
40 2-Chloro-1,3-butadiene	88	2.931	2.931	0.000	92	37984	NC	NC	
41 Tert-butyl ethyl ether	59	3.132	3.132	0.000	89	94468	NC	NC	
* 43 2-Butanone-d5	46	3.314	3.315	-0.001	95	160860	250.0	250.0	
42 2,2-Dichloropropane	79	3.320	3.315	0.005	94	23415	20.0	18.0	
44 cis-1,2-Dichloroethene	96	3.344	3.345	-0.001	98	53579	20.0	21.7	
45 Ethyl acetate	70	3.363	3.363	0.000	95	7703	40.0	58.3	
46 2-Butanone (MEK)	72	3.363	3.363	0.000	96	17064	100.0	134.9	
47 Methyl acrylate	55	3.411	3.412	-0.001	99	24750	NC	NC	
48 Propionitrile	54	3.478	3.479	-0.001	97	44190	NC	NC	
50 Chlorobromomethane	128	3.545	3.546	-0.001	82	27359	20.0	25.0	
49 Tetrahydrofuran	72	3.557	3.552	0.005	53	7185	40.0	57.0	
51 Methacrylonitrile	67	3.570	3.570	0.000	90	149166	NC	NC	
52 Chloroform	83	3.594	3.594	0.000	99	94049	20.0	21.3	
53 Cyclohexane	84	3.709	3.710	-0.001	90	57115	20.0	20.8	
54 1,1,1-Trichloroethane	97	3.722	3.722	0.000	99	75079	20.0	21.5	
\$ 55 Dibromofluoromethane (Surr)	113	3.740	3.740	0.000	96	112588	50.0	58.0	
56 Carbon tetrachloride	117	3.831	3.832	-0.001	99	67492	20.0	24.3	
57 1,1-Dichloropropene	75	3.868	3.862	0.006	96	61083	20.0	18.3	
58 Isobutyl alcohol	43	3.995	3.996	-0.001	97	29056	NC	NC	
59 Isooctane	57	4.020	4.014	0.006	97	66953	NC	NC	a
60 Benzene	78	4.050	4.051	-0.001	97	184696	20.0	15.1	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.068	4.069	-0.001	0	117096	50.0	43.9	
62 Isopropyl acetate	43	4.111	4.112	-0.001	91	71090	20.0	10.2	
63 Tert-amyl methyl ether	55	4.117	4.112	0.005	83	25588	NC	NC	
64 1,2-Dichloroethane	62	4.141	4.142	-0.001	98	67599	20.0	18.1	
65 n-Heptane	57	4.196	4.197	-0.001	91	14709	20.0	13.2	
* 66 Fluorobenzene	96	4.330	4.331	-0.001	99	446417	50.0	50.0	
67 n-Butanol	56	4.652	4.647	0.005	92	11560	500.0	481.1	
68 Trichloroethene	95	4.677	4.677	0.000	99	62064	20.0	25.0	
69 Methylcyclohexane	83	4.792	4.793	-0.001	91	63287	20.0	22.5	
70 Ethyl acrylate	55	4.804	4.805	-0.001	97	98250	20.0	16.4	
71 1,2-Dichloropropane	63	4.969	4.963	0.006	93	60984	20.0	20.6	
* 72 1,4-Dioxane-d8	96	5.036	5.036	0.000	0	27974	1000.0	1000.0	
73 Methyl methacrylate	100	5.060	5.055	0.006	88	18096	40.0	40.5	
75 1,4-Dioxane	88	5.109	5.097	0.012	30	4841	400.0	318.4	
74 Dibromomethane	93	5.096	5.097	-0.001	98	41668	20.0	25.6	
76 n-Propyl acetate	43	5.121	5.121	0.000	97	43342	20.0	11.6	
77 Dichlorobromomethane	83	5.261	5.255	0.006	99	78549	20.0	23.7	
78 2-Nitropropane	41	5.614	5.614	0.000	97	16885	NC	NC	
80 Epichlorohydrin	57	5.735	5.730	0.005	99	63739	400.0	493.2	
81 cis-1,3-Dichloropropene	75	5.784	5.785	-0.001	91	84340	20.0	14.6	
82 4-Methyl-2-pentanone (MIBK)	43	5.972	5.973	-0.001	97	155340	100.0	101.8	
\$ 83 Toluene-d8 (Surr)	98	6.039	6.040	-0.001	99	464806	50.0	49.5	
84 Toluene	91	6.125	6.125	0.000	93	234461	20.0	18.3	
85 trans-1,3-Dichloropropene	75	6.526	6.521	0.005	95	69751	20.0	13.6	
86 Ethyl methacrylate	69	6.575	6.575	0.000	88	42543	NC	NC	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	83	6.757	6.758	-0.001	97	48453	20.0	18.0	
88 Tetrachloroethene	166	6.788	6.788	0.000	96	63459	20.0	23.8	
89 1,3-Dichloropropane	76	6.988	6.983	0.005	92	78269	20.0	15.7	
90 2-Hexanone	58	7.080	7.080	0.000	96	59200	100.0	118.8	
91 n-Butyl acetate	43	7.226	7.226	0.000	98	46347	20.0	7.85	
92 Chlorodibromomethane	129	7.244	7.238	0.006	98	63623	20.0	22.3	
93 Ethylene Dibromide	107	7.402	7.403	-0.001	98	56315	20.0	19.4	
* 94 Chlorobenzene-d5	117	7.992	7.993	-0.001	85	438814	50.0	50.0	
95 Chlorobenzene	112	8.029	8.029	0.000	96	167957	20.0	21.8	
96 Ethylbenzene	106	8.138	8.139	-0.001	98	74772	20.0	18.5	
97 1,1,1,2-Tetrachloroethane	131	8.150	8.151	-0.001	96	55745	20.0	21.2	
98 m-Xylene & p-Xylene	106	8.290	8.291	-0.001	0	119390	20.0	23.7	
99 o-Xylene	106	8.740	8.741	-0.001	94	87024	20.0	17.2	
100 n-Butyl acrylate	73	8.765	8.759	0.006	97	35521	20.0	13.9	
101 Styrene	104	8.777	8.778	-0.001	95	173951	20.0	20.1	
103 Bromoform	173	8.984	8.984	0.000	97	44714	20.0	25.1	
102 Amyl acetate (mixed isomers)	43	9.008	9.009	-0.001	91	64330	20.0	7.64	
104 Isopropylbenzene	105	9.124	9.124	0.000	96	225936	20.0	18.4	
\$ 105 4-Bromofluorobenzene	174	9.318	9.319	-0.001	95	185218	50.0	59.5	
106 Bromobenzene	156	9.446	9.447	-0.001	95	78282	20.0	19.1	
107 1,1,2,2-Tetrachloroethane	83	9.519	9.514	0.005	98	79396	20.0	16.4	
108 N-Propylbenzene	91	9.531	9.532	-0.001	99	286488	20.0	14.9	
109 1,2,3-Trichloropropane	110	9.556	9.550	0.006	98	18640	20.0	17.5	
110 trans-1,4-Dichloro-2-butene	53	9.580	9.581	-0.001	93	18373	NC	NC	
111 2-Chlorotoluene	91	9.629	9.629	0.000	97	219604	20.0	16.0	
112 4-Ethyltoluene	105	9.647	9.641	0.006	98	255570	NC	NC	
113 1,3,5-Trimethylbenzene	105	9.708	9.708	0.000	93	206909	20.0	16.2	
114 4-Chlorotoluene	91	9.738	9.739	-0.001	97	231143	20.0	17.4	
115 Butyl Methacrylate	87	9.823	9.824	-0.001	90	62418	20.0	12.5	
116 tert-Butylbenzene	119	9.988	9.988	0.000	92	154394	20.0	15.9	
117 1,2,4-Trimethylbenzene	105	10.048	10.049	-0.001	97	222308	20.0	16.4	
118 sec-Butylbenzene	105	10.188	10.183	0.005	99	234562	20.0	16.1	
120 1,3-Dichlorobenzene	146	10.304	10.305	-0.001	97	146985	20.0	20.0	
119 4-Isopropyltoluene	119	10.316	10.317	-0.001	97	195639	20.0	16.2	
* 121 1,4-Dichlorobenzene-d4	152	10.371	10.371	0.000	95	291589	50.0	50.0	
122 1,4-Dichlorobenzene	146	10.389	10.390	-0.001	96	154912	20.0	20.1	
123 1,2,3-Trimethylbenzene	105	10.413	10.414	-0.001	98	243537	20.0	17.0	
124 Benzyl chloride	91	10.523	10.517	0.006	99	118691	20.0	15.2	
125 2,3-Dihydroindene	117	10.578	10.572	0.006	94	244357	NC	NC	
126 p-Diethylbenzene	119	10.639	10.633	0.005	92	128643	NC	NC	
127 n-Butylbenzene	92	10.657	10.657	0.000	98	114873	20.0	16.9	
128 1,2-Dichlorobenzene	146	10.699	10.700	-0.001	97	150115	20.0	20.5	
129 1,2,4,5-Tetramethylbenzene	119	11.259	11.260	-0.001	97	172303	NC	NC	
130 1,2-Dibromo-3-Chloropropane	157	11.344	11.345	-0.001	95	15010	20.0	19.6	
131 1,3,5-Trichlorobenzene	180	11.454	11.448	0.006	97	97616	NC	NC	
132 1,2,4-Trichlorobenzene	180	11.928	11.929	-0.001	94	85996	20.0	18.1	
133 Hexachlorobutadiene	225	12.007	12.008	-0.001	97	33937	20.0	20.7	
134 Naphthalene	128	12.111	12.111	0.000	99	189736	20.0	15.5	
135 1,2,3-Trichlorobenzene	180	12.287	12.288	-0.001	96	81153	20.0	18.6	
S 136 1,2-Dichloroethene, Total	100				0		40.0	42.5	
S 137 Xylenes, Total	100				0		40.0	41.0	
S 138 Total BTEX	1				0		100.0	92.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

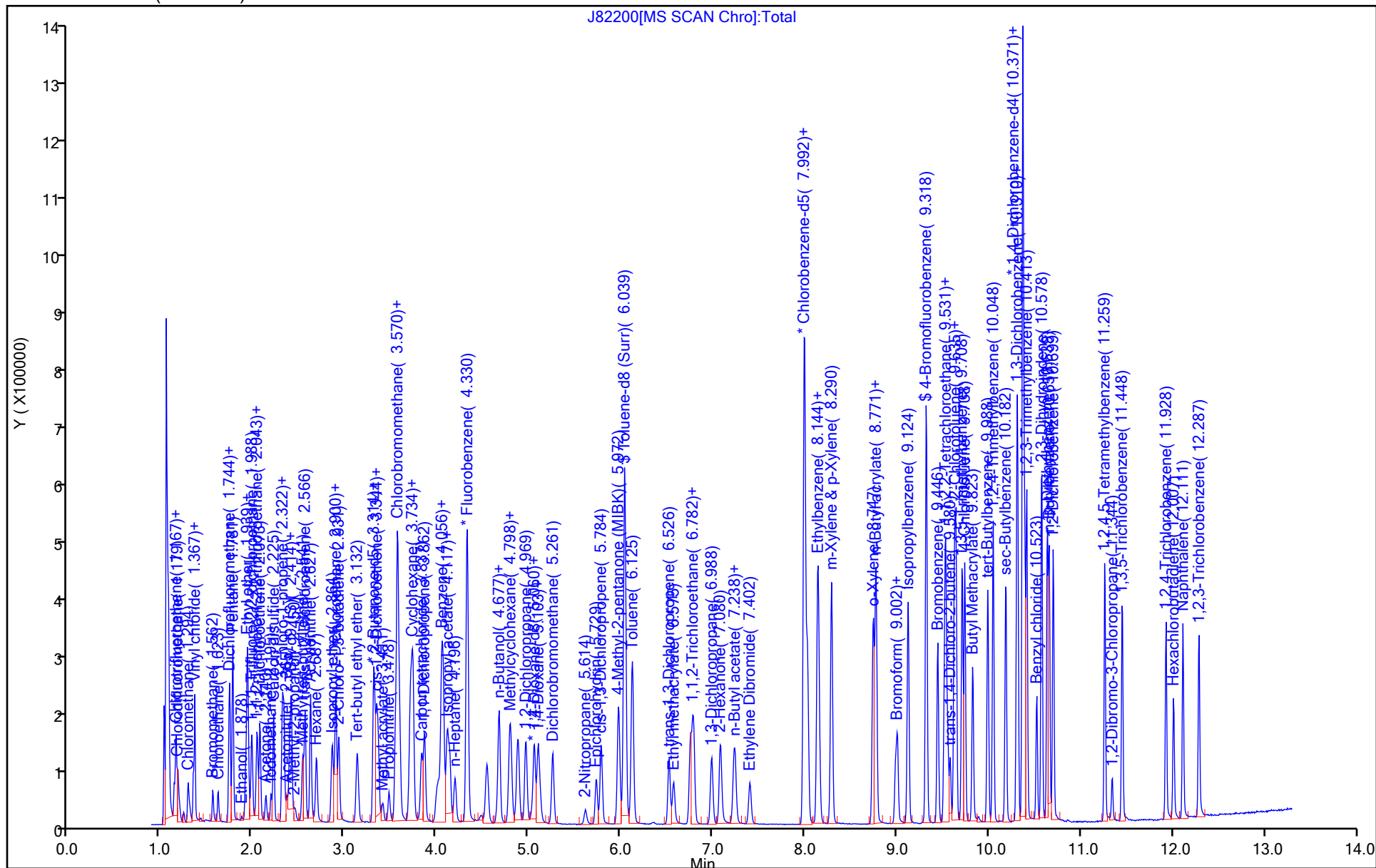
Review Flags

a - User Assigned ID

Reagents:

GASES Li_00500	Amount Added: 20.00	Units: uL	
8260MIX1COMB_00161	Amount Added: 20.00	Units: uL	
524freon_00059	Amount Added: 20.00	Units: uL	
ACROLEIN W_00145	Amount Added: 4.00	Units: uL	
8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00233	Amount Added: 1.00	Units: uL	Run Reagent

Column: Rtx-624 (0.25 mm)



Eurofins Edison
Recovery Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82200.D
Lims ID: 460-268503-B-1 MS
Client ID: RW-6
Sample Type: MS
Inject. Date: 03-Nov-2022 12:15:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-268503-B-1 MS
Misc. Info.: 460-0152676-011
Operator ID: Instrument ID: CVOAMS8
Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
Limit Group: VOA 624.1 ICAL
Last Update: 03-Nov-2022 12:58:00 Calib Date: 13-Oct-2022 02:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: KG2Q

Date: 03-Nov-2022 12:58:00

Compound	Amount Added	Amount Recovered	% Rec.
\$ 55 Dibromofluoromethane (Surr)	50.0	58.0	116.01
\$ 61 1,2-Dichloroethane-d4 (Surr)	50.0	43.9	87.74
\$ 83 Toluene-d8 (Surr)	50.0	49.5	99.03
\$ 105 4-Bromofluorobenzene	50.0	59.5	118.91

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Edison</u>	Job No.: <u>460-268503-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-6 MSD</u>	Lab Sample ID: <u>460-268503-1 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>J82201.D</u>
Analysis Method: <u>624.1</u>	Date Collected: <u>10/28/2022 13:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/03/2022 12:40</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>Rtx-624</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>875754</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	41.6		2.0	0.65

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	119		60-140
1868-53-7	Dibromofluoromethane (Surr)	113		60-140
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		60-140
2037-26-5	Toluene-d8 (Surr)	98		60-140

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82201.D
 Lims ID: 460-268503-B-1 MSD
 Client ID: RW-6
 Sample Type: MSD
 Inject. Date: 03-Nov-2022 12:40:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-268503-B-1 MSD
 Misc. Info.: 460-0152676-012
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 12:59:12 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1674

First Level Reviewer: KG2Q

Date: 03-Nov-2022 12:59:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	118	1.146	1.143	0.003	95	4611	NC	NC	
4 Dichlorodifluoromethane	85	1.164	1.167	-0.003	99	68128	20.0	19.4	
5 Chlorodifluoromethane	67	1.188	1.185	0.003	99	11392	NC	NC	
6 Chloromethane	50	1.292	1.295	-0.003	99	66287	20.0	13.0	
7 Vinyl chloride	62	1.353	1.350	0.003	99	53689	20.0	15.9	
8 Butadiene	54	1.365	1.368	-0.003	97	44811	20.0	13.8	
9 Bromomethane	94	1.566	1.563	0.003	96	22713	20.0	18.3	
10 Chloroethane	64	1.620	1.617	0.003	99	25686	20.0	15.4	
12 Dichlorofluoromethane	67	1.742	1.739	0.003	99	93511	NC	NC	
11 Trichlorofluoromethane	101	1.748	1.751	-0.003	99	78803	20.0	21.9	
13 Pentane	43	1.779	1.782	-0.003	95	126266	40.0	30.1	
14 Ethanol	46	1.876	1.879	-0.003	97	7148	800.0	1127.9	
15 Ethyl ether	59	1.919	1.915	0.003	97	30787	20.0	14.8	
16 2-Methyl-1,3-butadiene	53	1.937	1.934	0.003	97	40651	20.0	15.5	
17 1,2-Dichloro-1,1,2-trifluoroethane	117	1.949	1.946	0.003	96	38170	NC	NC	
18 1,1,1-Trifluoro-2,2-dichloroethane	83	1.985	1.988	-0.003	97	68079	NC	NC	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.040	2.043	-0.003	98	51389	20.0	24.2	
19 Acrolein	56	2.046	2.049	-0.003	93	6956	40.0	27.5	
21 1,1-Dichloroethene	96	2.077	2.074	0.003	99	45814	20.0	21.5	
22 Acetone	43	2.138	2.141	-0.003	86	43821	100.0	94.0	
23 Iodomethane	142	2.198	2.195	0.003	99	36878	20.0	16.6	
25 Isopropyl alcohol	45	2.198	2.201	-0.003	63	19858	200.0	271.6	
24 Carbon disulfide	76	2.223	2.226	-0.003	99	171693	20.0	22.0	
26 3-Chloro-1-propene	76	2.320	2.317	0.003	95	28824	20.0	19.3	
28 Methyl acetate	43	2.326	2.323	0.003	99	45412	40.0	22.1	
27 Cyclopentene	67	2.338	2.335	0.003	96	100117	NC	NC	
29 Acetonitrile	41	2.369	2.366	0.003	99	39762	200.0	213.2	
* 30 TBA-d9 (IS)	65	2.399	2.402	-0.003	78	140710	1000.0	1000.0	
31 Methylene Chloride	84	2.417	2.420	-0.003	93	51664	20.0	19.6	
32 2-Methyl-2-propanol	59	2.454	2.457	-0.003	98	28850	200.0	255.7	
33 Methyl tert-butyl ether	73	2.545	2.542	0.003	97	100376	20.0	15.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 trans-1,2-Dichloroethene	96	2.569	2.566	0.003	96	51430	20.0	21.3	
35 Acrylonitrile	53	2.624	2.627	-0.003	94	128053	200.0	190.2	
36 Hexane	57	2.691	2.688	0.003	91	44187	20.0	14.7	
37 Isopropyl ether	45	2.861	2.858	0.003	97	111016	20.0	11.1	
38 1,1-Dichloroethane	63	2.898	2.895	0.003	100	95690	20.0	17.7	
39 Vinyl acetate	43	2.904	2.901	0.003	100	143068	40.0	22.6	
40 2-Chloro-1,3-butadiene	88	2.934	2.931	0.003	92	40654	NC	NC	
41 Tert-butyl ethyl ether	59	3.135	3.132	0.003	88	107540	NC	NC	
* 43 2-Butanone-d5	46	3.312	3.315	-0.003	98	175894	250.0	250.0	
42 2,2-Dichloropropane	79	3.318	3.315	0.003	93	25760	20.0	18.5	
44 cis-1,2-Dichloroethene	96	3.342	3.345	-0.003	99	56103	20.0	21.2	
45 Ethyl acetate	70	3.360	3.363	-0.003	94	8691	40.0	60.2	
46 2-Butanone (MEK)	72	3.360	3.363	-0.003	96	18792	100.0	135.9	
47 Methyl acrylate	55	3.409	3.412	-0.003	99	26987	NC	NC	
48 Propionitrile	54	3.482	3.479	0.003	97	51204	NC	NC	
50 Chlorobromomethane	128	3.549	3.546	0.003	80	28116	20.0	24.0	
49 Tetrahydrofuran	72	3.555	3.552	0.003	51	8842	40.0	64.1	
51 Methacrylonitrile	67	3.573	3.570	0.003	90	155371	NC	NC	
52 Chloroform	83	3.598	3.594	0.004	98	97125	20.0	20.5	
53 Cyclohexane	84	3.713	3.710	0.003	92	60793	20.0	20.7	
54 1,1,1-Trichloroethane	97	3.725	3.722	0.003	99	78068	20.0	20.9	
\$ 55 Dibromofluoromethane (Surr)	113	3.737	3.740	-0.003	96	117808	50.0	56.5	
56 Carbon tetrachloride	117	3.835	3.832	0.003	98	69220	20.0	23.3	
57 1,1-Dichloropropene	75	3.865	3.862	0.003	97	65880	20.0	18.4	
58 Isobutyl alcohol	43	3.993	3.996	-0.003	96	44601	NC	NC	
59 Isooctane	57	4.017	4.014	0.003	97	77942	NC	NC	a
60 Benzene	78	4.048	4.051	-0.003	96	195259	20.0	15.4	
\$ 61 1,2-Dichloroethane-d4 (Surr)	65	4.066	4.069	-0.003	0	122469	50.0	42.8	
62 Isopropyl acetate	43	4.109	4.112	-0.003	94	78692	20.0	10.5	
63 Tert-amyl methyl ether	55	4.115	4.112	0.003	90	27814	NC	NC	
64 1,2-Dichloroethane	62	4.139	4.142	-0.003	98	67361	20.0	16.8	
65 n-Heptane	57	4.200	4.197	0.003	91	17335	20.0	14.5	
* 66 Fluorobenzene	96	4.328	4.331	-0.003	99	479127	50.0	50.0	
67 n-Butanol	56	4.650	4.647	0.003	92	27107	500.0	1018.5	
68 Trichloroethene	95	4.674	4.677	-0.003	99	66161	20.0	24.8	
69 Methylcyclohexane	83	4.796	4.793	0.003	91	71142	20.0	23.5	
70 Ethyl acrylate	55	4.802	4.805	-0.003	97	107995	20.0	16.8	
71 1,2-Dichloropropane	63	4.966	4.963	0.003	92	64537	20.0	20.3	
* 72 1,4-Dioxane-d8	96	5.039	5.036	0.003	0	30815	1000.0	1000.0	
73 Methyl methacrylate	100	5.058	5.055	0.004	85	20477	40.0	42.7	
75 1,4-Dioxane	88	5.094	5.097	-0.003	43	12735	400.0	760.5	
74 Dibromomethane	93	5.094	5.097	-0.003	97	43583	20.0	24.9	
76 n-Propyl acetate	43	5.118	5.121	-0.003	97	50461	20.0	12.6	
77 Dichlorobromomethane	83	5.258	5.255	0.003	99	82253	20.0	23.1	
78 2-Nitropropane	41	5.611	5.614	-0.003	99	17714	NC	NC	
80 Epichlorohydrin	57	5.733	5.730	0.003	99	72721	400.0	514.6	
81 cis-1,3-Dichloropropene	75	5.782	5.785	-0.003	91	90744	20.0	15.2	
82 4-Methyl-2-pentanone (MIBK)	43	5.976	5.973	0.003	97	173223	100.0	103.8	
\$ 83 Toluene-d8 (Surr)	98	6.043	6.040	0.003	99	477493	50.0	49.1	
84 Toluene	91	6.122	6.125	-0.003	93	245386	20.0	18.5	
85 trans-1,3-Dichloropropene	75	6.524	6.521	0.003	96	74790	20.0	14.1	
86 Ethyl methacrylate	69	6.572	6.575	-0.003	87	46604	NC	NC	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	83	6.761	6.758	0.003	97	50893	20.0	18.2	
88 Tetrachloroethene	166	6.791	6.788	0.003	97	65850	20.0	23.8	
89 1,3-Dichloropropane	76	6.986	6.983	0.003	92	83451	20.0	16.1	
90 2-Hexanone	58	7.083	7.080	0.003	96	65305	100.0	119.9	
91 n-Butyl acetate	43	7.223	7.226	-0.003	99	50873	20.0	8.32	
92 Chlorodibromomethane	129	7.242	7.238	0.004	98	66252	20.0	22.4	
93 Ethylene Dibromide	107	7.400	7.403	-0.003	99	59529	20.0	19.8	
* 94 Chlorobenzene-d5	117	7.996	7.993	0.003	85	454847	50.0	50.0	
95 Chlorobenzene	112	8.032	8.029	0.003	96	175083	20.0	21.9	
96 Ethylbenzene	106	8.136	8.139	-0.003	98	76563	20.0	18.3	
97 1,1,1,2-Tetrachloroethane	131	8.154	8.151	0.003	97	58697	20.0	21.6	
98 m-Xylene & p-Xylene	106	8.294	8.291	0.003	0	125353	20.0	24.1	
99 o-Xylene	106	8.744	8.741	0.003	94	91871	20.0	17.5	
100 n-Butyl acrylate	73	8.762	8.759	0.003	98	37302	20.0	14.1	
101 Styrene	104	8.775	8.778	-0.003	96	181994	20.0	20.3	
103 Bromoform	173	8.988	8.984	0.004	97	45051	20.0	24.4	
102 Amyl acetate (mixed isomers)	43	9.006	9.009	-0.003	92	67144	20.0	7.75	
104 Isopropylbenzene	105	9.121	9.124	-0.003	96	239786	20.0	18.8	
\$ 105 4-Bromofluorobenzene	174	9.322	9.319	0.003	95	191643	50.0	59.3	
106 Bromobenzene	156	9.444	9.447	-0.003	96	81260	20.0	19.3	
107 1,1,2,2-Tetrachloroethane	83	9.517	9.514	0.003	99	83452	20.0	16.7	
108 N-Propylbenzene	91	9.529	9.532	-0.003	99	303204	20.0	15.3	
109 1,2,3-Trichloropropane	110	9.553	9.550	0.003	98	18537	20.0	16.9	
110 trans-1,4-Dichloro-2-butene	53	9.578	9.581	-0.003	90	18165	NC	NC	
111 2-Chlorotoluene	91	9.626	9.629	-0.003	97	230353	20.0	16.3	
112 4-Ethyltoluene	105	9.645	9.641	0.004	98	266874	NC	NC	
113 1,3,5-Trimethylbenzene	105	9.711	9.708	0.003	92	217444	20.0	16.5	
114 4-Chlorotoluene	91	9.742	9.739	0.003	97	238721	20.0	17.5	
115 Butyl Methacrylate	87	9.827	9.824	0.003	90	65656	20.0	12.8	
116 tert-Butylbenzene	119	9.991	9.988	0.003	93	159181	20.0	16.0	
117 1,2,4-Trimethylbenzene	105	10.046	10.049	-0.003	97	235664	20.0	16.9	
118 sec-Butylbenzene	105	10.186	10.183	0.003	99	246441	20.0	16.4	
120 1,3-Dichlorobenzene	146	10.308	10.305	0.003	97	149768	20.0	19.8	
119 4-Isopropyltoluene	119	10.314	10.317	-0.003	97	206128	20.0	16.5	
* 121 1,4-Dichlorobenzene-d4	152	10.368	10.371	-0.003	95	300191	50.0	50.0	
122 1,4-Dichlorobenzene	146	10.393	10.390	0.003	96	159814	20.0	20.2	
123 1,2,3-Trimethylbenzene	105	10.411	10.414	-0.003	99	252624	20.0	17.1	
124 Benzyl chloride	91	10.521	10.517	0.004	99	122443	20.0	15.2	
125 2,3-Dihydroindene	117	10.575	10.572	0.003	94	250538	NC	NC	
126 p-Diethylbenzene	119	10.636	10.633	0.003	92	131858	NC	NC	
127 n-Butylbenzene	92	10.654	10.657	-0.003	97	119239	20.0	17.0	
128 1,2-Dichlorobenzene	146	10.703	10.700	0.003	97	151746	20.0	20.2	
129 1,2,4,5-Tetramethylbenzene	119	11.263	11.260	0.003	97	187629	NC	NC	
130 1,2-Dibromo-3-Chloropropane	157	11.342	11.345	-0.003	96	15706	20.0	20.0	
131 1,3,5-Trichlorobenzene	180	11.451	11.448	0.003	98	102758	NC	NC	
132 1,2,4-Trichlorobenzene	180	11.926	11.929	-0.003	94	90688	20.0	18.5	
133 Hexachlorobutadiene	225	12.011	12.008	0.003	97	36625	20.0	21.7	
134 Naphthalene	128	12.114	12.111	0.003	100	214886	20.0	17.0	
135 1,2,3-Trichlorobenzene	180	12.285	12.288	-0.003	95	90973	20.0	20.2	
S 136 1,2-Dichloroethene, Total	100				0		40.0	42.5	
S 137 Xylenes, Total	100				0		40.0	41.6	
S 138 Total BTEX	1				0		100.0	93.8	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00500	Amount Added: 20.00	Units: uL	
8260MIX1COMB_00161	Amount Added: 20.00	Units: uL	
524freon_00059	Amount Added: 20.00	Units: uL	
ACROLEIN W_00145	Amount Added: 4.00	Units: uL	
8260ISNEW_00171	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00233	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82201.D

Injection Date: 03-Nov-2022 12:40:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-268503-B-1 MSD

Worklist Smp#: 12

Client ID: RW-6

Purge Vol: 5.000 mL

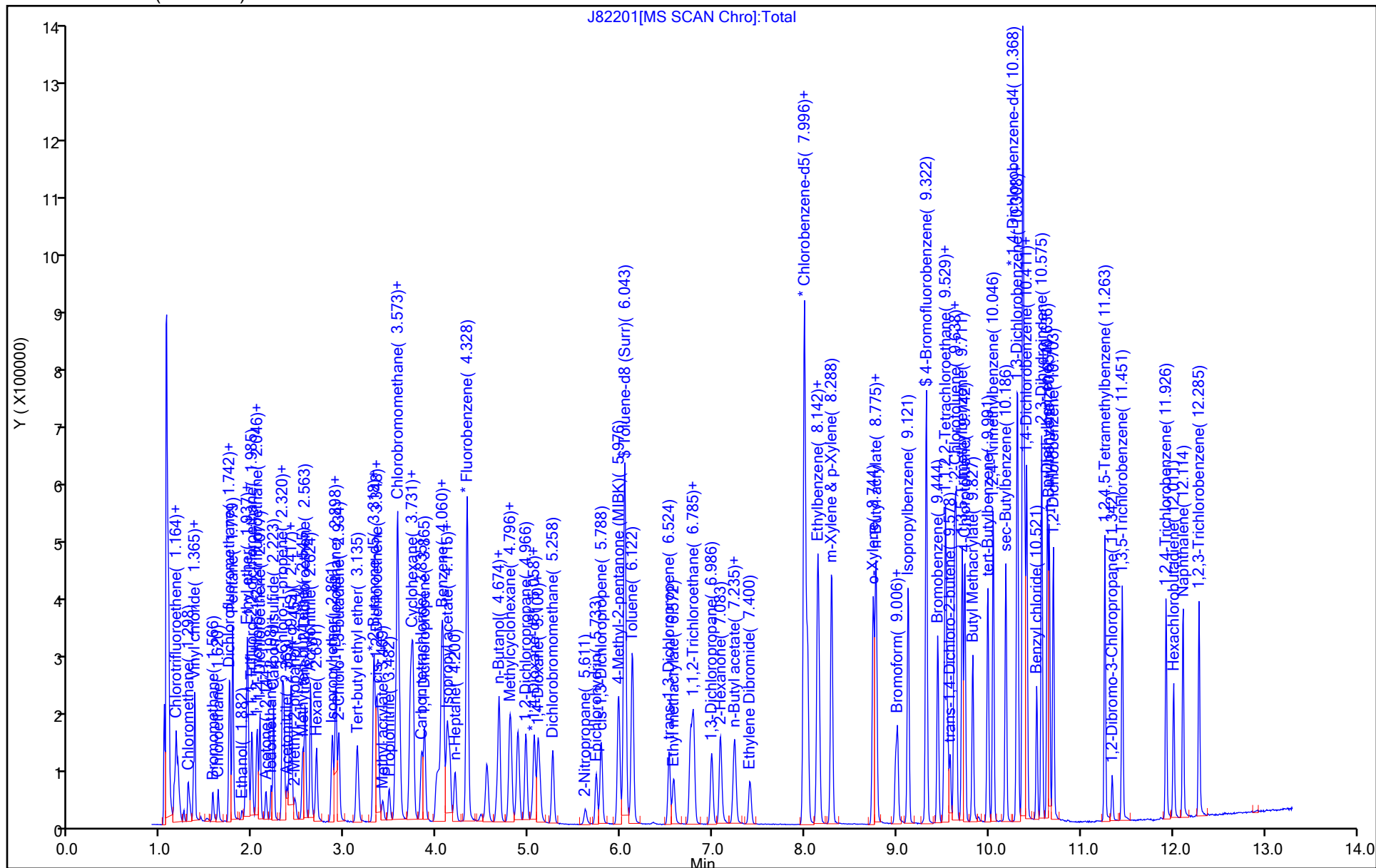
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8260_W8

Limit Group: VOA 624.1 ICAL

Column: Rtx-624 (0.25 mm)



Eurofins Edison
Recovery Report

Data File: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\J82201.D
 Lims ID: 460-268503-B-1 MSD
 Client ID: RW-6
 Sample Type: MSD
 Inject. Date: 03-Nov-2022 12:40:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-268503-B-1 MSD
 Misc. Info.: 460-0152676-012
 Operator ID: Instrument ID: CVOAMS8
 Method: \\chromfs\Edison\ChromData\CVOAMS8\20221103-152676.b\8260_W8.m
 Limit Group: VOA 624.1 ICAL
 Last Update: 03-Nov-2022 12:59:12 Calib Date: 13-Oct-2022 02:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Edison\ChromData\CVOAMS8\20221012-151655.b\J81268.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1674

First Level Reviewer: KG2Q

Date: 03-Nov-2022 12:59:12

Compound	Amount Added	Amount Recovered	% Rec.
\$ 55 Dibromofluoromethane (Surr)	50.0	56.5	113.10
\$ 61 1,2-Dichloroethane-d4 (Surr)	50.0	42.8	85.50
\$ 83 Toluene-d8 (Surr)	50.0	49.1	98.14
\$ 105 4-Bromofluorobenzene	50.0	59.3	118.70

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Edison Job No.: 460-268503-1

SDG No.: _____

Instrument ID: CVOAMS8 Start Date: 10/12/2022 22:40Analysis Batch Number: 871602 End Date: 10/13/2022 04:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-871602/1		10/12/2022 22:40	1	J81260.D	Rtx-624 0.25 (mm)
STD7 460-871602/3 IC		10/12/2022 23:30	1	J81262.D	Rtx-624 0.25 (mm)
STD1 460-871602/4 IC		10/12/2022 23:56	1	J81263.D	Rtx-624 0.25 (mm)
STD5 460-871602/5 IC		10/13/2022 00:21	1	J81264.D	Rtx-624 0.25 (mm)
STD20 460-871602/6 ICIS		10/13/2022 00:46	1	J81265.D	Rtx-624 0.25 (mm)
STD50 460-871602/7 IC		10/13/2022 01:11	1	J81266.D	Rtx-624 0.25 (mm)
STD200 460-871602/8 IC		10/13/2022 01:36	1	J81267.D	Rtx-624 0.25 (mm)
STD500 460-871602/9 IC		10/13/2022 02:01	1	J81268.D	Rtx-624 0.25 (mm)
ICV 460-871602/16		10/13/2022 04:56	1	J81275.D	Rtx-624 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Edison Job No.: 460-268503-1

SDG No.: _____

Instrument ID: CVOAMS8 Start Date: 11/03/2022 07:37

Analysis Batch Number: 875754 End Date: 11/03/2022 19:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-875754/1		11/03/2022 07:37	1	J82190.D	Rtx-624 0.25 (mm)
CCVIS 460-875754/3		11/03/2022 08:29	1	J82192.D	Rtx-624 0.25 (mm)
LCS 460-875754/5		11/03/2022 09:28	1	J82194.D	Rtx-624 0.25 (mm)
MB 460-875754/8		11/03/2022 10:53	1	J82197.D	Rtx-624 0.25 (mm)
ZZZZZ		11/03/2022 11:25	1		Rtx-624 0.25 (mm)
460-268503-1	RW-6	11/03/2022 11:50	1	J82199.D	Rtx-624 0.25 (mm)
460-268503-1 MS	RW-6 MS	11/03/2022 12:15	1	J82200.D	Rtx-624 0.25 (mm)
460-268503-1 MSD	RW-6 MSD	11/03/2022 12:40	1	J82201.D	Rtx-624 0.25 (mm)
ZZZZZ		11/03/2022 13:30	1		Rtx-624 0.25 (mm)
ZZZZZ		11/03/2022 13:55	1		Rtx-624 0.25 (mm)
ZZZZZ		11/03/2022 14:20	1		Rtx-624 0.25 (mm)
ZZZZZ		11/03/2022 14:45	1		Rtx-624 0.25 (mm)
460-268503-7	FB_(20221028)	11/03/2022 15:10	1	J82207.D	Rtx-624 0.25 (mm)
460-268503-8	TB_(20221028)	11/03/2022 15:35	1	J82208.D	Rtx-624 0.25 (mm)
ZZZZZ		11/03/2022 16:00	1		Rtx-624 0.25 (mm)
ZZZZZ		11/03/2022 16:25	1		Rtx-624 0.25 (mm)
460-268503-4	MW-9	11/03/2022 16:50	1	J82211.D	Rtx-624 0.25 (mm)
460-268503-5	PZ-21	11/03/2022 17:15	1	J82212.D	Rtx-624 0.25 (mm)
460-268503-2	RW-7	11/03/2022 17:40	1	J82213.D	Rtx-624 0.25 (mm)
460-268503-3	MW-2A	11/03/2022 18:05	1	J82214.D	Rtx-624 0.25 (mm)
460-268503-6	BD_(10282022)	11/03/2022 18:30	1	J82215.D	Rtx-624 0.25 (mm)
ZZZZZ		11/03/2022 19:20	50		Rtx-624 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Edison Job No.: 460-268503-1

SDG No.: _____

Batch Number: 871602 Batch Start Date: 10/12/22 22:40 Batch Analyst: Boykin, KennethBatch Method: 624.1 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	14DIOXINTER 00146	524freon 00058	8260 SP 00159	8260ISNEW 00171
BFB 460-871602/1		624.1		5 mL	5 mL				
STD7 460-871602/3 IC		624.1		5 mL	5 mL				1 uL
STD1 460-871602/4 IC		624.1		5 mL	5 mL	30 uL	10 uL		1 uL
STD5 460-871602/5 IC		624.1		5 mL	5 mL		10 uL		1 uL
STD20 460-871602/6 ICIS		624.1		5 mL	5 mL		20 uL		1 uL
STD50 460-871602/7 IC		624.1		5 mL	5 mL		50 uL		1 uL
STD200 460-871602/8 IC		624.1		5 mL	5 mL				1 uL
STD500 460-871602/9 IC		624.1		5 mL	5 mL				1 uL
ICV 460-871602/16		624.1		5 mL	5 mL			20 uL	1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260MIX1COMB 00160	8260SURR250 00232	8FreonHi 00049	8FreonsSS 00050	ACROLEIN SP 00142	ACROLEIN W 00145
BFB 460-871602/1		624.1							
STD7 460-871602/3 IC		624.1			1 uL				
STD1 460-871602/4 IC		624.1		10 uL	1 uL				4 uL
STD5 460-871602/5 IC		624.1		10 uL	1 uL				4 uL
STD20 460-871602/6 ICIS		624.1		20 uL	1 uL				4 uL
STD50 460-871602/7 IC		624.1		50 uL	1 uL				10 uL
STD200 460-871602/8 IC		624.1			1 uL	20 uL			20 uL
STD500 460-871602/9 IC		624.1			1 uL	50 uL			40 uL
ICV 460-871602/16		624.1			1 uL		20 uL	4 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.

624.1

Page 1 of 3

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Edison Job No.: 460-268503-1

SDG No.: _____

Batch Number: 871602 Batch Start Date: 10/12/22 22:40 Batch Analyst: Boykin, KennethBatch Method: 624.1 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	ACRY/EPIH MIX 00105	BFB 00032	Ethanol mix 00069	GAS C SP 00483	GAS Hi 00426	GASES Li 00497
BFB 460-871602/1		624.1			1 uL				
STD7 460-871602/3 IC		624.1		20 uL					2.5 uL
STD1 460-871602/4 IC		624.1							10 uL
STD5 460-871602/5 IC		624.1							10 uL
STD20 460-871602/6 ICIS		624.1							20 uL
STD50 460-871602/7 IC		624.1							50 uL
STD200 460-871602/8 IC		624.1				20 uL		20 uL	
STD500 460-871602/9 IC		624.1				50 uL		50 uL	
ICV 460-871602/16		624.1					20 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	MIX 2 Hi 00128	MIX I Hi 00155				
BFB 460-871602/1		624.1							
STD7 460-871602/3 IC		624.1							
STD1 460-871602/4 IC		624.1							
STD5 460-871602/5 IC		624.1							
STD20 460-871602/6 ICIS		624.1							
STD50 460-871602/7 IC		624.1							
STD200 460-871602/8 IC		624.1		20 uL	20 uL				
STD500 460-871602/9 IC		624.1		50 uL	50 uL				
ICV 460-871602/16		624.1							

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.

624.1

Page 2 of 3

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Edison Job No.: 460-268503-1

SDG No.: _____

Batch Number: 871602 Batch Start Date: 10/12/22 22:40 Batch Analyst: Boykin, KennethBatch Method: 624.1 Batch End Date: _____

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.

624.1

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Edison Job No.: 460-268503-1

SDG No.: _____

Batch Number: 875754 Batch Start Date: 11/03/22 07:37 Batch Analyst: Moroney, Christopher JBatch Method: 624.1 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	524freon 00059	8260ISNEW 00171	8260MIX1COMB 00161
BFB 460-875754/1		624.1		5 mL	5 mL				
CCVIS 460-875754/3		624.1		5 mL	5 mL		20 uL	1 uL	20 uL
LCS 460-875754/5		624.1		5 mL	5 mL		20 uL	1 uL	20 uL
MB 460-875754/8		624.1		5 mL	5 mL			1 uL	
460-268503-B-1	RW-6	624.1	T	5 mL	5 mL	<2 PH Units		1 uL	
460-268503-B-1 MS	RW-6	624.1	T	5 mL	5 mL	<2 PH Units	20 uL	1 uL	20 uL
460-268503-B-1 MSD	RW-6	624.1	T	5 mL	5 mL	<2 PH Units	20 uL	1 uL	20 uL
460-268503-B-7	FB_ (20221028)	624.1	T	5 mL	5 mL	<2 PH Units		1 uL	
460-268503-B-8	TB_ (20221028)	624.1	T	5 mL	5 mL	<2 PH Units		1 uL	
460-268503-B-4	MW-9	624.1	T	5 mL	5 mL	<2 PH Units		1 uL	
460-268503-B-5	PZ-21	624.1	T	5 mL	5 mL	<2 PH Units		1 uL	
460-268503-B-2	RW-7	624.1	T	5 mL	5 mL	7 PH Units		1 uL	
460-268503-B-3	MW-2A	624.1	T	5 mL	5 mL	<2 PH Units		1 uL	
460-268503-B-6	BD_ (10282022)	624.1	T	5 mL	5 mL	<2 PH Units		1 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260SURRE250 00233	ACROLEIN W 00145	BFB 00032	GASES Li 00500		
BFB 460-875754/1		624.1				1 uL			
CCVIS 460-875754/3		624.1		1 uL	4 uL		20 uL		
LCS 460-875754/5		624.1		1 uL	4 uL		20 uL		
MB 460-875754/8		624.1		1 uL					
460-268503-B-1	RW-6	624.1	T	1 uL					
460-268503-B-1 MS	RW-6	624.1	T	1 uL	4 uL		20 uL		
460-268503-B-1 MSD	RW-6	624.1	T	1 uL	4 uL		20 uL		
460-268503-B-7	FB_ (20221028)	624.1	T	1 uL					
460-268503-B-8	TB_ (20221028)	624.1	T	1 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.

624.1

Page 1 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Edison Job No.: 460-268503-1

SDG No.: _____

Batch Number: 875754 Batch Start Date: 11/03/22 07:37 Batch Analyst: Moroney, Christopher JBatch Method: 624.1 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260SURR250 00233	ACROLEIN W 00145	BFB 00032	GASES Li 00500		
460-268503-B-4	MW-9	624.1	T	1 uL					
460-268503-B-5	PZ-21	624.1	T	1 uL					
460-268503-B-2	RW-7	624.1	T	1 uL					
460-268503-B-3	MW-2A	624.1	T	1 uL					
460-268503-B-6	BD_(10282022)	624.1	T	1 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

624.1

Shipping and Receiving Documents

Edison, NJ 08817-2859
phone 732.549.3900 fax 732.549.3679

Regulatory Program: ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact		Project Manager: Rebecca Hensel		Site Contact: Janelle van Lieshout		Date: 10/28/2022		COC No:	
Your Company: Arcadis U.S., Inc.		Tel/Fax: 315.671.9156		Lab Contact: Kristyn Tempe		Carrier:		Sampler:	
Address: 110 W. Fayette St.		Analysis Turnaround Time		Perform MS / MSD (Y / N)		Volatile Organics - Xylenes (Method 624.1)		For Lab Use Only:	
City/State/Zip: Syracuse, NY		CALENDAR DAYS		Filtered Sample (Y / N)				Walk-in Client:	
(315) 671-9296		TAT if different from Below		Matrix				Lab Sampling:	
(xxx) xxx-xxxx		☐ 2 weeks		Sample Type (C=Comp, G=Grab)				Job / SDG No.:	
Project Name: SMC Maestri Site		☐ 1 week		Sample Date					
Site: Geddes, NY 13209		☐ 2 days		Sample Time					
P O # 30120984		☐ 1 day							
Sample Identification		Sample Date		Sample Time		Matrix		Sample Specific Notes:	
RW-6		10/28/22		13:40		G Water			
RW-7		10/28/22		12:10		G Water			
MW-2A		10/28/22		11:15		G Water			
MW-9		10/28/22		13:00		G Water			
PZ-20		10/28/22				G Water			
PZ-21		10/28/22		15:30		G Water			
BD (10282022)		10/28/22				G Water			
FB (20221028)		10/28/22				G Water			
FB (20221028)		10/28/22				G Water			
TB (20221028)		10/28/22				G Water			
TB (20221028)		10/28/22				G Water			
MS MSD		10/28/22		13:40		G Water			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Irritant ☐ Disposal by Lab ☐ Return to Client ☐ Archive for Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐	Custody Seal No.:	Cooler Temp. (°C):	Obs'd:	Therm ID No.:
Relinquished by: <i>Matthew Bultrona</i>	Company: <i>ARCADIS</i>	Date/Time: <i>10/28/22 1640</i>	Received by: <i>Kristyn Tempe</i>	Company: <i>S&B</i>
Relinquished by: <i>Matthew Bultrona</i>	Company: <i>S&B</i>	Date/Time: <i>10/28/22 1900</i>	Received by: <i>Kristyn Tempe</i>	Company: <i>S&B</i>
Relinquished by: <i>Matthew Bultrona</i>	Company: <i>S&B</i>	Date/Time: <i>10/28/22 1220</i>	Received by: <i>Kristyn Tempe</i>	Company: <i>S&B</i>

Job Number:

268503

Number of Coolers:

IR Gun #

Cooler Temperatures

	CORRECTED		RAW	
	RAW	CORRECTED	RAW	CORRECTED
Cooler #1:	25	25		
Cooler #2:				
Cooler #3:				
Cooler #4:				
Cooler #5:				
Cooler #6:				
Cooler #7:				
Cooler #8:				
Cooler #9:				

[illegible]

If pH adjustments are required record the information below:

Sample No(s). adjusted:

Preservative Name/Conc.:

Volume of Preservative used (ml):

Lot # of Preservative(s):

Expiration Date:

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials:

Date:

10/29/22

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 460-268503-1

Login Number: 268503

List Source: Eurofins Edison

List Number: 1

Creator: Thundathorn, Sukanan 1

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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 $<6\text{mm}$ (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: ARCADIS U.S. Inc

Job Number: 460-268503-1

Login Number: 268503

List Number: 2

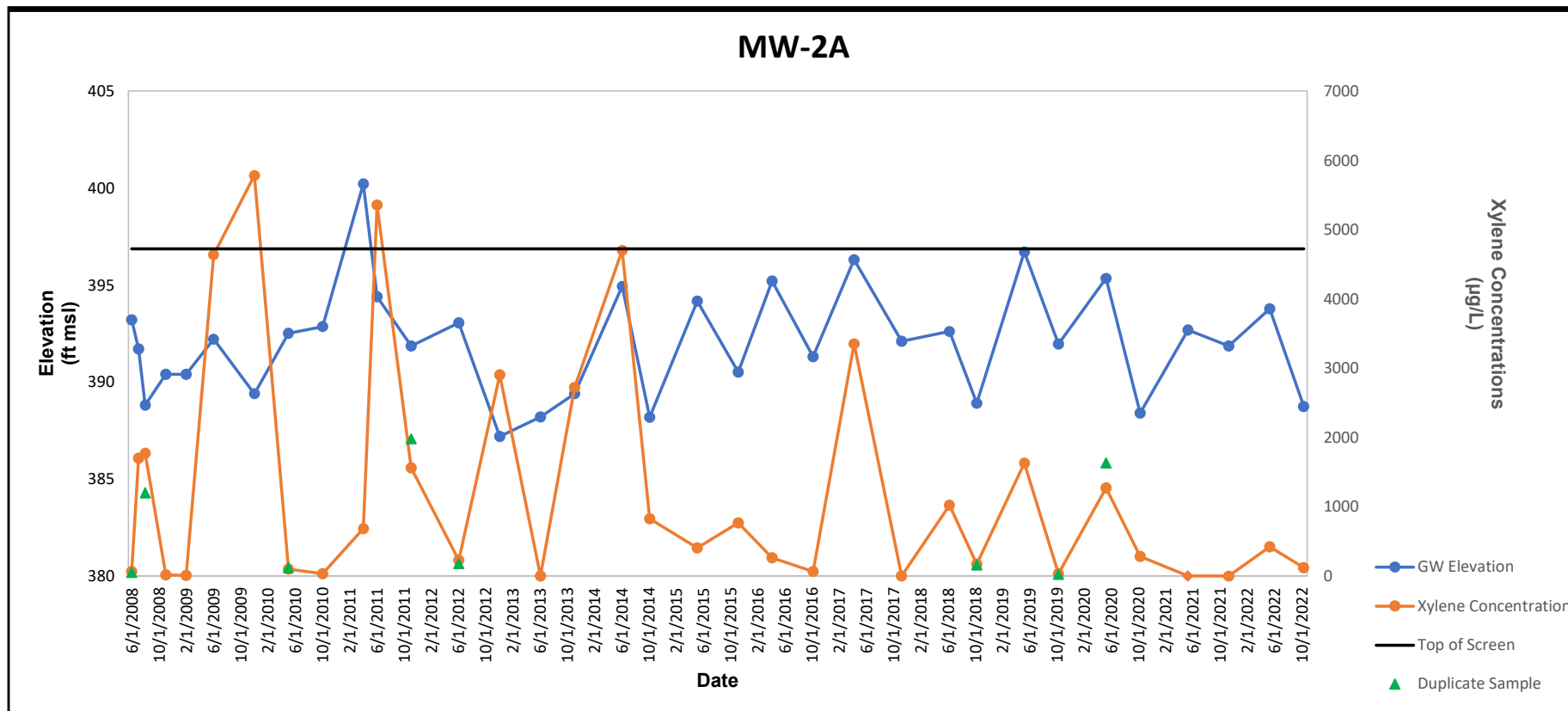
Creator: Thundathorn, Sukanan 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	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 $<6\text{mm}$ (1/4").	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	

Appendix G

Historic Well Xylene Concentrations and Water Table Elevations



Notes:

Monitoring well MW-2A was formerly known as RW-2 in 2006

The Site Specific Cleanup Goal for Total Xylene is 5 µg/L

ft msl = feet mean sea level

STAUFFER MANAGEMENT COMPANY
MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK

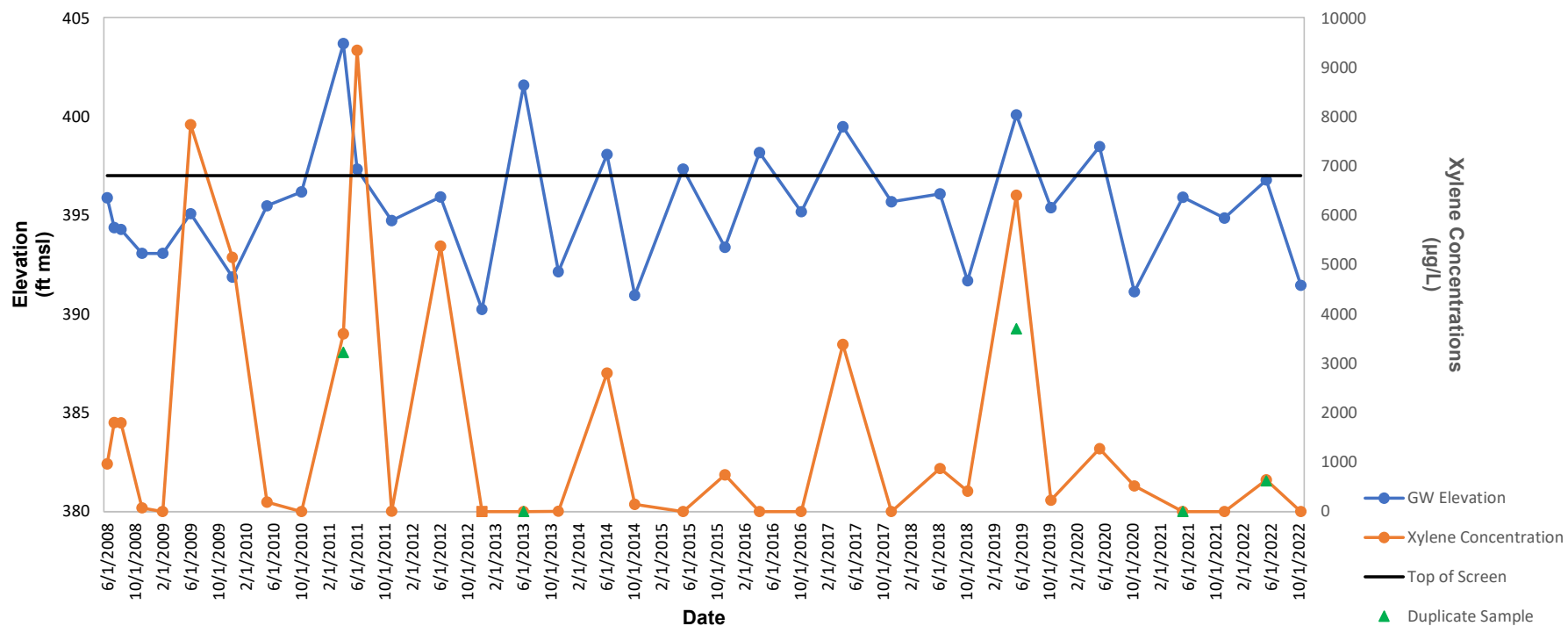
TOTAL XYLENE AND GROUNDWATER ELEVATION TREND GRAPH



APPENDIX

G-1

MW-9



Notes:

Monitoring well MW-9 was not sampled in December 2012 due to it being dry

The Site Specific Cleanup Goal for Total Xylene is 5 µg/L

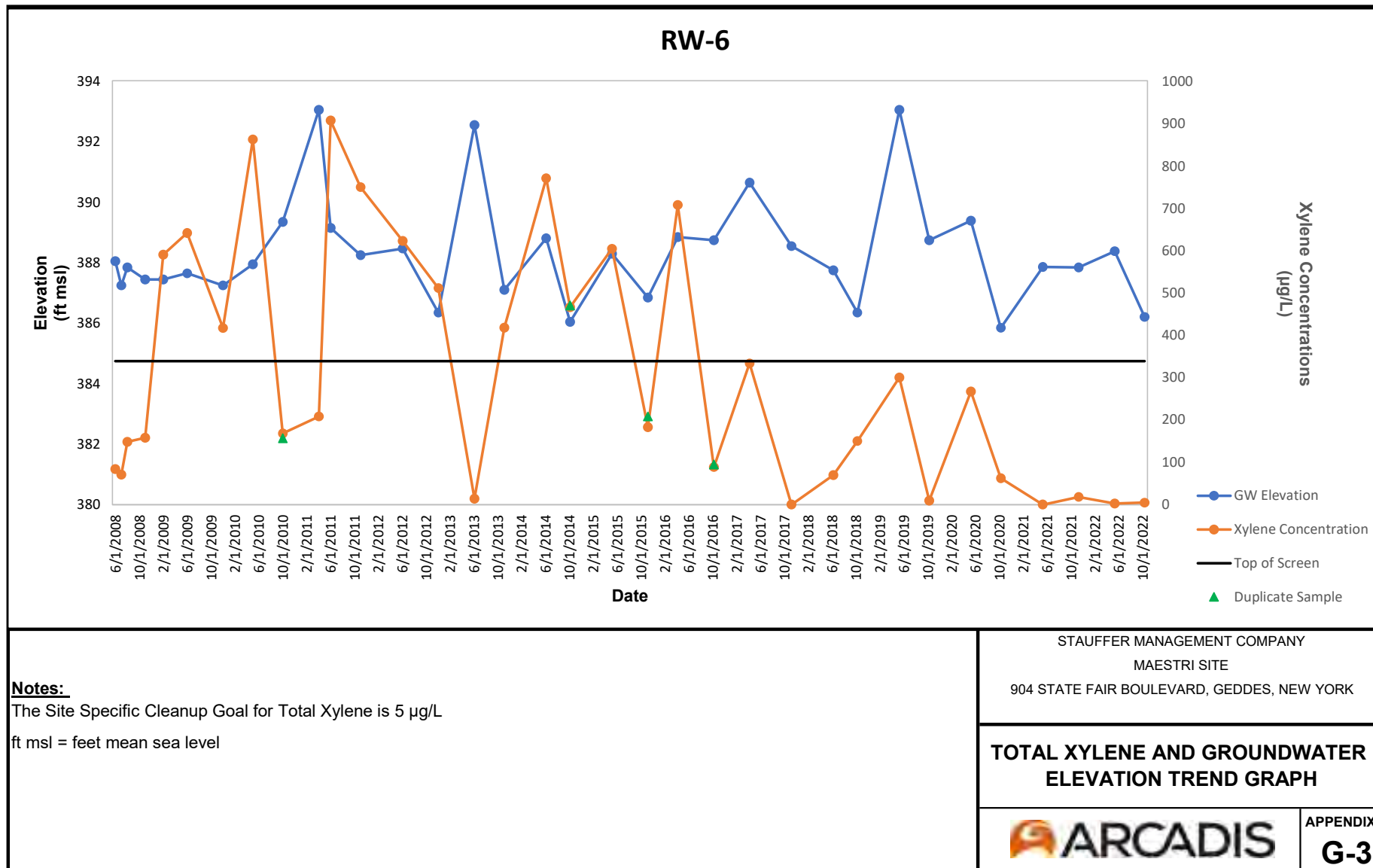
ft msl = feet mean sea level

STAUFFER MANAGEMENT COMPANY
MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK

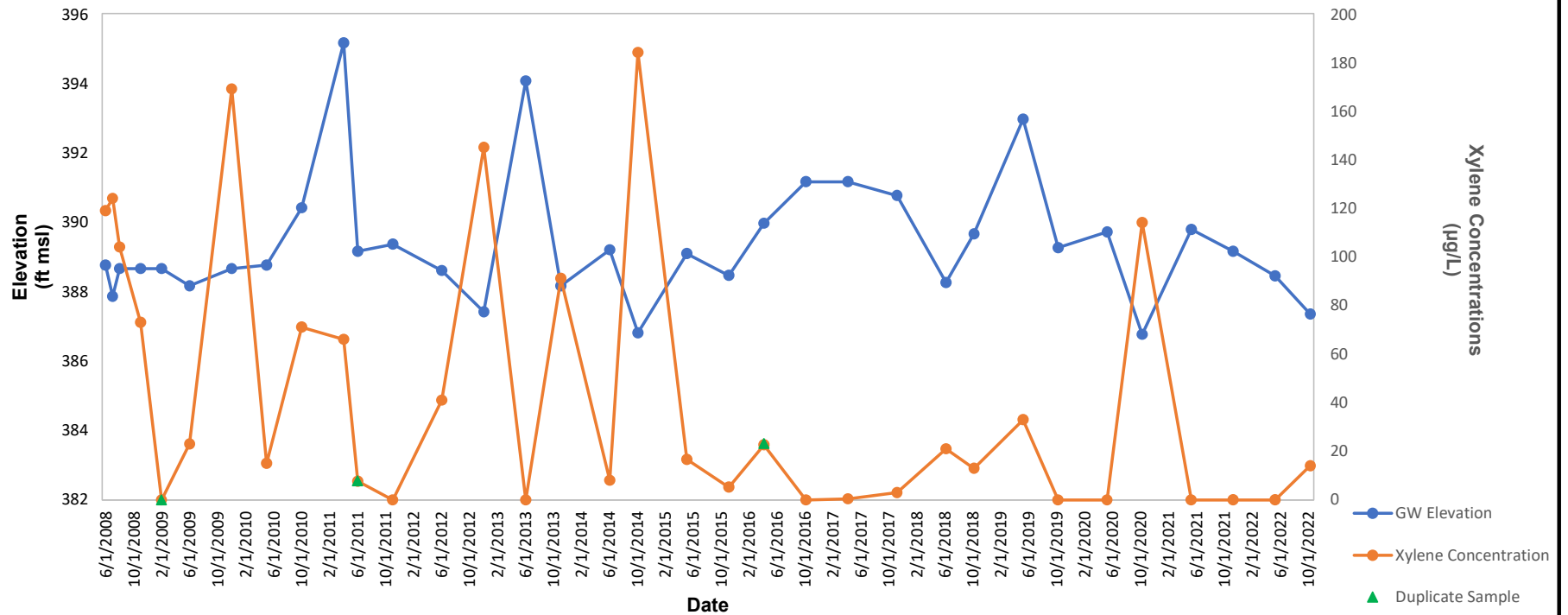
TOTAL XYLENE AND GROUNDWATER ELEVATION TREND GRAPH



APPENDIX
G-2



RW-7



Notes:

The Site Specific Cleanup Goal for Total Xylene is 5 µg/L

ft msl = feet mean sea level

STAUFFER MANAGEMENT COMPANY
MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK

TOTAL XYLENE AND GROUNDWATER ELEVATION TREND GRAPH



APPENDIX
G-4

Appendix H

2022 Low-Flow Sampling Logs

AstraZeneca - Maestri Site Gauging Log

Date: 5/24/2022

Project Number: #####

Task: 01

Complete By: JTG

Maestri Site Groundwater Monitoring

Well I.D.	Time	Depth to Water (BTIC)	Depth to Product	Depth to Bottom	Notes
Monitoring Wells and Piezometers					
MW-9	1025	12.09	—	18.79	HB
MW-10	0929	8.23	—	20.64	FB
MW-14	0932	15.90	—	47.53	Calculated MW-13 SB
PZ-2	1011	11.38	—	20.37	SB
PZ-3	1044	11.45	—	22.73	SB
PZ-5	1213	5.47	—	18.95	SB
PZ-6	1048	11.40	—	22.28	SB
PZ-7	1041 116	11.68	—	25.08 #	SB
PZ-9	1033	11.24	—	22.58 #	FB
PZ-10	1030	10.47	—	21.57	SB
PZ-12	1238	13.11	—	21.62 #	SB
PZ-13	1020	12.64	—	20.64	Calculated MW-18 SB
PZ-14	1008	11.58	—	24.23	SB
PZ-15	1006	17.30	—	23.48	SB
PZ-18	0949	17.75	—	24.55	SB
PZ-19	1000	17.51	—	22.70 #	SB
PZ-20	1203	5.57	—	19.71 #	SB
PZ-21	1200	2.24	—	18.77	SB
MW-2A (formerly RW-2)	1027	12.63	—	23.03 #	SB
RW-3	0939	18.40	—	27.43	SB
RW-5	1036	11.00	—	25.94 #	SB
RW-6	1215	5.27	—	19.08	SB

ARCADIS

Page 1 of 1

Maestri Site Semi-Annual Event

Well ID: MW-2AProject Number: 30120984Task: 01Date: 5/24/22Well Headspace PID: —Sampling Time: 1500Sampled By: JTBWeather: 78°F SunnyCoded Replicate No.: —Replicate Type (circle one): ~~Duplicate~~ MS/MSD

Instrument Identification

Serial #: 50077 PID — Water Quality Meter(s) YSI ProDSS

Purging Information

Casing Material: SteelPurge Method: (circle one) Submersible Centrifugal BladderCasing Diameter: 8" inScreen Interval: From: 386.86 To: 396.86Total Depth: 23.03 ftPump Intake Setting: 390 (16.50')Depth to Product: — ftDepth to Water: 12.63 ftTotal Volume Purged: 27 gal.Water Column: 16.40 ftPump on: 1343 Off: 1458 (14)Gallons in Well: 27.15 gal

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	TDS (mg/L)	Comments
Stabilization Range			<0.3 ft	10% if >1	+/- 0.1	+/- 10	3%	3%	10%		
1345	0	880	12.68	2.32	7.52	-80.7	1.554	9.2	0.85	—	0
1350	5	1660	12.77	2.62	7.48	-100.8	1.494	9.1	0.54	—	2.1-4.2 <u>(14)</u>
1355	10	2200	12.95	2.71	7.40	-102.0	1.468	9.0	0.45	—	9.2g
1400	15	2200	13.13	2.38	7.37	-102.3	1.468	9.1	0.43	—	7.1g
1405	20	2200	13.30	2.19	7.38	-104.6	1.472	9.0	0.40	—	10g
1410	25	2200	13.41	1.93	7.39	-105.9	1.476	9.0	0.38	—	12.9
1415	30	2200	13.54	1.92	7.40	-107.6	1.486	9.1	0.38	—	15.8
1420	35	2200	13.67	1.92	7.41	-107.9	1.492	9.0	0.38	—	18.7
1425	40	2200	13.79	1.85	7.40	-108.7	1.503	9.0	0.37	—	21.6
1430	45	2200	13.88	2.30	7.42	-98.9	1.487	9.1	0.38	—	24.5
1435	50	400	13.91	1.95	7.39	-105.9	1.479	10.3	0.38	—	25.0
1440	55	400	13.95	2.28	7.39	-108.4	1.477	9.5	0.36	—	25.5
1445	60	400	13.96	2.58	7.39	-108.7	1.482	9.5	0.35	—	26.0
1450	65	400	13.96	2.51	7.40	-110.4	1.484	9.4	0.35	—	26.5
1455	70	400	13.97	2.44	7.40	-111.3	1.491	9.5	0.35	—	27.0

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	MS/MSD YES

Color: clear
Odor: NoneWell Condition: Good
Purge Water Disposal: 55 gal. Drum

ARCADIS

Page 1 of 1

Maestri Site Semi-Annual Event

Well ID: RW-3Project Number: 30120984Task: 01Date: 5/24/22Well Headspace PID: RW-3Sampling Time: 1817Sampled By: JTBWeather: 73°F Sun/CloudsCoded Replicate No.: —Replicate Type (circle one): Duplicate ~~MS/MSD~~

Instrument Identification

Serial #: 50077 PID — Water Quality Meter(s) YSI Pro DSS

Purging Information

Casing Material: SteelPurge Method: (circle one) Submersible ~~Centrifugal~~ ~~Bladder~~Casing Diameter: 6" inScreen Interval: From: 15.03 To: 25.03Total Depth: 27.43 ftPump Intake Setting: 22.00Depth to Product: — ftDepth to Water: 18.40 ftTotal Volume Purged: 13.5 gal.Water Column: 9.07 ftPump on: 17.07 Off: 1816Gallons in Well: 13.26 gal

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	TDS (mg/L)	Comments
Stabilization Range			<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%		
1710	0	1500	19.54	34.90	7.12	6.2	2.080	9.7	0.92	—	0
1715	5	1500	20.43	16.54	7.09	-5.2	2.060	9.7	0.56	—	1.95 gal
1720	10	900	20.85	3.00	7.03	-14.5	1.961	9.8	0.44	—	5.85 gal
1725	15	600	21.20	2.56	7.03	-19.0	1.851	9.9	0.48	—	7.00 gal
1730	20	600	21.12	2.74	7.04	-22.3	1.832	10.1	0.48	—	7.75
1735	25	600	21.00	2.80	7.04	-27.1	1.901	10.2	0.44	—	8.5
1740	30	600	21.82	2.47	7.04	-32.4	1.660	10.1	0.43	—	9.25
1745	35	600	21.41	2.51	7.07	-35.9	1.141	10.0	0.45	—	10
1750	40	600	21.60	2.48	7.10	-35.7	1.577	10.1	0.49	—	10.75
1755	45	400	21.68	3.98	7.06	-32.3	1.837	10.2	0.81	—	11.50
1800	50	400	21.65	3.19	7.07	-42.8	1.947	10.3	0.44	—	12.225
1805	55	400	21.71	3.03	7.07	-42.7	1.705	10.2	0.52	—	12.53
1810	60	400	21.69	3.04	7.09	-42.1	1.882	10.2	0.50	—	13
1815	65	400	21.68	3.00	7.11	-39.9	1.667	10.3	0.54	—	13.5
	70										

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	Yes

Color: ClearWell Condition: GoodOdor: NonePurge Water Disposal: 55 gal. Drum

ARCADIS

Maestri Site Semi-Annual Event

Page 1 of 1Well ID: RW-8Project Number: 30120984Task: 01Date: 5/25/22Well Headspace PID: —Sampling Time: 0852Sampled By: JTBWeather: 60°F SunnyCoded Replicate No.: —Replicate Type (circle one): ~~Duplicate~~ MS/MSD

Instrument Identification

Serial #: 50077 PID — Water Quality Meter(s) YSI Pro PSS

Purging Information

Casing Material: SteelPurge Method: (circle one) Submersible Centrifugal BladderCasing Diameter: 6" inScreen Interval: From: — To: —Total Depth: 25.82 ftPump Intake Setting: 22.00Depth to Product: — ftDepth to Water: 12.45 ftTotal Volume Purged: 21 gal.Water Column: 13.37 ftPump on: 0749 Off: 0851Gallons in Well: 19.64 gal

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	TDS (mg/L)	Comments
Stabilization Range			<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%		
0750	0	2200	13.28	33.98	6.68	35.1	0.957	8.6	0.91	—	0
0755	5	2200	14.43	54.80	6.71	7.6	0.956	8.7	0.63	—	2.9
0800	10	1800	14.66	49.7	6.73	-8.6	0.957	8.7	0.57	—	5.8
0805	15	1800	14.92	54.68	6.75	-22.5	0.956	8.7	0.58	—	8.15
0810	20	1800	15.31	59.78	6.75	-29.7	0.955	8.7	0.60	—	10.5
0815	25	1800	15.67	65.5	6.76	-35.8	0.953	8.7	0.67	—	12.85
0820	30	1800	16.00	69.3	6.77	-39.8	0.954	8.7	0.65	—	15.20
0825	35	1800	16.34	74.7	6.88	-42.5	0.954	8.7	1.05	—	17.55
0830	40	1000	16.39	81.4	6.87	-42.9	0.952	8.8	0.90	—	18.80
0835	45	450	15.93	52.7	6.85	-46.8	0.955	9.1	0.72	—	19.35
0840	50	450	15.79	31.4	6.86	-47.6	0.955	9.1	0.78	—	19.90
0845	55	450	15.64	29.5	6.86	-49.2	0.954	9.2	0.74	—	20.45
0850	60	450	15.51	26.8	6.85	-50.6	0.954	9.2	0.72	—	21.00
	65										
	70										

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	Yes

Color: clear
Odor: noneWell Condition: Good
Purge Water Disposal: 55 gal. Drum

ARCADIS

Maestri Site Semi-Annual Event

Page 1 of 1Well ID: PZ-21Project Number: 30120984Task: 01Date: 5/25/22Well Headspace PID: —Sampling Time: 1108Sampled By: JTBWeather: 71°F Mostly CloudyCoded Replicate No.: —Replicate Type (circle one): ~~Duplicate~~ MS/MSD

Instrument Identification

Serial #: 50077 PID — Water Quality Meter(s) YSI DSS-Pro

Purging Information

Casing Material: PVCPurge Method: (circle one) Submersible Centrifugal BladderCasing Diameter: 2" inScreen Interval: From: 9.3 To: 19.3Total Depth: 18.77 ftPump Intake Setting: 14.00Depth to Product: — ftDepth to Water: 2.19 ftTotal Volume Purged: 4.15Water Column: 16.58 ftPump on: 1029 Off: 1106Gallons in Well: 2.70 gal

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm ³)	Temp (°C)	DO (mg/L)	TDS (mg/L)	Comments
Stabilization Range			<0.3 ft	10% if >1	+/- 0.1	+/- 10	3%	3%	10%		
1030	0	700	2.52	401.7	7.27	-103.4	1.072	12.1	1.95	—	0
1035	5	700	2.70	179.3	7.15	-120.3	1.049	11.2	0.65	—	0.9
1040	10	600	2.68	38.17	7.14	-126.6	1.061	11.1	0.50	—	1.65
1045	15	400	2.65	17.11	7.15	-130.0	1.065	11.1	0.45	—	2.15
1050	20	400	2.67	13.00	7.14	-131.1	1.064	11.1	0.41	—	2.65
1055	25	400	2.68	11.03	7.14	-133.3	1.067	11.1	0.39	—	3.15
1100	30	400	2.68	10.92	7.13	-133.5	1.061	11.1	0.37	—	3.65
1105	35	400	2.67	10.74	7.13	-133.7	1.060	11.1	0.37	—	4.15
	40										
	45										
	50										
	55										
	60										
	65										
	70										

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	<u>yes</u>

Color: Clear
Odor: NoneWell Condition: Good
Purge Water Disposal: 55 gal. Drum

ARCADIS
Maestri Site Semi-Annual Event

Page 1 of 1

Well ID: PZ-20

Project Number: 30120984

Task: 01

Date: 5/25/22

Well Headspace PID: —

Sampling Time: 1343

Sampled By: JTB

Weather: 74°F Cloudy

Coded Replicate No.: —

Replicate Type (circle one): Duplicate ~~MOMMO~~
Instrument Identification

Serial #: 50877 PID: — Water Quality Meter(s): VSI DSS PM
Purging Information

Casing Material: PVC

Purge Method: (circle one) Submersible Centrifugal Bladder

Casing Diameter: 2" in

Screen Interval: From: 10.0 To: 20.0

Total Depth: 19.71 ft

Pump Intake Setting: 15.0

Depth to Product: — ft

Depth to Water: 5.54 ft

Total Volume Purged: 2.95

Water Column: 14.17 ft

Pump on: 1243 Off: 1342

Gallons in Well: 2.3 ~~14.17~~ gal

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	TDS (mg/L)	Comments
Stabilization Range			<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%		
1245	0	300	6.89	15.34	7.12	-120.1	1.536	12.9	0.99	—	0
1250	5	300	7.95	18.07	7.06	-138.9	1.521	13.3	0.54	—	0.35
1255	10	210	7.88	14.34	7.06	-152.0	1.521	14.8	0.48	—	0.70
1300	15	210	7.89	14.88	7.07	-157.1	1.525	12.8	0.40	—	0.80 0.80
1305	20	210	7.89	14.34	7.07	-166.7	1.498	12.7	0.39	—	1.20
1310	25	210	7.89	12.21	7.08	-167.8	1.497	12.7	0.41	—	1.45
1315	30	210	7.88	9.90	7.08	-168.2	1.483	12.8	0.41	—	1.70
1320	35	210	7.88	6.25	7.07	-167.5	1.468	12.8	0.40	—	1.95
1325	40	210	7.89	3.87	7.07	-166.9	1.437	12.9	0.36	—	2.20
1330	45	210	7.89	2.79	7.07	-165.7	1.420	12.9	0.34	—	2.45
1335	50	210	7.88	2.71	7.07	-164.2	1.411	12.9	0.33	—	2.70
1340	55	210	7.88	2.60	7.07	-162.7	1.401	12.9	0.33	—	2.95
	60										
	65										
	70										

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	yes

Color: Clear
Odor: None

Well Condition: Good
Purge Water Disposal: 55 gal. Drum

ARCADIS

Maestri Site Semi-Annual Event

Page 1 of 1Well ID: RW-7Project Number: 30120984

Task: _____

Date: 5/24/22

Well Headspace PID: _____

Sampling Time: 17:55Sampled By: T. DerlethWeather: Sunny

Coded Replicate No.: _____

Replicate Type (circle one): Duplicate MS/MSD

Instrument Identification

Serial #:	PID	Water Quality Meter(s) <u>051291</u>
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Purging Information

Casing Material: Steel

Purge Method:(circle one) Submersible Centrifugal Bladder

Casing Diameter: 6" inScreen Interval: From: 384.26 To: 394.26Total Depth: 28.03 ftPump Intake Setting: 390.74

Depth to Product: _____ ft

Water @ 388.46Depth to Water: 17.31 ftTotal Volume Purged: 2.93 galsWater Column: 10.72 ftPump on: 16:50 Off: 17:50Gallons in Well: 15.74 gal

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	TDS (mg/L)	Comments
Stabilization Range			<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%		
16:50	0	500	17.42	53.70	7.48	-76.3	0.970	8.9	2.06		
16:55	5	500	18.12	4.64	7.30	-101.7	0.962	8.8	0.92		
17:00	10	100	17.97	4.65	7.26	-100.8	0.960	9.4	0.90		
17:05	15	100	17.77	4.15	7.21	-102.4	0.961	9.7	0.73		
17:10	20	100	17.68	4.20	7.19	-103.7	0.960	9.6	0.66		
17:15	25	100	17.59	4.30	7.16	-101.8	0.958	10.0	0.64		
17:20	30	100	17.48	3.97	7.18	-103.4	0.958	10.8	0.61		
17:25	35	100	17.57	4.81	7.23	-108.5	0.967	9.3	0.47		
17:30	40	100	17.68	4.31	7.21	-110.9	0.965	9.1	0.43		
17:35	45	100	17.73	4.29	7.18	-111.0	0.965	9.2	0.42		
17:40	50	100	17.73	4.37	7.17	-110.0	0.965	9.3	0.42		
17:45	55	100	17.73	4.38	7.15	-109.2	0.964	9.3	0.40		
17:50	60	100	17.73	4.37	7.13	-107.1	0.966	9.4	0.42		
	65										
	70										

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	

Color: None
Odor: NoneWell Condition: Good
Purge Water Disposal: 55 gal - Drum

ARCADIS

Page 1 of 1

Maestri Site Semi-Annual Event

Well ID: RW-5Project Number: 30120984

Task: _____

Date: 5/25Well Headspace PID: NASampling Time: 9:05Sampled By: T. DerleathWeather: Sunny

Coded Replicate No.: _____

Replicate Type (circle one): Duplicate MS/MSD

Instrument Identification

Serial #:	PID <u>NA</u>	Water Quality Meter(s) <u>061291</u>
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Purging Information

Casing Material: SteelPurge Method: (circle one) Submersible Centrifugal BladderCasing Diameter: 6 inScreen Interval: From: 386.17 To: 396.17Total Depth: 25.94 ftPump Intake Setting: 391.17 (16.53 ft)Depth to Product: NA ftWater @ 11.03 ftDepth to Water: 11.08 ftTotal Volume Purged: 21.92 gallonsWater Column: 14.86 ftPump on: 7:50 Off: 9:00Gallons in Well: 21.82 gal

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	TDS (mg/L)	Comments
Stabilization Range			<0.3 ft	10% if >1	+/- 0.1	+/- 10	3%	3%	10%		
7:50	0	1000	11.24	6.84	6.74	135.5	0.701	9.5	2.03		
7:55	5	1500	12.29	7.35	6.70	60.1	0.707	9.2	0.58		
8:00	10	1500	12.70	8.74	6.69	51.2	0.734	9.2	0.51		
8:05	15	1500	12.98	11.45	6.70	45.8	0.752	9.2	0.48		
8:10	20	1500	13.16	14.15	6.70	41.6	0.765	9.2	0.46		
8:15	25	1500	13.28	18.22	6.70	39.1	0.781	9.2	0.45		
8:20	30	1500	13.37	22.53	6.71	35.9	0.784	9.2	0.44		
8:25	35	1500	13.49	29.09	6.71	31.9	0.800	9.2	0.42		
8:30	40	1500	13.56	32.25	6.71	28.9	0.817	9.2	0.42		
8:35	45	1500	13.64	43.82	6.72	23.7	0.815	9.2	0.40		
8:40	50	1500	13.67	51.55	6.72	23.8	0.833	9.2	0.40		
8:45	55	150	13.26	46.18	6.73	20.1	0.833	9.6	0.40		
8:50	60	150	13.13	58.12	6.73	18.0	0.841	9.5	0.39		
8:55	65	150	12.97	60.48	6.73	14.6	0.840	9.5	0.38		
9:00	70	150	12.84	62.31	6.73	14.3	0.843	9.4	0.38		
Number and Type of Bottle		Analytical Parameter				Preservative		Collected			
3 - 40 mL Glass Vial		VOCs - Xylenes				HCL					

Color: None
Odor: NoneWell Condition: Good
Purge Water Disposal: 55-gallon drum

ARCADIS

Maestri Site Semi-Annual Event

Page 1 of 1
Well ID: MW-9Project Number: 30120984
Date: 14:50
Sampling Time: 5/24/22
Weather: SunnyTask: _____
Well Headspace PID: NA
Sampled By: T. Derleth
Coded Replicate No.: _____
Replicate Type (circle one): Duplicate MS/MSD

Instrument Identification

Serial #: _____ PID NA 050510 Water Quality Meter(s) 051291

Purging Information

Casing Material: PVC
Casing Diameter: 2 in
Total Depth: 18.79 ft
Depth to Product: NA ft
Depth to Water: 12.09 ft
Water Column: 6.70 ft
Gallons in Well: 1.09 galPurge Method:(circle one) Submersible Centrifugal Bladder
Screen Interval: From: 387 To: 397
Pump Intake Setting: 116.87 ft 3920
Water @ 396.78
Total Volume Purged: 5.94 gallons
Pump on: 13:50 Off: 14:50

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm3)	Temp (°C)	DO (mg/L)	TDS (mg/L)	Comments
Stabilization Range			<0.3 ft	10% if >1	+/- 0.1	+/- 10	3%	3%	10%		
13:56	0	375	12.04	86.23	6.74	-91.8	1.020	11.2	2.43		
13:55	5	375	12.39	91.72	6.67	-73.3	0.979	10.6	1.51		
14:00	10	375	12.41	110.19	6.67	-65.4	0.933	10.3	1.05		
14:05	15	375	12.43	120.29	6.67	-58.2	0.901	10.3	0.82		
14:10	20	375	12.46	146.26	6.68	-55.6	0.892	10.2	0.75		
14:15	25	375	12.48	166.63	6.69	-53.0	0.884	10.0	0.64		
14:20	30	375	12.49	164.53	6.69	-52.3	0.888	10.0	0.58		
14:25	35	375	12.50	163.74	6.70	-51.3	0.884	10.0	0.54		
14:30	40	375	12.51	169.15	6.70	-51.0	0.884	10.1	0.48		
14:35	45	375	12.51	156.34	6.71	-50.3	0.884	10.1	0.43		
14:40	50	375	12.51	160.05	6.71	-50.3	0.882	10.1	0.44		
14:45	55	375	12.51	161.92	6.71	-50.3	0.882	10.1	0.42		
	60										
	65										
	70										
Number and Type of Bottle		Analytical Parameter				Preservative		Collected			
3 - 40 mL Glass Vial		VOCs - Xylenes				HCL					

Color: None
Odor: NoneWell Condition: Good
Purge Water Disposal: Drum

ARCADIS

Maestri Site Semi-Annual Event

Page 1 of 1Well ID: 111111 RW-10Project Number: 30120984

Task: _____

Date: 5/25/22

Well Headspace PID: _____

Sampling Time: 11:15Sampled By: T. DerlethWeather: Sunny

Coded Replicate No.: _____

Replicate Type (circle one): Duplicate MS/MSD

Instrument Identification

Serial #:	PID	Water Quality Meter(s)
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Purging Information

Casing Material: SteelPurge Method:(circle one) Submersible Centrifugal BladderCasing Diameter: 6 inScreen Interval: From: 374.74 To: 384.74Total Depth: 19.53 ftPump Intake Setting: 14.5 ftDepth to Product: NA ftDepth to Water: 5.04 ftTotal Volume Purged: 28.79 gallonsWater Column: 14.49 ftPump on: 10:10 Off: 11:10Gallons in Well: 21.28 gal

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)	Temp (°C)	DO (mg/L)	TDS (mg/L)	Comments
Stabilization Range			<0.3 ft	10% if >1	+/- 0.1	+/- 10	3%	3%	10%		
10:10	0	950	5.71	16.40	7.64	-100.8	1.444	9.4	1.11		
10:15	5	950	6.03	14.81	7.62	-114.0	1.433	9.3	0.63		
10:20	10	2000	6.28	17.21	7.65	-123.0	1.431	9.1	0.49		
10:25	15	2000	6.42	26.15	7.69	-129.8	1.449	9.0	0.44		
10:30	20	2000	6.43	32.22	7.72	-134.0	1.011	9.0	0.42		
10:35	25	2000	6.44	36.31	7.74	-137.2	1.017	9.0	0.40		
10:40	30	2000	6.45	42.91	7.74	-138.4	1.480	9.0	0.39		
10:45	35	2000	6.41	48.51	7.76	-139.6	1.491	9.1	0.38		
10:50	40	2000	6.20	20.01	7.75	-117.7	1.517	9.0	0.91		
10:55	45	2000	6.52	22.38	7.74	-134.2	1.521	9.1	0.41		
11:00	50	2000	6.53	27.04	7.74	-138.6	1.551	9.0	0.37		
11:05	55	950	6.47	26.83	7.74	-140.8	1.556	9.1	0.37		
11:10	60	950	6.43	26.91	7.74	-138.9	1.554	9.1	0.37		
11:15	65										
	70										

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	

Color: None
Odor: NoneWell Condition: Good
Purge Water Disposal: 55 gal. Drum

Appendix I

Institutional and Engineering Controls Certification Form

Site Details

Site No. 734025

Box 1

Site Name Maestri Site

Site Address: 900 State Fair Boulevard Zip Code: 13209
City/Town: Solvay
County: Onondaga
Site Acreage: 2.510

Reporting Period: January 15, 2022 to January 15, 2023

YES NO

- | | | | |
|----|--|--------------------------|--------------------------|
| 1. | Is the information above correct? | X | ☐ |
| | 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? | X | ☐ |
| 3. | Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? | ☐ | X |
| 4. | Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? | ☐ | X |

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? X ☐
Residential, Restricted-Residential, Commercial, and Industrial
7. Are all ICs in place and functioning as designed? X ☐

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 _____

Description of Institutional Controls

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
023-13-36.1	Mark Maestri	Site Management Plan

The Site was remediated in accordance with the NYSDEC-approved Interim Remedial Measure Work Plan dated September 1992, the Remedial Action Work Plan dated December 1994 and the Record of Decision dated March 1995. Remedial action work on the Site began in June 1996, and was completed in May 2008.

The following is a summary of the Remedial Actions performed at the Site.

- 1) Excavation of soil/fill quantity exceeding the Soil Cleanup Objectives (SCOs)
- 2) Treatment of excavated soils (approximately 10,000 cubic yards) by SVE/bioremediation techniques in above grade biopiles. Treated soils were placed back into excavated areas.
- 3) Construction and maintenance of a soil cover system consisting of three (3) inches of loam and six (6) inches of topsoil.
- 4) Treatment of groundwater exceeding groundwater cleanup levels through operation of a groundwater recovery and treatment system.
- 5) Monitoring of the soil cover and groundwater to ensure compliance with clean up objectives.

A Site Management Plan (SMP) was approved in August 2010 to manage remaining contamination at the Site in perpetuity or until extinguishment of the Declaration of Covenants and Restrictions in accordance with ECL Article 71, Title 36. The Site contains remaining contamination after completion of the remedial action. There is no designated "Remaining Contamination Zone" on-site. The contaminated soil was treated to meet Site remedial objectives listed in the ROD. Operation and monitoring of the groundwater recovery system until 2008 has demonstrated decreasing trends of Site contaminants in the monitoring and recovery wells. The groundwater treatment system was shut down based on approval from NYSDEC after sampling results indicated that contaminants remaining in groundwater have decreased to asymptotic levels and the system was no longer effectively removing remaining contamination. The remedial party (RP) will continue to monitor groundwater on a semiannual basis to account for fluctuations in the groundwater table.

Engineering Controls have been incorporated into the Site remedy to provide proper management of remaining contamination in the future to ensure protection of public health and the environment. The site has the following Engineering Controls: 1) maintenance of the soil cover over the soil redeposition areas, consisting of three (3) inches of loam, six (6) inches of top soil, and grass, and 2) continuous monitoring of groundwater.

An Environmental Notice has been prepared that provides an enforceable legal instrument to ensure compliance with the SMP and all ECs and ICs placed on the Site. The EN was filed with Onondaga County in April 2011. The EN includes the following controls:

- 1) All Engineering Controls must be operated and maintained as specified in the SMP;
- 2) All Engineering Controls on the Site must be inspected and certified at a frequency and in a manner defined in the SMP;
- 3) Groundwater monitoring must be performed as defined in the SMP;
- 4) Data and information pertinent to Site Management for the Controlled Property must be reported at the frequency and in a manner defined in this SMP;
- 5) On-site environmental monitoring devices, including but not limited to, groundwater monitoring wells must be protected and replaced as necessary to ensure continued functioning in the manner specified in the SMP.
- 6) Vegetable gardens and farming on the property are prohibited;
- 7) Use of groundwater underlying the property is prohibited without treatment rendering it safe for the intended use as approved by NYSDOH;
- 8) The topsoil cover over the excavated areas acts as a cover system at the property. Disturbance and incidental damage to this cover system shall be repaired upon discovery in a manner that complies with the SMP.
- 9) All future activities on the property that would disturb remaining contaminated material must be

conducted in accordance with the Excavation Plan included in the SMP.

10) The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

11) The property may be used for residential use, provided that the long-term Engineering and Institutional Controls described in the SMP remain in use and land zoning regulations are followed.

Box 4

Description of Engineering Controls

Parcel

Engineering Control

023-13-36.1

Cover System

Fencing/Access Control

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 complete.

YES NO

X ☐

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

X ☐

**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. 734025**

Box 6

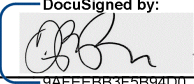
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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 John-Paul Rossi at 1800 Concord Pike, Wilmington, Delaware 19850,
print name print business address

am certifying as Remedial Party (Owner or Remedial Party)

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

DocuSigned by:

9AFEEBB3F5B94D0

2/14/2023

Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional 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 Timothy Miller at 110 West Fayette Street, Syracuse, NY 13202,
print name print business address

am certifying as a Qualified Environmental Professional for the Remedial Party
(Owner or Remedial Party)



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

Stamp
(Required for PE)

2/14/2023

Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

- I. Executive Summary: (1/2-page or less)
 - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
 - B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
 - 1. progress made during the reporting period toward meeting the remedial objectives for the site
 - 2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
 - C. Compliance
 - 1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
 - 2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
 - D. Recommendations
 - 1. recommend whether any changes to the SMP are needed
 - 2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
 - 3. recommend whether the requirements for discontinuing site management have been met.
- II. Site Overview (one page or less)
 - A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
 - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.
- III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.
- IV. IC/EC Plan Compliance Report (if applicable)
 - A. IC/EC Requirements and Compliance
 - 1. Describe each control, its objective, and how performance of the control is evaluated.
 - 2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
 - 3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
 - 4. Conclusions and recommendations for changes.
 - B. IC/EC Certification
 - 1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).
- V. Monitoring Plan Compliance Report (if applicable)
 - A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
 - B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
 - C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
 - D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
 - E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.
- VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
 - A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
 - B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
 - C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

- D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.
- E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

- A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
 - 1. whether all requirements of each plan were met during the reporting period
 - 2. any requirements not met
 - 3. proposed plans and a schedule for coming into full compliance.
- B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.
- C. Future PRR Submittals
 - 1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
 - 2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

15:49

Mail



This document is now complete.

CLOSE

Lot# 76

PUBLIC AUCTION CONTRACT

I HAVE, ON OCTOBER 11, 2022, PURCHASED TAX TITLE TO THE PREMISES HEREINAFTER DESCRIBED FROM THE COUNTY OF ONONDAGA PUBLIC AUCTION:

FINAL PURCHASE BID AMOUNT: \$ 6,200.00
 PLUS A 6% BUYER'S PREMIUM: \$ 372.00
 AND AN ADMINISTRATIVE FEE OF: \$ 360.00
 FOR A TOTAL OF: \$ 6,932.00
 DOWN PAYMENT OF \$10,000. (OR)
 TOTAL DUE: \$ 6,932.00
 THE BALANCE OF: \$ 0

*IS TO BE PAID WITH CERTIFIED FUNDS
 TO THE CHIEF FISCAL OFFICER AT THE
 CIVIC CENTER (15TH FLOOR) ON OR BEFORE 3
 P.M., FRIDAY OCTOBER 14TH

TIME IS OF THE ESSENCE IN MAKING ALL PAYMENTS. FAILURE TO DO SO WILL RESULT IN AN IMMEDIATE DEFAULT AND LOSS OF ANY DEPOSITS PREVIOUSLY MADE BY THE PURCHASER ON THIS CONTRACT. PURCHASER SHALL BE RESPONSIBLE FOR CURRENT 2022/2023 SCHOOL TAX BILL, 2022/2023 VILLAGE TAX BILL (IF APPLICABLE). OTHER MUNICIPAL CHARGES LEVIED AGAINST THE PROPERTIES; APPLICABLE PENALTIES DUE ARE THE SOLE RESPONSIBILITY OF THE PURCHASER.

I AUTHORIZE THE COUNTY OF ONONDAGA FINANCE DEPARTMENT TO RECORD MY DEED IN THE COUNTY CLERKS OFFICE ON MY BEHALF. THE NAME(S) SIGNED BELOW WILL APPEAR ON THE DEED AS IS.

THE PREMISES ARE:

TAX MAP NO. 023-13-36.1 ASSESSED TO: Maestri
 LOCATED AT: 900 State Fair Boulevard TOWN OF: Geddes

I HEREBY REPRESENT THAT THE PREMISES HEREIN DESCRIBED ARE NOT CURRENTLY ASSESSED TO ME, NOR AM I ACTING AS AN AGENT OR FOR THE PROPERTY OWNER TO WHOM SAID PREMISES ARE ASSESSED. I ACKNOWLEDGE THAT TO ACT IN SUCH CAPACITY IS IN DIRECT VIOLATION OF THE TERMS OF SALE AND, IN ADDITION TO RENDERING THE PURCHASE HEREIN NULL AND VOID, WILL SUBJECT ME TO WHATEVER REMEDIES ARE AVAILABLE TO THE COUNTY AT LAW.

DISCLOSURE OF INFORMATION ON LEAD-BASED PAINT AND LEAD-BASED HAZARDS. (FOR PROPERTIES DESIGNATED AS "HOUSING" BUILT PRIOR TO 1978) I acknowledge receipt of all materials regarding lead paint hazards. I understand that no testing has been done by the County of Onondaga regarding lead paint and I agree to take the property as is without further testing.

The Bidder Certification and Terms of Sale are incorporated into this contract and I agree to be bound by them.

SOCIAL SECURITY #: _____ FEDERAL EIN: _____
 NAME OF PERSON OR LLC AS IT SHOULD APPEAR ON THE DEED: Hasan Berber
 PURCHASER: Hasan berber SINGLE MEMBER LLC: _____
 ADDRESS: 242 north park st belleville ontario k8p2z1 Canada
 TELEPHONE (CELL): 613-242-1444 (WORK/HOME): _____

SIGNATURE: [Signature] DATE: 10/12/2022
 BID #: 99

LOT76.pdf

2 of 3

DocuSign Envelope ID: 99928017-3B0D-4472-86C0-848B93986280

Thank you for your business!

Sale
 10/11/2022 11:19:13 AM

Brzostek Real Estate & Auction Service
 80 Smeaton Hollow Rd

AA

na4.docusign.net



Appendix O

Health and Safety Plan

Site Specific Health and Safety Plan

Revision 18 a

Project Name: Maestri

Project Number: 30166086
Client Name: AstraZeneca
Date: 6/5/2023
HASP Expires: 6/4/2024
Revision:

Approvals:

HASP Developer: Lukas Matt and Rebecca Hensel

Project Manager: Rebecca Hensel

HASP Reviewer:



Arcadis Culture of Caring

Arcadis is committed to a Culture of Caring that ensures each Arcadis employee, part time as needed employee (PTAN), temporary agency employee under Arcadis day to day control, Inexperienced Workers and contractor (cumulatively referred to here as "field staff") goes home at the end of the day free from injury or illness. I certify that the following has been performed with all Arcadis field staff on this project either in person or virtually through Teams:

- ☒ Reviewed the HASP including a discussion of hazard identification and controls.
- ☒ If conducting activities deemed by Arcadis to be "High Risk", frontline management has reviewed applicable H&S standards (Job Safety Analysis [JSA] when authorized by H&S) for these activities with field staff.
- ☒ If permit to work is required, frontline management has reviewed the permit(s) with field staff.
- ☒ Reviewed proactive H&S engagement expectations/injury prevention actions.
- ☒ Reviewed Stop Work Authority.
- ☒ Reviewed the incident reporting process and expectations including when WorkCare should be contacted by staff (WorkCare incident intervention for all minor, non-emergency injuries) and that the WorkCare phone number is programmed into field team cell phone.
- ☒ For Inexperienced Workers, a mentor has been assigned for the new task being performed.

For short service employees (SSEs), PTANS* and temporary agency employees* :

- ☒ Provided coaching and mentoring on Arcadis H&S expectations during project work. Reviewed in detail specific hazards and controls and provided a resource who can be contacted if individual has questions regarding planned or unplanned work tasks.

Mentor/Resource #	<u>Rebecca Hensel</u>	<u>315-671-9296</u>
	Name	Phone Number

Signed:

<u>Rebecca Hensel</u>	<u>Project Manager</u>
-----------------------	------------------------

* Upon hiring/contracting for the first time.

Emergency Information

Site Address:

904 State Fair Blvd, Geddes, NY

Emergency Phone Numbers:

Emergency (fire, police, ambulance)		911
Emergency (facility specific, if applicable):		
Fire Department/Ambulance		315-468-0072
Police (local)		315-468-3283
Emergency Other (specify): State Police		315-699-9661
Primary Client Contact:	John Paul Rossi	302-886-6932
WorkCare (non-life-threatening injury/illness):		1-888-449-7787
Project H&S:	David Hilt	317 236 2836 317 909 2341
Task Manager:	Ryan Merrell	315-671-9219
Project Manager:	Rebecca Hensel	315-671-9296
H&S Specialist:	Greg Mason	859-806-0746
Area H&S Director:	Andrew McDonald	410-923-7820

Hospital Name and Address:

St Joseph's Hospital Health Center
301 Prospect Ave
Syracuse, NY 13203

Hospital Phone Number:

(315) 448-5111

Supplemental Client Contact Information:

Other Important Phone Numbers:

Poison Control Center	1-800-222-1222
Nat. Response Ctr. (spills in reportable quantities)	1-800-424-8802
U.S. Coast Guard (spills to water)	1-800-424-8802

Incident Reporting Protocol Within Arcadis

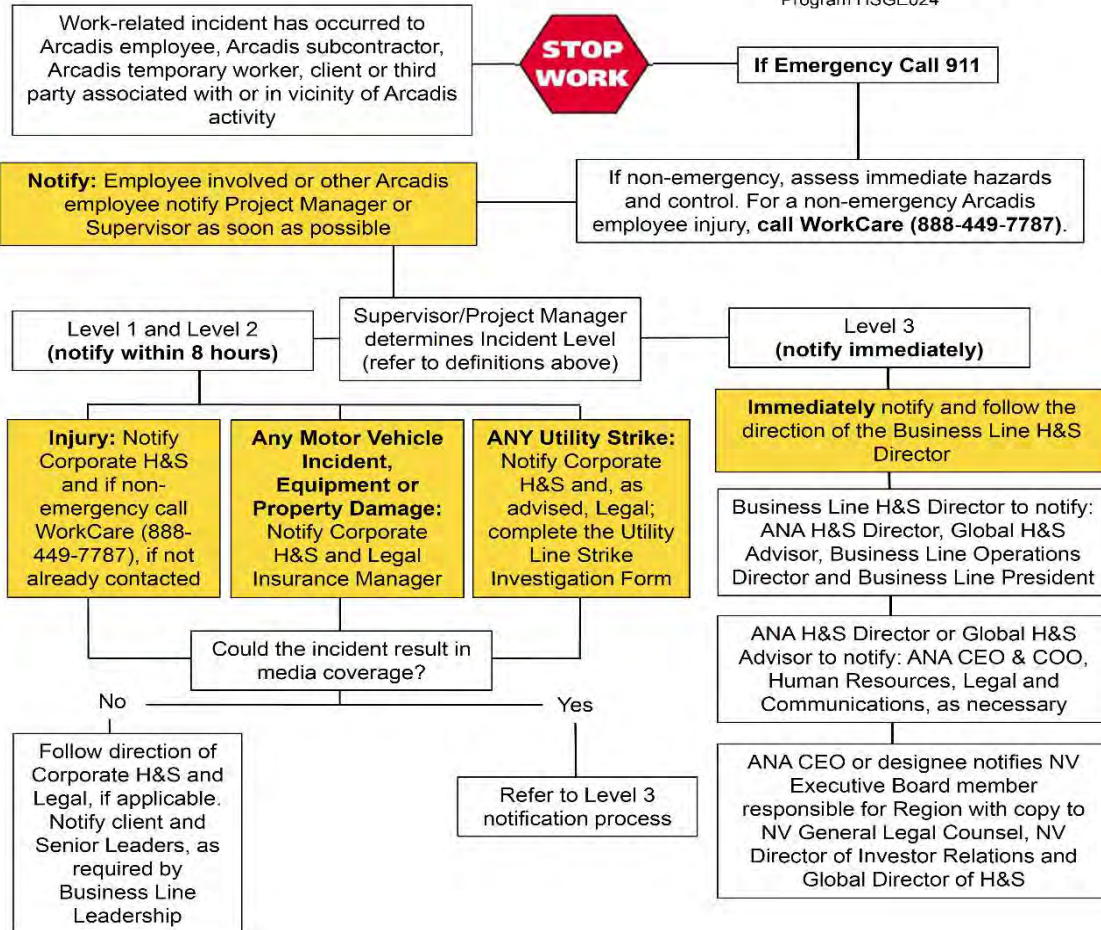
Incident Levels

Level 1: First aid/self-treated, work-related injury (contact WorkCare as soon as possible); minor property or equipment damage (less than or equal to \$100); vehicle loss event* (no injuries, no third-party involvement or other vehicle involvement).

Level 2: Professional Medical Treatment (if non-emergency injury or illness, employee must contact WorkCare as soon as possible); moderate property or equipment damage (greater than \$100 but less than or equal to \$5,000); ANY utility strike incident, any motor vehicle accident* (including injury or third-party involvement).

Level 3: Immediately report fatality, severe or catastrophic injury and/or overnight hospitalization required; significant property or equipment damage (greater than \$5,000); missing person or incident that generates media coverage.

* Refer to Motor Vehicle Safety Program HSGE024



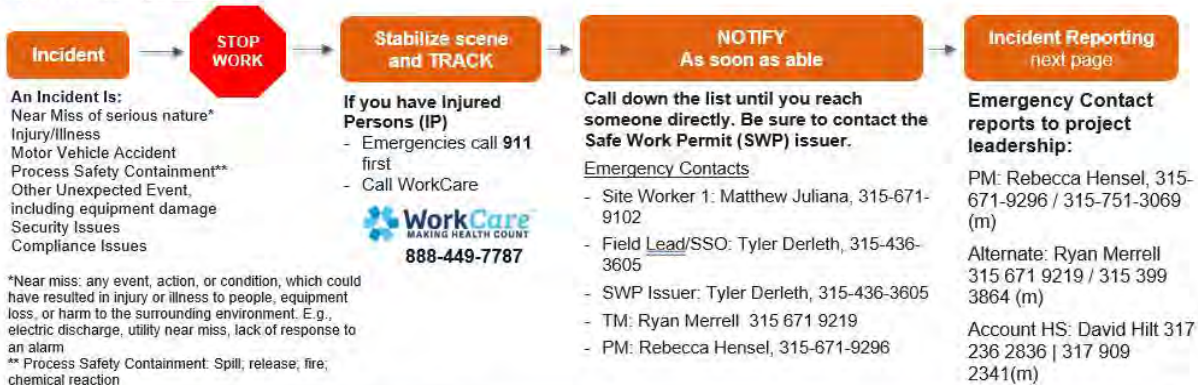
Client Incident Reporting Protocol

AstraZeneca Account Team Incident Response



AstraZeneca Project Name: Maestri

Project Location: Syracuse, NY



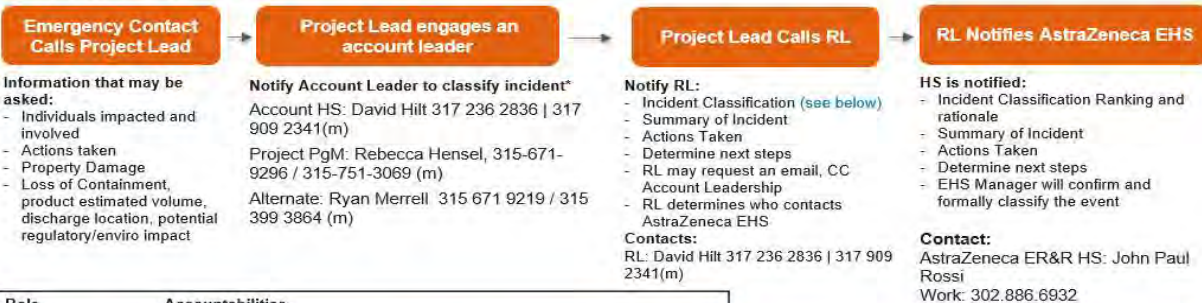
Role	What you need to do:
General – all onsite personnel	- Stop Work - Assist in Stabilizing the Scene and use TRACK - Focus on first aid and appropriate treatment - Notify others on site - Call WorkCare for all Non-Emergency injuries: WorkCare Process - When in doubt, ask project leadership!
Lead Responder	- First responder to incidents - Secure the scene - Apply proper level of care (first aid, 911, WorkCare) - Assist Injured Person (IP) with obtaining care - Travel with or take IP to medical treatment - When acting on behalf of the IP, coordinate with WorkCare to report Milestone Updates - Quick reporting to Project Leadership and SWP Issuer - Gather information and facts for reporting, document if able

AstraZeneca Account Team Incident Reporting



AstraZeneca Project Name: Maestri Site

Project Location: Syracuse, NY



Role	Accountabilities
General- all parties	- Open and available to provide supporting information - Participate in follow-up actions and conversations including RCIs
Project Lead	- Engage Account and/or Corporate Health and Safety as appropriate - Notify RL in a timely manner - Document incident - Confirm completion of action items - Draft LER
Account Leadership Team	- Aid in determining incident classification - Support PM to provide detailed account of incident to RL - Participate in calls/communication if requested - Aid in development of LER
RL	- Engage with PM - Notify or direct Arcadis team member to notify AstraZeneca HS as soon as able - Participate in follow-up actions and conversations including RCI - Direct need for RCI - Direct development and approve LER
AstraZeneca Health and Safety	- Provide guidance and direction - Direct RCI requirements - Approve LER and leverage LER for shareable learnings

Incident Classification and Notification

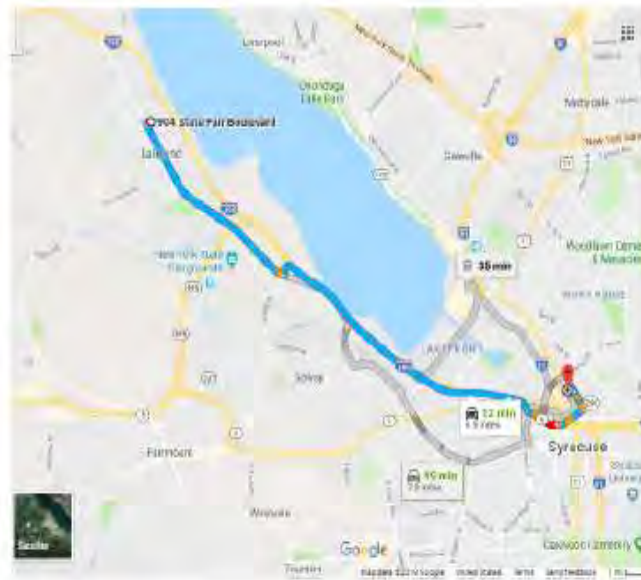
- Incident Classification Matrix

- Objective: Determine if it's a 1-3 vs 4-5. This affects urgency of communication.
- Provide preliminary recommendation of classification, RL will assist with full determination

Timing of notification

- **Level 1-3 URGENT:** Contact RL as quickly as possible
- If unable to reach RL within 30 minutes, call the ER&R EHS Manager directly
- **Level 4-5:** Within one business day, contact the RL and ER&R EHS Manager.

Route to the Hospital



HOSPITAL DIRECTIONS:

Head southeast on State Fair Blvd toward Winchell Dr

Turn left to merge onto I-690 E

Use the right lane to take exit 12 for W Genesee St

Use any lane to turn left onto W Genesee St

Continue onto James St

Turn left onto N Townsend St

Turn left onto Union Ave

Union Ave turns left and becomes Prospect Ave

Arrive at 301 Prospect Ave, Syracuse, NY 13203

Estimated travel time: 12 minutes

Miles: 6.5

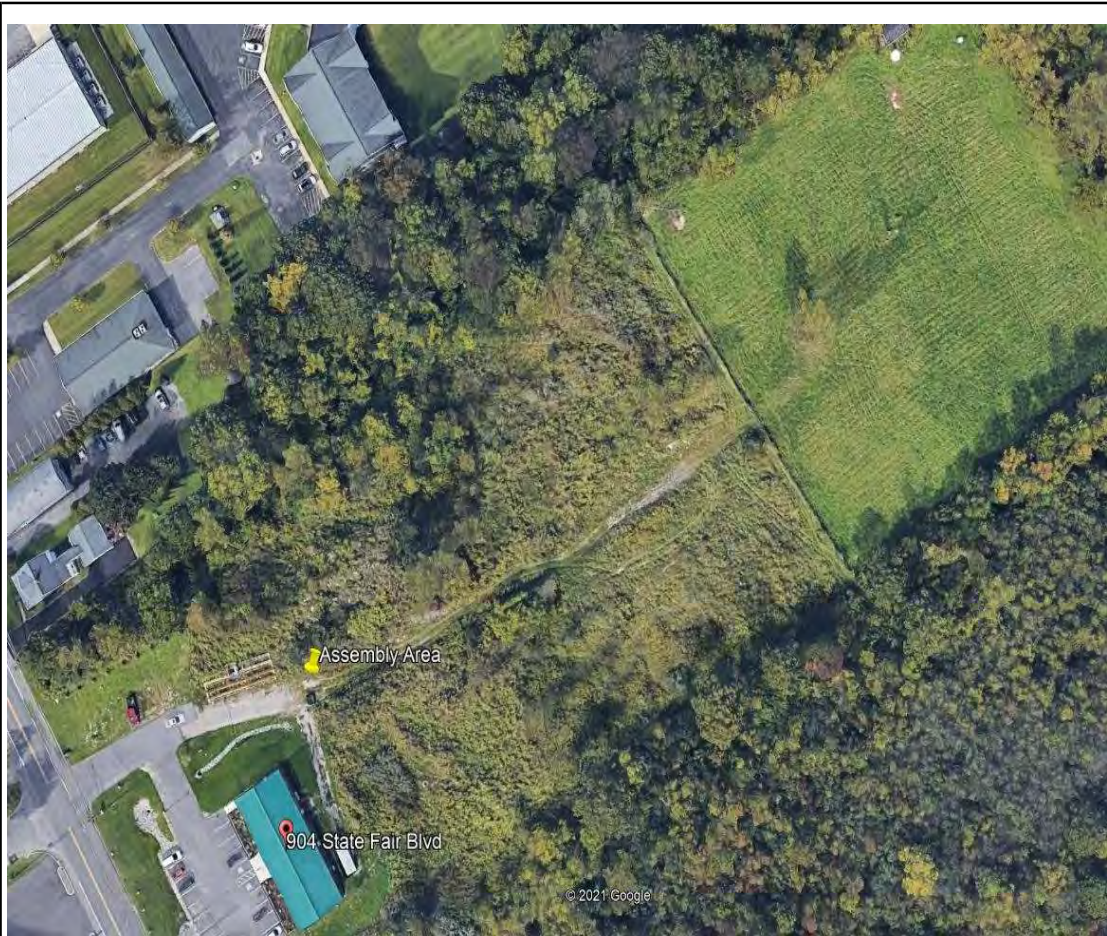
HOSPITAL INFORMATION:

Name: St. Joseph's Hospital Health Center

Address: 301 Prospect Ave
Syracuse, NY 13203

Phone: Emergency (315) 448-5111

Site Map Showing Assembly Areas



Site Type

The project site is an inactive facility which historically had the following attributes:

Residential	
Residential	

Surrounding Land Use and Topography

The Site is located in the Town of Geddes of Onondaga County, New York and is identified as Block 13 and Lot 36.1 on the Town of Geddes Tax Map. The Site is located at 900 State Fair Boulevard, Geddes NY. The Site is an approximately 2.5-acre area bounded by residential property to the north, an empty lot (904 State Fair Boulevard) and State Fair Boulevard to the south, residential property and wooded vacant lots to the east, and residential property and wooded vacant lots to the west.

Simultaneous Operations (SimOps)

Planned Arcadis site work will not be in proximity to SimOps work activities performed by non Arcadis employees or subcontractors. Arcadis will initiate stop work and evaluate the work activities through the JSA process if during the course of work a SimOps activity is identified that could reasonably affect health and safety of Arcadis employees and subcontractors.

Site Background

In 1970's drums containing industrial waste material allegedly generated by Stauffer Chemical Company were buried at the Maestri Site. Solvent Savers, allegedly used the Site as a drum disposal area in the 1970's. In 1987 the site owner excavated soil and drums from an area of the site. Site investigation was completed to evaluate the environmental effects of the Site. In 1987 the NYSDEC listed site on New York State Registry of Inactive Hazardous Waste Disposal sites as Site #734025. In 1989 site investigation was completed and in 1992 to address contaminated groundwater an initial treatment system was installed on-site. Then remedial investigation and remediation activities took place and documented VOC and SVOC contaminants. The groundwater system operated through 2008 and the site remediated. Currently inspections and groundwater sampling are completed to monitor the site.

Project Tasks

The following tasks are identified for this project:

1	Inspections and audits - Nonbuilding including non-secure/non-controlled areas
2	Driving - Motor vehicles
3	Waste - Containment of IDW in small containment devices greater than 10 gallons but less than or equal to 119 gallons capacity
4	Monitor well - Well sounding, water level or product measurements using probes, tapes or downhole water parameter measurements
5	Sampling - Well sampling using peristaltic pumps
6	Decontamination - Small or hand-held objects using manual methods
7	Drilling - Contractor oversight of well decommissioning

Supplemental requirements associated with the above task(s):

The Arcadis Utility Clearance Checklist must be used for utility clearance activities.

☒	Required Checklists/Work Forms
	<i>Tailgate Safety Briefing Form</i>
	<i>Vehicle Inspection Checklist</i>
	<i>Utility and Structures Checklist</i>

☐	Required Permits
	<i>Not Applicable</i>
☐	Required H&S Standards
	<i>Not applicable</i>

Short Service Employees (SSEs)

SSEs (employees who are employed with Arcadis for less than 1 year or are Inexperienced Workers) have the potential to work on this project. If SSEs are utilized, the project team working in conjunction with the SSE's administrative supervisor will ensure requirements of ARC HSGE019 "Short Service Employees" are completed. SSE's will be identified on the project Tailgate Safety Meeting Form.

Roles and Responsibilities

Name	Role	Short Service Employee
1 Rebecca Hensel	Project Manager (PM)	No
2 Luke Matt	Associate Project Manager (APM)	No
3 Ryan Merrell	Task Manager	No
4 Tyler Derleth	Field Technical Lead	No
5 Tyler Derleth	Site Safety Officer (SSO)	No
6 Greg Mason	Corporate H&S Specialist	No
7 Andrew McDonald	Corporate H&S Director	No
8		
9		
10		

Training

All Arcadis employees are required to have the following training to be on site:

Defensive Driving - Smith On-Line
 Hazwoper 40-Hour
 Hazwoper 8-Hour Annual Refresher
 H&S Program Orientation (non-certificate)
 HAZCOM GHS/EAP (non-certificate)
 PPE (non-certificate)
 None
 None
 None
 None
 None
 None
 None
 None

Client specific:

Other:

Selected Arcadis employees are required to have the following additional training:

Names or Numbers from above

First Aid/CPR 5
 DOT HazMat #1 5
 BBP (Bloodborne Pathogens) 5
 Hearing Conservation/Protection 5
 Silica General Awareness 5
 None
 None
 None
 None
 None
 None
 None
 None
 None
 None
 None

Other:

The Arcadis Fundamental H&S Principles

Staff working on any of the task(s) listed above must utilize the six Arcadis Fundamental H&S Principles to ensure work is conducted safely. These principles include: 1) Use of TRACK, 2) H&S Planning, 3) Stop Work Authority, 4) "If Not Me Then Who", 5) Stewardship, and 6) Incident Reporting. Every project team member plays an important role in project health and safety. This is more than just having a HASP, training, or PPE. Proactive staff engagement with these principles is critical to a safe work environment.



General Task Hazard Assessment and Risk Control (HARC)

General:		Hazards Applicable to All Project Tasks			
The 12 hazard category HARC ratings are not available in this General THA. The mitigated and unmitigated ratings for the hazards presented are based on the Risk Assessment Matrix below. Modify hazards and ratings as necessary to meet project needs.					
Risk Assessment Matrix		Likelihood Ratings			
Consequences Ratings		A	B	C	D
People	Property	0 Almost Impossible	1 Possible but Unlikely	2 Likely to Happen	3 Almost Certain to Happen
1-Slight or No Health Effect	Slight or No Damage	0-Low	1-Low	2-Low	3-Low
2-Minor Health Effect	Minor Damage	0-Low	2-Low	4-Medium	6-Medium
3-Major Health Effect	Local Damage	0-Low	3-Low	6-Medium	9-High
4-Fatalities	Major Damage	0-Low	4-Medium	8-High	12-High

Hazard #1

Driving - On road - Injury or vehicle damage from motor vehicle accident or incident

Suggested FHSHB Ref: 3.4

To mitigate this hazard, use TRACK and the following:

Overall Unmitigated Risk: HIGH

Smith System (on line)

Mitigated Risk: MEDIUM

JSAs

Comments: Use Smith System "5-Keys" when driving. See Driving JSA for details.

Hazard #2

Driving - Driver - Injury, death or property damage due to driver distraction, fatigue, etc.

Suggested FHSHB Ref: 3.4, 3.21

To mitigate this hazard, use TRACK and the following:

Overall Unmitigated Risk: HIGH

Smith System (on line)

Mitigated Risk: LOW

Driver awareness and use of stop work authority

Comments: Use route planning. Keep eyes moving while driving. See Driving JSA.

Hazard #3

Biological - skin/eye irritation or damage from poisonous plants

Suggested FHSHB Ref: 3.17.11

To mitigate this hazard, use TRACK and the following:

Overall Unmitigated Risk: MEDIUM

Job Briefing/Site Awareness

Mitigated Risk: LOW

PPE (see HASP "PPE" section)

Comments: Use skin pre-treatment lotions when available.

Hazard #4

Biological - bites or stings from exposure to insects or arachnids

Suggested FHSHB Ref: 3.17: 2,3,7,8,9,10

To mitigate this hazard, use TRACK and the following:

Overall Unmitigated Risk: MEDIUM

Job Briefing/Site Awareness

Mitigated Risk: LOW

PPE (see HASP "PPE" section)

Comments: Do body check daily.

Hazard #5

Biological - cuts, scrapes, skin/eye puncture from exposure to physically damaging plants

Suggested FHSHB Ref: 3.17.11

To mitigate this hazard, use TRACK and the following:

Overall Unmitigated Risk: MEDIUM

Job Briefing/Site Awareness

Mitigated Risk: LOW

PPE (see HASP "PPE" section)

Comments:

General Task HARC (continued)

Hazard #6		
Environmental - Thermal stress - Injury or illness from heat or cold		
Suggested FHSB Ref:	3.16	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Field H&S Handbook (see ref. above)
Mitigated Risk:	LOW	JSAs
Comments:	Use job rotation or rest breaks. Stay hydrated and eat regularly.	
Hazard #7		
Environmental - Inclement weather -Injury or equipment damage from inclement weather		
Suggested FHSB Ref:	3.12	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Weather Monitoring
Mitigated Risk:	LOW	Cont./Emerg. Planning
Comments:	Use 30/30 rule for lightning. See FHSB for details.	
Hazard #8		
Motion - Musculoskeletal - Injury from lifting, twisting , stooping, or awkward body positions		
Suggested FHSB Ref:	3.29.1	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Engineering Controls (specify in comments)
Mitigated Risk:	LOW	Admin. Controls (specify in comments)
Comments:	Use proper lifting techniques. Use job rotation when applicable. See FHSB for details.	
Hazard #9		
Motion - Musculoskeletal - Injury from repeated work activity or body motion		
Suggested FHSB Ref:	3.29.2	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Engineering Controls (specify in comments)
Mitigated Risk:	LOW	Admin. Controls (specify in comments)
Comments:	Use proper lifting techniques. Use job rotation when applicable. See FHSB for details.	
Hazard #10		
Sound - Noise - Injury or illness due to noise exposure		
Suggested FHSB Ref:	3.15	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Engineering Controls (specify in comments)
Mitigated Risk:	LOW	PPE (see HASP "PPE" section)
Comments:	Increase distance from source if possible. Maintain equipment.	
Hazard #11		
Gravity - Falls - Injury due to slips and trips		
Suggested FHSB Ref:	3.26.4, 4.11	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Site Awareness
Mitigated Risk:	LOW	Housekeeping
Comments:	Use footwear appropriate for site conditions, plan routes and do not hurry while walking.	
Hazard #12		
None		
Suggested FHSB Ref:	None	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	Not Ranked	Select
Mitigated Risk:	Not Ranked	Select
Comments:		

Task Specific HARC

		Inspections and audits - Nonbuilding including non-secure/non-controlled areas					
Task 1:							
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):		FHSB Ref:				3.9	
Biological	L	Chemical	L	Driving	M	Electrical	L
Environmental	L	Gravity	M	Mechanical	L	Motion	L
Personal Safety	L	Pressure	L	Radiation	L	Sound	L
Hazard #1							
Motion - Struck by - Bodily injury from impact with moving object							
Suggested FHSB Ref:	2.5, 3.22			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			JSAs			
Mitigated Risk:	LOW			Site Awareness			
Administrative: JSAs							
Engineering: Set-up exclusion zones as necessary and delineate of work areas							
PPE: Detailed on JSAs and in HASP PPE section							
Considerations: Review site map to select appropriate staging area, identify/remove trip hazards from work area. Remove trip hazards from ground before moving equipment and walk around obstacles. Avoid moving objects when possible, pay attention and follow traffic safety plan to avoid injury from traffic							
Comments:							

Task Specific HARC (continued)

Task 2:	Driving - Motor vehicles				
HARC Unmitigated	Hazard Types (H-High, M-Medium, L-Low):			FHSHB Ref:	3.4
Biological	-	Chemical	-	Driving	H
Electrical	-	Gravity	-	Mechanical	-
Environmental	-	Pressure	-	Radiation	-
Personal Safety	L				
Hazard #1					
Driving - Off road - Injury or vehicle damage from object impact/vehicle rollover/improper load securement					
Suggested FHSHB Ref:	3.4.2.1			To mitigate this hazard, use TRACK and the following:	
Overall Unmitigated Risk:	HIGH			JSAs	
Mitigated Risk:	LOW			Smith System (on line)	
Administrative: JSAs Engineering: Install equipment netting and load bars to secure equipment in vehicle PPE: Detailed on JSAs and in HASP PPE section Considerations: TRACK, Utilize Smith System 5 Keys. Operator Competency. Driver is not allowed to use cell phone while driving to prevent distraction. Driver should avoid radio usage. Set-mirrors and seats prior to driving. Inspect vehicle prior to driving and ensure all functions work (mirrors, headlights, brakelights, brakes). Ensure all equipment is secured in the vehicle. Walk route prior to driving off-road to ensure it can be done in a safe matter.					
Comments:					

Hazard #2		
Mechanical - Pinch point - Injury by pinching of body part in mechanical process		
Suggested FHSHB Ref:	3.27.4	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Machine Guarding
Mitigated Risk:	LOW	Site Awareness
Administrative: JSAs Engineering: Shut off vehicle before opening hood, utilize a cushion and ANSI cut resistant gloves to prevent pinching fingers when opening or closing hood PPE: Detailed on JSAs and in HASP PPE section Considerations: Utilize TRACK., use awareness if performing work on vehicle (especially under hood). Keep hands clear if shutting hood of car. Utilize ANSI cut resistant gloves to protect hands from pinch points.		
Comments:		
Hazard #3		
Chemical - liquids, skin or eye irritation/damage/allergy		
Suggested FHSHB Ref:	3.9, 3.22, 3.30, 3.33	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	HASP
Mitigated Risk:	LOW	JSAs
Administrative: JSAs Engineering: Use absorbant pads to eliminate direct contact with PPE, and use a funnel when appropriate for pouring to mitigate splash hazards. PPE: Detailed on JSAs and in HASP PPE section, wear long sleeves Considerations: TRACK. Wear eye protection with side shields to prevent liquid from getting into eyes.		
Comments:		
Hazard #4		
Motion - Struck by - Bodily injury from impact with moving object		
Suggested FHSHB Ref:	2.5, 3.22	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	JSAs
Mitigated Risk:	LOW	Site Awareness
Administrative: Safe Work Permit, iCard, JSAs Engineering: Install barricades as necessary and delineate of work areas PPE: Detailed on JSAs and in HASP PPE section Considerations: Review site map to select appropriate staging area, identify/remove trip hazards from work area. Remove trip hazards from ground before moving equipment and walk around obstacles. Avoid moving objects when possible, pay attention and follow traffic safety plan to avoid injury from traffic.		
Comments:		

Task Specific HARC (continued)

Task 3:		Waste - Containment of IDW in small containment devices greater than 10 gallons but less than or equal to 119 gallons capacity					
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):		FHSHB Ref:				3.3	
Biological	L	Chemical	M	Driving	-	Electrical	-
Environmental	M	Gravity	M	Mechanical	L	Motion	M
Personal Safety	L	Pressure	L	Radiation	-	Sound	L
Hazard #1							
Chemical - gasses - injury due to inhalation, asphyxiation, skin/eye contact							
Suggested FHSHB Ref:		3.30, 3.32		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		MEDIUM		HASP			
Mitigated Risk:		LOW		JSAs			
Administrative: JSAs Engineering: Allow drum venting and perform initial screening. Stop Work will be utilized if elevated readings are encountered and Air Monitoring will be re-evaluated. PPE: Detailed on JSAs and in HASP PPE section Considerations: TRACK and review HASP for air monitoring requirements. Monitor for exposure and STOP WORK if needing to go beyond level D PPE							
Comments:							
Hazard #2							
Chemical - liquids, skin or eye irritation/damage/allergy							
Suggested FHSHB Ref:		3.9, 3.22, 3.30, 3.33		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		MEDIUM		HASP			
Mitigated Risk:		LOW		JSAs			
Administrative: JSAs Engineering: Use absorbant pads to eliminate direct contact with PPE, and use a funnel when appropriate for pouring to mitigate splash hazards. PPE: Detailed on JSAs and in HASP PPE section, wear long sleeves Considerations: TRACK. Wear eye protection with side shields to prevent liquid from getting into eyes.							
Comments:							
Hazard #3							
Chemical - liquid, solid, or gas - Equipment damage due to corrosion or spill							
Suggested FHSHB Ref:		3.30, 3.33		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		MEDIUM		JSAs			
Mitigated Risk:		LOW		Cont./Emerg. Planning			
Administrative: JSAs Engineering: Place drums inside or on pallets when appropriate PPE: Detailed on JSAs and in HASP PPE section Considerations: TRACK. schedule IDW pick-ups as quickly as possible to limit exposure to elements. Ensure storage is appropriate for IDW							
Comments:							
Hazard #4							
Mechanical - Pinch point - Injury by pinching of body part in mechanical process							
Suggested FHSHB Ref:		3.27.4		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		MEDIUM		Machine Guarding			
Mitigated Risk:		LOW		Inspections			
Administrative: JSAs Engineering: Utilize a drum wrench and ratchet to open and close drum PPE: Detailed on JSAs and in HASP PPE section Considerations: Utilize TRACK., use awareness while closing drums. Keep hands clear of lid when sealing. Utilize ANSI cut resistant gloves to protect hands from pinch points.							
Comments:							

Task Specific HARC (continued)

	Monitor well - Well sounding, water level or product measurements using probes, tapes or downhole water parameter measurements						
Task 4:							
HARC Unmitigated	Hazard Types (H-High, M-Medium, L-Low):				FHSB Ref:		3.9
Biological	L	Chemical	L	Driving	-	Electrical	-
Environmental	L	Gravity	M	Mechanical	-	Motion	L
Personal Safety	-	Pressure	L	Radiation	-	Sound	L
Hazard #1							
Motion - Struck by - Bodily injury from impact with moving object							
Suggested FHSB Ref:	2.5, 3.22			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			JSAs			
Mitigated Risk:	LOW			Site Awareness			
	Administrative: JSAs						
	Engineering: Install traffic control as necessary and delineate of work areas						
Comments:	PPE: Detailed on JSAs and in HASP PPE section						
Hazard #2							
Chemical- liquids - injury or illness from skin absorption							
Suggested FHSB Ref:	3.9, 3.22, 3.30, 3.33			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			HASP			
Mitigated Risk:	LOW			JSAs			
	Administrative: JSAs						
Comments:	PPE: Detailed on JSAs and in HASP PPE section						
Hazard #3							
Chemical - liquids, skin or eye irritation/damage/allergy							
Suggested FHSB Ref:	3.9, 3.22, 3.30, 3.33			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			HASP			
Mitigated Risk:	LOW			JSAs			
	Administrative: JSAs						
	Engineering: Use absorbant pads to eliminate direct contact with PPE, and use a funnel when appropriate for pouring to mitigate splash hazards.						
	PPE: Detailed on JSAs and in HASP PPE section, wear long sleeves						
	Considerations: TRACK. Wear eye protection with side shields to prevent liquid from getting into eyes.						
Comments:							

Task Specific HARC (continued)

Task 5:	Sampling - Well sampling using peristaltic pumps						
HARC Unmitigated	Hazard Types (H-High, M-Medium, L-Low):				FHSHB Ref:		3.9
Biological	L	Chemical	M	Driving	-	Electrical	L
Environmental	L	Gravity	L	Mechanical	-	Motion	L
Personal Safety	L	Pressure	L	Radiation	-	Sound	L
Hazard #1							
Chemical - liquids, skin or eye irritation/damage/allergy							
Suggested FHSHB Ref:	3.9, 3.22, 3.30, 3.33			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			HASP			
Mitigated Risk:	LOW			JSAs			
Administrative: JSAs Engineering: Use absorbant pads to eliminate dirrect contact with PPE, and use a funnel when appropriate for pouring to mitigate splash hazards. PPE: Detailed on JSAs and in HASP PPE section, wear long sleeves Considerations: TRACK. Wear eye protection with side shields to prevent liquid from getting into eyes.							
Comments:							
Hazard #2							
Chemical - gasses - injury due to inhalation, asphyxiation, skin/eye contact							
Suggested FHSHB Ref:	3.30, 3.32			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			HASP			
Mitigated Risk:	LOW			JSAs			
Administrative: JSAs Engineering: Allow drum venting and perform intial screening. Stop Work will be utilized if elevated readings are encountered and Air Monitoring will be re-evaluated. PPE: Detailed on JSAs and in HASP PPE section Considerations: TRACK and review HASP for air monitoring requirements. Monitor for exposure and STOP WORK if needing to go beyond level D PPE							
Comments:							
Hazard #3							
Mechanical - Pinch point - Injury by pinching of body part in mechanical process							
Suggested FHSHB Ref:	3.27.4			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			Machine Guarding			
Mitigated Risk:	LOW			Site Awareness			
Administrative: JSAs Engineering: Utilize a drum wrench and ratchet to open and close drum PPE: Detailed on JSAs and in HASP PPE section Considerations: Utilize TRACK., use awareness while closing drums. Keep hands clear of lid when sealing. Utilize ANSI cut resistant gloves to protect hands from pinch points.							
Comments:							
Hazard #4							
Electrical - Housekeeping - Injury or property damage due to frayed wiring, improperly mounted wiring,							
Suggested FHSHB Ref:	3.25			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			Housekeeping			
Mitigated Risk:	LOW			Inspections			
Administrative: JSAs Engineering: Isolate battery terminal when appropriate PPE: Detailed on JSAs and in HASP PPE section Considerations: When connecting terminals put down any tools before hand (do not cross terminals). Store the battery in a secure safe location to protect from weather and the environment, as well as away from objects that may interfere with the battery. The terminals must be protected. Use housekeeping techniques to organize wires that connect to the battery.							
Comments:							

Task Specific HARC (continued)

Task 6:		Decontamination - Small or hand-held objects using manual methods											
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):										FHSB Ref:		3.10.4	
Biological	L	Chemical	M	Driving	-	Electrical	-						
Environmental	L	Gravity	L	Mechanical	-	Motion	L						
Personal Safety	L	Pressure	L	Radiation	-	Sound	L						
Hazard #1													
Chemical- solids/particulates - injury or illness from skin absorption													
Suggested FHSB Ref:		2.5, 3.22		To mitigate this hazard, use TRACK and the following:									
Overall Unmitigated Risk:		MEDIUM		JSAs									
Mitigated Risk:		LOW		PPE (see HASP "PPE" section)									
Comments:													

Task Specific HARC (continued)

Task 7:	Drilling - Contractor oversight of well decommissioning						
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):					FHSHB Ref:	4.5	
Biological	L	Chemical	M	Driving	-	Electrical	L
Environmental	H	Gravity	M	Mechanical	M	Motion	M
Personal Safety	-	Pressure	L	Radiation	-	Sound	M
Hazard #1							
Chemical - liquids - injury or illness from skin absorption							
Suggested FHSHB Ref:	III C, F, G, K, S, AG			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			JSAs			
Mitigated Risk:	LOW			PPE (see HASP "PPE" section)			
Comments:							
Hazard #2							
Mechanical - Pinch point - Injury by pinching of body part in mechanical process							
Suggested FHSHB Ref:	3.27.4			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			Site Awareness			
Mitigated Risk:	LOW			PPE (see HASP "PPE" section)			
Be aware of pinch points with drill rig. At no time should Arcadis employees assist with drilling equipment. Drillers should take precautions of setting up work zones and noting pinch hazards.							
Comments:							
Hazard #3							
Chemical - solids/particulates, skin or eye irritation/damage/allergy							
Suggested FHSHB Ref:	3.9, 3.22, 3.30, 3.33			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			JSAs			
Mitigated Risk:	LOW			PPE (see HASP "PPE" section)			
Comments: Wear nitrile gloves to prevent skin contact to contaminated soils.							
Hazard #4							
Chemical - solids/particulates, injury or illness from inhalation							
Suggested FHSHB Ref:	3.2, 3.22, 3.30, 3.33			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			JSAs			
Mitigated Risk:	LOW			PPE (see HASP "PPE" section)			
Comments: Wear appropriate PPE and never "sniff" soil as this is an inhalation route that can cause injury. Utilize PIDs to assess soils. If too much dust is generated, be sure to evaluate.							
Hazard #5							
Environmental - Utilities - Injury or property damage from utility strike/damage							
Suggested FHSHB Ref:	3.36			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	HIGH			Inspections			
Mitigated Risk:	MEDIUM			Specialized Checklist/Forms			
Be cautious of utilities in the area. Do NOT off-set to a new location if the location was not previously cleared by utility locate procedures. During soft dig methods, be sure the drillers do not use breaker bar in forceful manner, as that can cause more delicate utilities to still break.							
Comments:							
Hazard #6							
Personal safety - Fatigue - Injury or illness caused while working when fatigued							
Suggested FHSHB Ref:	3.21			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			Job Briefing/Site Awareness			
Mitigated Risk:	LOW			Job Rotation			
Comments:							

Hazard Communication (HAZCOM)/Global Harmonization System (GHS)

☐ HAZCOM/GHS for this project is managed by the client or general contractor

List the chemicals anticipated to be used by Arcadis on this project per HAZCOM/GHS requirements.

(Modify quantities as needed)

Preservatives		Qty	Decontamination		Qty	Calibration		Qty.
☐	Not applicable		☐	Not applicable		☐	Not applicable	
☒	Hydrochloric acid	<500 ml	☒	Alconox	≤ 5 lbs	☐	Isobutylene/air	1 cyl
☐	Nitric acid	<500 ml	☒	Liquinox	≤ 1 gal	☐	Methane/air	1 cyl
☐	Sulfuric acid	<500 ml	☐	Acetone	≤ 1 gal	☐	Pentane/air	1 cyl
☐	Sodium hydroxide	<500 ml	☐	Methanol	≤ 1 gal	☐	Hydrogen/air	1 cyl
☐	Zinc acetate	<500 ml	☐	Hexane	≤ 1 gal	☐	Propane/air	1 cyl
☐	Ascorbic acid	<500 ml	☐	Isopropyl alcohol	≤ 4 gal	☐	Hydrogen sulfide/air	1 cyl
☐	Acetic acid	<500 ml	☐	Nitric acid	≤ 1 L	☐	Carbon monoxide/air	1 cyl
☐	Isopropyl alcohol	< 4 gal.	☐	Other:		☒	pH standards (4,7,10)	≤ 1 gal
☐	Formalin (<10%)	< 4 gal.				☒	Conductivity standards	≤ 1 gal
☐	Methanol	<500 ml				☒	Other:	
☐	Sodium bisulfate	<500 ml					ORP Standard	

Fuels		Qty.	Kits		Qty.
☐	Not applicable		☒	Not applicable	
☒	Gasoline	≤ 5 gal	☐	Hach (specify):	1 kit
☐	Diesel	≤ 5 gal	☐	DTECH (specify):	1 kit
☐	Kerosene	≤ 5 gal	☐	Other:	1 kit
☐	Propane	1 cyl			
☐	Other:				

Remediation		Qty.	Other:		Qty.	DOT(1):		Qty.
☒	Not applicable		☐	Not applicable		☐	MOT eligible soils	
☐			☒	Spray paint	≤ 6 cans	☐	MOT eligible water	
☐			☒	WD-40	≤ 1 can	☐	MOT eligible solids	
☐			☐	Pipe cement	≤ 1 can	☐	MOT eligible liquids	
☐			☐	Pipe primer	≤ 1 can	☐		
☐			☐	Mineral spirits	≤ 1 gal	☐		

(1) Attach applicable Materials of Trade (MOT) generic shipping determination. SDS not generally applicable to this category.

SDSs for this project will be available electronically on a designated project field computer. All project workers will be notified of the SDS location in their initial safety briefing.

Contractor SDSs will be submitted to Arcadis in advance of work and will be filed with Arcadis SDSs as indicated above.

This project will not be utilizing materials subject to the HAZCOM Standard in bulk storage. In this HASP, bulk storage means any material stored on the project site in a bulk packaging >119 gallons (> 450 L) liquid capacity or a palletized quantity of a material in packaging ≤119 gallons (≤450 L) liquid capacity.

Personal Protective Equipment (PPE)

See JSA or Permit for the task being performed for required PPE. If work is not conducted under a JSA or Permit, refer to the governing document for PPE requirements. At a minimum, the following checked PPE is required for all tasks during field work (outside of field office trailers and vehicles) not covered by a JSA or Permit on this project:

Minimum PPE required to be worn by all staff on project:

Specify Type:

☒	Hard hat	☐	Snake chaps/guards	☐	Coveralls:	
☒	Safety glasses	☐	Briar chaps	☐	Apron:	
☐	Safety goggles	☐	Chainsaw chaps	☒	Chem. resistant gloves:	
☐	Face shield	☐	Sturdy boot	☐	Gloves other:	
☐	Hearing protection	☒	Steel or comp. toe boot	☐	Chemical boot:	
☐	Rain suit	☐	Metatarsal boot	☐	Boot other:	
☐	Other:	☒		☒	Traffic vest, shirt or coat:	Class II
		☐		☐	Life vest:	

Task specific PPE: See attached JSA for applicable PPE required for specific Job Tasks.

Comments:

See Control of Ticks and Poisonous Plants section for important PPE information.

Medical Surveillance

All Arcadis employees performing field work will be required to be current in HAZWOPER medical surveillance.

Client and DOT mandated drug and alcohol testing is not required for this project and will not be performed.

Hazardous Materials Shipping and Transportation

A shipping determination package has been prepared, reviewed and is attached to this HASP.

Traffic Safety and Traffic Safety Plans (TSPs)

The scope of work on this project will not expose Arcadis workers or subcontractors to vehicular traffic. A traffic safety plan will not be required.

Arcadis Commercial Motor Vehicles (CMVs)

CMVs operated by Arcadis employees on public roadways will not be utilized on this project. Arcadis defines a CMV as any single vehicle with a gross vehicle weight rating (GVWR) $\geq 10,001$ pounds or a truck and trailer combination with a combined GVWR $\geq 10,001$ pounds (GVWR of truck + GVWR of trailer = $\geq 10,001$ pounds).

Site Control

Site control requirements are addressed in the applicable task JSA for this project. JSAs requiring site control are attached to this HASP.

Decontamination

Decontamination protocols are addressed in the applicable task JSA(s) for this project. The applicable JSAs are attached to this HASP.

Sanitation

The project scope is a mobile work operation. The project field team will have reasonable access to restroom facilities within 10 minutes of the work area where the mobile work activity is actively taking place. Potable water will be carried by the field team in the vehicle used for the project. Unless alternate requirements are stipulated in a plan supplement (i.e. Heat Injury and Illness Prevention Plan), permit or JSA, bottled or water coolers with potable water will be provided to project workers at 1 gallon/worker/day.

Safety Briefings

Arcadis will lead all safety briefings on this project and will document the safety briefing on a Tailgate Safety Briefing form or logbook. Safety briefings will be conducted once at the beginning of each work day unless the Site Safety Officer deems more frequent safety briefings will be required based on work being conducted. All project workers, including Arcadis subcontractors, will be required to attend the safety briefing. Site visitors and project workers not on duty during the morning safety briefing will receive the safety briefing upon their arrival onto the project site for the day.

Employee Health and Safety Engagement

The CPM or APM is responsible for reviewing and establishing H&S engagement goals for the project. These goals are summarized below.

Hazard Observations (via H&S App or TIP) required at the following frequency on this project:

1 per task

Close Call reporting (via H&S app) goals for this project:

1 per year

Other (specify):

Safety equipment/supply requirements are addressed in the JSA or Permit for the task being performed. If work is not performed under a JSA or Permit, the following safety equipment is required to be present on site in good condition unless otherwise noted (Check all that apply):

*Apply to clothing prior to arrival at site

Work on this project has a medium tick exposure hazard. Use of insect repellent (20%-40% DEET on skin and/or permethrin on clothing) is an Arcadis requirement unless alternate control is approved by the applicable BL H&S Director. Apply permethrin to clothing at least 4 hours prior to work. Wear light colored clothing to help identify presence of ticks on staff. Keep shirt tails inside pants and pant leg taped to ankle. Perform tick check upon conclusion of work for day.

Electronic device use and distractions to be discussed and documented in the job briefing/safety briefing.

Signatures

I have read, understand and agree to abide by the requirements presented in this health and safety plan. I understand that I have the absolute right to stop work if I recognize an unsafe condition affecting my work until corrected.

Printed Name	Signature	Date

Add additional sheets if necessary

You have an absolute right to STOP WORK if unsafe conditions exist!

Arcadis Visitor Acknowledgement and Acceptance of HASP Signature Form

By signing below, I waive, release, and discharge the owner of the site and Arcadis and their employees from any future claims for bodily and personal injuries which may result from my presence at, entering, or leaving the site and in any way arising from or related to any and all known and unknown conditions on the site.

[illegible]

Attachment A
JSA

Attachment B
SDS

Attachment C
Heat Illness Prevention
Plan

Purpose and Scope

Date Completed 3/11/2021

The purpose of this document is to serve as a planning tool and implementation guide to assist the project team, onsite personnel, and the Site Safety Officer (SSO) or other designated responsible party to comply with the requirements set forth by **Cal/OSHA Title 8 CCR 3395 Heat Illness Prevention Standard** and the **Washington State Outdoor Heat Exposure Regulations 296-62-09510 thru 09560**.

NOTE: This HASP Supplement is required to be used in California and Washington states. The Arcadis Health and Safety Standards ARC HSIH013 Heat Stress Prevention, and ARC HSGE008 Injury and Illness Prevention Program (IIPP) must accompany this HASP Supplement. To completely address the regulatory requirements for work in CA and WA states these standards are required to be used in association with the project-specific HASP and this supplement.

The scope of this HIPP applies to Arcadis projects which include, but are not limited to: outdoor operations such as contractor oversight, construction, refining, oil and gas extraction, asbestos removal, and hazardous waste site activities and interior work particularly tasks which require employees to wear PPE which can increase the risk for heat stress for the wearer. This HIPP provides guidance to prevent or reduce the risk of work-related heat illness. This HASP Supplement provides site specific instructions for actions to be completed at the project site.

Project sites in other states and provinces are expected to use this HASP Supplement as a Best Management Practice to prevent heat related illness injuries.

Project Site Name AstraZeneca - Maestri

Authority and Implementation

The following designated individuals have authority and responsibility for implementing the provisions of this program at the project work site indicated above.

Project Manager	Rebecca Hensel
Site Safety Officer (SSO)	Tyler Derleth
SSO Designated	Tyler Derleth

Acclimatization of Personnel for Heat Stress Prevention

The degree to which personnel have been able to physiologically adjust or acclimatize to working under hot conditions affects ability to safely do work. Acclimatized individuals generally have lower heart rates and body temperatures than unacclimated individuals, and sweat sooner and more profusely. This enables them to maintain lower skin and body temperatures at a given level of environmental heat and work loads than unacclimated workers. Acclimatization can occur after a few days of exposure to the hot work environment. OSHA/NIOSH suggests an acclimatization period of 2-3 days for fit personnel. On the 1st day personnel should spend 50% of the day exposed to / working in the hot environment and increasing the amount of work 10-20% based on personnel response to the hot environment and work load.

Procedures for Provisions for Potable Water

The SSO or designee will be responsible for implementing the following when conditions at the site are anticipated to exceed 80 degrees (°) Fahrenheit (F) /

1. Proper hydration is critical to preventing heat related illness and injury. Project sites will maintain an adequate supply of suitably cool, fresh and pure potable water on site/readily accessible to allow each employee to consume 1 quart (1 L) of water per hour, ideally at a rate of four 8-oz (250 mL) cups per hour.

NOTE: Fresh and pure water is defined as being "odor free and suitably cool". Where suitably cool means water being cooler than the ambient temperature but not so cold as to cause discomfort or prevent drinking.

NOTE: Electrolyte replacement drinks or "Sports Drinks" should be used to replace essential minerals lost during sweating. Sports drinks should supplement water intake e.g. one "sport drink" to every three bottles of water (3 waters : 1 sport drink)

2. During the Tailgate Safety Meeting and site briefings identify and communicate the type and location of the water source. The water source must provide suitably cool, fresh, and pure water in sufficient quantity for all employees at the site. Water shall be provided free of charge or expenses will be reimbursed for employees. If the source is potable plumbed water do not complete Item 6 of this Section.

3. Communicate to staff whether all water for the day will be provided at the start of the shift (e.g., 2 gallons / 8 L per employee for an 8-hour shift), or how and when water will be replenished.

NOTE: A sufficient quantity of water must always be present and readily accessible to allow every employee to consume at least 1 quart (1L) of water per hour. It is suggested to have a minimum of three hours supply of water per employee on hand.

4. Water supplies must be positioned as close as reasonable possible to site workers. Placing water only in shaded areas or by toilet facilities is not sufficient, particularly at large work sites or at multi-story construction sites. Drinking water sources need to be close enough to workers to allow for routine consumption per the rate noted above.

5. Inspect the coolers / water dispensers for cleanliness and replenishment of water and cooling ice routinely based on temperatures and staff size. Cooling ice will be stored in clean coolers if added directly to water dispensers.

NOTE: If the site temperature exceeds 90° F / 32° C the frequency of the cooler inspection will increase to verify water remains cool and the water supply is maintained.

6. Oversee the daily inspection and maintenance of coolers to ensure they are kept clean and in good condition.

Potable Water Source & Location

☐	Potable plumbed source	Location:	
☒	Bottled water in chilled cooler	Location:	Support Truck
☐	Drinking water dispenser & cups	Location:	

Procedures for Provisions for Potable Water Continued

Check which applies. Must check at least one box, or provide additional detail

☒	Ice will be purchased at the start of each day.
☐	Ice will be provided by an onsite source or vendor service. Ice to be potable
☐	Alternative potable ice source: _____
☐	Food safe cleaning product for water cooler.
☐	Sufficient amount of drinking water cups for each employee per dispenser.
☐	Other items needed: _____

Access to Shade

The SSO or designee is responsible for implementing the following for how shade will be coordinated and provided **when temperatures exceed 80° F / 26° C**.

1. Access to shade must be allowed at all times. Before the start of work, the location of the shade areas, the importance of taking shade breaks, recognizing the signs and symptoms of heat illness, the schedule of shade breaks, and the location of shade break locations (if not portable) will be addressed during each Tailgate Safety Meeting and site briefing.

NOTE: Where required by regulation, shade breaks will be taken at a minimum rate of 10 minutes of shade for every two hour work period. As temperature increases shade breaks will increase in frequency. See the Heat Index table below for Heat Index specific Action Levels defining shade break frequency and duration.

2. The amount of shaded area must be able to accommodate all employees taking a recovery or rest break including employees on meal breaks. The shaded area(s) don't need to provide shade to accommodate **all employees** on a site or working a shift at the same time. An example includes rotating routine breaks among employees. Also, additional portable shade structures can be erected on an "as-needed" basis.

Employees must have enough shaded space so they can sit in a normal posture fully in the shade with enough space to allow for sitting without being in physical contact with each other. Employees who desire access to shade must not be deprived of it due to lack of space.

3. Employees who take a preventative cool-down rest;

(1) shall be monitored and asked if they are experiencing symptoms of heat related illness. (2) shall be encouraged to remain in the shade. (3) shall not be ordered back to work until signs or symptoms of heat illness have abated, but in no event less than 5 minutes in addition to the time needed to access the shade.

If an employee exhibits signs or symptoms of heat illness while taking a preventative cool-down rest the SSO will provide appropriate support (e.g. additional hydration and/or call to WorkCare) or emergency response support as needed based on symptoms.

4. Shade structures will be relocated to follow the crew for moving tasks. Shade structures will be placed within 50 feet of the work area, if practical. Shade structures must be no further than a short walk away (e.g. 2-3 minutes) from the work area. This consideration becomes more critical as the temperature rises above 80° F (26 C).

Access to Shade Continued

5. In situations where it is not safe or feasible to provide shade, the SSO will document in the HASP Supplement the unsafe or unfeasible conditions, and include the steps taken to provide alternative cooling measures equivalent to shade.

Unsafe/unfeasible conditions: _____

Alternative Cooling Measures Implemented:

☒	Provide vehicles with working air conditioner to all employees for rest breaks / recovery breaks / meal breaks.
☐	Provide temporary or mobile shade structure(s) that are either ventilated or open to air movement (Secure against wind.)
☐	Provide a building / permanent structure(s) in close proximity to the work area with a cooling environment via mechanical ventilation or open to air movement which will be used for shade. (Job trailer, pavilion, manufacturing building, etc.)
☐	Other: _____

Monitoring of Weather and Heat Index Table

1. The SSO or designee must check the extended weather forecast in advance of the upcoming work on a weekly basis. Work schedules will be adjusted in advance, taking into consideration whether high temperatures or a heat wave is expected.
Accepted weather forecasting resources include webpages "NOAA.gov" or "weather.com" or see the NIOSH Heat Tool (formerly the OSHA Heat Tool app)

<https://www.cdc.gov/niosh/topics/heatstress/heatapp.html>

2. Before work starts for the day or shift, the SSO will review the forecasted temperature and humidity for the (exterior) work site and compare conditions against the National Weather Service Heat Index (below) to evaluate the risk level for heat illness. Determination will be made of whether or not workers will be exposed to a combination of temperature and humidity characterized as "Caution", "Extreme Caution", "Danger" or "Extreme Danger" for heat illnesses.

NOTE: It is important to know the temperature at which these warnings occur. When working outdoors see the Heat Index Table in this supplement for Action Level specific instructions for hazard controls.

3. Where state regulations indicate a thermometer or similar on-site monitoring device will be used at the job site to monitor for sudden increases in temperature. The SSO will be responsible for obtaining a thermometer/weather station prior to the start of work and make it readily visible / accessible where it can easily be monitored throughout the course of the day.

NOTE: If the temperature is **> 80°F (26 C)** shade structures will be opened and made available to workers. If temperature is **≥ 95° F (35 C)** additional preventive measures will be implemented.

Monitoring of Weather and Heat Index Table Continued

Temperature (°F)

Relative Humidity (%)

	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
80	77	78	78	79	79	79	80	80	80	81	81	82	82	83	84	84	85	86	86	87
81	78	79	79	79	79	80	80	81	81	82	82	83	84	85	86	86	87	88	90	91
82	79	79	80	80	80	80	81	81	82	83	84	85	86	87	88	89	90	91	93	95
83	79	80	80	81	81	81	82	82	83	84	85	86	87	88	90	91	93	95	97	99
84	80	81	81	81	82	82	83	83	84	85	86	88	89	90	92	94	96	98	100	103
85	81	81	82	82	82	83	84	84	85	86	88	89	91	93	95	97	99	102	104	107
86	81	82	83	83	83	84	85	85	87	88	89	91	93	95	97	100	102	105	108	112
87	82	83	83	84	84	85	86	87	88	89	91	93	95	98	100	103	106	109	113	116
88	83	84	84	85	85	86	87	88	89	91	93	95	98	100	103	106	110	113	117	121
89	84	84	85	85	86	87	88	89	91	93	95	97	100	103	106	110	113	117	122	
90	84	85	86	86	87	88	89	91	92	95	97	100	103	106	109	113	117	122	127	
91	85	86	87	87	88	89	90	92	94	97	99	102	105	109	113	117	122	126	132	
92	86	87	88	88	89	90	92	94	96	99	101	105	108	112	116	121	126	131		
93	87	88	89	89	90	92	93	95	98	101	104	107	111	116	120	125	130	136		
94	87	89	90	90	91	93	95	97	100	103	106	110	114	119	124	129	135	141		
95	88	89	91	91	93	94	96	99	102	105	109	113	118	123	128	134	140			
96	89	90	92	93	94	96	98	101	104	108	112	116	121	126	132	138	145			
97	90	91	93	94	95	97	100	103	106	110	114	119	125	130	136	143	150			
98	91	92	94	95	97	99	102	105	109	113	117	123	128	134	141	148				
99	92	93	95	96	98	101	104	107	111	115	120	126	132	138	145	153				
100	93	94	96	97	100	102	106	109	114	118	124	129	136	143	150	158				
101	93	95	97	99	101	104	108	112	116	121	127	133	140	147	155					
102	94	96	98	100	103	106	110	114	119	124	130	137	144	152	160					
103	95	97	99	101	104	108	112	116	122	127	134	141	148	157	165					
104	96	98	100	103	106	110	114	119	124	131	137	145	153	161						
105	97	99	102	104	108	112	116	121	127	134	141	149	157	166						
106	98	100	103	106	109	114	119	124	130	137	145	153	162	172						
107	99	101	104	107	111	116	121	127	134	141	149	157	167							
108	100	102	105	109	113	118	123	130	137	144	153	162	172							
109	100	103	107	110	115	120	126	133	140	148	157	167	177							
110	101	104	108	112	117	122	129	136	143	152	161	171								
111	102	106	109	114	119	125	131	139	147	156	166	176								
112	104	107	111	115	121	127	134	142	150	160	170	181								
113	104	108	112	117	123	129	137	145	154	164	175									
114	105	109	113	119	125	132	140	148	158	168	179									
115	106	110	115	121	127	134	143	152	162	173	184									
116	107	111	116	122	129	137	146	155	166	177										
117	108	112	118	124	132	140	149	159	170	181										
118	108	113	119	126	134	142	152	162	174	186										
119	109	114	121	128	136	145	155	166	178											
120	110	116	122	130	138	148	158	170	182											
121	111	117	124	132	141	151	162	174	187											
122	111	118	125	134	144	154	165	178												
123	112	119	127	136	146	157	169	182												
124	113	120	129	138	148	160	172													
125	114	121	130	140	151	163	176													

Heat Index




Extreme Danger	Heat stroke likely.
Danger	Sunstroke, muscle cramps, and/or heat exhaustion likely. Heatstroke possible with prolonged exposure and/or physical activity.
Extreme Caution	Sunstroke, muscle cramps, and/or heat exhaustion possible with prolonged exposure and/or physical activity.
Caution	Fatigue possible with prolonged exposure and/or physical activity.

Note: The Heat Index table was developed with an expectation of partial shade & light wind conditions present. Work conducted in direct / full sunlight (e.g. no partial shade) and no wind adds up to 15° F (8° C) to the Heat Index evaluation.

Monitoring of Weather and Heat Index Table Continued

Heat Index Action Levels. Below are recommended additional controls. Each level of additional controls is additive as the temperature increases.

	CAUTION 80° - 90° F (26° - 32° C). Implement one or more of the following measures: Provide and direct hydration, schedule breaks, ensure lightweight clothing is worn, provide break areas with shade / ventilation / air conditioning.
	EXTREME CAUTION 90° - 105° F (32° - 40.5° C). Implement all the previous and add one or more of the following: Provide light duty PPE, cooled break areas, shaded work areas. NOTE: "Light Duty PPE" includes hard hat sun shades, sun hats, dry or wet evaporative cooling vests, microfiber cooling towels / scarves / headbands / hard hat suspension inserts or sweatbands, hard hat neck shades.
	DANGER 105° - 130° F (40.5° - 54.4° C). Implement all the previous and add one or more of the following: cooled work areas, modified work schedule, heavy duty PPE, and personnel physiological monitoring. NOTE: "Heavy Duty PPE" phase-change cooling vests, gel pack or ice pack equipped cooling vests. Consider engineering controls such as forced ventilation.
	EXTREME DANGER ≥ 130° F (≥ 54.4° C). If working at this temperature or greater Stop Work until conditions change or hazards are effectively controlled via the items listed above. At this range of temperatures it is critical to implement personnel vital sign monitoring for determining the appropriate frequency and duration of Work / Rest cycles.

Work / Rest Cycle Duration and Frequency Process

All workers, regardless if they are wearing permeable or impermeable clothing, should be monitored when conditions warrant e.g., when temperatures exceed 80°F / 26.6°C. If impermeable clothing is worn (e.g., not standard cotton/synthetic work clothes), it is a best practice to begin monitoring workers when temps are > 70°F in the work area. Prioritize workers completing strenuous tasks. Prioritization should also apply to work conducted indoors, for strenuous tasks, and/or if additional PPE is worn (such as Level C respiratory protection or(CPC). If impermeable clothing, Level C, or CPC is not worn, follow the Heat Index table instructions and evaluate personnel monitoring as part of the high heat measures. Details provided below for appropriate work/rest cycle development with the default rest cycle being a 15-minute interval for every hour when temperatures exceed 90°F.

NOTE: Warning signs include: When a person's sustained (e.g., several minutes) heart rate exceeds 180 beats per minute (bpm) minus their age (e.g., 180 - age = X) for individuals with normal cardiac performance per their physician; or a body core temperature exceeds 101.3°F / 38.5°C for acclimatized workers or 100°F / 38°C for unacclimated workers; a recovery heart rate at 1 minute after a peak work effort is greater than 120 bpm; or there are symptoms of sudden and severe fatigue, nausea, dizziness, or lightheadedness.

Suggested Frequency and Duration of Work / Rest Cycles Applying Physiological Monitoring of Acclimatized Personnel

Adjusted Temp. (1)	Permeable PPE (2)	Impermeable PPE (3)
≥ 90° F / 32° C	After ea. 45 mins. of worl	After ea. 15 mins. working
87.5-90° F / 30.8-32.2° C	After ea. 60 mins. of worl	After ea. 30 mins. Working
82.5-87.5° F / 28.1-30.8° C	After ea. 90 mins. of worl	After ea. 60 mins. Working
77.5-82.5° F / 25.3-28.1° C	After ea.120 mins. of wor	After ea. 90 mins. Working
72.5-77.5° F / 22.5-25.3° C	After ea.150 mins. of wor	After ea. 120 mins. Working

NOTES:

(1) Adjusted air temp (ta adj) calculation: $ta\ adj\ F = ta\ F + (13 \times \% \text{ sunshine})$. Measure the air temperature (ta) with a thermometer (shielded from radiant heat). Estimate the percent sunshine by judging what percent time the sun is not covered by clouds that are thick enough to produce a shadow. (100 percent sunshine = no cloud cover and a sharp, distinct shadow; 0 percent sunshine = no shadows.)

(2) Permeable PPE consists of cotton clothing with long sleeves and pants or breathable coveralls.

(3) Add 1.8 °F for Tyvek coveralls; add 5.4 °F for heavy clothing; add 19.8 °F for impermeable/semi-impermeable PPE - Level A/B suits)

Heart Rate Monitoring

When conducting heart rate monitoring, first record a resting heart rate to establish the individuals daily baseline heart rate. Count the radial pulse (located on the inside of the wrist below the thumb) during a 30 second interval before the start of work to establish a baseline heart rate. During rest cycles count the heart rate as early as possible at the beginning of the rest cycle and again 3-5 minutes later. The heart rate should fall and soon approach the individuals baseline heart rate.

- If the heart rate exceeds 110 beats per minute at the beginning of the rest period, shorten the next work cycle by one-third and keep the rest period the same.
- If the heart rate still exceeds 110 beats per minute at the next rest period, shorten the following work cycle by one-third.

Body Temperature Monitoring

Use an oral, inner ear, or an infrared type thermometer to measure the body temperature at the end of the work period (If using an oral thermometer record temperature before drinking liquids).

- If oral temperature exceeds 99.6°F (37.6°C), shorten the next work cycle by one-third without changing the rest period.
- If oral temperature still exceeds 99.6°F (37.6°C) at the beginning of the next rest period, shorten the following work cycle by one-third.
- Do not permit a worker to wear a semi-permeable or impermeable garment when his/her oral temperature exceeds 100.6 °F (38.1 °C).

Procedures for High Heat Conditions and Heat Waves

These procedures are additional preventative measures to be implemented when the temperature is > 95° F (35° C). The SSO or designee is responsible for ensuring effective observation and monitoring of employees during periods of high heat by implementing one or more of the following procedures:

1. SSO or designee will supervise 20 or fewer employees.
 2. The “Buddy System” is mandatory. Conduct routine checks for early signs of Heat Illness. Set and verify routine consumption of water & sports drinks in a 3:1
 3. Maintain regular communication between Project Manager or SSO / designee and field staff (e.g. via mobile phone, radio or another effective means) for observation of early signs of heat illness.
 4. Designate one or more employees as authorized to contact emergency medical services and communicating that if no designate is identified and the SSO is unavailable that any employee can call for emergency medical assistance.
 5. Modify work schedule to avoid hottest parts of the day (e.g. start work earlier in the AM, stop work for the hottest hours of the day, conduct work during the
- Additionally, tailgate Safety Meetings will include a review the high heat procedures, encourage employees to drink plenty of water, and remind employees of the importance to take a preventative or recovery cool-down rest when necessary.

Employees will be observed for alertness and signs and symptoms of heat illness at regular intervals to be documented in the field book or field log.

The “Buddy System” must be implemented. Particular attention needs to be paid to new employees or employees who have yet to acclimate to high heat conditions. Additionally, frequent communication will be maintained with employees working by themselves (via cell phone or two-way radio), to evaluate early warning signs and symptoms of heat illness.

When the SSO is not available, an alternate responsible person must be assigned to look for signs and symptoms of heat illness. Such a designated observer will be trained and know what steps to take if heat illness occurs.

"Heat Wave" Procedures

A "heat wave" as defined by NOAA, is a period of abnormally and uncomfortably hot and unusually humid weather." Typically, a heat wave lasts 2 or more days. A "Heat Wave" as defined for the purposes of this Standard is when temperatures are sustained above 80° F / 26° C.

During a heat wave or if site conditions indicate the potential for "Extreme Caution", "Danger" or "Extreme Danger" per the NOAA Heat Index Table the following steps will be taken:

Work schedules will be modified to protect workers from heat illnesses. The SSO or designee in coordination with the project team, will use their Stop Work Authority and evaluate the following actions and document the action in the daily field log

1. Modify work hours to exclude the hottest parts of the day.
2. Reschedule work or specific tasks that require strenuous exertion or Stop Work.

If schedule modifications are not possible, the Heat Illness Prevention Plan will be reviewed before work resumes. At a minimum, procedures for heat illness prevention, the provisions of the high heat procedures, the weather forecast and emergency response protocols will be reviewed.

Employees will be provided with additional water and rest breaks and will be observed more frequently. During work activities and rest breaks, employees will be observed for signs and symptoms of heat illness.

All employees will maintain frequent communication with the SSO or designee, who will be monitoring workers for possible symptoms of heat illness. In the event of large project sites where the SSO may be unable to be near the workers (to directly observe or communicate with them), then communication via a cell phone or radio may be used for this purpose provided reception in the area is reliable.

Procedure for Emergency Response

Emergency procedures include recognizing the symptoms of heat related illness. A critical step also involves ensuring that effective communication is established either through voice, direct observation or electronic means such as via mobile phones or 2-way radios. In an emergency situation it is critical that employees understand the process and contact information for requesting emergency medical support. The reception coverage for the site must be evaluated and understood to ensure adequate communication is in place across the project site. During a heat wave or hot temperatures, workers will be reminded and encouraged to immediately report to the SSO any signs or symptoms of the onset of heat stress they are experiencing.

Procedure for Emergency Response Continued

The SSO or designee is responsible for implementing the following procedures for emergency response. These procedures include, but are not limited to, the following:

- 1.** Prior to assigning staff to a particular work site, during the Tailgate H&S Safety Meeting all site workers will review the HASP along with the identified Hospital precise directions (such as streets or road names, distinguishing features, and distances to major roads), to avoid a delay of emergency medical services.
- 2.** Prior to work, efforts will be made to ensure that a qualified, appropriately trained and equipped personnel are consistently available to render first aid.
- 3.** Prior to the morning Tailgate Safety Meeting, an evaluation of whether or not a language barrier is present at the site for understanding the necessary preventative measures and emergency notifications procedures can be completed. Necessary steps will be taken (such as assigning the responsibility to call emergency medical services to the SSO or an English speaking worker) to ensure that emergency medical services can be immediately called in the event of an emergency.
- 4.** All SSOs and supervisors will carry cell phones or other means of communication to ensure that emergency medical services can be called. Routine checks will be made to ensure the devices are allowed on site, have adequate reception across the site, and are functional prior to each shift.
- 5.** When an employee reports symptoms, or displaying symptoms of possible heat illness, steps will be taken immediately to keep the affected employee cool and comfortable. Evaluate whether 1st aid is to be administered or emergency services are to be contacted or the employee is to be taken to an emergency facility for care.

Procedure for Handling a Sick Employee

Signs of Heat Stress: Excessive fatigue, heavy sweating, headaches, abdominal and/or upper thigh cramps, mild dizziness, elevated pulse.

Signs of Heat Exhaustion: Cool, moist, pale or flushed skin, nausea or vomiting, disorientation or confusion.

Signs of Heat Stroke: Hot, red skin which can feel dry to the touch, or moist from overexertion, changes in consciousness, rapid or weak pulse, shallow rapid breathing.

The SSO or designee is responsible for implementing the following procedures for evaluating and providing care for a sick employee:

- 1.** When an employee displays signs or symptoms consistent with the heat related illness, the SSO or designee will check the sick employee and determine whether resting in the shade and drinking cool water will suffice or if emergency service providers will need to be called.

Procedure for Handling a Sick Employee Continued

If determined to be a **non-emergency** (e.g. heat cramps or heat stress) the SSO will contact **WorkCare Injury Assistance Hotline 1-888-449-7787** for 1st aid medical assistance. In the event of the injury being an emergency, or potentially (e.g. Heat Exhaustion or Heat Stroke) contact emergency support services.

2. When an employee displays possible signs or symptoms of heat illness and no trained first aid worker or supervisor is available at the site, emergency service providers will be called.

3. Emergency service providers will be called immediately if an employee displays signs or symptoms of advanced stage heat related illness like Heat Exhaustion or Heat Stroke (loss of consciousness, incoherent speech, convulsions, red and hot face) or does not get better after drinking cool water in intervals of 8 ounces every 15 minutes and resting in the shade. While the ambulance is in route, assign a person to care for the injured, first aid will be administered (cool the worker by placing them in the shade, remove excess layers of clothing, place ice pack in the armpits and groin area and fan the person). A worker determined to be suffering an advanced stage of heat related illness will not be allowed to leave the site except under medical care, or as directed by a medical professional.

4. If an employee displays signs or symptoms of advanced stage heat related illness (loss of consciousness, incoherent speech, convulsions, red and hot face), and the work site is located more than 20 minutes away from a hospital, call emergency service providers, communicate the signs and symptoms of the victim, and request an Air Ambulance if necessary.

Revisions, notes, amendments, and clarifications specific to this plan will be detailed in the space below:

[illegible]

Attachment D
Lone Remote
Worker Plan

Arcadis Lone Worker or Remote Location Communication Plan

(For international travel/work, use the Travel Safety and Security Plan template in lieu of this template)

Project Name:	Maestri
Project Number:	30166086
Date:	6/5/2023
Revision:	

General Information (select all that apply):

- ☒ Worker will be alone
- ☒ Buddy system will be used
- ☒ Area is within cell phone service range
- ☐ Cell phone service is limited or out of range
- ☐ Worker will be performing high risk activity (Lone Worker is not permitted)
- ☐ Work will be performed outside normal operating hours (nights or weekends)
- ☐ Wilderness work
- ☐ Site is not accessible to standard emergency services
- ☐ Other unique site conditions that may hinder employee's ability to get help, if required.

Explain:

Communication Plan

Frequency of Communication:	2 HOURS	
Planned Start Time:	7:00:00 AM	Planned End Time: 7:00:00 PM

Contact Information:	
Field Worker Name:	Tyler Derleth
Field Worker Phone Number:	315-436-3605
Vehicle Make/Model/ Plate:	TBD
Office Contact Name:	Ryan Merrell
Office Contact Phone Number:	315 671 9219 (office) 315 399 3864 (cell)

Method of Communication:

- | | |
|--|--------------------------------------|
| ☒ Cell Phone (including text notification) | ☐ GPS |
| ☐ Landline | ☐ Transponder |
| ☐ 2-way Radio | ☐ App: |
| ☐ Satellite Phone | ☐ Other: |

Contingency Plan (if the Field Worker cannot be reached, describe actions the Office Contact will take)

TBD based on field visit.

Notification Log

[illegible]

Attachment E
Forms

PID Calibration Log



Zero Gas Source: _____ Instrument Type: _____ PAGE ____ of ____

Lot Number/Expiration Date: _____ Serial Number: _____

Calibration Gas Source: _____ Instrument Type: _____

Lot Number/Expiration Date: _____ Serial Number: _____

Concentration: _____

[illegible]

Arcadis Weekly Vehicle Inspection Form

Vehicle # / License Plate #

Lease Plan # / Last 6 of Vin #

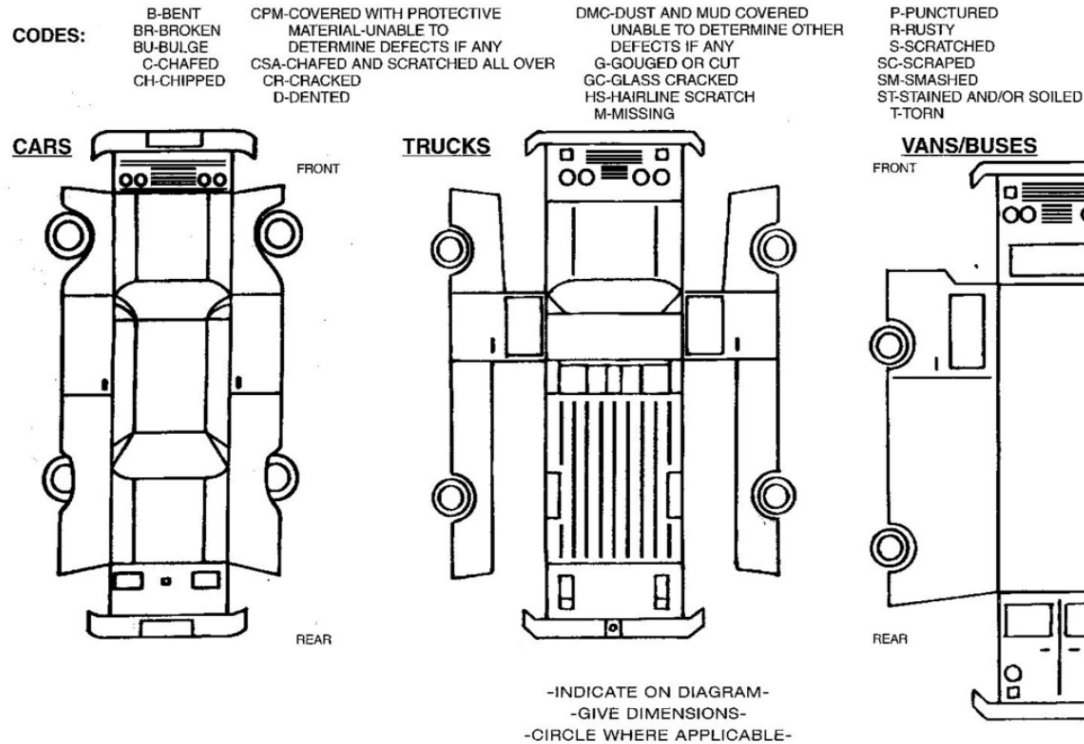
		Inspection Date											
		Odometer reading											
Driver / Inspector Name													
Check the appropriate box and enter repair date for identified repairs:		OK	Needs Repair	Repair Date	OK	Needs Repair	Repair Date	OK	Needs Repair	Repair Date	OK	Needs Repair	Repair Date
Interior	Horn operational												
	Door Locks operational												
	Seat Belts in good repair												
	Seats and Seating Controls												
	Steering Wheel - No Excessive Play												
	Interior Lights and Light Controls												
	Instrument Panel/Gauges												
	Wiper Controls operational												
	Heat/Defrost/Air Conditioning working												
	Rear View Mirror present												
	Backup Camera/Sensors working												
	Jack and Lug Wrench present												
Exterior ¹	Lights and Signals operational												
	Tires properly inflated/good tread depth												
	Spare Tire properly inflated												
	Doors operational												
	Windows Not Cracked/Damaged												
	Side View Mirrors												
	Body Panels and Bumpers												
Engine & Brakes	Engine Start & Running Smoothly												
	Fluid Levels, No Noticeable Leaks												
	Belts tight, no cracks												
	Brakes operational, no squeaking												
Emergency Equipment ²	First Aid Kit, inspected weekly												
	Fire Extinguisher properly secured												
	Fire Extinguisher inspected weekly												
	Orange/Yellow emergency warning light												
	Roadside Assistance Information												
	Recommend spotter cones available												
Cargo	Cargo Secure and Properly Distributed												
	Securing Devices in Good Condition												
Registration	License Plate /Tags												
	Registration and Insurance												
	City/State Inspection Decal												
	Lease Plan information/Fuel Card												

¹ Note all damages to the vehicle on the back of this page

² Emergency Equipment required per Motor Vehicle Standard ARC HSGE024

Note All Vehicle Damage Below

All Vehicle Damage must be reported to Sue Berndt (Corporate Legal), Andrew McDonald (Corporate H&S), and Roger Elliot (Corporate Fleet Manger)



Notes:

Tread guide: If a tread gauge is not available coins may be used to determine remaining tread. 2/32" is the minimum by law in most states (top of Lincoln's head on penny), 4/32" is minimum recommended for wet surfaces (top of Washington's head on quarter), 6/32" is minimum recommended for snowy surfaces (top of Lincoln Memorial on penny). Vehicle tires should be replaced if the tread depth is less than 6/32".



2/32" remaining

4/32" remaining

6/32" remaining

Reference JSA 10907 For Weekly Vehicle Inspection

Attachment F
Journey Management
Plan

Arcadis Journey Management Plan

Project Name: Maestri
 Project Number: 30166086
 Date: 6/5/2023
 Revision:

Route Identification

Planning and evaluation of route(s) on this project will utilize (*select all that apply*):

☐	On-line mapping software with traffic reporting
☐	On-line mapping software without traffic reporting
☒	GPS navigation with traffic reporting (portable unit or integrated into the vehicle)
☒	Standard GPS navigation device (portable unit or integrated into the vehicle)
☐	App with mapping and traffic reporting
☐	App without traffic reporting
☐	Government website with traffic and construction zone reporting
☒	Standard maps or atlases
☐	Other -Specify: <u></u>

Identified Hazards

List any identified hazards or route concerns identified in the route identification above:

Hazards will be assessed prior to each mobilization.

List any portions of this route that have recommended driving restrictions due to time of day, weather, or security

☒	Driving JSA attached or provided in the project specific HASP	
☒	Vehicle Pre-Trip Inspections required:	☐ Daily ☒ Weekly
☐	Commercial Motor Vehicle (CMV) requirements apply to this project.	

Tolls

☐ All or portions of this route includes toll roads.

Specify how the tolls are paid (select all that apply):

☐	Transponder	☐	Request transponder for vehicle when renting
☐	License Plate	☐	Review rental agreement concerning rental agency participation in license plate toll payment systems.
☐	Cash only		
☐	Other:		

Documentation

When using on-line mapping software to prepare routes, it is recommended to print an overview map with route, and turn by turn maps of route when available. When using GPS navigation devices, it is also recommended that on-line mapping software routes and maps be printed to augment the GPS navigation device routing. Standard maps or atlases should only be considered if navigation assistance from a passenger in the vehicle.

Printing of maps from on-line mapping software should be considered, especially if little is known about potential traffic or construction hazards from primary route planning.

All hard copy maps and driving directions are attached.

Signatures

JMP Prepared by:	<u>Lukas Matt and Rebecca Hensel</u>	Date:	<u>6/5/2023</u>
Driver Review:	<u></u>	Date:	<u></u>
	<u></u>	Date:	<u></u>
	<u></u>	Date:	<u></u>
	<u></u>	Date:	<u></u>

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