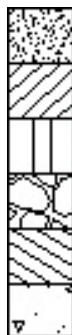


SUBSOIL
INVESTIGATIONS



SOIL MECHANICS DRILLING CORP.

3770 MERRICK ROAD, SEAFORD, NEW YORK 11783

PH: (516) 221-2333 FAX: (516) 221-0254

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August 8, 2023

NYSDEC
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, New York 12233-7015
Attn: Michael MacCabe, P.E.
Sr. Environmental Engineer

Re: IKEA Retail Store
a/k/a US Dredging Shipyard Site
Brooklyn, N.Y.
SMES #08-387
BCP C224043
(Site V00650-2)

Dear Mr. MacCabe:

Forwarded attached is our Semiannual Monitoring Report prepared for the above referenced facility. The report, prepared in general conformance with the Site Management Plan (5/08), is for the time period 1/11/23 through 6/29/23 (covering January 2023, February 2023, March 2023, April 2023, May 2023, June 2023).

Should you have any questions or comments regarding the attached, please feel free to contact our office at 516 - 221-7500.

Very truly yours,

Soil Mechanics Drilling Corp.

Altan Gulum, P.G.
Project Manager

Cc: Claude Boisvert – IKEA

Semiannual Monitoring Report

U.S. Dredging Shipyard Site
Tax Block 612, Lot 130
Brooklyn, New York
NYSDEC –BCP Number C224043

Prepared for:

IKEA Property, Inc.
(formerly One Beard Street, LLC)
420 Alan Wood Road
Conshohocken, PA 19428

Time Period
1/11/23 through 6/29/23

Prepared by:

SOIL MECHANICS DRILLING CORP.

3770 Merrick Road
Seaford, New York 11783
Phone: 516.221.7500
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Table of Contents

I	Introduction	Page 1
II	Sub-Slab Vapor Mitigation System (SSVMS) Monitoring	Page 2 - 3
	a) System Start-Up and Testing	
	b). System Operation/Monitoring	
	(i) 2/6/23 (January 2023 visit)	
	(ii) 3/8/23 (February 2023 visit)	
	(iii) 4/6/23 (March 2023 visit)	
	(iv) 5/4/23 (April 2023 visit)	
	(v) 6/2/23 (May 2023 visit)	
	(vi) 6/29/23 (June 2023 visit)	
III	Semiannual Soil Vapor Sampling	Page 3 - 6
	a) Methane Sampling	
	b) Volatile Organic Compound (VOC) Sampling	
IV	Residual Management Zone - Work Conducted Beneath Site Caps	Page 6
V	Conclusion, Comments, and Recommendations	Page 6 - 7
Appendix		
Appendix A	Figures	
Appendix B	Charts and Tables	
Appendix C	Complete Laboratory Reports and Chains of Custody	
Appendix D	Monthly Sub-Slab Vapor Mitigation System (SSVMS) Inspection Forms	
Appendix E	Quality Assurance/Quality Control (QA/QC) Samples	

I Introduction

The subject property (Site), located at 1 Beard Street, Brooklyn, N.Y. (Red Hook section – see Figure #1) was formerly occupied by the United States Dredging Shipyard (USDC). The Site was subject to remedial actions under the New York State Brownfield Cleanup Program (BCP) administered by the New York State Department of Environmental Conservation (NYSDEC) under New York Environmental Conservation Law (ECL) Section 27-1401 et seq. (the “Brownfields Law”). The Site was remediated, to facilitate construction of new IKEA retail store, in accordance with the Brownfield Cleanup Agreement (BCA) between One Beard Street, LLC (the Volunteer), a wholly owned subsidiary of IKEA Property, Inc. (IKEA), and NYSDCE under Index #W2-1023-04-10, Site #C224043 (effective on January 11, 2005).

Upon completion of the remedial actions referenced above, a Site Management Plan (SMP, dated 5/08) was prepared to address long term site management issues. The SMP was prepared in accordance with the environmental easement executed by the Volunteer and recorded against the property with the Kings County Clerk pursuant to ECL Section 27-1419(2)(e) and in accordance with the Brownfields Regulations. The SMP was prepared on behalf of the Volunteer in accordance with the Brownfields Law, the Brownfields Regulations, guidelines contained in NYSDCE Draft DER-10 Technical Guidance for Site Investigation and Remediation, dated December 2002, and other guidelines provided by NYSDCE. As required by the Brownfields Law and Regulations, the SMP, among other things, addresses the implementation of Site-specific engineering controls (ECs), which were identified in the Remedial Work Plan (RWP).

ECs identified in the SMP that require routine monitoring include:

- The composite site cap;
- The sub-slab vapor mitigation system (SSVMS) and associated perimeter soil-vapor monitoring system, which consists of 16 soil-vapor monitoring wells or implants.

The SMP mandates that the composite site cap be subject to yearly monitoring/inspection, the results of which will be reported in the Annual Site Management Report. The SMP further mandates that the SSVMS and associated perimeter monitoring wells be subject to monthly/quarterly monitoring and inspection. Notably, per the directive of the NYSDCE (dated 2/27/15) the monitoring period was reduced to semiannually because methane concentrations have been documented to be generally consistent. The results of required monitoring and inspection efforts for the time period 1/11/23 through 2/29/23 are presented herein and will also be incorporated into the Annual Site Management Report. All monitoring and inspection activities were conducted in conformance with the SMP.

II Sub-slab Vapor Mitigation System (SSVMS) Monitoring

The sub-slab vapor mitigation system associated with the IKEA retail store consists of: (i) a sub-slab network of horizontal slotted screen PVC piping in a gravel layer under selected portions of the building, which consists of two (2) separate manifolds or zones; (ii) two (2) separate riser pipes (one per manifold) that extend from the piping network to the roof; (iii) two (2) blower units (one per riser) mounted on the roof of the IKEA Building; and (iv) a Liquid Boot brand vapor barrier membrane, which was sprayed into the gravel layer and is attached to the underside of the building's structural slab. When operational, the blowers create negative air pressure or suction in the horizontal well network. As organic vapors naturally rise to the gravel layer, the vapors are captured and discharged through short stacks on top of the blowers to the atmosphere.

Visual inspection of accessible portions of the SSVMS was performed in conformance with Section 4.2 of the SMP. During the time period 1/11/23 through 6/29/23 there was no need for an unscheduled inspection or sampling due to: (i) suspected failure of the SSVMS; or (ii) other emergency other than that which is presented in Table A below.

a) System Start-Up and Testing

Prior to activation of the system, qualified Soil Mechanics Drilling Corp. (SMDC) professionals reviewed the status of the equipment and inspected/tested same to ensure all equipment meets performance requirements and were fully operational. The system was formally put into fulltime operation on 6/3/08.

b). Monthly System Operation/Monitoring

(i)	2/6/23	(January 2023 visit)
(ii)	3/8/23	(February 2023 visit)
(iii)	4/6/23	(March 2023 visit)
(iv)	5/4/23	(April 2023 visit)
(v)	6/2/23	(May 2023 visit)
(vi)	6/29/23	(June 2023 visit)

Regular monthly inspections were conducted by qualified SMDC professionals on 2/6/23, 3/8/23, 4/6/23, 5/4/23, 6/2/23, and 6/29/23. The inspections were conducted to: (i) ensure the SSVMS is operating properly; (ii) to document any unusual conditions; and (iii) make any necessary repairs/adjustments. During the time period 1/11/23 through 6/29/23, the SSVMS operated as designed; there were no system malfunctions or low vacuum pressure alarms with the exception of that which is cited below in Table A below. Repairs and/or adjustments were made as necessary to ensure proper operation of the SSVMS and protection of building occupants (see Monthly SSVMS Inspection Forms attached for complete summaries).

Table A

Date	Comments
Saturday 2/4/23	Low vacuum alarm received. Field technical personnel responding to site confirmed that both Blower #1 and Blower #2 were shut down due to problems with the building's sprinkler system. Field technical personnel re-started both blowers on 2/6/23 and departed Site with both Blowers operation as designed.

Visual inspection of vapor sampling ports revealed no evidence of any damage (e.g., broken valve, cracked piping). Vapor discharge sampling, utilizing a GEM 2000 Landfill Gas Analyzer, indicated non-detectable concentrations of methane during monitoring efforts conducted 2/6/23, 3/8/23, 4/6/23, 5/4/23, 6/2/23, and 6/29/23 at both blower locations (see Monthly SSVMS Inspection Forms attached for complete summary).

III Semiannually Soil Vapor Sampling – 1/11/23 through 6/29/23

A series of 16 permanent soil-vapor monitoring wells, identified as SVW-1 through SVW-16, have been installed along the perimeter of the Site in conformance with the SMP (see Figure #2). Inspection of all well locations on 6/29/23 revealed all monitoring wells to be in good condition. Accordingly, qualified SMDC professionals provided real-time monitoring of all well locations for methane and acquired samples for laboratory testing for volatile organic compounds (EPA method TO-15, including helium utilized as a tracer gas).

a) Methane Sampling

The wells were sampled, on 6/29/23, for the presence of methane, organic vapor, oxygen, and carbon dioxide utilizing a GEM 2000 Landfill Gas Analyzer and MiniRae 3000 organic vapor analyzer. Samples were collected via connection of the sampling equipment directly to dedicated valves at each well location. The sampling equipment was purged with ambient air between sample locations. Table #1 (Soil Vapor Sampling Form - see attached) provides a complete summary of all recorded measurements, including temperature, wind speed/direction, and barometric pressure. Chart #1 provides a graphic representation of methane monitoring results since commencement of data collection efforts. The results of monitoring activities for organic vapor and methane indicated:

- Non-detectable concentrations of methane at all monitoring well locations with the exception of SVW-13 (77.4%), SVW-14 (13.6%), and SVW-16 (10.7%), which exceeded the lower explosive limit (LEL) for methane of 5% gas by volume (see Table #1).

Notably, methane gas has been recorded at concentrations exceeding its lower explosive limit or LEL at the noted monitoring well locations during prior reporting periods (see Chart #1). In any case, concerned parties, including National Grid, were advised of the identified condition so that appropriate actions could be taken.

- Non-detectable concentrations of organic vapor at all monitoring well locations SVW-1, 2, 5, 7, 10, 12, and 13; detectable concentrations at wells SVW-3 (3.1 parts/million), SVW-4 (1.0 parts/million), SVW-6 (0.7 parts/million), SVW-8 (0.4 parts/million), SVW-9 (1.3 parts/million), SVW-11 (1.0 parts/million), SVW-14 (1.2 parts/million), SVW-15 (1.2 parts/million) and SVW-16 (1.1 parts/million – see Table #1).

b) Volatile Organic Compound (VOC) Sampling

Organic vapor samples were collected directly from the sample port(s) all accessible well locations, utilizing 1-liter Summa canisters equipped with flow regulators to allow sample collection over a two-hour period (see Site Plan). The vapor samples were collected from all wells on the property on 6/29/23, utilizing the procedure detailed below.

Samples were collected as follows:

- Prior to sample collection, one to three probe volumes were purged.
- Flow rates for both purging and sample collection did not exceed 0.2 liters per minute.
- New, clean 1/8-inch inside diameter polyethylene tubing was attached to the sampling port and the sample port valve opened.
- The inlet on a labeled Tedlar bag was opened and attached to the discharge end of the tubing. The bag was allowed to fill approximately two-thirds full and the inlet valve closed. The bag was subsequently detached and the valve on the sampling port closed.
- The Tedlar bag was field screened for VOCs by attaching the sample port to the PID probe using a new section of polyethylene tubing. The PID pump was allowed to draw the soil gas sample into the meter. Once the readings stabilized measurements were recorded.
- The tubing on the stack sample port was connected to the inlet of a certified clean, labeled Summa canister equipped with a flow regulator and vacuum gauge. The vacuum reading from the vacuum gauge on the canister at the beginning of the sampling period was recorded. The valve of the canister was opened and then the valve on the system sample port to initiate sample collection. The initial vacuum reading and sampling start time was recorded.
- At the end of the sampling period and prior to the vacuum gauge returning to ambient pressure, the valve was closed and the flow-rate controller and vacuum gauge removed, canister cap was installed, and the time recorded.
- The canister was placed into the shipping container for transportation to the testing laboratory.
- Sample locations, measurements, weather conditions are recorded (see Table #1).

The results of VOC sampling are presented in Table #2 for all acquired samples. Standards, criteria, and/or guidance values for selected compounds presented in Table #2, i.e., carbon tetrachloride (CCl_4), tetrachloroethene (C_2Cl_4), 1, 1, 1-trichloroethane ($\text{C}_2\text{H}_3\text{Cl}_3$), trichloroethene (C_2HCl_3), 1, 1-dichloroethene ($\text{C}_2\text{H}_3\text{Cl}_2$), *cis*-1,2-dichloroethene ($\text{C}_2\text{H}_3\text{Cl}_2$), and vinyl chloride ($\text{C}_2\text{H}_3\text{Cl}$) are contained in decision making matrices provided by New York State Department of Health - Guidance for Evaluating Soil Vapor Intrusion in the State of New York (10/06). Notably, however, the noted matrices could not be utilized for comparative purposes since soil vapor samples acquired at the Site were not collected from wells located in the footprint of the IKEA building or from a sub-slab environment. As per the SMP (5/08), up and down wind ambient air samples were collected for laboratory analysis (EPA Method TO-15). The results of these samples are also presented in Table #2. As a quality assurance/quality control (QA/QC) measure, helium tracer was utilized to verify that soil vapor samples were not diluted by outdoor air infiltration during sampling efforts. Helium was used because: (i) it is readily available; (ii) has a low toxicity; (iii) can be monitored with portable measurement devices; and (iv) it can be included in the targeted suite of analytical parameters requested by the testing laboratory.

Helium was utilized to enrich the atmosphere in the immediate vicinity of the area where the probe intersects the ground during all sampling efforts. Appropriate measures were implemented to keep the tracer gas in contact with the probe during the testing as shown in pp. 28 of NYSDEC Guidance for Evaluating Soil Vapor Intrusion in New York State (10/06). The effectiveness of the probe seals at well locations were documented as follow:

- Prior to and after completion of sampling efforts, vapor samples were monitored for elevated concentrations of tracer gas ($> 10\%$ of helium) utilizing MGD 2002 Portable Helium Monitor equipped with a Tedlar bag. Tracer gas was not detected by the field monitoring instrument at any of the probe locations during this round of sampling activities. Accordingly, probe seals did not require enhancement to reduce/eliminate the infiltration of outdoor air.
- Helium was not detected in soil vapor samples subject to laboratory testing.

Appropriate QA/QC procedures were followed during all aspects of sample collection and analysis to ensure that sampling error is minimized and high-quality data are obtained. Sampling team members avoided actions (e.g., fueling vehicles, using permanent marking pens, wearing freshly dry-cleaned clothing or personal fragrances, etc.). Portable air monitoring equipment or field instrumentation was properly maintained, calibrated and tested to ensure validity of measurements. Air sampling equipment was stored, transported and between samples decontaminated in a manner consistent with the best environmental consulting practices to minimize problems such as field contamination and cross-contamination. Samples were collected using certified clean sample devices supplied by the testing laboratory. Gas used by the laboratory to clean the sample device was different from the gas used as a tracer during sampling (e.g., helium). Samples met holding times and temperatures and were delivered to the analytical laboratory (CENTEK Laboratories or Syracuse, N.Y. – NYS ELAP certified) as

soon as possible after collection. Further, laboratory accession procedures were followed, including field documentation (sample collection information and locations), chain of custody, field/trip blanks, field sample duplicates and laboratory duplicates, as appropriate to prepare a Category "B" deliverables package (see attached). Qualified Soil Mechanics personnel completed all sampling activities, in general compliance with appropriate sampling and decontamination protocols recognized by the NYSDEC/NYSDOH.

IV Residual Management Zone – Work Conducted Beneath Site Cap

Since the potential for residual contamination and methane exist beneath the Site Cap, certain engineering and institutional controls were employed at the subject property to ensure the long-term effectiveness of the remedy to protect human health and the environment. Accordingly, based on the aforementioned, all activities on the Site that in any way disturbed residual contamination must be conducted in accordance with the SMP.

During the time period of this report (1/11/23 through 6/29/23), no scheduled activities were conducted at the subject property that breached established site caps or that in any way disturbed Residual Management Zone (RMZ).

V Conclusion, Comments and Recommendations

The SSVMS was observed to be operating, as designed and in compliance with the SMP, during the time period of this report. The system operated continuously and did not require any shut downs or repairs.

Visual inspection of accessible portions of the SSVMS was performed in conformance with Section 4.2 of the SMP. During the time period of this report, there was no need for an unscheduled inspection or sampling due to: (i) suspected failure of the SSVMS; or (ii) other emergency. The only exception to the aforementioned was a low vacuum alarm received on 2/4/23 (see Table A in Section II). Field technical personnel responding to site confirmed that both Blower #1 and Blower #2 were shut down due to problems with the building's sprinkler system. Field technical personnel re-started both blowers and departed Site with both Blowers operation as designed.

Based on the results of real time monitoring and laboratory testing of acquired samples, presented in Tables #1 and 2, no modifications or adjustments to the system are, in our opinion, required. Accordingly, we recommend that monthly/semiannual monitoring activities continue as established with the SMP.

Elevated concentrations of methane gas were detected at monitoring well locations SVW-13, 14, and 16 during this reporting period. Notably, methane gas has been recorded at concentrations exceeding its lower explosive limit or LEL at these monitoring well locations, which were by design installed along Beard St. to coincide with trenches wherein National Grid's natural gas supply lines/valves enter the IKEA property, during prior reporting periods (see Chart #1). Representatives of National

Grid were advised of monitoring results since their supply lines are the likely source of the identified condition and so that appropriate actions could be taken.

At the behest of the NYSDEC and IKEA property management, a meeting was scheduled on 5/11/23 with National Grid personnel at subject property to discuss elevated methane readings historically identified at selected monitoring well locations. At that time, as a first step in addressing the identified condition, a vapor sample was collected for laboratory analysis from monitoring well location SVW-13 by National Grid personnel, i.e., to determine whether the methane detected at the noted well location was in fact Nat Grid's natural gas. The results of the noted sampling effort are still pending. Nevertheless, without further consultation with our office or IKEA property management, National Grid returned to the IKEA property on 6/29/23 and reportedly completed making necessary repairs.

To confirm the effectiveness of repairs conducted by National Grid representatives of our office visited the IKEA Site on 8/3/23 to conduct a follow-up survey of monitoring well locations SVW-13, SVW-14 and SVW-16. Notably, elevated concentrations of methane were again recorded at monitoring well locations SVW-13 (99.4%), SVW-14 (15.9%), and SVW-16 (10.3%). Based on the aforementioned, it does not appear that recent repairs made by National Grid have effectively addressed the identified condition. As is our routine protocol, we again contacted National Grid to advise them of our most recent observations. As of the date of this report, we have not heard back from National Grid. In any case, indoor air quality within the IKEA building is already protected with the subject property's SVMS. We, therefore, recommend that monitoring efforts continue as established with the SMP. We will continue to work with National Grid to address the detected methane concentrations at selected monitoring well locations.

An oil-like substance was identified to be leaking from one of the four mothballed Gantry Cranes on the subject property during December of 2016 (see freestanding report, dated 6/20/17, and routine monitoring report for time period 12/20/16 to 6/27/17). As a result of mitigative measures established to be protective of human health and the environment, no evidence of any discharge(s) was observed in association with any of the mothballed Gantry Cranes during this reporting period. We, therefore, recommend that the Gantry Cranes continue to be subject to regular monitoring efforts for evidence of any discharges that would represent threat to human health or the environment.

Appendix

- A) Figures**
- B) Charts and Tables**
- C) Complete Laboratory Reports and Associated Chains of Custody**
- D) Monthly SSVMS Inspection Forms**
- E) QA/QC Samples**

Figures

**U.S. Dredging Shipyard Site
Tax Block 612, Lot 130
Brooklyn, New York
NYSDEC - BCP Number C224043**



Approximate
Footprint of Upland
Portion of Subject
Property



SOIL MECHANICS ENVIRONMENTAL SERVICES

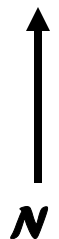
3770 Merrick Road, Seaford, NY 11783
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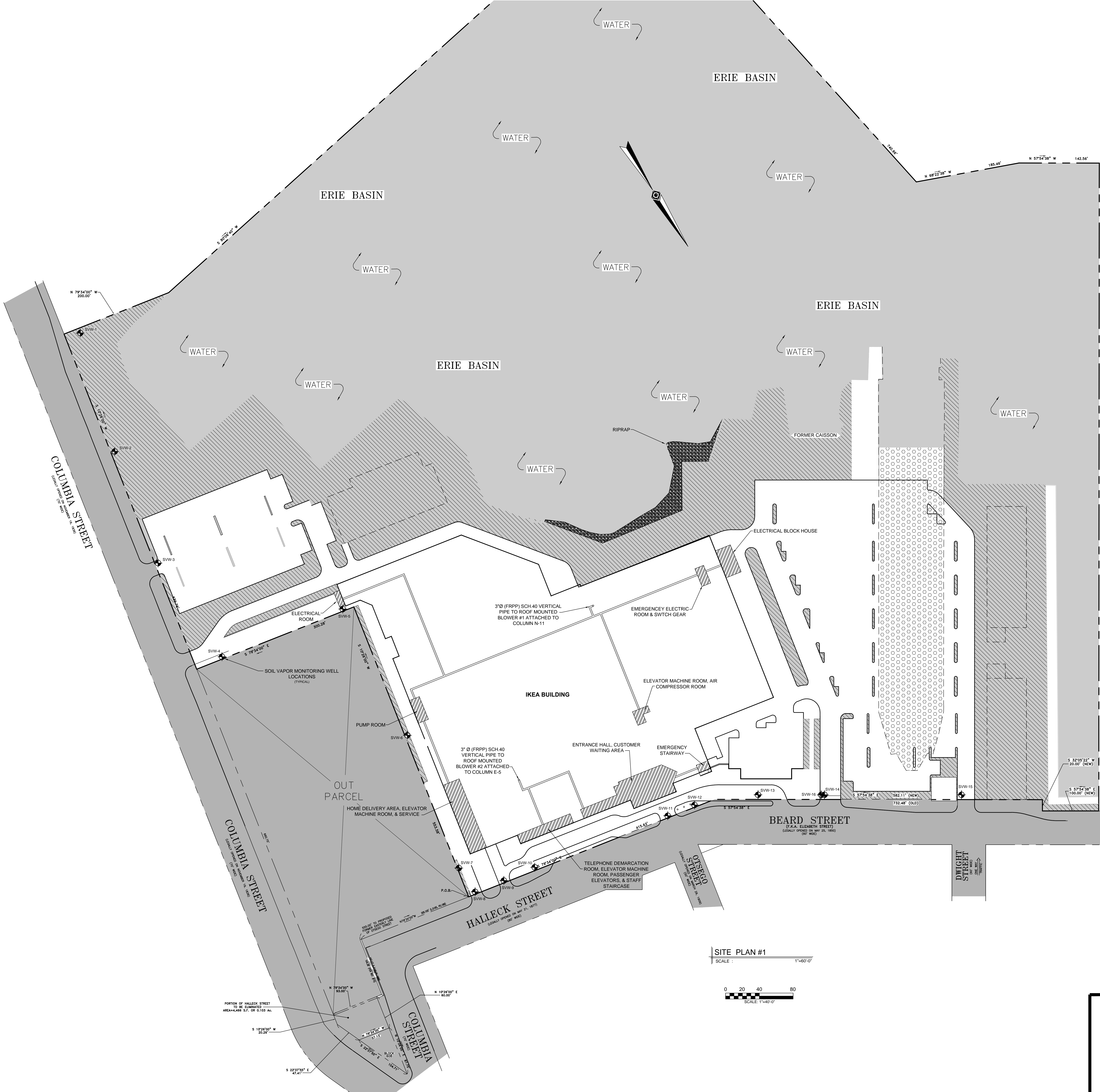
**Figure #1
Project Location Plan
Brooklyn, NY**

DATE: 6/17

SCALE: N.T.S.

JOB NO.: 08-387





LEGEND

PERIMETER SOIL-VAPOR MONITORING WELL(S)

OFF-SITE ROADS, OUT PARCELS, ETC...

WATER (ERIE BASIN)

6 MIL PLASTIC DEMARCATION BARRIER COVERED BY AT LEAST FOUR FEET OF CLEAN FILL

BACKFILLED PORTION OF FORMER DRYDOCK #1
(NOT ENVIRONMENTAL CONTROL AREA)

SUB-SLAB METHANE/ VOC VENTING SYSTEM PLUMBING, GRAVEL LAYER, ETC. ASSOCIATED WITH METHANE MITIGATION SYSTEM

SITE CAP - NO LESS THAN ONE FOOT OF CLEAN FILL AND CONCRETE, ASPHALT OR BUILDING STRUCTURES

FOOTPRINT OF FUTURE BUILDINGS.

3" DIAMETER PVC PIPE BELOW ASPHALT PAVEMENT TO METHANE MITIGATION SYSTEM BLOWER UNIT

***NOTE:**
WELLS SVW-3, 8, 9, 10, 11, 12, 13, 14, 15, & 16, ARE POSITIONED IN UTILITY TRENCHES ASSOCIATED WITH GAS, ELECTRIC, WASTE, & WATER LINES

SITE PLAN #1
SCALE : 1"=60'-0"



SOIL MECHANICS ENVIRONMENTAL SERVICES

subsoil investigations

3770 MERRICK ROAD * SEAFORD, NEW YORK 11783 * 516 - 221-7500

FIGURE #2 - ENGINEERING CONTROL LOCATION PLAN

IKEA BROOKLYN

BROOKLYN, NEW YORK

DRAWING DATE

AUGUST 11, 2020

DRAWING NUMBER

02L404

REVISION

JMR

SHEET 1 OF 1

Charts and Tables

**U.S. Dredging Shipyard Site
Tax Block 612, Lot 130
Brooklyn, New York
NYSDEC - BCP Number C224043**

**Table #1 – Soil Vapor Sampling Form
IKEA (BCP Site No. C224043)
1 Beard Street, Brooklyn, N.Y.
Quarterly Methane Monitoring Results**

Location/ID #	Leak Test (% He) ^	PID Readings**	CH ₄ *	CO ₂ *	O ₂ *	Lab Sample ID TO-15 Analysis
SVW-1	ND	0.0	0.0	5.8	12.7	C2307002-001A
SVW-2	ND	0.0	0.0	4.3	16.9	C2307002-003A
SVW-3	ND	3.1	0.0	8.5	2.3	C2307002-004A
SVW-4	ND	1.0	0.0	9.6	0.1	C2307002-005A
SVW-5	ND	0.0	0.0	0.4	17.3	C2307002-006A
SVW-6	ND	0.7	0.0	8.1	20.4	C2307002-007A
SVW-7	ND	0.0	0.0	1.1	18.1	C2307002-008A
SVW-8	ND	0.4	0.0	0.1	20.3	C2307002-009A
SVW-9	ND	1.3	0.0	0.6	19.7	C2307002-010A
SVW-10	ND	0.0	0.0	1.9	16.4	C2307002-011A
SVW-11	ND	1.0	0.0	1.0	11.4	C2307002-012A
SVW-12	ND	0.0	0.0	0.6	18.8	C2307002-013A
SVW-13	ND	0.0	77.4	0.2	0.1	C2307002-014A
SVW-14	ND	1.2	13.6	8.2	0.1	C2307002-015A
SVW-15	ND	1.2	0.0	4.5	4.2	C2307002-016A
SVW-16	ND	1.1	10.7	2.6	0.4	C2307002-017A

Date of work:

- 6/29/23

Weather:

- Partly cloudy, 68° F.; barometric pressure 30.01" Hg; winds from SW at ±8 MPH

Monitoring equipment utilized:

- (*) GEM 2000 Land fill Gas Analyzer; results reported in percent gas by volume
- (**) MiniRae 3000 Organic Vapor Analyzer; results reported in parts/million

Field Technicians:

- Dan Marzano, Dave Shencavitz and Steve Anderson

ND non-detect

PID photo ionization detector

^ Results of laboratory testing for the presence of helium (He) tracer gas

Table #2
IKEA (BCP Site No. C224043)
1 Beard Street, Brooklyn, N.Y.
Quarterly VOC Analysis
EPA Method TO-15

EPA Method TO-15	SVW-1	SVW-2	SVW-3	SVW-4	SVW-5	SVW-6	SVW-7	SVW-8
1,1,1-Trichloroethane	-	-	0.98	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	-	-	-	-	-	-	1.6	0.59
1,2-Dibromoethane	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	-	-	-	-	-	-	-	-
1,2-Dichloroethane	-	-	0.69	-	-	-	-	-
1,2-Dichloropropane	-	-	3.0	-	-	-	-	-
1,3,5-Trimethylbenzene	-	-	-	-	-	-	0.49	-
1,3-butadiene	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	-	-	2.9	-	-	-	0.84	0.84
1,4-Dichlorobenzene	-	-	0.78	4.0	-	-	-	-
1,4-Dioxane	-	-	-	-	-	-	-	-
2,2,4-trimethylpentane	-	-	-	4.3	-	-	0.56	1.1
4-ethyltoluene	-	-	-	-	-	-	-	-
Acetone	4.8	15	120	36	20	21	38	52
Allyl chloride	-	-	-	-	-	-	-	-
Benzene	0.73	2.4	1.4	1.7	0.89	1.8	2.3	2.0
Benzyl chloride	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	1.0	-	-	-	-	-
Bromofluorobenzene	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-
Bromomethane	-	-	-	-	-	-	-	-
Carbon disulfide	0.72	0.72	41	33	4.6	2.1	95	36
Carbon tetrachloride	6.5	2.2	-	-	-	-	-	-
Chlorobenzene	-	-	-	3.3	-	-	-	-
Chloroethane	-	-	1.1	-	-	-	-	-
Chloroform	2.4	0.88	13	-	1.2	0.68	11	0.83
Chloromethane	0.29	-	2.4	-	0.35	1.2	1.5	1.7
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	-	-	-	-	-	-	-	-
Cyclohexane	-	0.48	0.62	1.8	-	-	-	1.1
Dibromochloromethane	-	-	-	-	-	-	-	-
Ethyl acetate	-	0.86	0.97	0.97	0.58	0.58	1.2	7.6
Ethylbenzene	-	-	-	-	-	-	0.61	0.52
Freon 11	9.3	3.3	11	3.0	4.5	1.5	2.5	1.7
Freon 113	-	-	-	-	-	-	-	-
Freon 114	-	-	-	-	1.3	-	-	-
Freon 12	3.8	3.1	3.0	4.0	3.4	2.6	2.7	-
Heptane	-	0.49	-	0.53	-	0.45	0.66	2.8
Hexachloro-1,3-butadiene	-	-	-	-	-	-	-	1.6
Hexane	-	1.3	9.2	1.1	-	1.4	0.88	-
Isopropyl alcohol	3.7	8.4	9.8	11	6.9	4.7	4.5	4.9
m&p-Xylene	0.69	0.48	0.52	1.1	-	0.56	1.3	49
Methyl Butyl Ketone	-	-	-	-	-	-	-	1.4
Methyl Ethyl Ketone	0.94	2.0	4.4	2.3	0.97	1.7	2.1	-
Methyl Isobutyl Ketone	3.9	-	1.2	-	-	-	3.7	4.9
Methyl tert-butyl ether	-	-	-	-	-	-	-	1.6
Methylene chloride	0.45	0.80	1.0	0.80	1.0	0.90	0.90	-
o-Xylene	-	-	-	0.61	-	-	1.0	3.1
Propylene	-	-	-	-	-	-	-	0.65
Styrene	-	-	-	-	-	-	0.55	-
Tetrachloroethylene	1.2	3.9	4.2	0.95	1.3	1.3	-	0.47
Tetrahydrofuran	-	-	4.5	-	-	-	2.0	2.9
Toluene	0.90	2.2	1.8	5.2	1.3	1.7	5.3	4.7
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	7.9
trans-1,3-Dichloropropene	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-
Vinyl acetate	-	-	-	-	-	-	-	0.81
Vinyl Bromide	-	-	-	-	-	-	-	-
Vinyl chloride	-	-	-	-	-	-	-	-

Table #2 continued
IKEA (BCP Site No. C224043)
1 Beard Street, Brooklyn, N.Y.
Quarterly VOC Analysis
EPA Method TO-15

EPA Method TO-15	SVW-9	SVW-10	SVW-11	SVW-12	SVW-13	SVW-14	SVW-15	SVW-16	AS-1 up wind	AS-2 down wind
1,1,1-Trichloroethane	-	-	3.5	-	18	-	1.6	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	22	-	-	-	-	-
1,1,2-Trichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	-	-	0.54	-	-	21	-	10	-	-
1,2-Dibromoethane	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	-	-	-	-	-	8.8	-	4.7	-	-
1,3-butadiene	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	-	-	-	-	-	-	-	1.8	-	-
1,4-Dichlorobenzene	-	-	1.4	-	-	-	-	-	-	-
1,4-Dioxane	-	-	-	-	-	-	-	-	-	-
2,2,4-trimethylpentane	0.61	-	0.84	31	13	88	-	120	1.1	-
4-ethyltoluene	-	-	-	-	-	5.9	-	4.0	-	-
Acetone	17	44	41	53	44	76	31	110	15	15
Allyl chloride	-	-	-	0.81	-	-	-	-	-	-
Benzene	2.4	1.9	4.2	11	44	36	0.93	62	2.7	2.5
Benzyl chloride	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromofluorobenzene	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Bromomethane	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	1.1	11	1.1	480	2.8	16	28	24	0.59	0.75
Carbon tetrachloride	-	-	1.2	0.82	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	0.69	-	-
Chloroethane	0.37	-	0.32	0.66	2.6	1.4	-	1.2	-	-
Chloroform	0.83	18	7.2	2.8	1.6	-	4.9	16	-	-
Chloromethane	1.3	1.2	0.70	1.1	-	-	0.83	-	1.4	1.2
cis-1,2-Dichloroethene	-	-	-	-	1.7	17	-	3.6	0.71	-
cis-1,3-Dichloropropene	-	-	-	-	-	-	-	-	-	-
Cyclohexane	-	-	1.3	6.3	56	77	-	35	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
Ethyl acetate	1.5	1.7	1.2	1.1	-	-	0.97	-	3.1	1.7
Ethylbenzene	-	-	-	2.5	0.48	9.6	-	8.2	0.48	-
Freon 11	1.4	2.5	16	2.4	9.3	-	26	0.56	1.6	1.5
Freon 114	-	-	-	-	-	3.0	-	3.1	-	-
Freon 12	2.6	-	-	2.8	-	2.5	3.3	2.4	2.6	2.6
Heptane	-	3.0	2.7	4.2	-	54	0.41	9.4	0.82	0.49
Hexachloro-1,3-butadiene	-	0.45	0.57	-	19	-	-	-	-	-
Hexane	1.5	1.1	2.7	6.8	110	62	0.92	70	1.9	1.2
Isopropyl alcohol	9.3	11	13	10	-	72	9.6	20	15	7.2
m&p-Xylene	0.82	0.56	1.1	5.6	1.1	31	0.48	22	1.2	0.82
Methyl Butyl Ketone	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone	2.4	2.1	2.9	3.2	14	38	2.6	45	3.5	1.5
Methyl Isobutyl Ketone	0.61	-	1.2	9.6	0.98	140	1.1	16	-	0.53
Methyl tert-butyl ether	-	-	-	-	-	76	-	-	-	-
Methylene chloride	1.2	1.1	0.59	15	-	2.4	3.0	2.5	1.1	0.59
o-Xylene	-	-	0.48	3.0	0.65	15	-	8.2	0.56	-
Propylene	-	-	-	-	-	-	-	-	-	-
Styrene	-	-	-	1.1	-	3.9	-	5.5	-	-
Tetrachloroethylene	5.5	2.4	22	21	25	13	31	16	7.5	-
Tetrahydrofuran	0.32	0.88	1.1	20	-	49	1.4	61	0.91	0.53
Toluene	4.9	2.8	4.2	16	5.0	43	2.0	38	7.5	5.5
trans-1,2-Dichloroethene	-	-	-	-	-	5.3	-	-	-	-
trans-1,3-Dichloropropene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	2.7	1.9	12	10	0.81	8.1	0.64	-
Vinyl acetate	-	-	-	-	-	-	-	-	-	-
Vinyl Bromide	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	-	-	-	1.9	-	43	-	-	-	-
Vinyl chloride	-	-	-	-	-	-	-	-	-	-

All concentrations in ug/m³
AS ambient air sample
- below detection limit

Chart #1 - Methane Concentrations

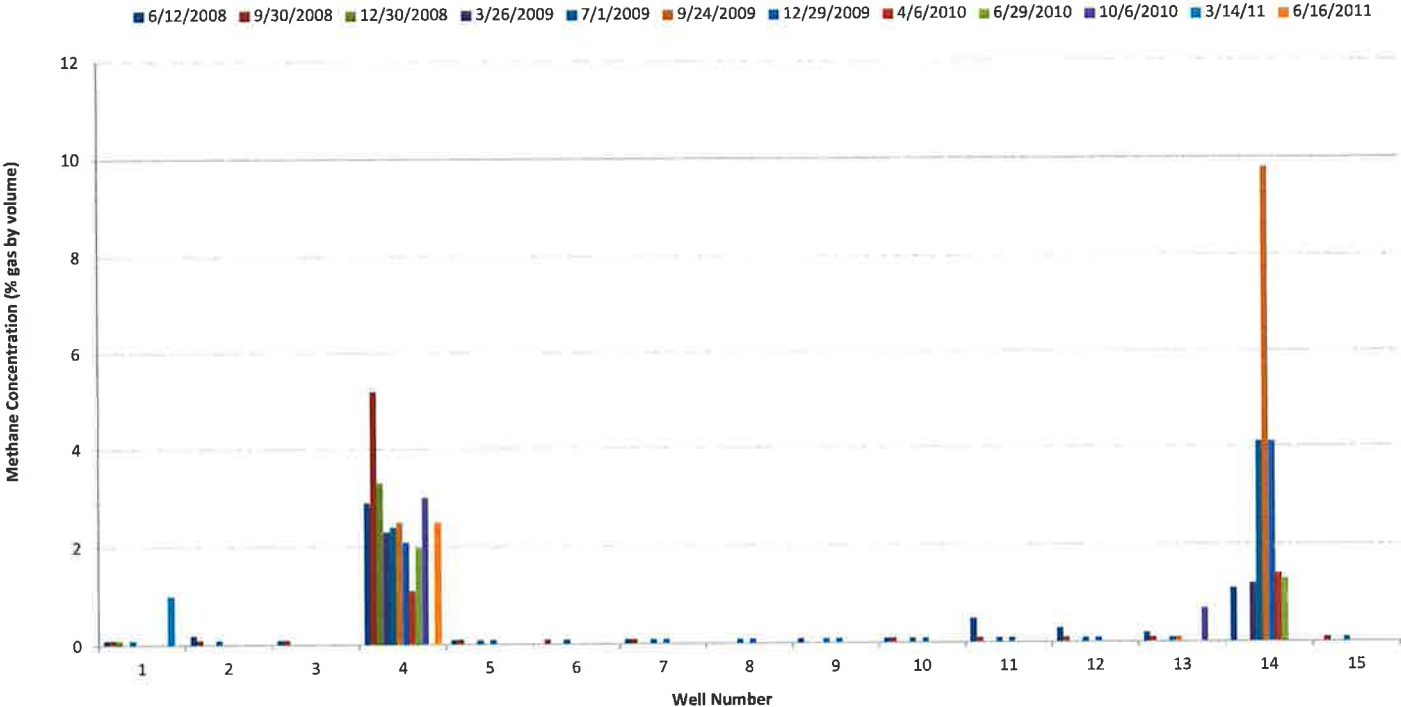


Chart #1 (Continued)- Methane Concentrations

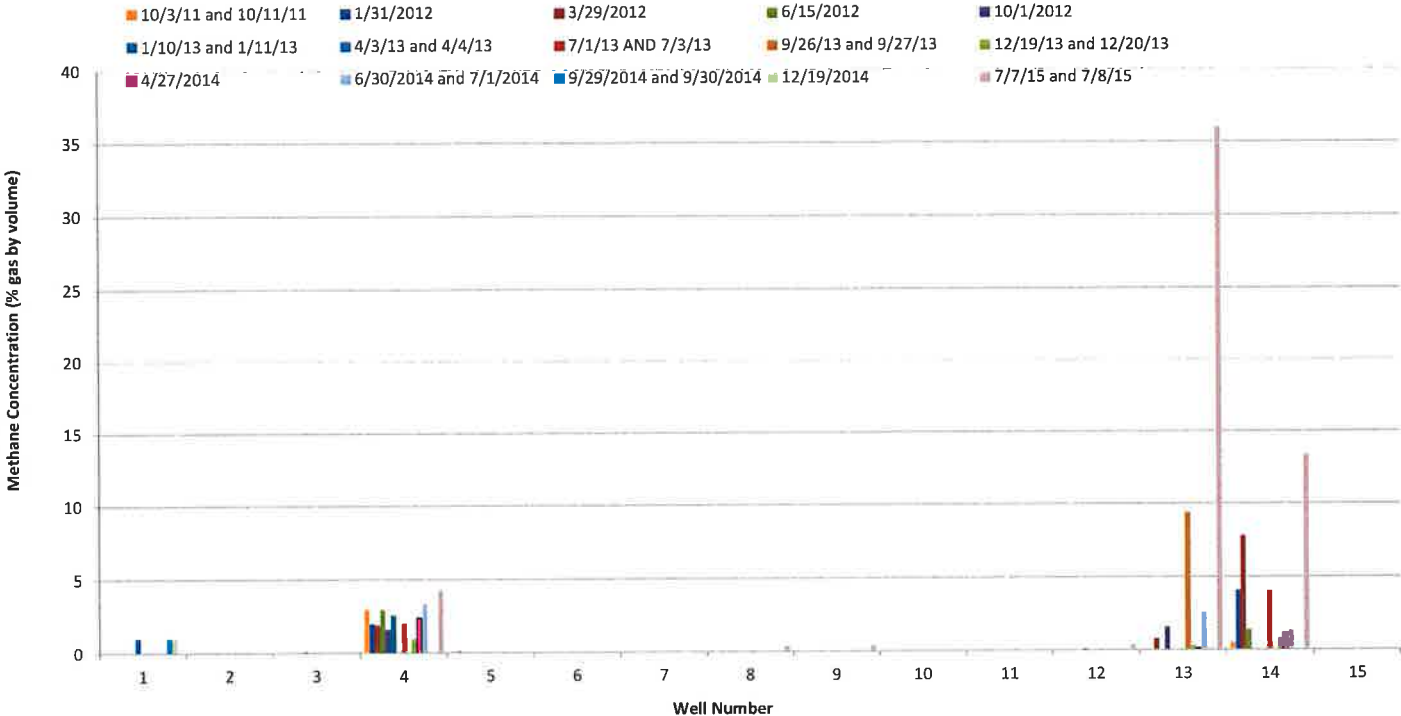
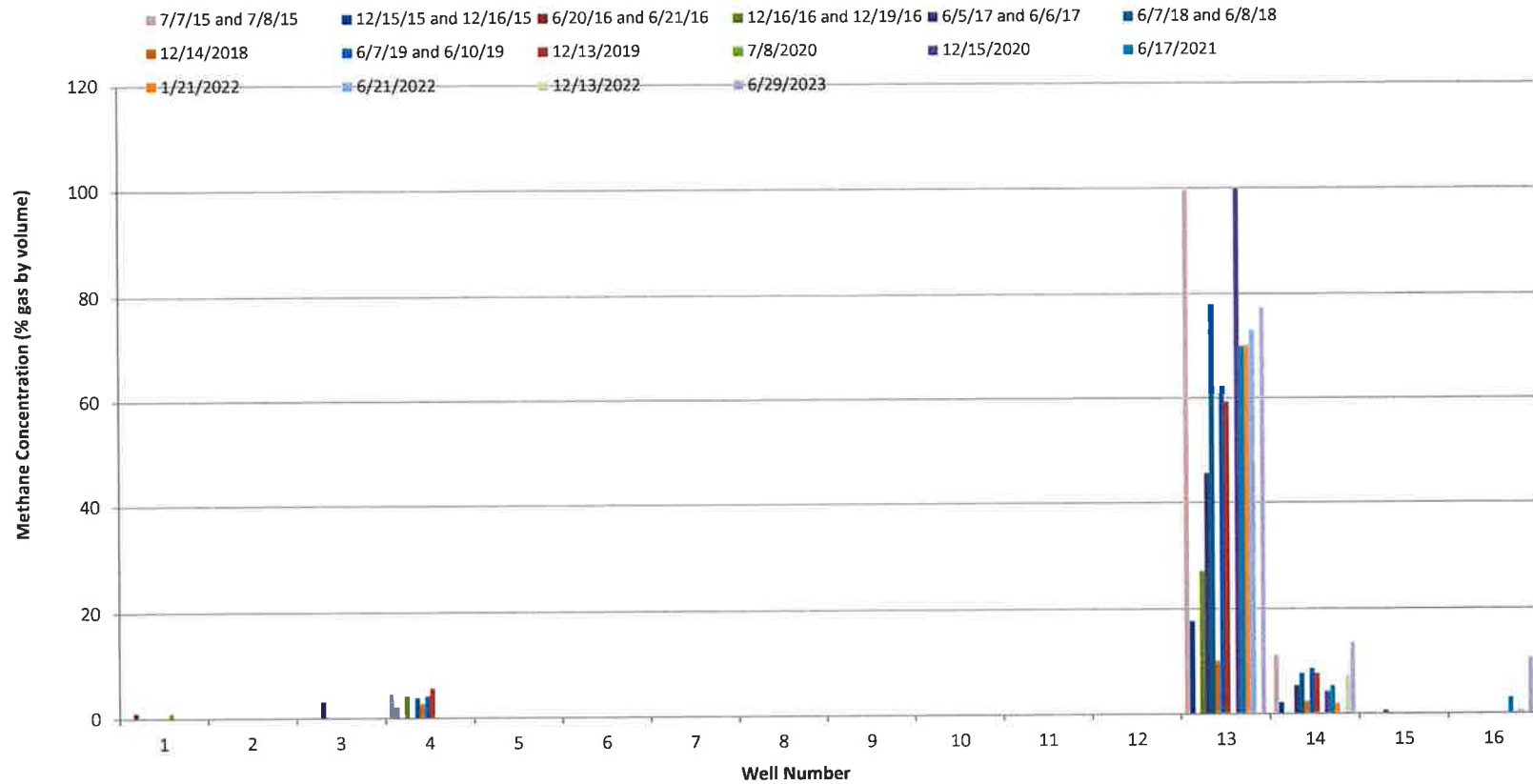


Chart #1 (Continued) - Methane Concentrations



Complete Laboratory Reports and Associated Chains of Custody

**U.S. Dredging Shipyard Site
Tax Block 612, Lot 130
Brooklyn, New York
NYSDEC - BCP Number C224043**

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-001A

Client Sample ID: SVW-1
Tag Number: 225,146
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 8:11:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 8:11:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 8:11:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 8:11:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:11:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 8:11:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 8:11:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 8:11:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:11:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 8:11:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 8:11:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 8:11:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 8:11:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:11:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:11:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 8:11:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 8:11:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 8:11:00 PM
Acetone	4.8	1.4		ug/m3	2	7/6/2023 6:12:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 8:11:00 PM
Benzene	0.73	0.48		ug/m3	1	7/5/2023 8:11:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 8:11:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 8:11:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 8:11:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 8:11:00 PM
Carbon disulfide	0.72	0.47		ug/m3	1	7/5/2023 8:11:00 PM
Carbon tetrachloride	6.5	0.94		ug/m3	1	7/5/2023 8:11:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 8:11:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 8:11:00 PM
Chloroform	2.4	0.73		ug/m3	1	7/5/2023 8:11:00 PM
Chloromethane	0.29	0.31	J	ug/m3	1	7/5/2023 8:11:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:11:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 8:11:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 8:11:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 8:11:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	7/5/2023 8:11:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 8:11:00 PM

Qualifiers:

DL Results reported are not blank corrected
 H Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-001A

Client Sample ID: SVW-1
Tag Number: 225,146
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	9.3	0.84		ug/m3	1	7/5/2023 8:11:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 8:11:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 8:11:00 PM
Freon 12	3.8	0.74		ug/m3	1	7/5/2023 8:11:00 PM
Heptane	< 0.61	0.61		ug/m3	1	7/5/2023 8:11:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 8:11:00 PM
Hexane	< 0.53	0.53		ug/m3	1	7/5/2023 8:11:00 PM
Isopropyl alcohol	3.7	0.37		ug/m3	1	7/5/2023 8:11:00 PM
m&p-Xylene	0.69	1.3	J	ug/m3	1	7/5/2023 8:11:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 8:11:00 PM
Methyl Ethyl Ketone	0.94	0.88		ug/m3	1	7/5/2023 8:11:00 PM
Methyl Isobutyl Ketone	3.9	1.2		ug/m3	1	7/5/2023 8:11:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 8:11:00 PM
Methylene chloride	0.45	0.52	J	ug/m3	1	7/5/2023 8:11:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 8:11:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 8:11:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 8:11:00 PM
Tetrachloroethylene	1.2	1.0		ug/m3	1	7/5/2023 8:11:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 8:11:00 PM
Toluene	0.90	0.57		ug/m3	1	7/5/2023 8:11:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:11:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 8:11:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 8:11:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 8:11:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 8:11:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 8:11:00 PM

Qualifiers:	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-002A

Client Sample ID: SVW-1 Dup
Tag Number: 233,146
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 8:55:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 8:55:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 8:55:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 8:55:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:55:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 8:55:00 PM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	7/5/2023 8:55:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 8:55:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:55:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 8:55:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 8:55:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 8:55:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 8:55:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:55:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:55:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 8:55:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 8:55:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 8:55:00 PM
Acetone	8.9	3.6		ug/m3	5	7/6/2023 6:54:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 8:55:00 PM
Benzene	0.80	0.48		ug/m3	1	7/5/2023 8:55:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 8:55:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 8:55:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 8:55:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 8:55:00 PM
Carbon disulfide	1.4	0.47		ug/m3	1	7/5/2023 8:55:00 PM
Carbon tetrachloride	6.7	0.94		ug/m3	1	7/5/2023 8:55:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 8:55:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 8:55:00 PM
Chloroform	2.4	0.73		ug/m3	1	7/5/2023 8:55:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	7/5/2023 8:55:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:55:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 8:55:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 8:55:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 8:55:00 PM
Ethyl acetate	0.58	0.54		ug/m3	1	7/5/2023 8:55:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 8:55:00 PM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-002A

Client Sample ID: SVW-1 Dup
Tag Number: 233,146
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	9.6	0.84		ug/m3	1	7/5/2023 8:55:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 8:55:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 8:55:00 PM
Freon 12	4.2	0.74		ug/m3	1	7/5/2023 8:55:00 PM
Heptane	0.41	0.61	J	ug/m3	1	7/5/2023 8:55:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 8:55:00 PM
Hexane	0.60	0.53		ug/m3	1	7/5/2023 8:55:00 PM
Isopropyl alcohol	9.1	1.8		ug/m3	5	7/6/2023 6:54:00 PM
m&p-Xylene	2.1	1.3		ug/m3	1	7/5/2023 8:55:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 8:55:00 PM
Methyl Ethyl Ketone	1.2	0.88		ug/m3	1	7/5/2023 8:55:00 PM
Methyl Isobutyl Ketone	8.0	6.1		ug/m3	5	7/6/2023 6:54:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 8:55:00 PM
Methylene chloride	0.66	0.52		ug/m3	1	7/5/2023 8:55:00 PM
o-Xylene	0.69	0.65		ug/m3	1	7/5/2023 8:55:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 8:55:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 8:55:00 PM
Tetrachloroethylene	1.2	1.0		ug/m3	1	7/5/2023 8:55:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 8:55:00 PM
Toluene	1.4	0.57		ug/m3	1	7/5/2023 8:55:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:55:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 8:55:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 8:55:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 8:55:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 8:55:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 8:55:00 PM

Qualifiers:

DL Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-003A

Client Sample ID: SVW-2
Tag Number: 102,1152
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 9:39:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 9:39:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 9:39:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 9:39:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 9:39:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 9:39:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 9:39:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 9:39:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 9:39:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 9:39:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 9:39:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 9:39:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 9:39:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 9:39:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 9:39:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 9:39:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 9:39:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 9:39:00 PM
Acetone	15	7.1		ug/m3	10	7/6/2023 7:37:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 9:39:00 PM
Benzene	2.4	0.48		ug/m3	1	7/5/2023 9:39:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 9:39:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 9:39:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 9:39:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 9:39:00 PM
Carbon disulfide	0.72	0.47		ug/m3	1	7/5/2023 9:39:00 PM
Carbon tetrachloride	2.2	0.94		ug/m3	1	7/5/2023 9:39:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 9:39:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 9:39:00 PM
Chloroform	0.88	0.73		ug/m3	1	7/5/2023 9:39:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	7/5/2023 9:39:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 9:39:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 9:39:00 PM
Cyclohexane	0.48	0.52	J	ug/m3	1	7/5/2023 9:39:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 9:39:00 PM
Ethyl acetate	0.86	0.54		ug/m3	1	7/5/2023 9:39:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 9:39:00 PM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-003A

Client Sample ID: SVW-2
Tag Number: 102,1152
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	3.3	0.84		ug/m3	1	7/5/2023 9:39:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 9:39:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 9:39:00 PM
Freon 12	3.1	0.74		ug/m3	1	7/5/2023 9:39:00 PM
Heptane	0.49	0.61	J	ug/m3	1	7/5/2023 9:39:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 9:39:00 PM
Hexane	1.3	0.53		ug/m3	1	7/5/2023 9:39:00 PM
Isopropyl alcohol	8.4	3.7		ug/m3	10	7/6/2023 7:37:00 PM
m&p-Xylene	0.48	1.3	J	ug/m3	1	7/5/2023 9:39:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 9:39:00 PM
Methyl Ethyl Ketone	2.0	0.88		ug/m3	1	7/5/2023 9:39:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 9:39:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 9:39:00 PM
Methylene chloride	0.80	0.52		ug/m3	1	7/5/2023 9:39:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 9:39:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 9:39:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 9:39:00 PM
Tetrachloroethylene	3.9	1.0		ug/m3	1	7/5/2023 9:39:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 9:39:00 PM
Toluene	2.2	0.57		ug/m3	1	7/5/2023 9:39:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 9:39:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 9:39:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 9:39:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 9:39:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 9:39:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 9:39:00 PM

Qualifiers:	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-004A

Client Sample ID: SVW-3
Tag Number: 203,1165
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	0.98	0.82		ug/m3	1	7/5/2023 10:24:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 10:24:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 10:24:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 10:24:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 10:24:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 10:24:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 10:24:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 10:24:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 10:24:00 PM
1,2-Dichloroethane	0.69	0.61		ug/m3	1	7/5/2023 10:24:00 PM
1,2-Dichloropropane	3.0	0.69		ug/m3	1	7/5/2023 10:24:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 10:24:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 10:24:00 PM
1,3-Dichlorobenzene	2.9	0.90		ug/m3	1	7/5/2023 10:24:00 PM
1,4-Dichlorobenzene	0.78	0.90	J	ug/m3	1	7/5/2023 10:24:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 10:24:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 10:24:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 10:24:00 PM
Acetone	120	28		ug/m3	40	7/6/2023 9:03:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 10:24:00 PM
Benzene	1.4	0.48		ug/m3	1	7/5/2023 10:24:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 10:24:00 PM
Bromodichloromethane	1.0	1.0		ug/m3	1	7/5/2023 10:24:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 10:24:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 10:24:00 PM
Carbon disulfide	41	4.7		ug/m3	10	7/6/2023 8:20:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 10:24:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 10:24:00 PM
Chloroethane	1.1	0.40		ug/m3	1	7/5/2023 10:24:00 PM
Chloroform	13	7.3		ug/m3	10	7/6/2023 8:20:00 PM
Chloromethane	2.4	0.31		ug/m3	1	7/5/2023 10:24:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 10:24:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 10:24:00 PM
Cyclohexane	0.62	0.52		ug/m3	1	7/5/2023 10:24:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 10:24:00 PM
Ethyl acetate	0.97	0.54		ug/m3	1	7/5/2023 10:24:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 10:24:00 PM

Qualifiers:

- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-004A

Client Sample ID: SVW-3
Tag Number: 203,1165
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	11	0.84		ug/m3	1	7/5/2023 10:24:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 10:24:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 10:24:00 PM
Freon 12	3.0	0.74		ug/m3	1	7/5/2023 10:24:00 PM
Heptane	< 0.61	0.61		ug/m3	1	7/5/2023 10:24:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 10:24:00 PM
Hexane	9.2	5.3		ug/m3	10	7/6/2023 8:20:00 PM
Isopropyl alcohol	9.8	3.7		ug/m3	10	7/6/2023 8:20:00 PM
m&p-Xylene	0.52	1.3	J	ug/m3	1	7/5/2023 10:24:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 10:24:00 PM
Methyl Ethyl Ketone	4.4	0.88		ug/m3	1	7/5/2023 10:24:00 PM
Methyl Isobutyl Ketone	1.2	1.2		ug/m3	1	7/5/2023 10:24:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 10:24:00 PM
Methylene chloride	1.0	0.52		ug/m3	1	7/5/2023 10:24:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 10:24:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 10:24:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 10:24:00 PM
Tetrachloroethylene	4.2	1.0		ug/m3	1	7/5/2023 10:24:00 PM
Tetrahydrofuran	4.5	0.44		ug/m3	1	7/5/2023 10:24:00 PM
Toluene	1.8	0.57		ug/m3	1	7/5/2023 10:24:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 10:24:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 10:24:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 10:24:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 10:24:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 10:24:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 10:24:00 PM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-4

Lab Order: C2307002

Tag Number: 367,172

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-005A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 11:08:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 11:08:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 11:08:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 11:08:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:08:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 11:08:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 11:08:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 11:08:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 11:08:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 11:08:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 11:08:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 11:08:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 11:08:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 11:08:00 PM
1,4-Dichlorobenzene	4.0	0.90		ug/m3	1	7/5/2023 11:08:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 11:08:00 PM
2,2,4-trimethylpentane	4.3	0.70		ug/m3	1	7/5/2023 11:08:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 11:08:00 PM
Acetone	36	7.1		ug/m3	10	7/6/2023 9:46:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 11:08:00 PM
Benzene	1.7	0.48		ug/m3	1	7/5/2023 11:08:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 11:08:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 11:08:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 11:08:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 11:08:00 PM
Carbon disulfide	33	4.7		ug/m3	10	7/6/2023 9:46:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 11:08:00 PM
Chlorobenzene	3.3	0.69		ug/m3	1	7/5/2023 11:08:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 11:08:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	7/5/2023 11:08:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	7/5/2023 11:08:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:08:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 11:08:00 PM
Cyclohexane	1.8	0.52		ug/m3	1	7/5/2023 11:08:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 11:08:00 PM
Ethyl acetate	0.97	0.54		ug/m3	1	7/5/2023 11:08:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 11:08:00 PM

Qualifiers:

* Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-005A

Client Sample ID: SVW-4
Tag Number: 367,172
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	3.0	0.84		ug/m3	1	7/5/2023 11:08:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 11:08:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 11:08:00 PM
Freon 12	4.0	0.74		ug/m3	1	7/5/2023 11:08:00 PM
Heptane	0.53	0.61	J	ug/m3	1	7/5/2023 11:08:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 11:08:00 PM
Hexane	1.1	0.53		ug/m3	1	7/5/2023 11:08:00 PM
Isopropyl alcohol	11	3.7		ug/m3	10	7/6/2023 9:46:00 PM
m&p-Xylene	1.1	1.3	J	ug/m3	1	7/5/2023 11:08:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 11:08:00 PM
Methyl Ethyl Ketone	2.3	0.88		ug/m3	1	7/5/2023 11:08:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 11:08:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 11:08:00 PM
Methylene chloride	0.80	0.52		ug/m3	1	7/5/2023 11:08:00 PM
o-Xylene	0.61	0.65	J	ug/m3	1	7/5/2023 11:08:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 11:08:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 11:08:00 PM
Tetrachloroethylene	0.95	1.0	J	ug/m3	1	7/5/2023 11:08:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 11:08:00 PM
Toluene	5.2	0.57		ug/m3	1	7/5/2023 11:08:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:08:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 11:08:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 11:08:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 11:08:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 11:08:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 11:08:00 PM

Qualifiers:

DL	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
H	Detection Limit	E	Estimated Value above quantitation range
JN	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
S	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-006A

Client Sample ID: SVW-5 MS/MSD
Tag Number: 218,1447
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 5:46:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 5:46:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 5:46:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 5:46:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:46:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 5:46:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 5:46:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 5:46:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:46:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 5:46:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 5:46:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 5:46:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 5:46:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:46:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:46:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 5:46:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 5:46:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 5:46:00 PM
Acetone	20	3.6		ug/m3	5	7/6/2023 5:29:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 5:46:00 PM
Benzene	0.89	0.48		ug/m3	1	7/5/2023 5:46:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 5:46:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 5:46:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 5:46:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 5:46:00 PM
Carbon disulfide	4.6	0.47		ug/m3	1	7/5/2023 5:46:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 5:46:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 5:46:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 5:46:00 PM
Chloroform	1.2	0.73		ug/m3	1	7/5/2023 5:46:00 PM
Chloromethane	0.35	0.31		ug/m3	1	7/5/2023 5:46:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:46:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 5:46:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 5:46:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 5:46:00 PM
Ethyl acetate	0.58	0.54		ug/m3	1	7/5/2023 5:46:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 5:46:00 PM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-006A

Client Sample ID: SVW-5 MS/MSD
Tag Number: 218,1447
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	4.5	0.84		ug/m3	1	7/5/2023 5:46:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 5:46:00 PM
Freon 114	1.3	1.0		ug/m3	1	7/5/2023 5:46:00 PM
Freon 12	3.4	0.74		ug/m3	1	7/5/2023 5:46:00 PM
Heptane	< 0.61	0.61		ug/m3	1	7/5/2023 5:46:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 5:46:00 PM
Hexane	< 0.53	0.53		ug/m3	1	7/5/2023 5:46:00 PM
Isopropyl alcohol	6.9	1.8		ug/m3	5	7/6/2023 5:29:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	7/5/2023 5:46:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 5:46:00 PM
Methyl Ethyl Ketone	0.97	0.88		ug/m3	1	7/5/2023 5:46:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 5:46:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 5:46:00 PM
Methylene chloride	1.0	0.52		ug/m3	1	7/5/2023 5:46:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 5:46:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 5:46:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 5:46:00 PM
Tetrachloroethylene	1.3	1.0		ug/m3	1	7/5/2023 5:46:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 5:46:00 PM
Toluene	1.3	0.57		ug/m3	1	7/5/2023 5:46:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:46:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 5:46:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 5:46:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 5:46:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 5:46:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 5:46:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-007A

Client Sample ID: SVW-6
Tag Number: 1184,173
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST						
			GC		Analyst: RJP	
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15						
			TO-15		Analyst: RJP	
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 11:53:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 11:53:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 11:53:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 11:53:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:53:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 11:53:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 11:53:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 11:53:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 11:53:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 11:53:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 11:53:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 11:53:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 11:53:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 11:53:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 11:53:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 11:53:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 11:53:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 11:53:00 PM
Acetone	21	7.1		ug/m3	10	7/6/2023 10:28:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 11:53:00 PM
Benzene	1.8	0.48		ug/m3	1	7/5/2023 11:53:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 11:53:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 11:53:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 11:53:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 11:53:00 PM
Carbon disulfide	2.1	0.47		ug/m3	1	7/5/2023 11:53:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 11:53:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 11:53:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 11:53:00 PM
Chloroform	0.68	0.73	J	ug/m3	1	7/5/2023 11:53:00 PM
Chloromethane	1.2	0.31		ug/m3	1	7/5/2023 11:53:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:53:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 11:53:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 11:53:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 11:53:00 PM
Ethyl acetate	0.58	0.54		ug/m3	1	7/5/2023 11:53:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 11:53:00 PM

Qualifiers:

DL	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
H	Detection Limit	E	Estimated Value above quantitation range
JN	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
S	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-007A

Client Sample ID: SVW-6
Tag Number: 1184,173
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	1.5	0.84		ug/m3	1	7/5/2023 11:53:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 11:53:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 11:53:00 PM
Freon 12	2.6	0.74		ug/m3	1	7/5/2023 11:53:00 PM
Heptane	0.45	0.61	J	ug/m3	1	7/5/2023 11:53:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 11:53:00 PM
Hexane	1.4	0.53		ug/m3	1	7/5/2023 11:53:00 PM
Isopropyl alcohol	4.7	0.37		ug/m3	1	7/5/2023 11:53:00 PM
m&p-Xylene	0.56	1.3	J	ug/m3	1	7/5/2023 11:53:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 11:53:00 PM
Methyl Ethyl Ketone	1.7	0.88		ug/m3	1	7/5/2023 11:53:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 11:53:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 11:53:00 PM
Methylene chloride	0.90	0.52		ug/m3	1	7/5/2023 11:53:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 11:53:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 11:53:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 11:53:00 PM
Tetrachloroethylene	1.3	1.0		ug/m3	1	7/5/2023 11:53:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 11:53:00 PM
Toluene	1.7	0.57		ug/m3	1	7/5/2023 11:53:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:53:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 11:53:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 11:53:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 11:53:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 11:53:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 11:53:00 PM

Qualifiers:

DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-008A

Client Sample ID: SVW-7
Tag Number: 83,184
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST						
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15						
			GC			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 12:37:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 12:37:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 12:37:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 12:37:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 12:37:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 12:37:00 AM
1,2,4-Trimethylbenzene	1.6	0.74		ug/m3	1	7/6/2023 12:37:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 12:37:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 12:37:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 12:37:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 12:37:00 AM
1,3,5-Trimethylbenzene	0.49	0.74	J	ug/m3	1	7/6/2023 12:37:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 12:37:00 AM
1,3-Dichlorobenzene	0.84	0.90	J	ug/m3	1	7/6/2023 12:37:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 12:37:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 12:37:00 AM
2,2,4-trimethylpentane	0.56	0.70	J	ug/m3	1	7/6/2023 12:37:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 12:37:00 AM
Acetone	38	7.1		ug/m3	10	7/6/2023 11:11:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 12:37:00 AM
Benzene	2.3	0.48		ug/m3	1	7/6/2023 12:37:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 12:37:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 12:37:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 12:37:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 12:37:00 AM
Carbon disulfide	95	19		ug/m3	40	7/6/2023 11:54:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 12:37:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 12:37:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	7/6/2023 12:37:00 AM
Chloroform	11	7.3		ug/m3	10	7/6/2023 11:11:00 PM
Chloromethane	1.5	0.31		ug/m3	1	7/6/2023 12:37:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 12:37:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 12:37:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/6/2023 12:37:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 12:37:00 AM
Ethyl acetate	1.2	0.54		ug/m3	1	7/6/2023 12:37:00 AM
Ethylbenzene	0.61	0.65	J	ug/m3	1	7/6/2023 12:37:00 AM

Qualifiers:

DL	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
H	Detection Limit	E	Estimated Value above quantitation range
JN	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
S	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-008A

Client Sample ID: SVW-7
Tag Number: 83,184
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	2.5	0.84		ug/m3	1	7/6/2023 12:37:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 12:37:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 12:37:00 AM
Freon 12	2.7	0.74		ug/m3	1	7/6/2023 12:37:00 AM
Heptane	0.66	0.61		ug/m3	1	7/6/2023 12:37:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 12:37:00 AM
Hexane	0.88	0.53		ug/m3	1	7/6/2023 12:37:00 AM
Isopropyl alcohol	4.5	0.37		ug/m3	1	7/6/2023 12:37:00 AM
m&p-Xylene	1.3	1.3		ug/m3	1	7/6/2023 12:37:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 12:37:00 AM
Methyl Ethyl Ketone	2.1	0.88		ug/m3	1	7/6/2023 12:37:00 AM
Methyl Isobutyl Ketone	3.7	1.2		ug/m3	1	7/6/2023 12:37:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 12:37:00 AM
Methylene chloride	0.90	0.52		ug/m3	1	7/6/2023 12:37:00 AM
o-Xylene	1.0	0.65		ug/m3	1	7/6/2023 12:37:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 12:37:00 AM
Styrene	0.55	0.64	J	ug/m3	1	7/6/2023 12:37:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	7/6/2023 12:37:00 AM
Tetrahydrofuran	2.0	0.44		ug/m3	1	7/6/2023 12:37:00 AM
Toluene	5.3	0.57		ug/m3	1	7/6/2023 12:37:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 12:37:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 12:37:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/6/2023 12:37:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 12:37:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 12:37:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 12:37:00 AM

Qualifiers:

DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-009A

Client Sample ID: SVW-8
Tag Number: 561,1163
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST						
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15						
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 1:21:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 1:21:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 1:21:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 1:21:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 1:21:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 1:21:00 AM
1,2,4-Trimethylbenzene	0.59	0.74	J	ug/m3	1	7/6/2023 1:21:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 1:21:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 1:21:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 1:21:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 1:21:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 1:21:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 1:21:00 AM
1,3-Dichlorobenzene	0.84	0.90	J	ug/m3	1	7/6/2023 1:21:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 1:21:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 1:21:00 AM
2,2,4-trimethylpentane	1.1	0.70		ug/m3	1	7/6/2023 1:21:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 1:21:00 AM
Acetone	52	28		ug/m3	40	7/7/2023 1:19:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 1:21:00 AM
Benzene	2.0	0.48		ug/m3	1	7/6/2023 1:21:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 1:21:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 1:21:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 1:21:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 1:21:00 AM
Carbon disulfide	36	4.7		ug/m3	10	7/7/2023 12:37:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 1:21:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 1:21:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	7/6/2023 1:21:00 AM
Chloroform	0.83	0.73		ug/m3	1	7/6/2023 1:21:00 AM
Chloromethane	1.7	0.31		ug/m3	1	7/6/2023 1:21:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 1:21:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 1:21:00 AM
Cyclohexane	1.1	0.52		ug/m3	1	7/6/2023 1:21:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 1:21:00 AM
Ethyl acetate	7.6	5.4		ug/m3	10	7/7/2023 12:37:00 AM
Ethylbenzene	0.52	0.65	J	ug/m3	1	7/6/2023 1:21:00 AM

Qualifiers:	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-009A

Client Sample ID: SVW-8
Tag Number: 561,1163
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	1.7	0.84		ug/m3	1	7/6/2023 1:21:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 1:21:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 1:21:00 AM
Freon 12	2.8	0.74		ug/m3	1	7/6/2023 1:21:00 AM
Heptane	1.6	0.61		ug/m3	1	7/6/2023 1:21:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 1:21:00 AM
Hexane	4.9	0.53		ug/m3	1	7/6/2023 1:21:00 AM
Isopropyl alcohol	49	3.7		ug/m3	10	7/7/2023 12:37:00 AM
m&p-Xylene	1.4	1.3		ug/m3	1	7/6/2023 1:21:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 1:21:00 AM
Methyl Ethyl Ketone	4.9	0.88		ug/m3	1	7/6/2023 1:21:00 AM
Methyl Isobutyl Ketone	1.6	1.2		ug/m3	1	7/6/2023 1:21:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 1:21:00 AM
Methylene chloride	3.1	0.52		ug/m3	1	7/6/2023 1:21:00 AM
o-Xylene	0.65	0.65		ug/m3	1	7/6/2023 1:21:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 1:21:00 AM
Styrene	0.47	0.64	J	ug/m3	1	7/6/2023 1:21:00 AM
Tetrachloroethylene	2.9	1.0		ug/m3	1	7/6/2023 1:21:00 AM
Tetrahydrofuran	4.7	4.4		ug/m3	10	7/7/2023 12:37:00 AM
Toluene	7.9	5.7		ug/m3	10	7/7/2023 12:37:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 1:21:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 1:21:00 AM
Trichloroethene	0.81	0.81		ug/m3	1	7/6/2023 1:21:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 1:21:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 1:21:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 1:21:00 AM

Qualifiers:

DL	Detection Limit	B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded	E	Estimated Value above quantitation range
JN	Non-routine analyte. Quantitation estimated.	J	Analyte detected below quantitation limit
S	Spike Recovery outside accepted recovery limits	ND	Not Detected at the Limit of Detection
		SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-010A

Client Sample ID: SVW-9
Tag Number: 96,175
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST						
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15						
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 2:05:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 2:05:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 2:05:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 2:05:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:05:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 2:05:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 2:05:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 2:05:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:05:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 2:05:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 2:05:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 2:05:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 2:05:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:05:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:05:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 2:05:00 AM
2,2,4-trimethylpentane	0.61	0.70	J	ug/m3	1	7/6/2023 2:05:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 2:05:00 AM
Acetone	17	7.1		ug/m3	10	7/7/2023 2:02:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 2:05:00 AM
Benzene	2.4	0.48		ug/m3	1	7/6/2023 2:05:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 2:05:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 2:05:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 2:05:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 2:05:00 AM
Carbon disulfide	1.1	0.47		ug/m3	1	7/6/2023 2:05:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 2:05:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 2:05:00 AM
Chloroethane	0.37	0.40	J	ug/m3	1	7/6/2023 2:05:00 AM
Chloroform	0.83	0.73		ug/m3	1	7/6/2023 2:05:00 AM
Chloromethane	1.3	0.31		ug/m3	1	7/6/2023 2:05:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:05:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 2:05:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/6/2023 2:05:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 2:05:00 AM
Ethyl acetate	1.5	0.54		ug/m3	1	7/6/2023 2:05:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/6/2023 2:05:00 AM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-010A

Client Sample ID: SVW-9
Tag Number: 96,175
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	1.4	0.84		ug/m3	1	7/6/2023 2:05:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 2:05:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 2:05:00 AM
Freon 12	2.6	0.74		ug/m3	1	7/6/2023 2:05:00 AM
Heptane	< 0.61	0.61		ug/m3	1	7/6/2023 2:05:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 2:05:00 AM
Hexane	1.5	0.53		ug/m3	1	7/6/2023 2:05:00 AM
Isopropyl alcohol	9.3	3.7		ug/m3	10	7/7/2023 2:02:00 AM
m&p-Xylene	0.82	1.3	J	ug/m3	1	7/6/2023 2:05:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 2:05:00 AM
Methyl Ethyl Ketone	2.4	0.88		ug/m3	1	7/6/2023 2:05:00 AM
Methyl Isobutyl Ketone	0.61	1.2	J	ug/m3	1	7/6/2023 2:05:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 2:05:00 AM
Methylene chloride	1.2	0.52		ug/m3	1	7/6/2023 2:05:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	7/6/2023 2:05:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 2:05:00 AM
Styrene	< 0.64	0.64		ug/m3	1	7/6/2023 2:05:00 AM
Tetrachloroethylene	5.5	1.0		ug/m3	1	7/6/2023 2:05:00 AM
Tetrahydrofuran	0.32	0.44	J	ug/m3	1	7/6/2023 2:05:00 AM
Toluene	4.9	0.57		ug/m3	1	7/6/2023 2:05:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:05:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 2:05:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/6/2023 2:05:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 2:05:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 2:05:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 2:05:00 AM

Qualifiers:

DL	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
H	Detection Limit	E	Estimated Value above quantitation range
JN	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
S	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-10

Lab Order: C2307002

Tag Number: 205,180

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-011A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 2:50:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 2:50:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 2:50:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 2:50:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:50:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 2:50:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 2:50:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 2:50:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:50:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 2:50:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 2:50:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 2:50:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 2:50:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:50:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:50:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 2:50:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/6/2023 2:50:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 2:50:00 AM
Acetone	44	7.1		ug/m3	10	7/7/2023 2:45:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 2:50:00 AM
Benzene	1.9	0.48		ug/m3	1	7/6/2023 2:50:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 2:50:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 2:50:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 2:50:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 2:50:00 AM
Carbon disulfide	11	4.7		ug/m3	10	7/7/2023 2:45:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 2:50:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 2:50:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	7/6/2023 2:50:00 AM
Chloroform	18	7.3		ug/m3	10	7/7/2023 2:45:00 AM
Chloromethane	1.2	0.31		ug/m3	1	7/6/2023 2:50:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:50:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 2:50:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/6/2023 2:50:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 2:50:00 AM
Ethyl acetate	1.7	0.54		ug/m3	1	7/6/2023 2:50:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/6/2023 2:50:00 AM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-011A

Client Sample ID: SVW-10
Tag Number: 205,180
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	2.5	0.84		ug/m3	1	7/6/2023 2:50:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 2:50:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 2:50:00 AM
Freon 12	3.0	0.74		ug/m3	1	7/6/2023 2:50:00 AM
Heptane	0.45	0.61	J	ug/m3	1	7/6/2023 2:50:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 2:50:00 AM
Hexane	1.1	0.53		ug/m3	1	7/6/2023 2:50:00 AM
Isopropyl alcohol	11	3.7		ug/m3	10	7/7/2023 2:45:00 AM
m&p-Xylene	0.56	1.3	J	ug/m3	1	7/6/2023 2:50:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 2:50:00 AM
Methyl Ethyl Ketone	2.1	0.88		ug/m3	1	7/6/2023 2:50:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 2:50:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 2:50:00 AM
Methylene chloride	1.1	0.52		ug/m3	1	7/6/2023 2:50:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	7/6/2023 2:50:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 2:50:00 AM
Styrene	< 0.64	0.64		ug/m3	1	7/6/2023 2:50:00 AM
Tetrachloroethylene	2.4	1.0		ug/m3	1	7/6/2023 2:50:00 AM
Tetrahydrofuran	0.88	0.44		ug/m3	1	7/6/2023 2:50:00 AM
Toluene	2.8	0.57		ug/m3	1	7/6/2023 2:50:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:50:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 2:50:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/6/2023 2:50:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 2:50:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 2:50:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 2:50:00 AM

Qualifiers:

DL	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
H	Detection Limit	E	Estimated Value above quantitation range
JN	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
S	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-11

Lab Order: C2307002

Tag Number: 1190,381

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-012A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	3.5	0.82		ug/m3	1	7/6/2023 3:34:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 3:34:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 3:34:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 3:34:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 3:34:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 3:34:00 AM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	7/6/2023 3:34:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 3:34:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 3:34:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 3:34:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 3:34:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 3:34:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 3:34:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 3:34:00 AM
1,4-Dichlorobenzene	1.4	0.90		ug/m3	1	7/6/2023 3:34:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 3:34:00 AM
2,2,4-trimethylpentane	0.84	0.70		ug/m3	1	7/6/2023 3:34:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 3:34:00 AM
Acetone	41	7.1		ug/m3	10	7/7/2023 3:28:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 3:34:00 AM
Benzene	4.2	0.48		ug/m3	1	7/6/2023 3:34:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 3:34:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 3:34:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 3:34:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 3:34:00 AM
Carbon disulfide	1.1	0.47		ug/m3	1	7/6/2023 3:34:00 AM
Carbon tetrachloride	1.2	0.94		ug/m3	1	7/6/2023 3:34:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 3:34:00 AM
Chloroethane	0.32	0.40	J	ug/m3	1	7/6/2023 3:34:00 AM
Chloroform	7.2	0.73		ug/m3	1	7/6/2023 3:34:00 AM
Chloromethane	0.70	0.31		ug/m3	1	7/6/2023 3:34:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 3:34:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 3:34:00 AM
Cyclohexane	1.3	0.52		ug/m3	1	7/6/2023 3:34:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 3:34:00 AM
Ethyl acetate	1.2	0.54		ug/m3	1	7/6/2023 3:34:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/6/2023 3:34:00 AM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-012A

Client Sample ID: SVW-11
Tag Number: 1190,381
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	16	8.4		ug/m3	10	7/7/2023 3:28:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 3:34:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 3:34:00 AM
Freon 12	2.7	0.74		ug/m3	1	7/6/2023 3:34:00 AM
Heptane	0.57	0.61	J	ug/m3	1	7/6/2023 3:34:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 3:34:00 AM
Hexane	2.7	0.53		ug/m3	1	7/6/2023 3:34:00 AM
Isopropyl alcohol	13	3.7		ug/m3	10	7/7/2023 3:28:00 AM
m&p-Xylene	1.1	1.3	J	ug/m3	1	7/6/2023 3:34:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 3:34:00 AM
Methyl Ethyl Ketone	2.9	0.88		ug/m3	1	7/6/2023 3:34:00 AM
Methyl Isobutyl Ketone	1.2	1.2	J	ug/m3	1	7/6/2023 3:34:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 3:34:00 AM
Methylene chloride	0.59	0.52		ug/m3	1	7/6/2023 3:34:00 AM
o-Xylene	0.48	0.65	J	ug/m3	1	7/6/2023 3:34:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 3:34:00 AM
Styrene	< 0.64	0.64		ug/m3	1	7/6/2023 3:34:00 AM
Tetrachloroethylene	22	10		ug/m3	10	7/7/2023 3:28:00 AM
Tetrahydrofuran	1.1	0.44		ug/m3	1	7/6/2023 3:34:00 AM
Toluene	4.2	0.57		ug/m3	1	7/6/2023 3:34:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 3:34:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 3:34:00 AM
Trichloroethene	2.7	0.81		ug/m3	1	7/6/2023 3:34:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 3:34:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 3:34:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 3:34:00 AM

Qualifiers:

	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-013A

Client Sample ID: SVW-12
Tag Number: 318,153
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 4:18:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 4:18:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 4:18:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 4:18:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 4:18:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 4:18:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 4:18:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 4:18:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 4:18:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 4:18:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 4:18:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 4:18:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 4:18:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 4:18:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 4:18:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 4:18:00 AM
2,2,4-trimethylpentane	31	6.5		ug/m3	9	7/7/2023 11:03:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 4:18:00 AM
Acetone	53	64	J	ug/m3	90	7/7/2023 11:46:00 AM
Allyl chloride	0.81	0.47		ug/m3	1	7/6/2023 4:18:00 AM
Benzene	11	4.5		ug/m3	9	7/7/2023 11:03:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 4:18:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 4:18:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 4:18:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 4:18:00 AM
Carbon disulfide	480	44		ug/m3	90	7/7/2023 11:46:00 AM
Carbon tetrachloride	0.82	0.94	J	ug/m3	1	7/6/2023 4:18:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 4:18:00 AM
Chloroethane	0.66	0.40		ug/m3	1	7/6/2023 4:18:00 AM
Chloroform	2.8	0.73		ug/m3	1	7/6/2023 4:18:00 AM
Chloromethane	1.1	0.31		ug/m3	1	7/6/2023 4:18:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 4:18:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 4:18:00 AM
Cyclohexane	6.3	0.52		ug/m3	1	7/6/2023 4:18:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 4:18:00 AM
Ethyl acetate	1.1	0.54		ug/m3	1	7/6/2023 4:18:00 AM
Ethylbenzene	2.5	0.65		ug/m3	1	7/6/2023 4:18:00 AM

Qualifiers:	<ul style="list-style-type: none"> Results reported are not blank corrected DL Detection Limit H Holding times for preparation or analysis exceeded JN Non-routine analyte. Quantitation estimated. S Spike Recovery outside accepted recovery limits 	<ul style="list-style-type: none"> B Analyte detected in the associated Method Blank E Estimated Value above quantitation range J Analyte detected below quantitation limit ND Not Detected at the Limit of Detection SC Sub-Contracted
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Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-013A

Client Sample ID: SVW-12
Tag Number: 318,153
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	2.4	0.84		ug/m3	1	7/6/2023 4:18:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 4:18:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 4:18:00 AM
Freon 12	2.8	0.74		ug/m3	1	7/6/2023 4:18:00 AM
Heptane	4.2	0.61		ug/m3	1	7/6/2023 4:18:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 4:18:00 AM
Hexane	6.8	0.53		ug/m3	1	7/6/2023 4:18:00 AM
Isopropyl alcohol	10	3.4		ug/m3	9	7/7/2023 11:03:00 AM
m&p-Xylene	5.6	1.3		ug/m3	1	7/6/2023 4:18:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 4:18:00 AM
Methyl Ethyl Ketone	3.2	0.88		ug/m3	1	7/6/2023 4:18:00 AM
Methyl Isobutyl Ketone	9.6	11	J	ug/m3	9	7/7/2023 11:03:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 4:18:00 AM
Methylene chloride	15	4.9		ug/m3	9	7/7/2023 11:03:00 AM
o-Xylene	3.0	0.65		ug/m3	1	7/6/2023 4:18:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 4:18:00 AM
Styrene	1.1	0.64		ug/m3	1	7/6/2023 4:18:00 AM
Tetrachloroethylene	21	9.5		ug/m3	9	7/7/2023 11:03:00 AM
Tetrahydrofuran	20	4.1		ug/m3	9	7/7/2023 11:03:00 AM
Toluene	16	5.3		ug/m3	9	7/7/2023 11:03:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 4:18:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 4:18:00 AM
Trichloroethene	1.9	0.81		ug/m3	1	7/6/2023 4:18:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 4:18:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 4:18:00 AM
Vinyl chloride	1.9	0.38		ug/m3	1	7/6/2023 4:18:00 AM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-014A

Client Sample ID: SVW-13
Tag Number: 128,250
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST						
			GC		Analyst: RJP	
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15						
			TO-15		Analyst: RJP	
1,1,1-Trichloroethane	18	0.82		ug/m3	1	7/6/2023 5:02:00 AM
1,1,1-Trichloroethane	22	8.2		ug/m3	10	7/7/2023 12:30:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 5:02:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 5:02:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 5:02:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 5:02:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 5:02:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 5:02:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 5:02:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 5:02:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 5:02:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 5:02:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 5:02:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 5:02:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 5:02:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 5:02:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 5:02:00 AM
2,2,4-trimethylpentane	13	7.0		ug/m3	10	7/7/2023 12:30:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 5:02:00 AM
Acetone	44	28		ug/m3	40	7/7/2023 1:42:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 5:02:00 AM
Benzene	44	4.8		ug/m3	10	7/7/2023 12:30:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 5:02:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 5:02:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 5:02:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 5:02:00 AM
Carbon disulfide	2.8	0.47		ug/m3	1	7/6/2023 5:02:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 5:02:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 5:02:00 AM
Chloroethane	2.6	0.40		ug/m3	1	7/6/2023 5:02:00 AM
Chloroform	1.6	0.73		ug/m3	1	7/6/2023 5:02:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	7/6/2023 5:02:00 AM
cis-1,2-Dichloroethene	1.7	0.59		ug/m3	1	7/6/2023 5:02:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 5:02:00 AM
Cyclohexane	56	5.2		ug/m3	10	7/7/2023 12:30:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 5:02:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	7/6/2023 5:02:00 AM

Qualifiers:	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-014A

Client Sample ID: SVW-13
Tag Number: 128,250
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Ethylbenzene	0.48	0.65	J	ug/m3	1	7/6/2023 5:02:00 AM
Freon 11	9.3	0.84		ug/m3	1	7/6/2023 5:02:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 5:02:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 5:02:00 AM
Freon 12	< 0.74	0.74		ug/m3	1	7/6/2023 5:02:00 AM
Heptane	19	6.1		ug/m3	10	7/7/2023 12:30:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 5:02:00 AM
Hexane	110	21		ug/m3	40	7/7/2023 1:42:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	7/6/2023 5:02:00 AM
m&p-Xylene	1.1	1.3	J	ug/m3	1	7/6/2023 5:02:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 5:02:00 AM
Methyl Ethyl Ketone	14	8.8		ug/m3	10	7/7/2023 12:30:00 PM
Methyl Isobutyl Ketone	0.98	1.2	J	ug/m3	1	7/6/2023 5:02:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 5:02:00 AM
Methylene chloride	< 0.52	0.52		ug/m3	1	7/6/2023 5:02:00 AM
o-Xylene	0.65	0.65		ug/m3	1	7/6/2023 5:02:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 5:02:00 AM
Styrene	< 0.64	0.64		ug/m3	1	7/6/2023 5:02:00 AM
Tetrachloroethylene	25	10		ug/m3	10	7/7/2023 12:30:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/6/2023 5:02:00 AM
Toluene	5.0	0.57		ug/m3	1	7/6/2023 5:02:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 5:02:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 5:02:00 AM
Trichloroethene	12	8.1		ug/m3	10	7/7/2023 12:30:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 5:02:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 5:02:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 5:02:00 AM

Qualifiers:

DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-015A

Client Sample ID: SVW-14
Tag Number: 241,177
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST						
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15						
			GC			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 10:58:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 10:58:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 10:58:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 10:58:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 10:58:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 10:58:00 AM
1,2,4-Trimethylbenzene	21	7.4		ug/m3	10	7/7/2023 2:25:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 10:58:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 10:58:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 10:58:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 10:58:00 AM
1,3,5-Trimethylbenzene	8.8	7.4		ug/m3	10	7/7/2023 2:25:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 10:58:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 10:58:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 10:58:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 10:58:00 AM
2,2,4-trimethylpentane	88	7.0		ug/m3	10	7/7/2023 2:25:00 PM
4-ethyltoluene	5.9	0.74		ug/m3	1	7/6/2023 10:58:00 AM
Acetone	76	28		ug/m3	40	7/7/2023 3:08:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 10:58:00 AM
Benzene	36	4.8		ug/m3	10	7/7/2023 2:25:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 10:58:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 10:58:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 10:58:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 10:58:00 AM
Carbon disulfide	16	4.7		ug/m3	10	7/7/2023 2:25:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 10:58:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 10:58:00 AM
Chloroethane	1.4	0.40		ug/m3	1	7/6/2023 10:58:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	7/6/2023 10:58:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	7/6/2023 10:58:00 AM
cis-1,2-Dichloroethene	17	5.9		ug/m3	10	7/7/2023 2:25:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 10:58:00 AM
Cyclohexane	77	21		ug/m3	40	7/7/2023 3:08:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 10:58:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	7/6/2023 10:58:00 AM
Ethylbenzene	9.6	6.5		ug/m3	10	7/7/2023 2:25:00 PM

Qualifiers:	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-015A

Client Sample ID: SVW-14
Tag Number: 241,177
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	< 0.84	0.84		ug/m3	1	7/6/2023 10:58:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 10:58:00 AM
Freon 114	3.0	1.0		ug/m3	1	7/6/2023 10:58:00 AM
Freon 12	2.5	0.74		ug/m3	1	7/6/2023 10:58:00 AM
Heptane	54	6.1		ug/m3	10	7/7/2023 2:25:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 10:58:00 AM
Hexane	62	21		ug/m3	40	7/7/2023 3:08:00 PM
Isopropyl alcohol	72	15		ug/m3	40	7/7/2023 3:08:00 PM
m&p-Xylene	31	13		ug/m3	10	7/7/2023 2:25:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 10:58:00 AM
Methyl Ethyl Ketone	38	8.8		ug/m3	10	7/7/2023 2:25:00 PM
Methyl Isobutyl Ketone	140	49		ug/m3	40	7/7/2023 3:08:00 PM
Methyl tert-butyl ether	76	22		ug/m3	40	7/7/2023 3:08:00 PM
Methylene chloride	2.4	0.52		ug/m3	1	7/6/2023 10:58:00 AM
o-Xylene	15	6.5		ug/m3	10	7/7/2023 2:25:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 10:58:00 AM
Styrene	3.9	0.64		ug/m3	1	7/6/2023 10:58:00 AM
Tetrachloroethylene	13	1.0		ug/m3	1	7/6/2023 10:58:00 AM
Tetrahydrofuran	49	4.4		ug/m3	10	7/7/2023 2:25:00 PM
Toluene	43	5.7		ug/m3	10	7/7/2023 2:25:00 PM
trans-1,2-Dichloroethene	5.3	0.59		ug/m3	1	7/6/2023 10:58:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 10:58:00 AM
Trichloroethene	10	0.81		ug/m3	1	7/6/2023 10:58:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 10:58:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 10:58:00 AM
Vinyl chloride	43	3.8		ug/m3	10	7/7/2023 2:25:00 PM

Qualifiers:

	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-016A

Client Sample ID: SVW-15
Tag Number: 555,1157
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	1.6	0.82		ug/m3	1	7/6/2023 11:43:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 11:43:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 11:43:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 11:43:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 11:43:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 11:43:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 11:43:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 11:43:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 11:43:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 11:43:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 11:43:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 11:43:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 11:43:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 11:43:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 11:43:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 11:43:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/6/2023 11:43:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 11:43:00 AM
Acetone	31	7.1		ug/m3	10	7/7/2023 3:51:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 11:43:00 AM
Benzene	0.93	0.48		ug/m3	1	7/6/2023 11:43:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 11:43:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 11:43:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 11:43:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 11:43:00 AM
Carbon disulfide	28	4.7		ug/m3	10	7/7/2023 3:51:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 11:43:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 11:43:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	7/6/2023 11:43:00 AM
Chloroform	4.9	0.73		ug/m3	1	7/6/2023 11:43:00 AM
Chloromethane	0.83	0.31		ug/m3	1	7/6/2023 11:43:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 11:43:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 11:43:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/6/2023 11:43:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 11:43:00 AM
Ethyl acetate	0.97	0.54		ug/m3	1	7/6/2023 11:43:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/6/2023 11:43:00 AM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-016A

Client Sample ID: SVW-15
Tag Number: 555,1157
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	26	8.4		ug/m3	10	7/7/2023 3:51:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 11:43:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 11:43:00 AM
Freon 12	3.3	0.74		ug/m3	1	7/6/2023 11:43:00 AM
Heptane	0.41	0.61	J	ug/m3	1	7/6/2023 11:43:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 11:43:00 AM
Hexane	0.92	0.53		ug/m3	1	7/6/2023 11:43:00 AM
Isopropyl alcohol	9.6	3.7		ug/m3	10	7/7/2023 3:51:00 PM
m&p-Xylene	0.48	1.3	J	ug/m3	1	7/6/2023 11:43:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 11:43:00 AM
Methyl Ethyl Ketone	2.6	0.88		ug/m3	1	7/6/2023 11:43:00 AM
Methyl Isobutyl Ketone	1.1	1.2	J	ug/m3	1	7/6/2023 11:43:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 11:43:00 AM
Methylene chloride	3.0	0.52		ug/m3	1	7/6/2023 11:43:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	7/6/2023 11:43:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 11:43:00 AM
Styrene	< 0.64	0.64		ug/m3	1	7/6/2023 11:43:00 AM
Tetrachloroethylene	31	10		ug/m3	10	7/7/2023 3:51:00 PM
Tetrahydrofuran	1.4	0.44		ug/m3	1	7/6/2023 11:43:00 AM
Toluene	2.0	0.57		ug/m3	1	7/6/2023 11:43:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 11:43:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 11:43:00 AM
Trichloroethene	0.81	0.81		ug/m3	1	7/6/2023 11:43:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 11:43:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 11:43:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 11:43:00 AM

Qualifiers:

DL	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
H	Detection Limit	E	Estimated Value above quantitation range
JN	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
S	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-017A

Client Sample ID: SVW-16
 Tag Number: 328,251
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 12:29:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 12:29:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 12:29:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 12:29:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 12:29:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 12:29:00 PM
1,2,4-Trimethylbenzene	10	7.4		ug/m3	10	7/7/2023 4:34:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 12:29:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 12:29:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 12:29:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 12:29:00 PM
1,3,5-Trimethylbenzene	4.7	0.74		ug/m3	1	7/6/2023 12:29:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 12:29:00 PM
1,3-Dichlorobenzene	1.8	0.90		ug/m3	1	7/6/2023 12:29:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 12:29:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 12:29:00 PM
2,2,4-trimethylpentane	120	28		ug/m3	40	7/7/2023 5:17:00 PM
4-ethyltoluene	4.0	0.74		ug/m3	1	7/6/2023 12:29:00 PM
Acetone	110	28		ug/m3	40	7/7/2023 5:17:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 12:29:00 PM
Benzene	62	4.8		ug/m3	10	7/7/2023 4:34:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 12:29:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 12:29:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 12:29:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 12:29:00 PM
Carbon disulfide	24	4.7		ug/m3	10	7/7/2023 4:34:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 12:29:00 PM
Chlorobenzene	0.69	0.69		ug/m3	1	7/6/2023 12:29:00 PM
Chloroethane	1.2	0.40		ug/m3	1	7/6/2023 12:29:00 PM
Chloroform	16	7.3		ug/m3	10	7/7/2023 4:34:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	7/6/2023 12:29:00 PM
cis-1,2-Dichloroethene	3.6	0.59		ug/m3	1	7/6/2023 12:29:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 12:29:00 PM
Cyclohexane	35	5.2		ug/m3	10	7/7/2023 4:34:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 12:29:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	7/6/2023 12:29:00 PM
Ethylbenzene	8.2	0.65		ug/m3	1	7/6/2023 12:29:00 PM

Qualifiers:

Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-017A

Client Sample ID: SVW-16
Tag Number: 328,251
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	0.56	0.84	J	ug/m3	1	7/6/2023 12:29:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 12:29:00 PM
Freon 114	3.1	1.0		ug/m3	1	7/6/2023 12:29:00 PM
Freon 12	2.4	0.74		ug/m3	1	7/6/2023 12:29:00 PM
Heptane	9.4	6.1		ug/m3	10	7/7/2023 4:34:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 12:29:00 PM
Hexane	70	5.3		ug/m3	10	7/7/2023 4:34:00 PM
Isopropyl alcohol	20	3.7		ug/m3	10	7/7/2023 4:34:00 PM
m&p-Xylene	22	13		ug/m3	10	7/7/2023 4:34:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 12:29:00 PM
Methyl Ethyl Ketone	45	8.8		ug/m3	10	7/7/2023 4:34:00 PM
Methyl Isobutyl Ketone	16	12		ug/m3	10	7/7/2023 4:34:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 12:29:00 PM
Methylene chloride	2.5	0.52		ug/m3	1	7/6/2023 12:29:00 PM
o-Xylene	8.2	6.5		ug/m3	10	7/7/2023 4:34:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 12:29:00 PM
Styrene	5.5	0.64		ug/m3	1	7/6/2023 12:29:00 PM
Tetrachloroethylene	16	10		ug/m3	10	7/7/2023 4:34:00 PM
Tetrahydrofuran	61	18		ug/m3	40	7/7/2023 5:17:00 PM
Toluene	38	5.7		ug/m3	10	7/7/2023 4:34:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 12:29:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 12:29:00 PM
Trichloroethene	8.1	0.81		ug/m3	1	7/6/2023 12:29:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 12:29:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 12:29:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 12:29:00 PM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-018A

Client Sample ID: AS-1
Tag Number: 171,402
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 4:17:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 4:17:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 4:17:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 4:17:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 4:17:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 4:17:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 4:17:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 4:17:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 4:17:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 4:17:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 4:17:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 4:17:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 4:17:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 4:17:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 4:17:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 4:17:00 PM
2,2,4-trimethylpentane	1.1	0.70		ug/m3	1	7/5/2023 4:17:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 4:17:00 PM
Acetone	15	3.6		ug/m3	5	7/6/2023 4:06:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 4:17:00 PM
Benzene	2.7	0.48		ug/m3	1	7/5/2023 4:17:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 4:17:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 4:17:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 4:17:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 4:17:00 PM
Carbon disulfide	0.59	0.47		ug/m3	1	7/5/2023 4:17:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 4:17:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 4:17:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 4:17:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	7/5/2023 4:17:00 PM
Chloromethane	1.4	0.31		ug/m3	1	7/5/2023 4:17:00 PM
cis-1,2-Dichloroethene	0.71	0.59		ug/m3	1	7/5/2023 4:17:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 4:17:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 4:17:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 4:17:00 PM
Ethyl acetate	3.1	0.54		ug/m3	1	7/5/2023 4:17:00 PM
Ethylbenzene	0.48	0.65	J	ug/m3	1	7/5/2023 4:17:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-1

Lab Order: C2307002

Tag Number: 171,402

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-018A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	1.6	0.84		ug/m3	1	7/5/2023 4:17:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 4:17:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 4:17:00 PM
Freon 12	2.6	0.74		ug/m3	1	7/5/2023 4:17:00 PM
Heptane	0.82	0.61		ug/m3	1	7/5/2023 4:17:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 4:17:00 PM
Hexane	1.9	0.53		ug/m3	1	7/5/2023 4:17:00 PM
Isopropyl alcohol	15	1.8		ug/m3	5	7/6/2023 4:06:00 PM
m&p-Xylene	1.2	1.3	J	ug/m3	1	7/5/2023 4:17:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 4:17:00 PM
Methyl Ethyl Ketone	3.5	0.88		ug/m3	1	7/5/2023 4:17:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 4:17:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 4:17:00 PM
Methylene chloride	1.1	0.52		ug/m3	1	7/5/2023 4:17:00 PM
o-Xylene	0.56	0.65	J	ug/m3	1	7/5/2023 4:17:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 4:17:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 4:17:00 PM
Tetrachloroethylene	7.5	1.0		ug/m3	1	7/5/2023 4:17:00 PM
Tetrahydrofuran	0.91	0.44		ug/m3	1	7/5/2023 4:17:00 PM
Toluene	7.5	0.57		ug/m3	1	7/5/2023 4:17:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 4:17:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 4:17:00 PM
Trichloroethene	0.64	0.81	J	ug/m3	1	7/5/2023 4:17:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 4:17:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 4:17:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 4:17:00 PM

Qualifiers:

Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-2

Lab Order: C2307002

Tag Number: 459,124

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-019A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.12	0.12		ug/m3	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 5:01:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 5:01:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 5:01:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 5:01:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:01:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 5:01:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 5:01:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 5:01:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:01:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 5:01:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 5:01:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 5:01:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 5:01:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:01:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:01:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 5:01:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 5:01:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 5:01:00 PM
Acetone	15	3.6		ug/m3	5	7/6/2023 4:47:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 5:01:00 PM
Benzene	2.5	0.48		ug/m3	1	7/5/2023 5:01:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 5:01:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 5:01:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 5:01:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 5:01:00 PM
Carbon disulfide	0.75	0.47		ug/m3	1	7/5/2023 5:01:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 5:01:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 5:01:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 5:01:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	7/5/2023 5:01:00 PM
Chloromethane	1.2	0.31		ug/m3	1	7/5/2023 5:01:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:01:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 5:01:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 5:01:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 5:01:00 PM
Ethyl acetate	1.7	0.54		ug/m3	1	7/5/2023 5:01:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 5:01:00 PM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-019A

Client Sample ID: AS-2
Tag Number: 459,124
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 11	1.5	0.84		ug/m3	1	7/5/2023 5:01:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 5:01:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 5:01:00 PM
Freon 12	2.6	0.74		ug/m3	1	7/5/2023 5:01:00 PM
Heptane	0.49	0.61	J	ug/m3	1	7/5/2023 5:01:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 5:01:00 PM
Hexane	1.2	0.53		ug/m3	1	7/5/2023 5:01:00 PM
Isopropyl alcohol	7.2	1.8		ug/m3	5	7/6/2023 4:47:00 PM
m&p-Xylene	0.82	1.3	J	ug/m3	1	7/5/2023 5:01:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 5:01:00 PM
Methyl Ethyl Ketone	1.5	0.88		ug/m3	1	7/5/2023 5:01:00 PM
Methyl Isobutyl Ketone	0.53	1.2	J	ug/m3	1	7/5/2023 5:01:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 5:01:00 PM
Methylene chloride	0.59	0.52		ug/m3	1	7/5/2023 5:01:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 5:01:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 5:01:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 5:01:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	7/5/2023 5:01:00 PM
Tetrahydrofuran	0.53	0.44		ug/m3	1	7/5/2023 5:01:00 PM
Toluene	5.5	0.57		ug/m3	1	7/5/2023 5:01:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:01:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 5:01:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 5:01:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 5:01:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 5:01:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 5:01:00 PM

Qualifiers:

DL	Detection Limit	B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded	E	Estimated Value above quantitation range
JN	Non-routine analyte. Quantitation estimated.	J	Analyte detected below quantitation limit
S	Spike Recovery outside accepted recovery limits	ND	Not Detected at the Limit of Detection
		SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS

Client Sample ID: TB-1

Lab Order: C2307002

Tag Number: 170

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-020A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 3:33:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 3:33:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 3:33:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 3:33:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 3:33:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 3:33:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 3:33:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 3:33:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 3:33:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 3:33:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 3:33:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 3:33:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 3:33:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 3:33:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 3:33:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 3:33:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 3:33:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 3:33:00 PM
Acetone	1.4	0.71		ug/m3	1	7/5/2023 3:33:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 3:33:00 PM
Benzene	< 0.48	0.48		ug/m3	1	7/5/2023 3:33:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 3:33:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 3:33:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 3:33:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 3:33:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	7/5/2023 3:33:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 3:33:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 3:33:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 3:33:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	7/5/2023 3:33:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	7/5/2023 3:33:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 3:33:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 3:33:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 3:33:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 3:33:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	7/5/2023 3:33:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 3:33:00 PM
Freon 11	< 0.84	0.84		ug/m3	1	7/5/2023 3:33:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 3:33:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 3:33:00 PM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-020A

Client Sample ID: TB-1
Tag Number: 170
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	< 0.74	0.74		ug/m3	1	7/5/2023 3:33:00 PM
Heptane	< 0.61	0.61		ug/m3	1	7/5/2023 3:33:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 3:33:00 PM
Hexane	< 0.53	0.53		ug/m3	1	7/5/2023 3:33:00 PM
Isopropyl alcohol	1.2	0.37		ug/m3	1	7/5/2023 3:33:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	7/5/2023 3:33:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 3:33:00 PM
Methyl Ethyl Ketone	< 0.88	0.88		ug/m3	1	7/5/2023 3:33:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 3:33:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 3:33:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	7/5/2023 3:33:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 3:33:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 3:33:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 3:33:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	7/5/2023 3:33:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 3:33:00 PM
Toluene	< 0.57	0.57		ug/m3	1	7/5/2023 3:33:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 3:33:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 3:33:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 3:33:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 3:33:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 3:33:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 3:33:00 PM

Qualifiers:

	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

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Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-001A

Client Sample ID: SVW-1
Tag Number: 225,146
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 8:11:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Acetone	2.0	0.60		ppbV	2	7/6/2023 6:12:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Benzene	0.23	0.15		ppbV	1	7/5/2023 8:11:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Carbon disulfide	0.23	0.15		ppbV	1	7/5/2023 8:11:00 PM
Carbon tetrachloride	1.0	0.15		ppbV	1	7/5/2023 8:11:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Chloroform	0.49	0.15		ppbV	1	7/5/2023 8:11:00 PM
Chloromethane	0.14	0.15	J	ppbV	1	7/5/2023 8:11:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM

Qualifiers:	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-001A

Client Sample ID: SVW-1
Tag Number: 225,146
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Freon 11	1.7	0.15		ppbV	1	7/5/2023 8:11:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Freon 12	0.77	0.15		ppbV	1	7/5/2023 8:11:00 PM
Heptane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Hexane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Isopropyl alcohol	1.5	0.15		ppbV	1	7/5/2023 8:11:00 PM
m&p-Xylene	0.16	0.30	J	ppbV	1	7/5/2023 8:11:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 8:11:00 PM
Methyl Ethyl Ketone	0.32	0.30		ppbV	1	7/5/2023 8:11:00 PM
Methyl Isobutyl Ketone	0.95	0.30		ppbV	1	7/5/2023 8:11:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Methylene chloride	0.13	0.15	J	ppbV	1	7/5/2023 8:11:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Tetrachloroethylene	0.18	0.15		ppbV	1	7/5/2023 8:11:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Toluene	0.24	0.15		ppbV	1	7/5/2023 8:11:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Surr: Bromofluorobenzene	90.0	70-130		%REC	1	7/5/2023 8:11:00 PM

Qualifiers:

DL	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
H	Detection Limit	E	Estimated Value above quantitation range
JN	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
S	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-002A

Client Sample ID: SVW-1 Dup
Tag Number: 233,146
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	7/5/2023 8:55:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 8:55:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Acetone	3.8	1.5		ppbV	5	7/6/2023 6:54:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Benzene	0.25	0.15		ppbV	1	7/5/2023 8:55:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Carbon disulfide	0.46	0.15		ppbV	1	7/5/2023 8:55:00 PM
Carbon tetrachloride	1.1	0.15		ppbV	1	7/5/2023 8:55:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Chloroform	0.49	0.15		ppbV	1	7/5/2023 8:55:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM

Qualifiers:

	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-002A

Client Sample ID: SVW-1 Dup
Tag Number: 233,146
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Ethyl acetate	0.16	0.15		ppbV	1	7/5/2023 8:55:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Freon 11	1.7	0.15		ppbV	1	7/5/2023 8:55:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Freon 12	0.84	0.15		ppbV	1	7/5/2023 8:55:00 PM
Heptane	0.10	0.15	J	ppbV	1	7/5/2023 8:55:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Hexane	0.17	0.15		ppbV	1	7/5/2023 8:55:00 PM
Isopropyl alcohol	3.7	0.75		ppbV	5	7/6/2023 6:54:00 PM
m&p-Xylene	0.49	0.30		ppbV	1	7/5/2023 8:55:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 8:55:00 PM
Methyl Ethyl Ketone	0.40	0.30		ppbV	1	7/5/2023 8:55:00 PM
Methyl Isobutyl Ketone	2.0	1.5		ppbV	5	7/6/2023 6:54:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Methylene chloride	0.19	0.15		ppbV	1	7/5/2023 8:55:00 PM
o-Xylene	0.16	0.15		ppbV	1	7/5/2023 8:55:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Tetrachloroethylene	0.18	0.15		ppbV	1	7/5/2023 8:55:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Toluene	0.36	0.15		ppbV	1	7/5/2023 8:55:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Surr: Bromofluorobenzene	90.0	70-130		%REC	1	7/5/2023 8:55:00 PM

Qualifiers:

	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-003A

Client Sample ID: SVW-2
Tag Number: 102,1152
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-5			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 9:39:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Acetone	6.4	3.0		ppbV	10	7/6/2023 7:37:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Benzene	0.74	0.15		ppbV	1	7/5/2023 9:39:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Carbon disulfide	0.23	0.15		ppbV	1	7/5/2023 9:39:00 PM
Carbon tetrachloride	0.35	0.15		ppbV	1	7/5/2023 9:39:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Chloroform	0.18	0.15		ppbV	1	7/5/2023 9:39:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Cyclohexane	0.14	0.15	J	ppbV	1	7/5/2023 9:39:00 PM

Qualifiers:	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-003A

Client Sample ID: SVW-2
 Tag Number: 102,1152
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Ethyl acetate	0.24	0.15		ppbV	1	7/5/2023 9:39:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Freon 11	0.59	0.15		ppbV	1	7/5/2023 9:39:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Freon 12	0.62	0.15		ppbV	1	7/5/2023 9:39:00 PM
Heptane	0.12	0.15	J	ppbV	1	7/5/2023 9:39:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Hexane	0.38	0.15		ppbV	1	7/5/2023 9:39:00 PM
Isopropyl alcohol	3.4	1.5		ppbV	10	7/6/2023 7:37:00 PM
m&p-Xylene	0.11	0.30	J	ppbV	1	7/5/2023 9:39:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 9:39:00 PM
Methyl Ethyl Ketone	0.69	0.30		ppbV	1	7/5/2023 9:39:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 9:39:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Methylene chloride	0.23	0.15		ppbV	1	7/5/2023 9:39:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Tetrachloroethylene	0.58	0.15		ppbV	1	7/5/2023 9:39:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Toluene	0.59	0.15		ppbV	1	7/5/2023 9:39:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Surr: Bromofluorobenzene	86.0	70-130		%REC	1	7/5/2023 9:39:00 PM

Qualifiers:

DL	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
H	Detection Limit	E	Estimated Value above quantitation range
JN	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
S	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-004A

Client Sample ID: SVW-3
Tag Number: 203,1165
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC				Analyst: RJP
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.18	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2-Dichloroethane	0.17	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2-Dichloropropane	0.64	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,3-Dichlorobenzene	0.48	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,4-Dichlorobenzene	0.13	0.15	J	ppbV	1	7/5/2023 10:24:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 10:24:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Acetone	50	12		ppbV	40	7/6/2023 9:03:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Benzene	0.44	0.15		ppbV	1	7/5/2023 10:24:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Bromodichloromethane	0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Carbon disulfide	13	1.5		ppbV	10	7/6/2023 8:20:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Chloroethane	0.42	0.15		ppbV	1	7/5/2023 10:24:00 PM
Chloroform	2.6	1.5		ppbV	10	7/6/2023 8:20:00 PM
Chloromethane	1.2	0.15		ppbV	1	7/5/2023 10:24:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Cyclohexane	0.18	0.15		ppbV	1	7/5/2023 10:24:00 PM

Qualifiers:

DL	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-004A

Client Sample ID: SVW-3
 Tag Number: 203,1165
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Ethyl acetate	0.27	0.15		ppbV	1	7/5/2023 10:24:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Freon 11	1.9	0.15		ppbV	1	7/5/2023 10:24:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Freon 12	0.60	0.15		ppbV	1	7/5/2023 10:24:00 PM
Heptane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Hexane	2.6	1.5		ppbV	10	7/6/2023 8:20:00 PM
Isopropyl alcohol	4.0	1.5		ppbV	10	7/6/2023 8:20:00 PM
m&p-Xylene	0.12	0.30	J	ppbV	1	7/5/2023 10:24:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 10:24:00 PM
Methyl Ethyl Ketone	1.5	0.30		ppbV	1	7/5/2023 10:24:00 PM
Methyl Isobutyl Ketone	0.30	0.30		ppbV	1	7/5/2023 10:24:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Methylene chloride	0.29	0.15		ppbV	1	7/5/2023 10:24:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Tetrachloroethylene	0.62	0.15		ppbV	1	7/5/2023 10:24:00 PM
Tetrahydrofuran	1.5	0.15		ppbV	1	7/5/2023 10:24:00 PM
Toluene	0.48	0.15		ppbV	1	7/5/2023 10:24:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Surr: Bromofluorobenzene	101	70-130		%REC	1	7/5/2023 10:24:00 PM

Qualifiers:

DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-005A

Client Sample ID: SVW-4
Tag Number: 367,172
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC				Analyst: RJP
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,4-Dichlorobenzene	0.66	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 11:08:00 PM
2,2,4-trimethylpentane	0.92	0.15		ppbV	1	7/5/2023 11:08:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Acetone	15	3.0		ppbV	10	7/6/2023 9:46:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Benzene	0.53	0.15		ppbV	1	7/5/2023 11:08:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Carbon disulfide	10	1.5		ppbV	10	7/6/2023 9:46:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Chlorobenzene	0.71	0.15		ppbV	1	7/5/2023 11:08:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Chloroform	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Cyclohexane	0.52	0.15		ppbV	1	7/5/2023 11:08:00 PM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-005A

Client Sample ID: SVW-4
Tag Number: 367,172
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Ethyl acetate	0.27	0.15		ppbV	1	7/5/2023 11:08:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Freon 11	0.54	0.15		ppbV	1	7/5/2023 11:08:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Freon 12	0.81	0.15		ppbV	1	7/5/2023 11:08:00 PM
Heptane	0.13	0.15	J	ppbV	1	7/5/2023 11:08:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Hexane	0.32	0.15		ppbV	1	7/5/2023 11:08:00 PM
Isopropyl alcohol	4.3	1.5		ppbV	10	7/6/2023 9:46:00 PM
m&p-Xylene	0.25	0.30	J	ppbV	1	7/5/2023 11:08:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 11:08:00 PM
Methyl Ethyl Ketone	0.79	0.30		ppbV	1	7/5/2023 11:08:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 11:08:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Methylene chloride	0.23	0.15		ppbV	1	7/5/2023 11:08:00 PM
o-Xylene	0.14	0.15	J	ppbV	1	7/5/2023 11:08:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Tetrachloroethylene	0.14	0.15	J	ppbV	1	7/5/2023 11:08:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Toluene	1.4	0.15		ppbV	1	7/5/2023 11:08:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Surr: Bromofluorobenzene	107	70-130		%REC	1	7/5/2023 11:08:00 PM

Qualifiers:

DL	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
H	Detection Limit	E	Estimated Value above quantitation range
JN	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
S	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-006A

Client Sample ID: SVW-5 MS/MSD
Tag Number: 218,1447
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 5:46:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Acetone	8.3	1.5		ppbV	5	7/6/2023 5:29:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Benzene	0.28	0.15		ppbV	1	7/5/2023 5:46:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Carbon disulfide	1.5	0.15		ppbV	1	7/5/2023 5:46:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Chloroform	0.24	0.15		ppbV	1	7/5/2023 5:46:00 PM
Chloromethane	0.17	0.15		ppbV	1	7/5/2023 5:46:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM

Qualifiers:	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-006A

Client Sample ID: SVW-5 MS/MSD
Tag Number: 218,1447
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Ethyl acetate	0.16	0.15		ppbV	1	7/5/2023 5:46:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Freon 11	0.80	0.15		ppbV	1	7/5/2023 5:46:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Freon 114	0.18	0.15		ppbV	1	7/5/2023 5:46:00 PM
Freon 12	0.69	0.15		ppbV	1	7/5/2023 5:46:00 PM
Heptane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Hexane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Isopropyl alcohol	2.8	0.75		ppbV	5	7/6/2023 5:29:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	7/5/2023 5:46:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 5:46:00 PM
Methyl Ethyl Ketone	0.33	0.30		ppbV	1	7/5/2023 5:46:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 5:46:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Methylene chloride	0.30	0.15		ppbV	1	7/5/2023 5:46:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Tetrachloroethylene	0.19	0.15		ppbV	1	7/5/2023 5:46:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Toluene	0.34	0.15		ppbV	1	7/5/2023 5:46:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Surr: Bromofluorobenzene	82.0	70-130		%REC	1	7/5/2023 5:46:00 PM

Qualifiers:

DL	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
H	Detection Limit	E	Estimated Value above quantitation range
JN	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
S	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-007A

Client Sample ID: SVW-6
Tag Number: 1184,173
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	0			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 11:53:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Acetone	9.0	3.0		ppbV	10	7/6/2023 10:28:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Benzene	0.55	0.15		ppbV	1	7/5/2023 11:53:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Carbon disulfide	0.68	0.15		ppbV	1	7/5/2023 11:53:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Chloroform	0.14	0.15	J	ppbV	1	7/5/2023 11:53:00 PM
Chloromethane	0.59	0.15		ppbV	1	7/5/2023 11:53:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-007A

Client Sample ID: SVW-6
Tag Number: 1184,173
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Ethyl acetate	0.16	0.15		ppbV	1	7/5/2023 11:53:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Freon 11	0.26	0.15		ppbV	1	7/5/2023 11:53:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Freon 12	0.52	0.15		ppbV	1	7/5/2023 11:53:00 PM
Heptane	0.11	0.15	J	ppbV	1	7/5/2023 11:53:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Hexane	0.41	0.15		ppbV	1	7/5/2023 11:53:00 PM
Isopropyl alcohol	1.9	0.15		ppbV	1	7/5/2023 11:53:00 PM
m&p-Xylene	0.13	0.30	J	ppbV	1	7/5/2023 11:53:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 11:53:00 PM
Methyl Ethyl Ketone	0.57	0.30		ppbV	1	7/5/2023 11:53:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 11:53:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Methylene chloride	0.26	0.15		ppbV	1	7/5/2023 11:53:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Tetrachloroethylene	0.19	0.15		ppbV	1	7/5/2023 11:53:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Toluene	0.46	0.15		ppbV	1	7/5/2023 11:53:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Surr: Bromofluorobenzene	86.0	70-130		%REC	1	7/5/2023 11:53:00 PM

Qualifiers:

DL	Detection Limit	B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded	E	Estimated Value above quantitation range
JN	Non-routine analyte. Quantitation estimated.	J	Analyte detected below quantitation limit
S	Spike Recovery outside accepted recovery limits	ND	Not Detected at the Limit of Detection
		SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-008A

Client Sample ID: SVW-7
Tag Number: 83,184
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-4			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC				Analyst: RJP
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2,4-Trimethylbenzene	0.33	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,3,5-Trimethylbenzene	0.10	0.15	J	ppbV	1	7/6/2023 12:37:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,3-Dichlorobenzene	0.14	0.15	J	ppbV	1	7/6/2023 12:37:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 12:37:00 AM
2,2,4-trimethylpentane	0.12	0.15	J	ppbV	1	7/6/2023 12:37:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Acetone	16	3.0		ppbV	10	7/6/2023 11:11:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Benzene	0.72	0.15		ppbV	1	7/6/2023 12:37:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Carbon disulfide	30	6.0		ppbV	40	7/6/2023 11:54:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Chloroform	2.2	1.5		ppbV	10	7/6/2023 11:11:00 PM
Chloromethane	0.71	0.15		ppbV	1	7/6/2023 12:37:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM

Qualifiers:	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-7

Lab Order: C2307002

Tag Number: 83,184

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-008A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Ethyl acetate	0.33	0.15		ppbV	1	7/6/2023 12:37:00 AM
Ethylbenzene	0.14	0.15	J	ppbV	1	7/6/2023 12:37:00 AM
Freon 11	0.44	0.15		ppbV	1	7/6/2023 12:37:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Freon 12	0.55	0.15		ppbV	1	7/6/2023 12:37:00 AM
Heptane	0.16	0.15		ppbV	1	7/6/2023 12:37:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Hexane	0.25	0.15		ppbV	1	7/6/2023 12:37:00 AM
Isopropyl alcohol	1.8	0.15		ppbV	1	7/6/2023 12:37:00 AM
m&p-Xylene	0.30	0.30		ppbV	1	7/6/2023 12:37:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 12:37:00 AM
Methyl Ethyl Ketone	0.70	0.30		ppbV	1	7/6/2023 12:37:00 AM
Methyl Isobutyl Ketone	0.90	0.30		ppbV	1	7/6/2023 12:37:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Methylene chloride	0.26	0.15		ppbV	1	7/6/2023 12:37:00 AM
o-Xylene	0.24	0.15		ppbV	1	7/6/2023 12:37:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Styrene	0.13	0.15	J	ppbV	1	7/6/2023 12:37:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Tetrahydrofuran	0.68	0.15		ppbV	1	7/6/2023 12:37:00 AM
Toluene	1.4	0.15		ppbV	1	7/6/2023 12:37:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Surr: Bromofluorobenzene	96.0	70-130		%REC	1	7/6/2023 12:37:00 AM

Qualifiers:

DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-009A

Client Sample ID: SVW-8
Tag Number: 561,1163
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD			Analyst:	
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC			Analyst: RJP	
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15			Analyst: RJP	
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbV	1	7/6/2023 1:21:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,3-Dichlorobenzene	0.14	0.15	J	ppbV	1	7/6/2023 1:21:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 1:21:00 AM
2,2,4-trimethylpentane	0.24	0.15		ppbV	1	7/6/2023 1:21:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Acetone	22	12		ppbV	40	7/7/2023 1:19:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Benzene	0.64	0.15		ppbV	1	7/6/2023 1:21:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Carbon disulfide	12	1.5		ppbV	10	7/7/2023 12:37:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Chloroform	0.17	0.15		ppbV	1	7/6/2023 1:21:00 AM
Chloromethane	0.80	0.15		ppbV	1	7/6/2023 1:21:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Cyclohexane	0.31	0.15		ppbV	1	7/6/2023 1:21:00 AM

Qualifiers:	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-009A

Client Sample ID: SVW-8
Tag Number: 561,1163
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Ethyl acetate	2.1	1.5		ppbV	10	7/7/2023 12:37:00 AM
Ethylbenzene	0.12	0.15	J	ppbV	1	7/6/2023 1:21:00 AM
Freon 11	0.30	0.15		ppbV	1	7/6/2023 1:21:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Freon 12	0.56	0.15		ppbV	1	7/6/2023 1:21:00 AM
Heptane	0.38	0.15		ppbV	1	7/6/2023 1:21:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Hexane	1.4	0.15		ppbV	1	7/6/2023 1:21:00 AM
Isopropyl alcohol	20	1.5		ppbV	10	7/7/2023 12:37:00 AM
m&p-Xylene	0.33	0.30		ppbV	1	7/6/2023 1:21:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 1:21:00 AM
Methyl Ethyl Ketone	1.7	0.30		ppbV	1	7/6/2023 1:21:00 AM
Methyl Isobutyl Ketone	0.38	0.30		ppbV	1	7/6/2023 1:21:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Methylene chloride	0.88	0.15		ppbV	1	7/6/2023 1:21:00 AM
o-Xylene	0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Styrene	0.11	0.15	J	ppbV	1	7/6/2023 1:21:00 AM
Tetrachloroethylene	0.43	0.15		ppbV	1	7/6/2023 1:21:00 AM
Tetrahydrofuran	1.6	1.5		ppbV	10	7/7/2023 12:37:00 AM
Toluene	2.1	1.5		ppbV	10	7/7/2023 12:37:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Trichloroethene	0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Surr: Bromofluorobenzene	93.0	70-130		%REC	1	7/6/2023 1:21:00 AM

Qualifiers:

DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-010A

Client Sample ID: SVW-9
Tag Number: 96,175
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 2:05:00 AM
2,2,4-trimethylpentane	0.13	0.15	J	ppbV	1	7/6/2023 2:05:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Acetone	7.3	3.0		ppbV	10	7/7/2023 2:02:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Benzene	0.76	0.15		ppbV	1	7/6/2023 2:05:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Carbon disulfide	0.35	0.15		ppbV	1	7/6/2023 2:05:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Chloroethane	0.14	0.15	J	ppbV	1	7/6/2023 2:05:00 AM
Chloroform	0.17	0.15		ppbV	1	7/6/2023 2:05:00 AM
Chloromethane	0.65	0.15		ppbV	1	7/6/2023 2:05:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM

Qualifiers:	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-010A

Client Sample ID: SVW-9
Tag Number: 96,175
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Ethyl acetate	0.43	0.15		ppbV	1	7/6/2023 2:05:00 AM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Freon 11	0.25	0.15		ppbV	1	7/6/2023 2:05:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Freon 12	0.52	0.15		ppbV	1	7/6/2023 2:05:00 AM
Heptane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Hexane	0.43	0.15		ppbV	1	7/6/2023 2:05:00 AM
Isopropyl alcohol	3.8	1.5		ppbV	10	7/7/2023 2:02:00 AM
m&p-Xylene	0.19	0.30	J	ppbV	1	7/6/2023 2:05:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 2:05:00 AM
Methyl Ethyl Ketone	0.80	0.30		ppbV	1	7/6/2023 2:05:00 AM
Methyl Isobutyl Ketone	0.15	0.30	J	ppbV	1	7/6/2023 2:05:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Methylene chloride	0.35	0.15		ppbV	1	7/6/2023 2:05:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Styrene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Tetrachloroethylene	0.81	0.15		ppbV	1	7/6/2023 2:05:00 AM
Tetrahydrofuran	0.11	0.15	J	ppbV	1	7/6/2023 2:05:00 AM
Toluene	1.3	0.15		ppbV	1	7/6/2023 2:05:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Surr: Bromofluorobenzene	89.0	70-130		%REC	1	7/6/2023 2:05:00 AM

Qualifiers:	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-011A

Client Sample ID: SVW-10
Tag Number: 205,180
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 2:50:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Acetone	18	3.0		ppbV	10	7/7/2023 2:45:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Benzene	0.58	0.15		ppbV	1	7/6/2023 2:50:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Carbon disulfide	3.4	1.5		ppbV	10	7/7/2023 2:45:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Chloroform	3.6	1.5		ppbV	10	7/7/2023 2:45:00 AM
Chloromethane	0.57	0.15		ppbV	1	7/6/2023 2:50:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM

Qualifiers:

DL Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-011A

Client Sample ID: SVW-10
Tag Number: 205,180
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Ethyl acetate	0.47	0.15		ppbV	1	7/6/2023 2:50:00 AM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Freon 11	0.44	0.15		ppbV	1	7/6/2023 2:50:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Freon 12	0.61	0.15		ppbV	1	7/6/2023 2:50:00 AM
Heptane	0.11	0.15	J	ppbV	1	7/6/2023 2:50:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Hexane	0.30	0.15		ppbV	1	7/6/2023 2:50:00 AM
Isopropyl alcohol	4.4	1.5		ppbV	10	7/7/2023 2:45:00 AM
m&p-Xylene	0.13	0.30	J	ppbV	1	7/6/2023 2:50:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 2:50:00 AM
Methyl Ethyl Ketone	0.71	0.30		ppbV	1	7/6/2023 2:50:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 2:50:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Methylene chloride	0.33	0.15		ppbV	1	7/6/2023 2:50:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Styrene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Tetrachloroethylene	0.35	0.15		ppbV	1	7/6/2023 2:50:00 AM
Tetrahydrofuran	0.30	0.15		ppbV	1	7/6/2023 2:50:00 AM
Toluene	0.74	0.15		ppbV	1	7/6/2023 2:50:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Surr: Bromofluorobenzene	89.0	70-130		%REC	1	7/6/2023 2:50:00 AM

Qualifiers:

DL	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
H	Detection Limit	E	Estimated Value above quantitation range
JN	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
S	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-012A

Client Sample ID: SVW-11
Tag Number: 1190,381
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	0.64	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	7/6/2023 3:34:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,4-Dichlorobenzene	0.23	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 3:34:00 AM
2,2,4-trimethylpentane	0.18	0.15		ppbV	1	7/6/2023 3:34:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Acetone	17	3.0		ppbV	10	7/7/2023 3:28:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Benzene	1.3	0.15		ppbV	1	7/6/2023 3:34:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Carbon disulfide	0.35	0.15		ppbV	1	7/6/2023 3:34:00 AM
Carbon tetrachloride	0.19	0.15		ppbV	1	7/6/2023 3:34:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Chloroethane	0.12	0.15	J	ppbV	1	7/6/2023 3:34:00 AM
Chloroform	1.5	0.15		ppbV	1	7/6/2023 3:34:00 AM
Chloromethane	0.34	0.15		ppbV	1	7/6/2023 3:34:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Cyclohexane	0.37	0.15		ppbV	1	7/6/2023 3:34:00 AM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-012A

Client Sample ID: SVW-11
Tag Number: 1190,381
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Ethyl acetate	0.34	0.15		ppbV	1	7/6/2023 3:34:00 AM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Freon 11	2.9	1.5		ppbV	10	7/7/2023 3:28:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Freon 12	0.55	0.15		ppbV	1	7/6/2023 3:34:00 AM
Heptane	0.14	0.15	J	ppbV	1	7/6/2023 3:34:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Hexane	0.77	0.15		ppbV	1	7/6/2023 3:34:00 AM
Isopropyl alcohol	5.1	1.5		ppbV	10	7/7/2023 3:28:00 AM
m&p-Xylene	0.25	0.30	J	ppbV	1	7/6/2023 3:34:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 3:34:00 AM
Methyl Ethyl Ketone	0.97	0.30		ppbV	1	7/6/2023 3:34:00 AM
Methyl Isobutyl Ketone	0.29	0.30	J	ppbV	1	7/6/2023 3:34:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Methylene chloride	0.17	0.15		ppbV	1	7/6/2023 3:34:00 AM
o-Xylene	0.11	0.15	J	ppbV	1	7/6/2023 3:34:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Styrene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Tetrachloroethylene	3.3	1.5		ppbV	10	7/7/2023 3:28:00 AM
Tetrahydrofuran	0.37	0.15		ppbV	1	7/6/2023 3:34:00 AM
Toluene	1.1	0.15		ppbV	1	7/6/2023 3:34:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Trichloroethene	0.50	0.15		ppbV	1	7/6/2023 3:34:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Surr: Bromofluorobenzene	91.0	70-130		%REC	1	7/6/2023 3:34:00 AM

Qualifiers:

DL	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
H	Detection Limit	E	Estimated Value above quantitation range
JN	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
S	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-013A

Client Sample ID: SVW-12
Tag Number: 318,153
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 4:18:00 AM
2,2,4-trimethylpentane	6.6	1.4		ppbV	9	7/7/2023 11:03:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Acetone	22	27	J	ppbV	90	7/7/2023 11:46:00 AM
Allyl chloride	0.26	0.15		ppbV	1	7/6/2023 4:18:00 AM
Benzene	3.5	1.4		ppbV	9	7/7/2023 11:03:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Carbon disulfide	150	14		ppbV	90	7/7/2023 11:46:00 AM
Carbon tetrachloride	0.13	0.15	J	ppbV	1	7/6/2023 4:18:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Chloroethane	0.25	0.15		ppbV	1	7/6/2023 4:18:00 AM
Chloroform	0.58	0.15		ppbV	1	7/6/2023 4:18:00 AM
Chloromethane	0.55	0.15		ppbV	1	7/6/2023 4:18:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Cyclohexane	1.8	0.15		ppbV	1	7/6/2023 4:18:00 AM

Qualifiers:	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-013A

Client Sample ID: SVW-12
Tag Number: 318,153
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Ethyl acetate	0.30	0.15		ppbV	1	7/6/2023 4:18:00 AM
Ethylbenzene	0.58	0.15		ppbV	1	7/6/2023 4:18:00 AM
Freon 11	0.43	0.15		ppbV	1	7/6/2023 4:18:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Freon 12	0.57	0.15		ppbV	1	7/6/2023 4:18:00 AM
Heptane	1.0	0.15		ppbV	1	7/6/2023 4:18:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Hexane	1.9	0.15		ppbV	1	7/6/2023 4:18:00 AM
Isopropyl alcohol	4.0	1.4		ppbV	9	7/7/2023 11:03:00 AM
m&p-Xylene	1.3	0.30		ppbV	1	7/6/2023 4:18:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 4:18:00 AM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	7/6/2023 4:18:00 AM
Methyl Isobutyl Ketone	2.3	2.7	J	ppbV	9	7/7/2023 11:03:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Methylene chloride	4.3	1.4		ppbV	9	7/7/2023 11:03:00 AM
o-Xylene	0.69	0.15		ppbV	1	7/6/2023 4:18:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Styrene	0.27	0.15		ppbV	1	7/6/2023 4:18:00 AM
Tetrachloroethylene	3.1	1.4		ppbV	9	7/7/2023 11:03:00 AM
Tetrahydrofuran	6.9	1.4		ppbV	9	7/7/2023 11:03:00 AM
Toluene	4.3	1.4		ppbV	9	7/7/2023 11:03:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Trichloroethene	0.35	0.15		ppbV	1	7/6/2023 4:18:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Vinyl chloride	0.74	0.15		ppbV	1	7/6/2023 4:18:00 AM
Surr: Bromofluorobenzene	117	70-130		%REC	1	7/6/2023 4:18:00 AM

Qualifiers:

DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-014A

Client Sample ID: SVW-13
Tag Number: 128,250
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC				Analyst: RJP
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	3.2	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,1,1-Trichloroethane	4.0	1.5		ppbV	10	7/7/2023 12:30:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 5:02:00 AM
2,2,4-trimethylpentane	2.8	1.5		ppbV	10	7/7/2023 12:30:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Acetone	18	12		ppbV	40	7/7/2023 1:42:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Benzene	14	1.5		ppbV	10	7/7/2023 12:30:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Carbon disulfide	0.90	0.15		ppbV	1	7/6/2023 5:02:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Chloroethane	0.99	0.15		ppbV	1	7/6/2023 5:02:00 AM
Chloroform	0.32	0.15		ppbV	1	7/6/2023 5:02:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
cis-1,2-Dichloroethene	0.42	0.15		ppbV	1	7/6/2023 5:02:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-014A

Client Sample ID: SVW-13
Tag Number: 128,250
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Cyclohexane	16	1.5		ppbV	10	7/7/2023 12:30:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Ethyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Ethylbenzene	0.11	0.15	J	ppbV	1	7/6/2023 5:02:00 AM
Freon 11	1.7	0.15		ppbV	1	7/6/2023 5:02:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Freon 12	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Heptane	4.7	1.5		ppbV	10	7/7/2023 12:30:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Hexane	32	6.0		ppbV	40	7/7/2023 1:42:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
m&p-Xylene	0.26	0.30	J	ppbV	1	7/6/2023 5:02:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 5:02:00 AM
Methyl Ethyl Ketone	4.6	3.0		ppbV	10	7/7/2023 12:30:00 PM
Methyl Isobutyl Ketone	0.24	0.30	J	ppbV	1	7/6/2023 5:02:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
o-Xylene	0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Styrene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Tetrachloroethylene	3.7	1.5		ppbV	10	7/7/2023 12:30:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Toluene	1.3	0.15		ppbV	1	7/6/2023 5:02:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Trichloroethene	2.3	1.5		ppbV	10	7/7/2023 12:30:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Surr: Bromofluorobenzene	111	70-130		%REC	1	7/6/2023 5:02:00 AM

Qualifiers:	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-015A

Client Sample ID: SVW-14
Tag Number: 241,177
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC				Analyst: RJP
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,2,4-Trimethylbenzene	4.3	1.5		ppbV	10	7/7/2023 2:25:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,3,5-Trimethylbenzene	1.8	1.5		ppbV	10	7/7/2023 2:25:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 10:58:00 AM
2,2,4-trimethylpentane	19	1.5		ppbV	10	7/7/2023 2:25:00 PM
4-ethyltoluene	1.2	0.15		ppbV	1	7/6/2023 10:58:00 AM
Acetone	32	12		ppbV	40	7/7/2023 3:08:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Benzene	11	1.5		ppbV	10	7/7/2023 2:25:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Carbon disulfide	5.0	1.5		ppbV	10	7/7/2023 2:25:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Chloroethane	0.53	0.15		ppbV	1	7/6/2023 10:58:00 AM
Chloroform	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
cis-1,2-Dichloroethene	4.2	1.5		ppbV	10	7/7/2023 2:25:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Cyclohexane	22	6.0		ppbV	40	7/7/2023 3:08:00 PM

Qualifiers:	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-015A

Client Sample ID: SVW-14
Tag Number: 241,177
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Ethyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Ethylbenzene	2.2	1.5		ppbV	10	7/7/2023 2:25:00 PM
Freon 11	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Freon 114	0.43	0.15		ppbV	1	7/6/2023 10:58:00 AM
Freon 12	0.51	0.15		ppbV	1	7/6/2023 10:58:00 AM
Heptane	13	1.5		ppbV	10	7/7/2023 2:25:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Hexane	18	6.0		ppbV	40	7/7/2023 3:08:00 PM
Isopropyl alcohol	29	6.0		ppbV	40	7/7/2023 3:08:00 PM
m&p-Xylene	7.2	3.0		ppbV	10	7/7/2023 2:25:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 10:58:00 AM
Methyl Ethyl Ketone	13	3.0		ppbV	10	7/7/2023 2:25:00 PM
Methyl Isobutyl Ketone	34	12		ppbV	40	7/7/2023 3:08:00 PM
Methyl tert-butyl ether	21	6.0		ppbV	40	7/7/2023 3:08:00 PM
Methylene chloride	0.70	0.15		ppbV	1	7/6/2023 10:58:00 AM
o-Xylene	3.5	1.5		ppbV	10	7/7/2023 2:25:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Styrene	0.92	0.15		ppbV	1	7/6/2023 10:58:00 AM
Tetrachloroethylene	1.9	0.15		ppbV	1	7/6/2023 10:58:00 AM
Tetrahydrofuran	17	1.5		ppbV	10	7/7/2023 2:25:00 PM
Toluene	11	1.5		ppbV	10	7/7/2023 2:25:00 PM
trans-1,2-Dichloroethene	1.3	0.15		ppbV	1	7/6/2023 10:58:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Trichloroethene	1.9	0.15		ppbV	1	7/6/2023 10:58:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Vinyl chloride	17	1.5		ppbV	10	7/7/2023 2:25:00 PM
Surr: Bromofluorobenzene	112	70-130		%REC	1	7/6/2023 10:58:00 AM

Qualifiers:

	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-016A

Client Sample ID: SVW-15
Tag Number: 555,1157
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC				Analyst: RJP
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.29	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 11:43:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Acetone	13	3.0		ppbV	10	7/7/2023 3:51:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Benzene	0.29	0.15		ppbV	1	7/6/2023 11:43:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Carbon disulfide	8.9	1.5		ppbV	10	7/7/2023 3:51:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Chloroform	1.0	0.15		ppbV	1	7/6/2023 11:43:00 AM
Chloromethane	0.40	0.15		ppbV	1	7/6/2023 11:43:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-016A

Client Sample ID: SVW-15
 Tag Number: 555,1157
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Ethyl acetate	0.27	0.15		ppbV	1	7/6/2023 11:43:00 AM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Freon 11	4.6	1.5		ppbV	10	7/7/2023 3:51:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Freon 12	0.67	0.15		ppbV	1	7/6/2023 11:43:00 AM
Heptane	0.10	0.15	J	ppbV	1	7/6/2023 11:43:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Hexane	0.26	0.15		ppbV	1	7/6/2023 11:43:00 AM
Isopropyl alcohol	3.9	1.5		ppbV	10	7/7/2023 3:51:00 PM
m&p-Xylene	0.11	0.30	J	ppbV	1	7/6/2023 11:43:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 11:43:00 AM
Methyl Ethyl Ketone	0.87	0.30		ppbV	1	7/6/2023 11:43:00 AM
Methyl Isobutyl Ketone	0.28	0.30	J	ppbV	1	7/6/2023 11:43:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Methylene chloride	0.86	0.15		ppbV	1	7/6/2023 11:43:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Styrene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Tetrachloroethylene	4.6	1.5		ppbV	10	7/7/2023 3:51:00 PM
Tetrahydrofuran	0.47	0.15		ppbV	1	7/6/2023 11:43:00 AM
Toluene	0.52	0.15		ppbV	1	7/6/2023 11:43:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Trichloroethene	0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	7/6/2023 11:43:00 AM

Qualifiers:

DL Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-017A

Client Sample ID: SVW-16
Tag Number: 328,251
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,2,4-Trimethylbenzene	2.1	1.5		ppbV	10	7/7/2023 4:34:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,3,5-Trimethylbenzene	0.95	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,3-Dichlorobenzene	0.30	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 12:29:00 PM
2,2,4-trimethylpentane	26	6.0		ppbV	40	7/7/2023 5:17:00 PM
4-ethyltoluene	0.81	0.15		ppbV	1	7/6/2023 12:29:00 PM
Acetone	47	12		ppbV	40	7/7/2023 5:17:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Benzene	20	1.5		ppbV	10	7/7/2023 4:34:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Carbon disulfide	7.7	1.5		ppbV	10	7/7/2023 4:34:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Chlorobenzene	0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Chloroethane	0.44	0.15		ppbV	1	7/6/2023 12:29:00 PM
Chloroform	3.2	1.5		ppbV	10	7/7/2023 4:34:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
cis-1,2-Dichloroethene	0.92	0.15		ppbV	1	7/6/2023 12:29:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Cyclohexane	10	1.5		ppbV	10	7/7/2023 4:34:00 PM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-017A

Client Sample ID: SVW-16
Tag Number: 328,251
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Ethylbenzene	1.9	0.15		ppbV	1	7/6/2023 12:29:00 PM
Freon 11	0.10	0.15	J	ppbV	1	7/6/2023 12:29:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Freon 114	0.45	0.15		ppbV	1	7/6/2023 12:29:00 PM
Freon 12	0.49	0.15		ppbV	1	7/6/2023 12:29:00 PM
Heptane	2.3	1.5		ppbV	10	7/7/2023 4:34:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Hexane	20	1.5		ppbV	10	7/7/2023 4:34:00 PM
Isopropyl alcohol	8.2	1.5		ppbV	10	7/7/2023 4:34:00 PM
m&p-Xylene	5.1	3.0		ppbV	10	7/7/2023 4:34:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 12:29:00 PM
Methyl Ethyl Ketone	15	3.0		ppbV	10	7/7/2023 4:34:00 PM
Methyl Isobutyl Ketone	4.0	3.0		ppbV	10	7/7/2023 4:34:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Methylene chloride	0.73	0.15		ppbV	1	7/6/2023 12:29:00 PM
o-Xylene	1.9	1.5		ppbV	10	7/7/2023 4:34:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Styrene	1.3	0.15		ppbV	1	7/6/2023 12:29:00 PM
Tetrachloroethylene	2.4	1.5		ppbV	10	7/7/2023 4:34:00 PM
Tetrahydrofuran	21	6.0		ppbV	40	7/7/2023 5:17:00 PM
Toluene	10	1.5		ppbV	10	7/7/2023 4:34:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Trichloroethene	1.5	0.15		ppbV	1	7/6/2023 12:29:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Surr: Bromofluorobenzene	111	70-130		%REC	1	7/6/2023 12:29:00 PM

Qualifiers:

DL Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-018A

Client Sample ID: AS-1
Tag Number: 171,402
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-4			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 4:17:00 PM
2,2,4-trimethylpentane	0.23	0.15		ppbV	1	7/5/2023 4:17:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Acetone	6.2	1.5		ppbV	5	7/6/2023 4:06:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Benzene	0.83	0.15		ppbV	1	7/5/2023 4:17:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Carbon disulfide	0.19	0.15		ppbV	1	7/5/2023 4:17:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Chloroform	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Chloromethane	0.67	0.15		ppbV	1	7/5/2023 4:17:00 PM
cis-1,2-Dichloroethene	0.18	0.15		ppbV	1	7/5/2023 4:17:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM

Qualifiers:	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-018A

Client Sample ID: AS-1
Tag Number: 171,402
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Ethyl acetate	0.86	0.15		ppbV	1	7/5/2023 4:17:00 PM
Ethylbenzene	0.11	0.15	J	ppbV	1	7/5/2023 4:17:00 PM
Freon 11	0.28	0.15		ppbV	1	7/5/2023 4:17:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Freon 12	0.53	0.15		ppbV	1	7/5/2023 4:17:00 PM
Heptane	0.20	0.15		ppbV	1	7/5/2023 4:17:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Hexane	0.54	0.15		ppbV	1	7/5/2023 4:17:00 PM
Isopropyl alcohol	6.1	0.75		ppbV	5	7/6/2023 4:06:00 PM
m&p-Xylene	0.28	0.30	J	ppbV	1	7/5/2023 4:17:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 4:17:00 PM
Methyl Ethyl Ketone	1.2	0.30		ppbV	1	7/5/2023 4:17:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 4:17:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Methylene chloride	0.32	0.15		ppbV	1	7/5/2023 4:17:00 PM
o-Xylene	0.13	0.15	J	ppbV	1	7/5/2023 4:17:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Tetrachloroethylene	1.1	0.15		ppbV	1	7/5/2023 4:17:00 PM
Tetrahydrofuran	0.31	0.15		ppbV	1	7/5/2023 4:17:00 PM
Toluene	2.0	0.15		ppbV	1	7/5/2023 4:17:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Trichloroethene	0.12	0.15	J	ppbV	1	7/5/2023 4:17:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Surr: Bromofluorobenzene	94.0	70-130		%REC	1	7/5/2023 4:17:00 PM

Qualifiers:

DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-2

Lab Order: C2307002

Tag Number: 459,124

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-019A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-2			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 5:01:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Acetone	6.4	1.5		ppbV	5	7/6/2023 4:47:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Benzene	0.78	0.15		ppbV	1	7/5/2023 5:01:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Carbon disulfide	0.24	0.15		ppbV	1	7/5/2023 5:01:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Chloroform	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Chloromethane	0.58	0.15		ppbV	1	7/5/2023 5:01:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM

Qualifiers:

Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-019A

Client Sample ID: AS-2
Tag Number: 459,124
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Ethyl acetate	0.48	0.15		ppbV	1	7/5/2023 5:01:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Freon 11	0.26	0.15		ppbV	1	7/5/2023 5:01:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Freon 12	0.52	0.15		ppbV	1	7/5/2023 5:01:00 PM
Heptane	0.12	0.15	J	ppbV	1	7/5/2023 5:01:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Hexane	0.35	0.15		ppbV	1	7/5/2023 5:01:00 PM
Isopropyl alcohol	3.0	0.75		ppbV	5	7/6/2023 4:47:00 PM
m&p-Xylene	0.19	0.30	J	ppbV	1	7/5/2023 5:01:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 5:01:00 PM
Methyl Ethyl Ketone	0.52	0.30		ppbV	1	7/5/2023 5:01:00 PM
Methyl Isobutyl Ketone	0.13	0.30	J	ppbV	1	7/5/2023 5:01:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Methylene chloride	0.17	0.15		ppbV	1	7/5/2023 5:01:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Tetrahydrofuran	0.18	0.15		ppbV	1	7/5/2023 5:01:00 PM
Toluene	1.4	0.15		ppbV	1	7/5/2023 5:01:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	7/5/2023 5:01:00 PM

Qualifiers:

DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-020A

Client Sample ID: TB-1
Tag Number: 170
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	+32			"Hg		7/3/2023
Lab Vacuum Out	+32			"Hg		7/3/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 3:33:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Acetone	0.59	0.30		ppbV	1	7/5/2023 3:33:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Benzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Chloroform	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM

Qualifiers:

DL	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
H	Detection Limit	E	Estimated Value above quantitation range
JN	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
S	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 11-Jul-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-020A

Client Sample ID: TB-1
Tag Number: 170
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Freon 11	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Freon 12	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Heptane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Hexane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Isopropyl alcohol	0.50	0.15		ppbV	1	7/5/2023 3:33:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	7/5/2023 3:33:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 3:33:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 3:33:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 3:33:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Toluene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Surr: Bromofluorobenzene	75.0	70-130		%REC	1	7/5/2023 3:33:00 PM

Qualifiers:

DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek Labs - Chain of Custody



143 Midler Park Drive
Syracuse, NY 13206
315-431-9730
www.CentekLabs.com

Vapor Intrusion & IAQ

Site Name: **IKEA**

Project: **Red Hook**

PO#: **08-387**

Quote # **Q-387**

Canister Order #: **9804**

Report Level:

Level I
Level II
Cal "B" Like

Detection Limit:

5ppbv
1ugM3
1ugM3 + 0.2 NYS

TAT		Check		Rush TAT		Due		Company:		Check Here if Same:		Company:		Invoice to:		Field Vacuum		Lab Vacuum**		Comments	
Turnaround Time:	One	Two	Three	Surcharge %	Date:	Regulator Number	Canister Number	Analysis Request	Start / Stop	Rec/Analysis			Address:	City, State, Zip	Email:	Phone:					
5 Business Days	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0%									Report to:								
4 Business Days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	25%									Address:								
3 Business Days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	50%									City, State, Zip								
2 Business Days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	75%									Email:								
*Next Day by 5pm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100%									Phone:								
*Next Day by Noon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	150%																	
*Same Day	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200%																	
*For Same and Next Day TAT Please Notify Lab																					
Sample ID	Date Sampled	Regulator Number	Canister Number	Analysis Request	Start / Stop	Rec/Analysis	Comments														
SVW-1	6-29-23	146	225	To 15 + Helium	28 12	-31															
SVW-1-Dup		146	233		28 12	-31	Duplicate														
SVW-2		1152	102		28 14	-51															
SVW-3		1165	203		30 14	-31															
SVW-4		172	367		27 10	-11															
SVW-5 MS/MSD		1447	218		30 16	-31	Matrix spike & Dup														
SVW-6		173	1124		30 10	-01															
SVW-7		184	83		30 16	-41															
SVW-8		1163	561		30 12	-11															
SVW-9		175	205		30 14	-11															
SVW-10		180	205		30 15	-31															
SVW-11		381	1196		30 10	-11															
SVW-12		153	318		30 12	-11															
SVW-13		250	128		30 12	-11															
SVW-14		177	241		30 14	-31															
SVW-15		555	1157		30 16	-21															
SVW-16		251	322		30 16	-31															

Chain of Custody must be completed in full. Lack of any missing information will affect your Turn Around Times (TAT)
 *** By signing Centek Labs Chain of Custody, you are accepting Centek Labs Terms and Conditions listed on the reverse side.

Chain of Custody	Print Name	Signature	Date/Time	Courier: CIRCLE ONE
Sampled by:	Steve Driscoll	[Signature]	6-29-23	FedEx UPS Pickup/Dropoff
Relinquished by:	Steve Driscoll	[Signature]	7/3/23	**For LAB USE ONLY
Received at Lab by:	Robin Fushler	[Signature]		Work Order # C2307002

Monthly SSVMS Inspection Forms

**U.S. Dredging Shipyard Site
Tax Block 612, Lot 130
Brooklyn, New York
NYSDEC - BCP Number C224043**

METHANE MITIGATION SYSTEM MEASUREMENTS

DATE: <u>2/6/23</u> WEATHER Sunny <u>48°F</u> BARO. PRESS <u>29.88Hg</u> SMES #: <u>08-387</u>	BLOWER #1	BLOWER #2	COMMENTS
Electric Control Room			<u>January 2023</u>
Current hour meter reading	63885.6	5637.2	Both blowers operating normally.
Previous hour meter reading	63288.5	4989.6	On 2-4-23 blower #1 shut down due to
			a problem with the building sprinkler
Total elapsed motor run time (hr.) (Current monitoring period)	597.1	647.6	system. The blower was restarted on
Total days operational	Approx. 5055.1	Approx. 5124.6	2-6-23.
Alarm Condition	Yes	None	
Roof Top Blowers			
Filter inlet gauge reading	-50.0" H ₂ O	-48.0" H ₂ O	
Filter outlet gauge reading	-60.0" H ₂ O	-54.0" H ₂ O	
Magnehelic gauge reading	11.0" H ₂ O	8.5" H ₂ O	
Flow at stack	360 SCFM	310 SCFM	
Methane (CH ₄) concentration At exhaust stack *	0.0	0.0	
Dilution valve	CLOSED	CLOSED	

* = Percent Gas by Volume

**Monthly Sub-Slab Vapor Mitigation System
Inspection Form
IKEA (BCP Site No. C224043)
1 Beard Street, Brooklyn, NY**

Field Personnel: DAN MARZANO
Date: 2-6-23
Weather: MTLY CLDY
Temp: 48°F
Barometric: 29.89
Pressure: _____

1. General

- a). When was the last rain event? 1-26-23
- b). Are system fans operating? Yes
- c). Any evidence of system tampering or vandalism? No
- d). Were all cleanout and sampling port caps securely attached prior to system testing?
- e). Please list caps that were not securely in place: NA

2. Operations

- a). Attach Fan Operation Routine Checklist as per Manufacturer Specifications.

3. Comments

ON 2-4-23 WE RECEIVED A LOW-VAC ALARM
ON 2-6-23 WE ARRIVED ON SITE TO FIND BLOWER #1 SHUT DOWN.
WE WERE INFORMED THAT THERE WAS A PROBLEM WITH THE SPRINKLER
SYSTEM THAT MAY HAVE CAUSED THE SHUT DOWN.
BLOWER #1 WAS RESTARTED AND NOW BOTH BLOWERS ARE OPERATING
NORMALLY.

METHANE MITIGATION SYSTEM MEASUREMENTS

DATE: <u>3/8/23</u> WEATHER Ptly Cldy 40°F BARO. PRESS <u>29.88Hg</u> SMES #: <u>08-387</u>	BLOWER #1	BLOWER #2	COMMENTS
Electric Control Room			<u>February 2023</u>
Current hour meter reading	64605.3	6356.8	Both blowers operating normally.
Previous hour meter reading	63885.6	5637.2	
Total elapsed motor run time (hr.) (Current monitoring period)	719.7	719.6	
Total days operational	Approx. 5085.1	Approx. 5154.6	
Alarm Condition	None	None	
Roof Top Blowers			
Filter inlet gauge reading	-50.0" H ₂ O	-48.0" H ₂ O	
Filter outlet gauge reading	-60.0" H ₂ O	-54.0" H ₂ O	
Magnehelic gauge reading	10.0" H ₂ O	9.0" H ₂ O	
Flow at stack	350 SCFM	330 SCFM	
Methane (CH ₄) concentration At exhaust stack *	0.0	0.0	
Dilution valve	CLOSED	CLOSED	

* = Percent Gas by Volumn

IKEA (BCP Site No. C224043)
1 Beard Street, Brooklyn, NY

1. General

- ## 2. Operations

- a). Attach Fan Operation Routine Checklist as per Manufacturer Specifications.

3. Comments

BOTH BLOWERS OPERATING NORMALLY

METHANE MITIGATION SYSTEM MEASUREMENTS

DATE: <u>4/6/23</u> WEATHER Sunny <u>40°F</u> BARO. PRESS <u>30.13Hg</u> SMES #: <u>08-387</u>	BLOWER #1	BLOWER #2	COMMENTS
Electric Control Room			<u>March 2023</u>
Current hour meter reading	65299.6	7051.2	Both blowers operating normally.
Previous hour meter reading	64605.3	6356.8	
Total elapsed motor run time (hr.) (Current monitoring period)	694.3	694.4	
Total days operational	Approx. 5114.1	Approx. 5183.6	
Alarm Condition	None	None	
Roof Top Blowers			
Filter inlet gauge reading	-58.0" H ₂ O	-48.0" H ₂ O	
Filter outlet gauge reading	-60.0" H ₂ O	-54.0" H ₂ O	
Magnehelic gauge reading	11.0" H ₂ O	8.5" H ₂ O	
Flow at stack	360 SCFM	320 SCFM	
Methane (CH ₄) concentration At exhaust stack *	0.0	0.0	
Dilution valve	CLOSED	CLOSED	

* = Percent Gas by Volumn

METHANE MITIGATION SYSTEM MEASUREMENTS

DATE: <u>5/4/23</u> WEATHER Sunny <u>54°F</u> BARO. PRESS <u>29.85 Hg</u> SMES #: <u>08-387</u>	BLOWER #1	BLOWER #2	COMMENTS
Electric Control Room			<u>April 2023</u>
Current hour meter reading	65972.8	7724.4	Both blowers operating normally.
Previous hour meter reading	65299.6	7051.2	
Total elapsed motor run time (hr.) (Current monitoring period)	673	673	
Total days operational	Approx. 5142.1	Approx. 5211.6	
Alarm Condition	None	None	
Roof Top Blowers			
Filter inlet gauge reading	-58.0" H ₂ O	-48.0" H ₂ O	
Filter outlet gauge reading	-60.0" H ₂ O	-54.0" H ₂ O	
Magnehelic gauge reading	10.0" H ₂ O	8.5" H ₂ O	
Flow at stack	340 SCFM	320 SCFM	
Methane (CH ₄) concentration At exhaust stack *	0.0	0.0	
Dilution valve	CLOSED	CLOSED	

* = Percent Gas by Volumn

IKEA (BCP Site No. C224043)
1 Beard Street, Brooklyn, NY

Field Personnel: DAVE S
Date: 5-4-23
Weather: CLDY
Temp: 54°F
Barometric: 29.85
Pressure: _____

1. General

- a). When was the last rain event? 4-29-23
- b). Are system fans operating? YES
- c). Any evidence of system tampering or vandalism? NO
- d). Were all cleanout and sampling port caps securely attached prior to system testing? YES
- e). Please list caps that were not securely in place: NA

2. Operations

- a). Attach Fan Operation Routine Checklist as per Manufacturer Specifications.

3. Comments

BOTH BLOWERS OPERATING NORMALLY

METHANE MITIGATION SYSTEM MEASUREMENTS

DATE: <u>6/2/23</u> WEATHER <u>Sunny 83°F</u> BARO. PRESS <u>29.83 Hg</u> SMES #: <u>08-387</u>	BLOWER #1	BLOWER #2	COMMENTS
Electric Control Room			<u>May 2023</u>
Current hour meter reading	66668.3	8420.0	Both blowers operating normally.
Previous hour meter reading	65972.8	7724.4	
Total elapsed motor run time (hr.) (Current monitoring period)	695	695	
Total days operational	Approx. 5171.1	Approx. 5240.6	
Alarm Condition	None	None	
Roof Top Blowers			
Filter inlet gauge reading	-56.0" H ₂ O	-48.0" H ₂ O	
Filter outlet gauge reading	-58.0" H ₂ O	-54.0" H ₂ O	
Magnehelic gauge reading	10.0" H ₂ O	9.0 H ₂ O	
Flow at stack	340 SCFM	320 SCFM	
Methane (CH ₄) concentration At exhaust stack *	0.0	0.0	
Dilution valve	CLOSED	CLOSED	

* = Percent Gas by Volumn

**Monthly Sub-Slab Vapor Mitigation System
Inspection Form
IKEA (BCP Site No. C224043)
1 Beard Street, Brooklyn, NY**

Field Personnel: DANES.
Date: 6-2-23
Weather: SUNNY
Temp: 83°F
Barometric: 29.83
Pressure: _____

1. General

- a). When was the last rain event? 5-20-23
- b). Are system fans operating? YES
- c). Any evidence of system tampering or vandalism? NO
- d). Were all cleanout and sampling port caps securely attached prior to system testing?
- e). Please list caps that were not securely in place: NA

2. Operations

- a). Attach Fan Operation Routine Checklist as per Manufacturer Specifications.

3. Comments

BOTH BLOWERS OPERATING NORMALLY

METHANE MITIGATION SYSTEM MEASUREMENTS

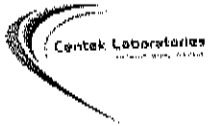
DATE: <u>6/29/23</u> WEATHER <u>Sunny 72°F</u> BARO. PRESS <u>30.04 Hg</u> SMES #: <u>08-387</u>	BLOWER #1	BLOWER #2	COMMENTS
Electric Control Room			<u>June 2023</u>
Current hour meter reading	67315.1	9066.7	Both blowers operating normally.
Previous hour meter reading	66668.3	647	
Total elapsed motor run time (hr.) (Current monitoring period)	647	695	
Total days operational	Approx. 5198.1	Approx. 5267.6	
Alarm Condition	None	None	
Roof Top Blowers			
Filter inlet gauge reading	-58.0" H ₂ O	-48.0" H ₂ O	
Filter outlet gauge reading	-59.0" H ₂ O	-54.0" H ₂ O	
Magnehelic gauge reading	10.0" H ₂ O	9.0" H ₂ O	
Flow at stack	340 SCFM	320 SCFM	
Methane (CH ₄) concentration At exhaust stack *	0.0	0.0	
Dilution valve	CLOSED	CLOSED	

* = Percent Gas by Volumn

QA/QC Samples

**U.S. Dredging Shipyard Site
Tax Block 612, Lot 130
Brooklyn, New York
NYSDEC - BCP Number C224043**

Centek/SanAir Laboratories TO-15 Package Review Checklist



Client: Soil Mechanics Project: IEKA Red Hook SDG: C2307002

		YES	NO	NA
Analytical Results	Present and Complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TIC's Present	Present and Complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Holdin Times Met	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

		YES	NO	NA
Chain of Custody	Present and Complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surrogate	Present and Complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Recoveries within Limits	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Sample(s) reanalyzed	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Internal Standards	Present and Complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recovery	Recoveries within Limits	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Sample(s) reanalyzed	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

		YES	NO	NA
Lab Control Sample (LCS)	Present and Complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Recoveries within Limits	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lab Control Sample Dupe (LCSD)	Present and Complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Recoveries within Limits	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MS/MSD	Present and Complete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Recoveries within Limits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

SEE CASE NARRATIVE

		YES	NO	NA
Sample Raw Data	Present and Complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Spectra present	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

Centek/SanAir Laboratories TO-15 Package Review Checklist



Client: Soil Mechanics

Project: IEKA Red Hook

SDG: C2307002

		YES	NO	NA
Standards Data				
Initial Calibration	Present and Complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Calibration meets criteria	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continuing Calibration	Present and Complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Calibration meets criteria	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Standards Raw Data	Present and Complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

Raw Quality Control Data

Tune Criteria Report	Present and Complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Method Blank Data	MB Results <PQL	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Associated results flagged "B"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LCS Sample Data	Present and Complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LCSD Sample Data	Present and Complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MS/MSD Sample Data	Present and Complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

Logbooks

Injection Log	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Standards Log	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Can Cleaning Log	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calculation Sheet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IDL's	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canister Order Form	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample Tracking Form	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Comments:

Section Supervisor:

W. Dahl

Date:

8/7/2023

QC Supervisor:

H. J.

Date:

8/7/20

ASP CAT B DELIVERABLE PACKAGE

Table of Contents

1. Package Review Check List
2. Case Narrative
 - a. Corrective actions
3. Sample Summary Form
4. Sample Tracking Form
5. Bottle Order
6. Analytical Results
 - a. Form 1
7. Quality Control Summary
 - a. Qc Summary Report
 - b. IS Summary Report
 - c. MB Summary Report
 - d. LCS Summary Report
 - e. MSD Summary Report
 - f. IDL's
 - g. Calculation
8. Sample Data
 - a. Form 1 (if requested) TIC's
 - b. Quantitation Report with Spectra
9. Standards Data
 - a. Initial Calibration with Quant Report
 - b. Continuing Calibration with Quant Report
10. Raw Data
 - a. Tuning Data
11. Raw QC Data
 - a. Method Blank
 - b. LCS
 - c. MS/MSD
12. Log Books
 - a. Injection Log Book
 - b. Standards Log Book
 - c. QC Canister Log Book



Centek/SanAir Technologies Laboratory

143 Midler Park Drive * Syracuse, NY 13206

Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752

NYSDOH ELAP

Certificate No. 11830

Analytical Report

Dan Marzano
SOIL MECHANICS
3770 Merrick Road
Seaford, NY 11783

Tuesday, July 11, 2023
Order No.: C2307002

TEL: 516-221-7500

FAX 516-679-1900

RE: IKEA Red Hook

Dear Dan Marzano:

Centek/SanAir Technologies Laboratory received 20 sample(s) on 7/3/2023 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Centek/SanAir Laboratories performs all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services. Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek/SanAir Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

William Dobbin
Lead Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek/SanAir as contained in this report are believed by Centek to be accurate and

reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek/SanAir for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages. ELAP does not offer certification for the following parameters by this method at present time, they are: 4-ethyltoluene, ethyl acetate, propylene, Tetrahydrofuran, 4-PCH, sulfur derived and silicon series compounds.

Centek/SanAir Laboratories - Terms and Conditions

Chain of Custody

Chain of Custody must be completed in full. Lack of any missing information will affect your

Turn Around Times (TAT)

Internal Chain of Custody provided when you notify Centek/SanAir Laboratories

Sample Submission

All samples sent to Centek/SanAir Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website

www.Centek/SanAirLabs.us. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in a canister or a Tedlar bag. Depending on your analytical needs, Centek/SanAir Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek/SanAir Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any damages of equipment.

****Any sampling equipment that exceeds holding times, cancellation of job or non-notice of rescheduling is subject to restocking fees****

Turn Around time (TAT)

Centek/SanAir Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis (add 10%/sample for Cat B). Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:

Same day TAT = 200%

Next business day TAT by Noon = 150%

Next business day TAT by 6:00pm = 100%

Second business day TAT by 6:00pm = 75%

Third business day TAT by 6:00pm = 50%

Fourth business day TAT by 6:00pm = 35%

Fifth business day = Standard

Statement of Confidentiality

Centek/SanAir Laboratories is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek/SanAir Laboratories warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek/SanAir Laboratories. In no event shall Centek/SanAir Laboratories be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek/SanAir Laboratories has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.



Centek/SanAir Technologies Laboratory

Date: 07-Aug-23

CLIENT: SOIL MECHANICS

Project: IKEA Red Hook

Lab Order: C2307002

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Centek Laboratories, LLC SOP TS-80

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

NYSDEC ASP samples:

Canisters should be evacuated to a reading of less than or equal to 50 millitorr prior to shipment to sampling personnel. The vacuum in the canister will be field checked prior to sampling, and must read 28" of Hg (± 2 ", vacuum, absolute) before a sample can be collected. After the sample has been collected, the pressure of the canister will be read and recorded again, and must be 5" of Hg (± 1 ", vacuum, absolute) for the sample to be valid. Once received at the laboratory, the canister vacuum should be confirmed to be 5" of Hg, ± 1 ". Please record and report the pressure/vacuum of received canisters on the sample receipt paperwork. A pressure/vacuum reading should also be taken just prior to the withdrawal of sample from the canister, and recorded on the sample preparation log sheet. All regulators are calibrated to meet these requirements before they leave the laboratory. However, due to environmental conditions and use of the equipment Centek can not guarantee that this criteria can always be achieved.

See Corrective Action: [4632] LCS and LCSD did not meet criteria

See Corrective Action: [4633] CC did not meet criteria for samples.

Centek/SanAir Technologies Laboratory

Corrective Action Report

Date Initiated: 06-Jul-23

Corrective Action Report ID: 4632

Initiated By: Russell Pellegrino

Department: MSVOA

Corrective Action Description

CAR Summary: LCS and LCSD did not meet criteria

Description of Nonconformance: LCS and LCSD-070523 & 070723 had many compounds outside criteria. Continuing calibration met criteria. All associated IS and surrogates did meet criteria.

Root/Cause(s):

Description of Corrective Action w/Proposed C.A.: Both the LCS and LCSD show similar results. The initial 1x dilution met criteria in all the samples. This does not impact the quality of the data but should be noted that LCS and LCSD was bias low.

Performed By: Russell Pellegrino

Completion Date: 08-Jul-23

Client Notification

Client Notification Required: No

Notified By:

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: At this time no further corrective action taken. All sets of data submitted.


Approval and Closure

Technical Director /
Deputy Tech. Dir.:


Russell Pellegrino

Close Date: 11-Jul-23

QA Officer Approval:


William Dobbins

QA Date: 11-Jul-23

Last Updated BY: russ

Updated: 07-Aug-2023 2:09 PM

Reported: 07-Aug-2023 2:09 PM

Centek/SanAir Technologies Laboratory

Corrective Action Report

Date Initiated: 06-Jul-23

Corrective Action Report ID: 4633

Initiated By: Russell Pellegrino

Department: MSVOA

Corrective Action Description

CAR Summary: CC did not meet criteria for samples.

Description of Nonconformance: CC070523 and CC070623 did not meet criteria for benzyl chloride. Results were low. Compound was not detected in associated samples. Criteria were met for benzyl chloride in the LCS and LCSD.

Description of Corrective Action w/Proposed C.A.: Since compound was not detected in associated samples and criteria were met in the LCS and LCSD, no corrective action taken at this time. All sets of data submitted.

Performed By: Russell Pellegrino

Completion Date: 08-Jul-23

Client Notification

Client Notification Required: No

Notified By:

Comment:


Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: At this time no further corrective action taken. All sets of data submitted

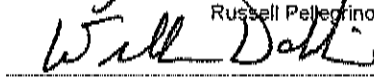
Approval and Closure

Technical Director /
Deputy Tech. Dir.:


Russell Pellegrino

Close Date: 11-Jul-23

QA Officer Approval:


William Dobbins

QA Date: 11-Jul-23

Last Updated BY: russ

Updated: 07-Aug-2023 2:19 PM

Reported: 07-Aug-2023 2:26 PM

Centek Labs - Chain of Custody				Site Name: <u>IKEA</u>		Detection Limit		Report Level	
143 Midler Park Drive Syracuse, NY 13206 315-431-9730 www.CentekLabs.com				Project: <u>Red Hawk</u>		<input type="checkbox"/> 5ppbw <input checked="" type="checkbox"/> 1ug/M3 <input type="checkbox"/> 1ugM3 + 0.2 NYS		<input type="checkbox"/> Level I <input type="checkbox"/> Level II <input checked="" type="checkbox"/> Cat "B" Like	
Vapor Intrusion & IAQ				PO#: <u>08-387</u>					
Company: <u>Soil Mech</u>				Quote # <u>Q-SP</u>					
Canister Order #: <u>9804</u>				Company: <u>Check Here if Same:</u>					
Report to:				Invoice to:					
Address: <u>3770 Merrick Rd.</u>				Address:					
City, State, Zip				City, State, Zip					
Email: <u>Sailmech@earthlink.net</u>				Email:					
Phone: <u>516-221-7500</u>				Phone:					
TAT				Canister Number		Regulator Number		Analysis Request	
Turnaround Time:				Sample ID		Date Sampled		Please Notify Lab	
5 Business Days				SVW-1		6-29-23		↑	
4 Business Days				SVW-1-Dup		↑			
3 Business Days				SVW-2		↑			
2 Business Days				SVW-3		↑			
*Next Day by 5pm				SVW-4		↑			
*Next Day by Noon				SVW-5 MS/MSD		↑			
*Same Day				SVW-6		↑			
*For Same and Next Day TAT Please Notify Lab				SVW-7		↑			
				SVW-8		↑			
				SVW-9		↑			
				SVW-10		↑			
				SVW-11		↑			
				SVW-12		↑			
				SVW-13		↑			
				SVW-14		↑			
				SVW-15		↑			
				SVW-16		↑			
Chain of Custody				Print Name		Signature		Date/Time	
Sampled by:				Steve Anderson		[Signature]		6-29-23	
Relinquished by:				Robert L. Allen		[Signature]		7/3/23	
Received at Lab by:				Robert L. Allen		[Signature]		7/3/23	
				Courier: CIRCLE ONE		FedEx UPS Pickup/Dropoff		Work Order # <u>2307002</u>	

***Chain of Custody must be completed in full. Lack of any missing information will affect your Turn Around Times (TAT)
 *** By signing Centek Labs Chain of Custody, you are accepting Centek Labs Terms and Conditions listed on the reverse side.

1 of 2

Centek Labs - Chain of Custody										
Centek Laboratories 143 Midler Park Drive Syracuse, NY 13206 315-431-9730 www.CentekLabs.com			Site Name: <u>JKFA</u> Project: <u>RFA HOSK</u> PO#: <u>08-387</u> Quote # <u>Q-3P</u> Canister Order #: <u>9304</u>			Detection Limit <input type="checkbox"/> 5ppbv <input checked="" type="checkbox"/> 1ugM3 <input type="checkbox"/> 1ugM3 + 0.2 NYS		Report Level <input type="checkbox"/> Level I <input type="checkbox"/> Level II <input checked="" type="checkbox"/> Cal "B" Like		
Company: <u>Soil Mech</u> Report to: <u>3770 Merrick Rd.</u> Address: <u>Sydney N.Y. 11787</u> City, State, Zip: <u>Sydney N.Y. 11787</u> Email: <u>soilmechan@earthlink.net</u> Phone: <u>516-221-7500</u>			Company: <u>Soil Mech</u> Invoice to: <u>3770 Merrick Rd.</u> Address: <u>Sydney N.Y. 11787</u> City, State, Zip: <u>Sydney N.Y. 11787</u> Email: <u>soilmechan@earthlink.net</u> Phone: <u>516-221-7500</u>			Check Here If Same: <input type="checkbox"/>				
Canister Number Regulator Number Analysis Request Date Sampled			Canister Number Regulator Number Analysis Request Date Sampled			Field Vacuum Start / Stop		Labs Vacuum** RecV/Analysis		
AS-1 AS-2 TB-1			171 124 170			402 124 170			29.5 30.5 1	
6-29-23 ↑ ↓			6-29-23 ↑ ↓			29.5 30.5 1			-4 -2 Trip Blank	
Turnaround Time: 5 Business Days 4 Business Days 3 Business Days 2 Business Days *Next Day by 5pm *Next Day by Noon *Same Day			Check Rush TAT One <input checked="" type="checkbox"/> Two <input type="checkbox"/> Three <input type="checkbox"/> Four <input type="checkbox"/> Five <input type="checkbox"/> Six <input type="checkbox"/> Seven <input type="checkbox"/> Eight <input type="checkbox"/> Nine <input type="checkbox"/> Ten <input type="checkbox"/>			Date Sampled Date Sampled Date Sampled Date Sampled Date Sampled Date Sampled Date Sampled			Comments	
Chain of Custody Sampled by: <u>Devin Bughlaw</u> Relinquished by: <u>Devin Bughlaw</u> Received at Lab by: <u>Devin Bughlaw</u>			Print Name Signature Date/Time			Courier: CIRCLE ONE FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Pickup/Dropoff <input type="checkbox"/>			Work Order # <u>27307002</u>	



Centek/SanAir Technologies Laboratory

Sample Receipt Checklist

Client Name SOIL MECHANICS

Date and Time Receive

7/3/2023

Work Order Number C2307002

Received by: RG

Checklist completed by

Signature

Date

Reviewed by

Initials

Date

Matrix:

Carrier name: UPS - Ground

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
COC signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
COC agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
COC completely filled out?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Adjusted?

Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action

QC'd By:

DATE:



Centek/SanAir Technologies Laboratory

Date: 04-Aug-23

CLIENT: SOIL MECHANICS

Project: IKEA Red Hook

Lab Order: C2307002

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C2307002-001A	SVW-1	225,146	6/29/2023	7/3/2023
C2307002-002A	SVW-1 Dup	233,146	6/29/2023	7/3/2023
C2307002-003A	SVW-2	102,1152	6/29/2023	7/3/2023
C2307002-004A	SVW-3	203,1165	6/29/2023	7/3/2023
C2307002-005A	SVW-4	367,172	6/29/2023	7/3/2023
C2307002-006A	SVW-5 MS/MSD	218,1447	6/29/2023	7/3/2023
C2307002-007A	SVW-6	1184,173	6/29/2023	7/3/2023

CLIENT: SOIL MECHANICS
Project: IKEA Red Hook
Lab Order: C2307002

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C2307002-008A	SVW-7	83,184	6/29/2023	7/3/2023
C2307002-009A	SVW-8	561,1163	6/29/2023	7/3/2023
C2307002-010A	SVW-9	96.175	6/29/2023	7/3/2023
C2307002-011A	SVW-10	205.180	6/29/2023	7/3/2023
C2307002-012A	SVW-11	1190,381	6/29/2023	7/3/2023
C2307002-013A	SVW-12	318.153	6/29/2023	7/3/2023
C2307002-014A	SVW-13	128,250	6/29/2023	7/3/2023
C2307002-015A	SVW-14	241,177	6/29/2023	7/3/2023

CLIENT: SOIL MECHANICS
Project: IKEA Red Hook
Lab Order: C2307002

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C2307002-016A	SVW-15	555,1157	6/29/2023	7/3/2023
C2307002-017A	SVW-16	328,251	6/29/2023	7/3/2023
C2307002-018A	AS-1	171,402	6/29/2023	7/3/2023
C2307002-019A	AS-2	459,124	6/29/2023	7/3/2023
C2307002-020A	TB-1	170	6/29/2023	7/3/2023

Lab Order: C2307002
Client: SOIL MECHANICS
Project: IKEA Red Hook

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2307002-001A	SVW-1	6/29/2023	Air	Lug/M3 by Method TO15			7/6/2023
				Lug/M3 by Method TO15			7/5/2023
				Helium Leak Test			7/10/2023
2307002-002A	SVW-1 Dup			Lug/M3 by Method TO15			7/5/2023
				Lug/M3 by Method TO15			7/6/2023
				Helium Leak Test			7/10/2023
2307002-003A	SVW-2			Lug/M3 by Method TO15			7/6/2023
				Lug/M3 by Method TO15			7/5/2023
				Helium Leak Test			7/10/2023
2307002-004A	SVW-3			Lug/M3 by Method TO15			7/6/2023
				Lug/M3 by Method TO15			7/6/2023
				Lug/M3 by Method TO15			7/5/2023
				Helium Leak Test			7/10/2023
2307002-005A	SVW-4			Lug/M3 by Method TO15			7/5/2023
				Lug/M3 by Method TO15			7/6/2023
				Helium Leak Test			7/10/2023
2307002-006A	SVW-5 MS/MSD			Lug/M3 by Method TO15			7/6/2023
				Lug/M3 by Method TO15			7/5/2023
				Helium Leak Test			7/10/2023
2307002-007A	SVW-6			Lug/M3 by Method TO15			7/5/2023
				Lug/M3 by Method TO15			7/6/2023
				Helium Leak Test			7/10/2023
2307002-008A	SVW-7			Lug/M3 by Method TO15			7/6/2023
				Lug/M3 by Method TO15			7/6/2023
				Lug/M3 by Method TO15			7/6/2023
				Helium Leak Test			7/10/2023
2307002-009A	SVW-8			Lug/M3 by Method TO15			7/6/2023
				Lug/M3 by Method TO15			7/7/2023

Lab Order: C2307002

Client: SOIL MECHANICS

Project: IKEA Red Hook

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C2307002-009A	SVW-8	6/29/2023	Air	lug/M3 by Method TO15			7/7/2023
				Helium Leak Test			
C2307002-010A	SVW-9			lug/M3 by Method TO15			7/10/2023
				lug/M3 by Method TO15			7/7/2023
				Helium Leak Test			7/6/2023
C2307002-011A	SVW-10			lug/M3 by Method TO15			7/10/2023
				lug/M3 by Method TO15			7/6/2023
				Helium Leak Test			7/7/2023
C2307002-012A	SVW-11			lug/M3 by Method TO15			7/10/2023
				lug/M3 by Method TO15			7/6/2023
				Helium Leak Test			7/7/2023
C2307002-013A	SVW-12			lug/M3 by Method TO15			7/10/2023
				lug/M3 by Method TO15			7/6/2023
				lug/M3 by Method TO15			7/7/2023
				Helium Leak Test			7/7/2023
C2307002-014A	SVW-13			lug/M3 by Method TO15			7/10/2023
				lug/M3 by Method TO15			7/6/2023
				lug/M3 by Method TO15			7/7/2023
				Helium Leak Test			7/7/2023
C2307002-015A	SVW-14			lug/M3 by Method TO15			7/10/2023
				lug/M3 by Method TO15			7/6/2023
				lug/M3 by Method TO15			7/7/2023
				Helium Leak Test			7/7/2023
C2307002-016A	SVW-15			lug/M3 by Method TO15			7/10/2023
				lug/M3 by Method TO15			7/6/2023
				Helium Leak Test			7/7/2023
C2307002-017A	SVW-16			lug/M3 by Method TO15			7/10/2023
				lug/M3 by Method TO15			7/6/2023
				Helium Leak Test			7/7/2023
				lug/M3 by Method TO15			7/7/2023
				lug/M3 by Method TO15			7/7/2023

Lab Order: C2307002
Client: SOIL MECHANICS
Project: IKEA Red Hook

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C2307002-017A	SVW-16	6/29/2023	Air	lug/M3 by Method TO15 Helium Leak Test			7/6/2023
C2307002-018A	AS-1			lug/M3 by Method TO15 lug/M3 by Method TO15 Helium Leak Test			7/10/2023 7/5/2023 7/6/2023
C2307002-019A	AS-2			lug/M3 by Method TO15 lug/M3 by Method TO15 Helium Leak Test			7/10/2023 7/5/2023 7/6/2023
C2307002-020A	TB-1			lug/M3 by Method TO15			7/10/2023 7/5/2023


Centek/SanAir Technologies Laboratory
Air Quality Testing...It's a Gas

143 Midler Park Drive * Syracuse, NY 1320

TEL: 315-431-9730 * FAX: 315-431-973

CANISTER ORDER
9804

04-Aug-23

SHIPPED TO:

Company: SOIL MECHANICS

Contact: Dan Marzano

Address: 3770 Merrick Road

Scaford, NY 11783

Phone: 516-221-7500

Quote ID: 0

Project:

PO:

Submitted By:

MadeBy: rjp

Ship Date: 6/22/2023

VIA: UPS - Ground

Due Date: 6/27/2023

Bottle Code	Bottle Type	TEST(s)	QTY
MC1400CC	1.4L Mini-Can	1ug/M3 by Method TO15	1
MC1000CC	1L Mini-Can	1ug/M3 by Method TO15	21

Can / Reg ID	Description
279	Time-Set Reg - 635 VI
318	1L Mini-Can - 1281 VI
328	1L Mini-Can - 1291 VI
241	1L Mini-Can - 1173 VI
250	Time-Set Reg - 688 VI
251	Time-Set Reg - 689 VI
218	1.4L Mini-Can - 1124 VI
225	1L Mini-Can - 1187 VI
233	1L Mini-Can - 1164 VI
367	1L Mini-Can - 1316 VI
381	Time-Set Reg - 755 VI
402	Time-Set Reg - 781 VI
459	1L Mini-Can - 1362 VI
94	1L Mini-Can - 1086 VI
96	1L Mini-Can - 1088 VI
102	1L Mini-Can - 1084 VI
124	Time-Set Reg - 628 VI
128	1L Mini-Can - 1076 VI
83	1L Mini-Can - 1085 VI
146	Time-Set Reg - 641 VI
147	Time-Set Reg - 642 VI
153	Time-Set Reg - 648 VI
170	1L Mini-Can - 1141 VI
171	1L Mini-Can - 1142 VI
172	Time-Set Reg - 656 VI
173	Time-Set Reg - 666 VI
175	Time-Set Reg - 658 VI
177	Time-Set Reg - 660 VI
180	Time-Set Reg - 654 VI
184	Time-Set Reg - 810R VI
203	1L Mini-Can - 1158 VI
205	1L Mini-Can - 1160 VI

SHIPPED TO:

Company: SOIL MECHANICS
 Contact: Dan Marzano
 Address: 3770 Merrick Road
 Seaford, NY 11783
 Phone: 516-221-7500
 Quote ID: 0
 Project:
 PO:

Submitted By:

MadeBy: rjp

Ship Date: 6/22/2023

VIA: UPS - Ground

Due Date: 6/27/2023

Bottle Code	Bottle Type	TEST(s)	QTY
555	1L Mini-Can - 123 VI		
561	1L Mini-Can - 130 VI		
1163	Time-Set Reg-0676 VI		
1165	Time-Set Reg-0678 VI		
1152	Time-Set Reg-0744 VI		
1157	Time-Set Reg-VI		
1184	1L Mini-Can - 1248 VI		
1190	1L Mini-Can - 1257 VI		
1447	Time-Set Reg-0547 IAQ		
1450	1L Mini-Can - 7651 VI		

Comments: (19) 1L @ 2 hr. + (1) 1.4 @ 2hr + dupe + trip blank IKEA Site WAC 123022A-B. 060923A-F

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-1

Lab Order: C2307002

Tag Number: 225,146

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-001A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC				Analyst: RJP
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 8:11:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Acetone	2.0	0.60		ppbV	2	7/6/2023 6:12:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Benzene	0.23	0.15		ppbV	1	7/5/2023 8:11:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Carbon disulfide	0.23	0.15		ppbV	1	7/5/2023 8:11:00 PM
Carbon tetrachloride	1.0	0.15		ppbV	1	7/5/2023 8:11:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Chloroform	0.49	0.15		ppbV	1	7/5/2023 8:11:00 PM
Chloromethane	0.14	0.15	J	ppbV	1	7/5/2023 8:11:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 1 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-001A

Client Sample ID: SVW-1
 Tag Number: 225,146
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Freon 11	1.7	0.15		ppbV	1	7/5/2023 8:11:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Freon 12	0.77	0.15		ppbV	1	7/5/2023 8:11:00 PM
Heptane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Hexane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Isopropyl alcohol	1.5	0.15		ppbV	1	7/5/2023 8:11:00 PM
m&p-Xylene	0.16	0.30	J	ppbV	1	7/5/2023 8:11:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 8:11:00 PM
Methyl Ethyl Ketone	0.32	0.30		ppbV	1	7/5/2023 8:11:00 PM
Methyl Isobutyl Ketone	0.95	0.30		ppbV	1	7/5/2023 8:11:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Methylene chloride	0.13	0.15	J	ppbV	1	7/5/2023 8:11:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Tetrachloroethylene	0.18	0.15		ppbV	1	7/5/2023 8:11:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Toluene	0.24	0.15		ppbV	1	7/5/2023 8:11:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Surr: Bromofluorobenzene	90.0	70-130		%REC	1	7/5/2023 8:11:00 PM

Qualifiers: . Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 2 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-1

Lab Order: C2307002

Tag Number: 225,146

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-001A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 8:11:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 8:11:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 8:11:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 8:11:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:11:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 8:11:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 8:11:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 8:11:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:11:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 8:11:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 8:11:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 8:11:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 8:11:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:11:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:11:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 8:11:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 8:11:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 8:11:00 PM
Acetone	4.8	1.4		ug/m3	2	7/6/2023 6:12:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 8:11:00 PM
Benzene	0.73	0.48		ug/m3	1	7/5/2023 8:11:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 8:11:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 8:11:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 8:11:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 8:11:00 PM
Carbon disulfide	0.72	0.47		ug/m3	1	7/5/2023 8:11:00 PM
Carbon tetrachloride	6.5	0.94		ug/m3	1	7/5/2023 8:11:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 8:11:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 8:11:00 PM
Chloroform	2.4	0.73		ug/m3	1	7/5/2023 8:11:00 PM
Chloromethane	0.29	0.31	J	ug/m3	1	7/5/2023 8:11:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:11:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 8:11:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 8:11:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 8:11:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	7/5/2023 8:11:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 8:11:00 PM
Freon 11	9.3	0.84		ug/m3	1	7/5/2023 8:11:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 8:11:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 8:11:00 PM

Qualifiers: Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 1 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-1

Lab Order: C2307002

Tag Number: 225,146

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-001A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	3.8	0.74		ug/m3	1	7/5/2023 8:11:00 PM
Heptane	< 0.61	0.61		ug/m3	1	7/5/2023 8:11:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 8:11:00 PM
Hexane	< 0.53	0.53		ug/m3	1	7/5/2023 8:11:00 PM
Isopropyl alcohol	3.7	0.37		ug/m3	1	7/5/2023 8:11:00 PM
m&p-Xylene	0.69	1.3	J	ug/m3	1	7/5/2023 8:11:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 8:11:00 PM
Methyl Ethyl Ketone	0.94	0.88		ug/m3	1	7/5/2023 8:11:00 PM
Methyl Isobutyl Ketone	3.9	1.2		ug/m3	1	7/5/2023 8:11:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 8:11:00 PM
Methylene chloride	0.45	0.52	J	ug/m3	1	7/5/2023 8:11:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 8:11:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 8:11:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 8:11:00 PM
Tetrachloroethylene	1.2	1.0		ug/m3	1	7/5/2023 8:11:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 8:11:00 PM
Toluene	0.90	0.57		ug/m3	1	7/5/2023 8:11:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:11:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 8:11:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 8:11:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 8:11:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 8:11:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 8:11:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 2 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-1 Dup

Lab Order: C2307002

Tag Number: 233,146

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-002A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	7/5/2023 8:55:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 8:55:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Acetone	3.8	1.5		ppbV	5	7/6/2023 6:54:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Benzene	0.25	0.15		ppbV	1	7/5/2023 8:55:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Carbon disulfide	0.46	0.15		ppbV	1	7/5/2023 8:55:00 PM
Carbon tetrachloride	1.1	0.15		ppbV	1	7/5/2023 8:55:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Chloroform	0.49	0.15		ppbV	1	7/5/2023 8:55:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 3 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-1 Dup

Lab Order: C2307002

Tag Number: 233,146

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-002A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Ethyl acetate	0.16	0.15		ppbV	1	7/5/2023 8:55:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Freon 11	1.7	0.15		ppbV	1	7/5/2023 8:55:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Freon 12	0.84	0.15		ppbV	1	7/5/2023 8:55:00 PM
Heptane	0.10	0.15	J	ppbV	1	7/5/2023 8:55:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Hexane	0.17	0.15		ppbV	1	7/5/2023 8:55:00 PM
Isopropyl alcohol	3.7	0.75		ppbV	5	7/6/2023 6:54:00 PM
m&p-Xylene	0.49	0.30		ppbV	1	7/5/2023 8:55:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 8:55:00 PM
Methyl Ethyl Ketone	0.40	0.30		ppbV	1	7/5/2023 8:55:00 PM
Methyl Isobutyl Ketone	2.0	1.5		ppbV	5	7/6/2023 6:54:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Methylene chloride	0.19	0.15		ppbV	1	7/5/2023 8:55:00 PM
o-Xylene	0.16	0.15		ppbV	1	7/5/2023 8:55:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Tetrachloroethylene	0.18	0.15		ppbV	1	7/5/2023 8:55:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Toluene	0.36	0.15		ppbV	1	7/5/2023 8:55:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Surr; Bromofluorobenzene	90.0	70-130		%REC	1	7/5/2023 8:55:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 4 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-1 Dup

Lab Order: C2307002

Tag Number: 233,146

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-002A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 8:55:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 8:55:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 8:55:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 8:55:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:55:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 8:55:00 PM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	7/5/2023 8:55:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 8:55:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:55:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 8:55:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 8:55:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 8:55:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 8:55:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:55:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:55:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 8:55:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 8:55:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 8:55:00 PM
Acetone	8.9	3.6		ug/m3	5	7/6/2023 6:54:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 8:55:00 PM
Benzene	0.80	0.48		ug/m3	1	7/5/2023 8:55:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 8:55:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 8:55:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 8:55:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 8:55:00 PM
Carbon disulfide	1.4	0.47		ug/m3	1	7/5/2023 8:55:00 PM
Carbon tetrachloride	6.7	0.94		ug/m3	1	7/5/2023 8:55:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 8:55:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 8:55:00 PM
Chloroform	2.4	0.73		ug/m3	1	7/5/2023 8:55:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	7/5/2023 8:55:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:55:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 8:55:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 8:55:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 8:55:00 PM
Ethyl acetate	0.58	0.54		ug/m3	1	7/5/2023 8:55:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 8:55:00 PM
Freon 11	9.6	0.84		ug/m3	1	7/5/2023 8:55:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 8:55:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 8:55:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 3 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-1 Dup

Lab Order: C2307002

Tag Number: 233.146

Project: IKEA Rcd Hook

Collection Date: 6/29/2023

Lab ID: C2307002-002A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	4.2	0.74		ug/m3	1	7/5/2023 8:55:00 PM
Heptane	0.41	0.61	J	ug/m3	1	7/5/2023 8:55:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 8:55:00 PM
Hexane	0.60	0.53		ug/m3	1	7/5/2023 8:55:00 PM
Isopropyl alcohol	9.1	1.8		ug/m3	5	7/6/2023 6:54:00 PM
m&p-Xylene	2.1	1.3		ug/m3	1	7/5/2023 8:55:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 8:55:00 PM
Methyl Ethyl Ketone	1.2	0.88		ug/m3	1	7/5/2023 8:55:00 PM
Methyl Isobutyl Ketone	8.0	6.1		ug/m3	5	7/6/2023 6:54:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 8:55:00 PM
Methylene chloride	0.66	0.52		ug/m3	1	7/5/2023 8:55:00 PM
o-Xylene	0.69	0.65		ug/m3	1	7/5/2023 8:55:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 8:55:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 8:55:00 PM
Tetrachloroethylene	1.2	1.0		ug/m3	1	7/5/2023 8:55:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 8:55:00 PM
Toluene	1.4	0.57		ug/m3	1	7/5/2023 8:55:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:55:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 8:55:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 8:55:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 8:55:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 8:55:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 8:55:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte, Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 4 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-2

Lab Order: C2307002

Tag Number: 102,1152

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-003A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-5			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 9:39:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Acetone	6.4	3.0		ppbV	10	7/6/2023 7:37:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Benzene	0.74	0.15		ppbV	1	7/5/2023 9:39:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Carbon disulfide	0.23	0.15		ppbV	1	7/5/2023 9:39:00 PM
Carbon tetrachloride	0.35	0.15		ppbV	1	7/5/2023 9:39:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Chloroform	0.18	0.15		ppbV	1	7/5/2023 9:39:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Cyclohexane	0.14	0.15	J	ppbV	1	7/5/2023 9:39:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte, Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 5 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-2

Lab Order: C2307002

Tag Number: 102,1152

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-003A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Ethyl acetate	0.24	0.15		ppbV	1	7/5/2023 9:39:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Freon 11	0.59	0.15		ppbV	1	7/5/2023 9:39:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Freon 12	0.62	0.15		ppbV	1	7/5/2023 9:39:00 PM
Heptane	0.12	0.15	J	ppbV	1	7/5/2023 9:39:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Hexane	0.38	0.15		ppbV	1	7/5/2023 9:39:00 PM
Isopropyl alcohol	3.4	1.5		ppbV	10	7/6/2023 7:37:00 PM
m&p-Xylene	0.11	0.30	J	ppbV	1	7/5/2023 9:39:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 9:39:00 PM
Methyl Ethyl Ketone	0.69	0.30		ppbV	1	7/5/2023 9:39:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 9:39:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Methylene chloride	0.23	0.15		ppbV	1	7/5/2023 9:39:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Tetrachloroethylene	0.58	0.15		ppbV	1	7/5/2023 9:39:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Toluene	0.59	0.15		ppbV	1	7/5/2023 9:39:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Surr; Bromofluorobenzene	86.0	70-130		%REC	1	7/5/2023 9:39:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 6 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-2

Lab Order: C2307002

Tag Number: 102,1152

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-003A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 9:39:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 9:39:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 9:39:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 9:39:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 9:39:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 9:39:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 9:39:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 9:39:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 9:39:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 9:39:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 9:39:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 9:39:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 9:39:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 9:39:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 9:39:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 9:39:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 9:39:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 9:39:00 PM
Acetone	15	7.1		ug/m3	10	7/6/2023 7:37:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 9:39:00 PM
Benzene	2.4	0.48		ug/m3	1	7/5/2023 9:39:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 9:39:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 9:39:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 9:39:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 9:39:00 PM
Carbon disulfide	0.72	0.47		ug/m3	1	7/5/2023 9:39:00 PM
Carbon tetrachloride	2.2	0.94		ug/m3	1	7/5/2023 9:39:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 9:39:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 9:39:00 PM
Chloroform	0.88	0.73		ug/m3	1	7/5/2023 9:39:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	7/5/2023 9:39:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 9:39:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 9:39:00 PM
Cyclohexane	0.48	0.52	J	ug/m3	1	7/5/2023 9:39:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 9:39:00 PM
Ethyl acetate	0.86	0.54		ug/m3	1	7/5/2023 9:39:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 9:39:00 PM
Freon 11	3.3	0.84		ug/m3	1	7/5/2023 9:39:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 9:39:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 9:39:00 PM

Qualifiers: , Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 5 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-2

Lab Order: C2307002

Tag Number: 102.1152

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-003A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	3.1	0.74		ug/m3	1	7/5/2023 9:39:00 PM
Heptane	0.49	0.61	J	ug/m3	1	7/5/2023 9:39:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 9:39:00 PM
Hexane	1.3	0.53		ug/m3	1	7/5/2023 9:39:00 PM
Isopropyl alcohol	8.4	3.7		ug/m3	10	7/6/2023 7:37:00 PM
m&p-Xylene	0.48	1.3	J	ug/m3	1	7/5/2023 9:39:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 9:39:00 PM
Methyl Ethyl Ketone	2.0	0.88		ug/m3	1	7/5/2023 9:39:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 9:39:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 9:39:00 PM
Methylene chloride	0.80	0.52		ug/m3	1	7/5/2023 9:39:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 9:39:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 9:39:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 9:39:00 PM
Tetrachloroethylene	3.9	1.0		ug/m3	1	7/5/2023 9:39:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 9:39:00 PM
Toluene	2.2	0.57		ug/m3	1	7/5/2023 9:39:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 9:39:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 9:39:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 9:39:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 9:39:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 9:39:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 9:39:00 PM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 6 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-3

Lab Order: C2307002

Tag Number: 203,1165

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-004A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	0.18	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2-Dichloroethane	0.17	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2-Dichloropropane	0.64	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,3-Dichlorobenzene	0.48	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,4-Dichlorobenzene	0.13	0.15	J	ppbV	1	7/5/2023 10:24:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 10:24:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Acetone	50	12		ppbV	40	7/6/2023 9:03:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Benzene	0.44	0.15		ppbV	1	7/5/2023 10:24:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Bromodichloromethane	0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Carbon disulfide	13	1.5		ppbV	10	7/6/2023 8:20:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Chloroethane	0.42	0.15		ppbV	1	7/5/2023 10:24:00 PM
Chloroform	2.6	1.5		ppbV	10	7/6/2023 8:20:00 PM
Chloromethane	1.2	0.15		ppbV	1	7/5/2023 10:24:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Cyclohexane	0.18	0.15		ppbV	1	7/5/2023 10:24:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 7 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-3

Lab Order: C2307002

Tag Number: 203.1165

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-004A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Ethyl acetate	0.27	0.15		ppbV	1	7/5/2023 10:24:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Freon 11	1.9	0.15		ppbV	1	7/5/2023 10:24:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Freon 12	0.60	0.15		ppbV	1	7/5/2023 10:24:00 PM
Heptane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Hexane	2.6	1.5		ppbV	10	7/6/2023 8:20:00 PM
Isopropyl alcohol	4.0	1.5		ppbV	10	7/6/2023 8:20:00 PM
m&p-Xylene	0.12	0.30	J	ppbV	1	7/5/2023 10:24:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 10:24:00 PM
Methyl Ethyl Ketone	1.5	0.30		ppbV	1	7/5/2023 10:24:00 PM
Methyl Isobutyl Ketone	0.30	0.30		ppbV	1	7/5/2023 10:24:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Methylene chloride	0.29	0.15		ppbV	1	7/5/2023 10:24:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Tetrachloroethylene	0.62	0.15		ppbV	1	7/5/2023 10:24:00 PM
Tetrahydrofuran	1.5	0.15		ppbV	1	7/5/2023 10:24:00 PM
Toluene	0.48	0.15		ppbV	1	7/5/2023 10:24:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Surr: Bromofluorobenzene	101	70-130		%REC	1	7/5/2023 10:24:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 8 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-3

Lab Order: C2307002

Tag Number: 203,1165

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-004A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	0.98	0.82		ug/m3	1	7/5/2023 10:24:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 10:24:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 10:24:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 10:24:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 10:24:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 10:24:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 10:24:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 10:24:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 10:24:00 PM
1,2-Dichloroethane	0.69	0.61		ug/m3	1	7/5/2023 10:24:00 PM
1,2-Dichloropropane	3.0	0.69		ug/m3	1	7/5/2023 10:24:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 10:24:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 10:24:00 PM
1,3-Dichlorobenzene	2.9	0.90		ug/m3	1	7/5/2023 10:24:00 PM
1,4-Dichlorobenzene	0.78	0.90	J	ug/m3	1	7/5/2023 10:24:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 10:24:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 10:24:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 10:24:00 PM
Acetone	120	28		ug/m3	40	7/6/2023 9:03:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 10:24:00 PM
Benzene	1.4	0.48		ug/m3	1	7/5/2023 10:24:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 10:24:00 PM
Bromodichloromethane	1.0	1.0		ug/m3	1	7/5/2023 10:24:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 10:24:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 10:24:00 PM
Carbon disulfide	41	4.7		ug/m3	10	7/6/2023 8:20:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 10:24:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 10:24:00 PM
Chloroethane	1.1	0.40		ug/m3	1	7/5/2023 10:24:00 PM
Chloroform	13	7.3		ug/m3	10	7/6/2023 8:20:00 PM
Chloromethane	2.4	0.31		ug/m3	1	7/5/2023 10:24:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 10:24:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 10:24:00 PM
Cyclohexane	0.62	0.52		ug/m3	1	7/5/2023 10:24:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 10:24:00 PM
Ethyl acetate	0.97	0.54		ug/m3	1	7/5/2023 10:24:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 10:24:00 PM
Freon 11	11	0.84		ug/m3	1	7/5/2023 10:24:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 10:24:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 10:24:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 7 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-004A

Client Sample ID: SVW-3
 Tag Number: 203,1165
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	3.0	0.74		ug/m3	1	7/5/2023 10:24:00 PM
Heptane	< 0.61	0.61		ug/m3	1	7/5/2023 10:24:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 10:24:00 PM
Hexane	9.2	5.3		ug/m3	10	7/6/2023 8:20:00 PM
Isopropyl alcohol	9.8	3.7		ug/m3	10	7/6/2023 8:20:00 PM
m&p-Xylene	0.52	1.3	J	ug/m3	1	7/5/2023 10:24:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 10:24:00 PM
Methyl Ethyl Ketone	4.4	0.88		ug/m3	1	7/5/2023 10:24:00 PM
Methyl Isobutyl Ketone	1.2	1.2		ug/m3	1	7/5/2023 10:24:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 10:24:00 PM
Methylene chloride	1.0	0.52		ug/m3	1	7/5/2023 10:24:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 10:24:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 10:24:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 10:24:00 PM
Tetrachloroethylene	4.2	1.0		ug/m3	1	7/5/2023 10:24:00 PM
Tetrahydrofuran	4.5	0.44		ug/m3	1	7/5/2023 10:24:00 PM
Toluene	1.8	0.57		ug/m3	1	7/5/2023 10:24:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 10:24:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 10:24:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 10:24:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 10:24:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 10:24:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 10:24:00 PM

Qualifiers: . Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 8 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-4

Lab Order: C2307002

Tag Number: 367,172

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-005A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,4-Dichlorobenzene	0.66	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 11:08:00 PM
2,2,4-trimethylpentane	0.92	0.15		ppbV	1	7/5/2023 11:08:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Acetone	15	3.0		ppbV	10	7/6/2023 9:46:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Benzene	0.53	0.15		ppbV	1	7/5/2023 11:08:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Carbon disulfide	10	1.5		ppbV	10	7/6/2023 9:46:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Chlorobenzene	0.71	0.15		ppbV	1	7/5/2023 11:08:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Chloroform	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Cyclohexane	0.52	0.15		ppbV	1	7/5/2023 11:08:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 9 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-4

Lab Order: C2307002

Tag Number: 367,172

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-005A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Ethyl acetate	0.27	0.15		ppbV	1	7/5/2023 11:08:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Freon 11	0.54	0.15		ppbV	1	7/5/2023 11:08:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Freon 12	0.81	0.15		ppbV	1	7/5/2023 11:08:00 PM
Heptane	0.13	0.15	J	ppbV	1	7/5/2023 11:08:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Hexane	0.32	0.15		ppbV	1	7/5/2023 11:08:00 PM
Isopropyl alcohol	4.3	1.5		ppbV	10	7/6/2023 9:46:00 PM
m&p-Xylene	0.25	0.30	J	ppbV	1	7/5/2023 11:08:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 11:08:00 PM
Methyl Ethyl Ketone	0.79	0.30		ppbV	1	7/5/2023 11:08:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 11:08:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Methylene chloride	0.23	0.15		ppbV	1	7/5/2023 11:08:00 PM
o-Xylene	0.14	0.15	J	ppbV	1	7/5/2023 11:08:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Tetrachloroethylene	0.14	0.15	J	ppbV	1	7/5/2023 11:08:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Toluene	1.4	0.15		ppbV	1	7/5/2023 11:08:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Surr: Bromofluorobenzene	107	70-130		%REC	1	7/5/2023 11:08:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 10 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-005A

Client Sample ID: SVW-4
 Tag Number: 367.172
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 11:08:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 11:08:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 11:08:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 11:08:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:08:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 11:08:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 11:08:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 11:08:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 11:08:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 11:08:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 11:08:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 11:08:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 11:08:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 11:08:00 PM
1,4-Dichlorobenzene	4.0	0.90		ug/m3	1	7/5/2023 11:08:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 11:08:00 PM
2,2,4-trimethylpentane	4.3	0.70		ug/m3	1	7/5/2023 11:08:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 11:08:00 PM
Acetone	36	7.1		ug/m3	10	7/6/2023 9:46:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 11:08:00 PM
Benzene	1.7	0.48		ug/m3	1	7/5/2023 11:08:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 11:08:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 11:08:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 11:08:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 11:08:00 PM
Carbon disulfide	33	4.7		ug/m3	10	7/6/2023 9:46:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 11:08:00 PM
Chlorobenzene	3.3	0.69		ug/m3	1	7/5/2023 11:08:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 11:08:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	7/5/2023 11:08:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	7/5/2023 11:08:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:08:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 11:08:00 PM
Cyclohexane	1.8	0.52		ug/m3	1	7/5/2023 11:08:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 11:08:00 PM
Ethyl acetate	0.97	0.54		ug/m3	1	7/5/2023 11:08:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 11:08:00 PM
Freon 11	3.0	0.84		ug/m3	1	7/5/2023 11:08:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 11:08:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 11:08:00 PM

Qualifiers: . Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 9 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-4

Lab Order: C2307002

Tag Number: 367,172

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-005A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	4.0	0.74		ug/m3	1	7/5/2023 11:08:00 PM
Heptane	0.53	0.61	J	ug/m3	1	7/5/2023 11:08:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 11:08:00 PM
Hexane	1.1	0.53		ug/m3	1	7/5/2023 11:08:00 PM
Isopropyl alcohol	11	3.7		ug/m3	10	7/6/2023 9:46:00 PM
m&p-Xylene	1.1	1.3	J	ug/m3	1	7/5/2023 11:08:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 11:08:00 PM
Methyl Ethyl Ketone	2.3	0.88		ug/m3	1	7/5/2023 11:08:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 11:08:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 11:08:00 PM
Methylene chloride	0.80	0.52		ug/m3	1	7/5/2023 11:08:00 PM
o-Xylene	0.61	0.65	J	ug/m3	1	7/5/2023 11:08:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 11:08:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 11:08:00 PM
Tetrachloroethylene	0.95	1.0	J	ug/m3	1	7/5/2023 11:08:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 11:08:00 PM
Toluene	5.2	0.57		ug/m3	1	7/5/2023 11:08:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:08:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 11:08:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 11:08:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 11:08:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 11:08:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 11:08:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 10 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-5 MS/MSD

Lab Order: C2307002

Tag Number: 218,1447

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-006A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 5:46:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Acetone	8.3	1.5		ppbV	5	7/6/2023 5:29:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Benzene	0.28	0.15		ppbV	1	7/5/2023 5:46:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Carbon disulfide	1.5	0.15		ppbV	1	7/5/2023 5:46:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Chloroform	0.24	0.15		ppbV	1	7/5/2023 5:46:00 PM
Chloromethane	0.17	0.15		ppbV	1	7/5/2023 5:46:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 11 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-5 MS/MSD

Lab Order: C2307002

Tag Number: 218,1447

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-006A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Ethyl acetate	0.16	0.15		ppbV	1	7/5/2023 5:46:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Freon 11	0.80	0.15		ppbV	1	7/5/2023 5:46:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Freon 114	0.18	0.15		ppbV	1	7/5/2023 5:46:00 PM
Freon 12	0.69	0.15		ppbV	1	7/5/2023 5:46:00 PM
Heptane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Hexane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Isopropyl alcohol	2.8	0.75		ppbV	5	7/6/2023 5:29:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	7/5/2023 5:46:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 5:46:00 PM
Methyl Ethyl Ketone	0.33	0.30		ppbV	1	7/5/2023 5:46:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 5:46:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Methylene chloride	0.30	0.15		ppbV	1	7/5/2023 5:46:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Tetrachloroethylene	0.19	0.15		ppbV	1	7/5/2023 5:46:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Toluene	0.34	0.15		ppbV	1	7/5/2023 5:46:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Surr: Bromofluorobenzene	82.0	70-130		%REC	1	7/5/2023 5:46:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 12 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-5 MS/MSD

Lab Order: C2307002

Tag Number: 218,1447

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-006A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 5:46:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 5:46:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 5:46:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 5:46:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:46:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 5:46:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 5:46:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 5:46:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:46:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 5:46:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 5:46:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 5:46:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 5:46:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:46:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:46:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 5:46:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 5:46:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 5:46:00 PM
Acetone	20	3.6		ug/m3	5	7/6/2023 5:29:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 5:46:00 PM
Benzene	0.89	0.48		ug/m3	1	7/5/2023 5:46:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 5:46:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 5:46:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 5:46:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 5:46:00 PM
Carbon disulfide	4.6	0.47		ug/m3	1	7/5/2023 5:46:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 5:46:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 5:46:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 5:46:00 PM
Chloroform	1.2	0.73		ug/m3	1	7/5/2023 5:46:00 PM
Chloromethane	0.35	0.31		ug/m3	1	7/5/2023 5:46:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:46:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 5:46:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 5:46:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 5:46:00 PM
Ethyl acetate	0.58	0.54		ug/m3	1	7/5/2023 5:46:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 5:46:00 PM
Freon 11	4.5	0.84		ug/m3	1	7/5/2023 5:46:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 5:46:00 PM
Freon 114	1.3	1.0		ug/m3	1	7/5/2023 5:46:00 PM

Qualifiers: . Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 11 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-5 MS/MSD

Lab Order: C2307002

Tag Number: 218.1447

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-006A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	3.4	0.74		ug/m3	1	7/5/2023 5:46:00 PM
Heptane	< 0.61	0.61		ug/m3	1	7/5/2023 5:46:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 5:46:00 PM
Hexane	< 0.53	0.53		ug/m3	1	7/5/2023 5:46:00 PM
Isopropyl alcohol	6.9	1.8		ug/m3	5	7/6/2023 5:29:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	7/5/2023 5:46:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 5:46:00 PM
Methyl Ethyl Ketone	0.97	0.88		ug/m3	1	7/5/2023 5:46:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 5:46:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 5:46:00 PM
Methylene chloride	1.0	0.52		ug/m3	1	7/5/2023 5:46:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 5:46:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 5:46:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 5:46:00 PM
Tetrachloroethylene	1.3	1.0		ug/m3	1	7/5/2023 5:46:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 5:46:00 PM
Toluene	1.3	0.57		ug/m3	1	7/5/2023 5:46:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:46:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 5:46:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 5:46:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 5:46:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 5:46:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 5:46:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte, Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 12 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-6

Lab Order: C2307002

Tag Number: 1184.173

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-007A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	0			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 11:53:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Acetone	9.0	3.0		ppbV	10	7/6/2023 10:28:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Benzene	0.55	0.15		ppbV	1	7/5/2023 11:53:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Carbon disulfide	0.68	0.15		ppbV	1	7/5/2023 11:53:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Chloroform	0.14	0.15	J	ppbV	1	7/5/2023 11:53:00 PM
Chloromethane	0.59	0.15		ppbV	1	7/5/2023 11:53:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 13 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-6

Lab Order: C2307002

Tag Number: 1184,173

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-007A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Ethyl acetate	0.16	0.15		ppbV	1	7/5/2023 11:53:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Freon 11	0.26	0.15		ppbV	1	7/5/2023 11:53:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Freon 12	0.52	0.15		ppbV	1	7/5/2023 11:53:00 PM
Heptane	0.11	0.15	J	ppbV	1	7/5/2023 11:53:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Hexane	0.41	0.15		ppbV	1	7/5/2023 11:53:00 PM
Isopropyl alcohol	1.9	0.15		ppbV	1	7/5/2023 11:53:00 PM
m&p-Xylene	0.13	0.30	J	ppbV	1	7/5/2023 11:53:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 11:53:00 PM
Methyl Ethyl Ketone	0.57	0.30		ppbV	1	7/5/2023 11:53:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 11:53:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Methylene chloride	0.26	0.15		ppbV	1	7/5/2023 11:53:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Tetrachloroethylene	0.19	0.15		ppbV	1	7/5/2023 11:53:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Toluene	0.46	0.15		ppbV	1	7/5/2023 11:53:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Surr: Bromofluorobenzene	86.0	70-130		%REC	1	7/5/2023 11:53:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte, Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 14 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-6

Lab Order: C2307002

Tag Number: 1184.173

Project: IKEA Rcd Hook

Collection Date: 6/29/2023

Lab ID: C2307002-007A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 11:53:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 11:53:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 11:53:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 11:53:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:53:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 11:53:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 11:53:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 11:53:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 11:53:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 11:53:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 11:53:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 11:53:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 11:53:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 11:53:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 11:53:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 11:53:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 11:53:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 11:53:00 PM
Acetone	21	7.1		ug/m3	10	7/6/2023 10:28:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 11:53:00 PM
Benzene	1.8	0.48		ug/m3	1	7/5/2023 11:53:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 11:53:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 11:53:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 11:53:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 11:53:00 PM
Carbon disulfide	2.1	0.47		ug/m3	1	7/5/2023 11:53:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 11:53:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 11:53:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 11:53:00 PM
Chloroform	0.68	0.73	J	ug/m3	1	7/5/2023 11:53:00 PM
Chloromethane	1.2	0.31		ug/m3	1	7/5/2023 11:53:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:53:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 11:53:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 11:53:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 11:53:00 PM
Ethyl acetate	0.58	0.54		ug/m3	1	7/5/2023 11:53:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 11:53:00 PM
Freon 11	1.5	0.84		ug/m3	1	7/5/2023 11:53:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 11:53:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 11:53:00 PM

Qualifiers: . Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 13 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-6

Lab Order: C2307002

Tag Number: 1184,173

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-007A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.6	0.74		ug/m3	1	7/5/2023 11:53:00 PM
Heptane	0.45	0.61	J	ug/m3	1	7/5/2023 11:53:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 11:53:00 PM
Hexane	1.4	0.53		ug/m3	1	7/5/2023 11:53:00 PM
Isopropyl alcohol	4.7	0.37		ug/m3	1	7/5/2023 11:53:00 PM
m&p-Xylene	0.56	1.3	J	ug/m3	1	7/5/2023 11:53:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 11:53:00 PM
Methyl Ethyl Ketone	1.7	0.88		ug/m3	1	7/5/2023 11:53:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 11:53:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 11:53:00 PM
Methylene chloride	0.90	0.52		ug/m3	1	7/5/2023 11:53:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 11:53:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 11:53:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 11:53:00 PM
Tetrachloroethylene	1.3	1.0		ug/m3	1	7/5/2023 11:53:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 11:53:00 PM
Toluene	1.7	0.57		ug/m3	1	7/5/2023 11:53:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:53:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 11:53:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 11:53:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 11:53:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 11:53:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 11:53:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding Times for preparation or analysis exceeded
- JN Non-routine analyte, Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 14 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-7

Lab Order: C2307002

Tag Number: 83,184

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-008A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-4			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2,4-Trimethylbenzene	0.33	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,3,5-Trimethylbenzene	0.10	0.15	J	ppbV	1	7/6/2023 12:37:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,3-Dichlorobenzene	0.14	0.15	J	ppbV	1	7/6/2023 12:37:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 12:37:00 AM
2,2,4-trimethylpentane	0.12	0.15	J	ppbV	1	7/6/2023 12:37:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Acetone	16	3.0		ppbV	10	7/6/2023 11:11:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Benzene	0.72	0.15		ppbV	1	7/6/2023 12:37:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Carbon disulfide	30	6.0		ppbV	40	7/6/2023 11:54:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Chloroform	2.2	1.5		ppbV	10	7/6/2023 11:11:00 PM
Chloromethane	0.71	0.15		ppbV	1	7/6/2023 12:37:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

IN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 15 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-008A

Client Sample ID: SVW-7
Tag Number: 83.184
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Ethyl acetate	0.33	0.15		ppbV	1	7/6/2023 12:37:00 AM
Ethylbenzene	0.14	0.15	J	ppbV	1	7/6/2023 12:37:00 AM
Freon 11	0.44	0.15		ppbV	1	7/6/2023 12:37:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Freon 12	0.55	0.15		ppbV	1	7/6/2023 12:37:00 AM
Heptane	0.16	0.15		ppbV	1	7/6/2023 12:37:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Hexane	0.25	0.15		ppbV	1	7/6/2023 12:37:00 AM
Isopropyl alcohol	1.8	0.15		ppbV	1	7/6/2023 12:37:00 AM
m&p-Xylene	0.30	0.30		ppbV	1	7/6/2023 12:37:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 12:37:00 AM
Methyl Ethyl Ketone	0.70	0.30		ppbV	1	7/6/2023 12:37:00 AM
Methyl Isobutyl Ketone	0.90	0.30		ppbV	1	7/6/2023 12:37:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Methylene chloride	0.26	0.15		ppbV	1	7/6/2023 12:37:00 AM
o-Xylene	0.24	0.15		ppbV	1	7/6/2023 12:37:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Styrene	0.13	0.15	J	ppbV	1	7/6/2023 12:37:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Tetrahydrofuran	0.68	0.15		ppbV	1	7/6/2023 12:37:00 AM
Toluene	1.4	0.15		ppbV	1	7/6/2023 12:37:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Surr: Bromofluorobenzene	96.0	70-130		%REC	1	7/6/2023 12:37:00 AM

Qualifiers:

- .
- DL
- H
- JN
- S

Results reported are not blank corrected
Detection Limit
Holding Times for preparation or analysis exceeded
Non-routine analyte. Quantitation estimated.
Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 16 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-7

Lab Order: C2307002

Tag Number: 83,184

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-008A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 12:37:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 12:37:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 12:37:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 12:37:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 12:37:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 12:37:00 AM
1,2,4-Trimethylbenzene	1.8	0.74		ug/m3	1	7/6/2023 12:37:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 12:37:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 12:37:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 12:37:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 12:37:00 AM
1,3,5-Trimethylbenzene	0.49	0.74	J	ug/m3	1	7/6/2023 12:37:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 12:37:00 AM
1,3-Dichlorobenzene	0.84	0.90	J	ug/m3	1	7/6/2023 12:37:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 12:37:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 12:37:00 AM
2,2,4-trimethylpentane	0.56	0.70	J	ug/m3	1	7/6/2023 12:37:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 12:37:00 AM
Acetone	38	7.1		ug/m3	10	7/6/2023 11:11:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 12:37:00 AM
Benzene	2.3	0.48		ug/m3	1	7/6/2023 12:37:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 12:37:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 12:37:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 12:37:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 12:37:00 AM
Carbon disulfide	95	19		ug/m3	40	7/6/2023 11:54:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 12:37:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 12:37:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	7/6/2023 12:37:00 AM
Chloroform	11	7.3		ug/m3	10	7/6/2023 11:11:00 PM
Chloromethane	1.5	0.31		ug/m3	1	7/6/2023 12:37:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 12:37:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 12:37:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/6/2023 12:37:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 12:37:00 AM
Ethyl acetate	1.2	0.54		ug/m3	1	7/6/2023 12:37:00 AM
Ethylbenzene	0.61	0.65	J	ug/m3	1	7/6/2023 12:37:00 AM
Freon 11	2.5	0.84		ug/m3	1	7/6/2023 12:37:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 12:37:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 12:37:00 AM

Qualifiers: , Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 15 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-008A

Client Sample ID: SVW-7
 Tag Number: 83,184
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.7	0.74		ug/m3	1	7/6/2023 12:37:00 AM
Heptane	0.66	0.61		ug/m3	1	7/6/2023 12:37:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 12:37:00 AM
Hexane	0.88	0.53		ug/m3	1	7/6/2023 12:37:00 AM
Isopropyl alcohol	4.5	0.37		ug/m3	1	7/6/2023 12:37:00 AM
m&p-Xylene	1.3	1.3		ug/m3	1	7/6/2023 12:37:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 12:37:00 AM
Methyl Ethyl Ketone	2.1	0.88		ug/m3	1	7/6/2023 12:37:00 AM
Methyl Isobutyl Ketone	3.7	1.2		ug/m3	1	7/6/2023 12:37:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 12:37:00 AM
Methylene chloride	0.90	0.52		ug/m3	1	7/6/2023 12:37:00 AM
o-Xylene	1.0	0.65		ug/m3	1	7/6/2023 12:37:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 12:37:00 AM
Styrene	0.55	0.64	J	ug/m3	1	7/6/2023 12:37:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	7/6/2023 12:37:00 AM
Tetrahydrofuran	2.0	0.44		ug/m3	1	7/6/2023 12:37:00 AM
Toluene	5.3	0.57		ug/m3	1	7/6/2023 12:37:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 12:37:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 12:37:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/6/2023 12:37:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 12:37:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 12:37:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 12:37:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 16 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-8

Lab Order: C2307002

Tag Number: 561.1163

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-009A

Matrix: Air

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbV	1	7/6/2023 1:21:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,3-Dichlorobenzene	0.14	0.15	J	ppbV	1	7/6/2023 1:21:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 1:21:00 AM
2,2,4-trimethylpentane	0.24	0.15		ppbV	1	7/6/2023 1:21:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Acetone	22	12		ppbV	40	7/7/2023 1:19:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Benzene	0.64	0.15		ppbV	1	7/6/2023 1:21:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Carbon disulfide	12	1.5		ppbV	10	7/7/2023 12:37:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Chloroform	0.17	0.15		ppbV	1	7/6/2023 1:21:00 AM
Chloromethane	0.80	0.15		ppbV	1	7/6/2023 1:21:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Cyclohexane	0.31	0.15		ppbV	1	7/6/2023 1:21:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 17 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-8

Lab Order: C2307002

Tag Number: 561,1163

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-009A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Ethyl acetate	2.1	1.5		ppbV	10	7/7/2023 12:37:00 AM
Ethylbenzene	0.12	0.15	J	ppbV	1	7/6/2023 1:21:00 AM
Freon 11	0.30	0.15		ppbV	1	7/6/2023 1:21:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Freon 12	0.56	0.15		ppbV	1	7/6/2023 1:21:00 AM
Heptane	0.38	0.15		ppbV	1	7/6/2023 1:21:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Hexane	1.4	0.15		ppbV	1	7/6/2023 1:21:00 AM
Isopropyl alcohol	20	1.5		ppbV	10	7/7/2023 12:37:00 AM
m&p-Xylene	0.33	0.30		ppbV	1	7/6/2023 1:21:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 1:21:00 AM
Methyl Ethyl Ketone	1.7	0.30		ppbV	1	7/6/2023 1:21:00 AM
Methyl Isobutyl Ketone	0.38	0.30		ppbV	1	7/6/2023 1:21:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Methylene chloride	0.88	0.15		ppbV	1	7/6/2023 1:21:00 AM
o-Xylene	0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Styrene	0.11	0.15	J	ppbV	1	7/6/2023 1:21:00 AM
Tetrachloroethylene	0.43	0.15		ppbV	1	7/6/2023 1:21:00 AM
Tetrahydrofuran	1.6	1.5		ppbV	10	7/7/2023 12:37:00 AM
Toluene	2.1	1.5		ppbV	10	7/7/2023 12:37:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Trichloroethene	0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Surr: Bromofluorobenzene	93.0	70-130		%REC	1	7/6/2023 1:21:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 18 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-8

Lab Order: C2307002

Tag Number: 561,1163

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-009A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 1:21:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 1:21:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 1:21:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 1:21:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 1:21:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 1:21:00 AM
1,2,4-Trimethylbenzene	0.59	0.74	J	ug/m3	1	7/6/2023 1:21:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 1:21:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 1:21:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 1:21:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 1:21:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 1:21:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 1:21:00 AM
1,3-Dichlorobenzene	0.84	0.90	J	ug/m3	1	7/6/2023 1:21:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 1:21:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 1:21:00 AM
2,2,4-trimethylpentane	1.1	0.70		ug/m3	1	7/6/2023 1:21:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 1:21:00 AM
Acetone	52	28		ug/m3	40	7/7/2023 1:19:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 1:21:00 AM
Benzene	2.0	0.48		ug/m3	1	7/6/2023 1:21:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 1:21:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 1:21:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 1:21:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 1:21:00 AM
Carbon disulfide	36	4.7		ug/m3	10	7/7/2023 12:37:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 1:21:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 1:21:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	7/6/2023 1:21:00 AM
Chloroform	0.83	0.73		ug/m3	1	7/6/2023 1:21:00 AM
Chloromethane	1.7	0.31		ug/m3	1	7/6/2023 1:21:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 1:21:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 1:21:00 AM
Cyclohexane	1.1	0.52		ug/m3	1	7/6/2023 1:21:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 1:21:00 AM
Ethyl acetate	7.6	5.4		ug/m3	10	7/7/2023 12:37:00 AM
Ethylbenzene	0.52	0.65	J	ug/m3	1	7/6/2023 1:21:00 AM
Freon 11	1.7	0.84		ug/m3	1	7/6/2023 1:21:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 1:21:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 1:21:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 17 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-8

Lab Order: C2307002

Tag Number: 561,1163

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-009A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.8	0.74		ug/m3	1	7/6/2023 1:21:00 AM
Heptane	1.6	0.61		ug/m3	1	7/6/2023 1:21:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 1:21:00 AM
Hexane	4.9	0.53		ug/m3	1	7/6/2023 1:21:00 AM
Isopropyl alcohol	49	3.7		ug/m3	10	7/7/2023 12:37:00 AM
m&p-Xylene	1.4	1.3		ug/m3	1	7/6/2023 1:21:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 1:21:00 AM
Methyl Ethyl Ketone	4.9	0.88		ug/m3	1	7/6/2023 1:21:00 AM
Methyl Isobutyl Ketone	1.6	1.2		ug/m3	1	7/6/2023 1:21:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 1:21:00 AM
Methylene chloride	3.1	0.52		ug/m3	1	7/6/2023 1:21:00 AM
o-Xylene	0.65	0.65		ug/m3	1	7/6/2023 1:21:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 1:21:00 AM
Styrene	0.47	0.64	J	ug/m3	1	7/6/2023 1:21:00 AM
Tetrachloroethylene	2.9	1.0		ug/m3	1	7/6/2023 1:21:00 AM
Tetrahydrofuran	4.7	4.4		ug/m3	10	7/7/2023 12:37:00 AM
Toluene	7.9	5.7		ug/m3	10	7/7/2023 12:37:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 1:21:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 1:21:00 AM
Trichloroethene	0.81	0.81		ug/m3	1	7/6/2023 1:21:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 1:21:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 1:21:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 1:21:00 AM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 18 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-010A

Client Sample ID: SVW-9
 Tag Number: 96.175
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC				Analyst: RJP
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 2:05:00 AM
2,2,4-trimethylpentane	0.13	0.15	J	ppbV	1	7/6/2023 2:05:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Acetone	7.3	3.0		ppbV	10	7/7/2023 2:02:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Benzene	0.76	0.15		ppbV	1	7/6/2023 2:05:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Carbon disulfide	0.35	0.15		ppbV	1	7/6/2023 2:05:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Chloroethane	0.14	0.15	J	ppbV	1	7/6/2023 2:05:00 AM
Chloroform	0.17	0.15		ppbV	1	7/6/2023 2:05:00 AM
Chloromethane	0.65	0.15		ppbV	1	7/6/2023 2:05:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM

Qualifiers:
 . Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 19 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-010A

Client Sample ID: SVW-9
 Tag Number: 96,175
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Ethyl acetate	0.43	0.15		ppbV	1	7/6/2023 2:05:00 AM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Freon 11	0.25	0.15		ppbV	1	7/6/2023 2:05:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Freon 12	0.52	0.15		ppbV	1	7/6/2023 2:05:00 AM
Heptane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Hexane	0.43	0.15		ppbV	1	7/6/2023 2:05:00 AM
Isopropyl alcohol	3.8	1.5		ppbV	10	7/7/2023 2:02:00 AM
m&p-Xylene	0.19	0.30	J	ppbV	1	7/6/2023 2:05:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 2:05:00 AM
Methyl Ethyl Ketone	0.60	0.30		ppbV	1	7/6/2023 2:05:00 AM
Methyl Isobutyl Ketone	0.15	0.30	J	ppbV	1	7/6/2023 2:05:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Methylene chloride	0.35	0.15		ppbV	1	7/6/2023 2:05:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Styrene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Tetrachloroethylene	0.81	0.15		ppbV	1	7/6/2023 2:05:00 AM
Tetrahydrofuran	0.11	0.15	J	ppbV	1	7/6/2023 2:05:00 AM
Toluene	1.3	0.15		ppbV	1	7/6/2023 2:05:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Surr: Bromofluorobenzene	89.0	70-130		%REC	1	7/6/2023 2:05:00 AM

Qualifiers: , Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 20 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-9

Lab Order: C2307002

Tag Number: 96,175

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-010A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 2:05:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 2:05:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 2:05:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 2:05:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:05:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 2:05:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 2:05:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 2:05:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:05:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 2:05:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 2:05:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 2:05:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 2:05:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:05:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:05:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 2:05:00 AM
2,2,4-trimethylpentane	0.61	0.70	J	ug/m3	1	7/6/2023 2:05:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 2:05:00 AM
Acetone	17	7.1		ug/m3	10	7/7/2023 2:02:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 2:05:00 AM
Benzene	2.4	0.48		ug/m3	1	7/6/2023 2:05:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 2:05:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 2:05:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 2:05:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 2:05:00 AM
Carbon disulfide	1.1	0.47		ug/m3	1	7/6/2023 2:05:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 2:05:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 2:05:00 AM
Chloroethane	0.37	0.40	J	ug/m3	1	7/6/2023 2:05:00 AM
Chloroform	0.83	0.73		ug/m3	1	7/6/2023 2:05:00 AM
Chloromethane	1.3	0.31		ug/m3	1	7/6/2023 2:05:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:05:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 2:05:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/6/2023 2:05:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 2:05:00 AM
Ethyl acetate	1.5	0.54		ug/m3	1	7/6/2023 2:05:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/6/2023 2:05:00 AM
Freon 11	1.4	0.84		ug/m3	1	7/6/2023 2:05:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 2:05:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 2:05:00 AM

Qualifiers: . Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 19 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-9

Lab Order: C2307002

Tag Number: 96,175

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-010A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.6	0.74		ug/m3	1	7/6/2023 2:05:00 AM
Heptane	< 0.61	0.61		ug/m3	1	7/6/2023 2:05:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 2:05:00 AM
Hexane	1.5	0.53		ug/m3	1	7/6/2023 2:05:00 AM
Isopropyl alcohol	9.3	3.7		ug/m3	10	7/7/2023 2:02:00 AM
m&p-Xylene	0.82	1.3	J	ug/m3	1	7/6/2023 2:05:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 2:05:00 AM
Methyl Ethyl Ketone	2.4	0.88		ug/m3	1	7/6/2023 2:05:00 AM
Methyl Isobutyl Ketone	0.61	1.2	J	ug/m3	1	7/6/2023 2:05:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 2:05:00 AM
Methylene chloride	1.2	0.52		ug/m3	1	7/6/2023 2:05:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	7/6/2023 2:05:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 2:05:00 AM
Styrene	< 0.64	0.64		ug/m3	1	7/6/2023 2:05:00 AM
Tetrachloroethylene	5.5	1.0		ug/m3	1	7/6/2023 2:05:00 AM
Tetrahydrofuran	0.32	0.44	J	ug/m3	1	7/6/2023 2:05:00 AM
Toluene	4.9	0.57		ug/m3	1	7/6/2023 2:05:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:05:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 2:05:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/6/2023 2:05:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 2:05:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 2:05:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 2:05:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 20 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-10

Lab Order: C2307002

Tag Number: 205,180

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-011A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg "		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 2:50:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Acetone	18	3.0		ppbV	10	7/7/2023 2:45:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Benzene	0.58	0.15		ppbV	1	7/6/2023 2:50:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Carbon disulfide	3.4	1.5		ppbV	10	7/7/2023 2:45:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Chloroform	3.6	1.5		ppbV	10	7/7/2023 2:45:00 AM
Chloromethane	0.57	0.15		ppbV	1	7/6/2023 2:50:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 21 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-011A

Client Sample ID: SVW-10
 Tag Number: 205,180
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Ethyl acetate	0.47	0.15		ppbV	1	7/6/2023 2:50:00 AM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Freon 11	0.44	0.15		ppbV	1	7/6/2023 2:50:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Freon 12	0.61	0.15		ppbV	1	7/6/2023 2:50:00 AM
Heptane	0.11	0.15	J	ppbV	1	7/6/2023 2:50:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Hexane	0.30	0.15		ppbV	1	7/6/2023 2:50:00 AM
Isopropyl alcohol	4.4	1.5		ppbV	10	7/7/2023 2:45:00 AM
m&p-Xylene	0.13	0.30	J	ppbV	1	7/6/2023 2:50:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 2:50:00 AM
Methyl Ethyl Ketone	0.71	0.30		ppbV	1	7/6/2023 2:50:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 2:50:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Methylene chloride	0.33	0.15		ppbV	1	7/6/2023 2:50:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Styrene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Tetrachloroethylene	0.35	0.15		ppbV	1	7/6/2023 2:50:00 AM
Tetrahydrofuran	0.30	0.15		ppbV	1	7/6/2023 2:50:00 AM
Toluene	0.74	0.15		ppbV	1	7/6/2023 2:50:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Surr: Bromofluorobenzene	89.0	70-130		%REC	1	7/6/2023 2:50:00 AM

Qualifiers: . Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 22 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-10

Lab Order: C2307002

Tag Number: 205.180

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-011A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 2:50:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 2:50:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 2:50:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 2:50:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:50:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 2:50:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 2:50:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 2:50:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:50:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 2:50:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 2:50:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 2:50:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 2:50:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:50:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:50:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 2:50:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/6/2023 2:50:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 2:50:00 AM
Acetone	44	7.1		ug/m3	10	7/7/2023 2:45:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 2:50:00 AM
Benzene	1.9	0.48		ug/m3	1	7/6/2023 2:50:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 2:50:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 2:50:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 2:50:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 2:50:00 AM
Carbon disulfide	11	4.7		ug/m3	10	7/7/2023 2:45:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 2:50:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 2:50:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	7/6/2023 2:50:00 AM
Chloroform	18	7.3		ug/m3	10	7/7/2023 2:45:00 AM
Chloromethane	1.2	0.31		ug/m3	1	7/6/2023 2:50:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:50:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 2:50:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/6/2023 2:50:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 2:50:00 AM
Ethyl acetate	1.7	0.54		ug/m3	1	7/6/2023 2:50:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/6/2023 2:50:00 AM
Freon 11	2.5	0.84		ug/m3	1	7/6/2023 2:50:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 2:50:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 2:50:00 AM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
IN Non-routine analyte, Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 21 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-011A

Client Sample ID: SVW-10
 Tag Number: 205,180
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	3.0	0.74		ug/m3	1	7/6/2023 2:50:00 AM
Heptane	0.45	0.61	J	ug/m3	1	7/6/2023 2:50:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 2:50:00 AM
Hexane	1.1	0.53		ug/m3	1	7/6/2023 2:50:00 AM
Isopropyl alcohol	11	3.7		ug/m3	10	7/7/2023 2:45:00 AM
m&p-Xylene	0.56	1.3	J	ug/m3	1	7/6/2023 2:50:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 2:50:00 AM
Methyl Ethyl Ketone	2.1	0.88		ug/m3	1	7/6/2023 2:50:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 2:50:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 2:50:00 AM
Methylene chloride	1.1	0.52		ug/m3	1	7/6/2023 2:50:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	7/6/2023 2:50:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 2:50:00 AM
Styrene	< 0.64	0.64		ug/m3	1	7/6/2023 2:50:00 AM
Tetrachloroethylene	2.4	1.0		ug/m3	1	7/6/2023 2:50:00 AM
Tetrahydrofuran	0.88	0.44		ug/m3	1	7/6/2023 2:50:00 AM
Toluene	2.8	0.57		ug/m3	1	7/6/2023 2:50:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:50:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 2:50:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/6/2023 2:50:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 2:50:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 2:50:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 2:50:00 AM

Qualifiers: . Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 22 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-11

Lab Order: C2307002

Tag Number: 1190.381

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-012A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	0.64	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	7/6/2023 3:34:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,4-Dichlorobenzene	0.23	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 3:34:00 AM
2,2,4-trimethylpentane	0.18	0.15		ppbV	1	7/6/2023 3:34:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Acetone	17	3.0		ppbV	10	7/7/2023 3:28:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Benzene	1.3	0.15		ppbV	1	7/6/2023 3:34:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Carbon disulfide	0.35	0.15		ppbV	1	7/6/2023 3:34:00 AM
Carbon tetrachloride	0.19	0.15		ppbV	1	7/6/2023 3:34:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Chloroethane	0.12	0.15	J	ppbV	1	7/6/2023 3:34:00 AM
Chloroform	1.5	0.15		ppbV	1	7/6/2023 3:34:00 AM
Chloromethane	0.34	0.15		ppbV	1	7/6/2023 3:34:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Cyclohexane	0.37	0.15		ppbV	1	7/6/2023 3:34:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 23 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-012A

Client Sample ID: SVW-11
 Tag Number: 1190,381
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Ethyl acetate	0.34	0.15		ppbV	1	7/6/2023 3:34:00 AM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Freon 11	2.9	1.5		ppbV	10	7/7/2023 3:28:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Freon 12	0.55	0.15		ppbV	1	7/6/2023 3:34:00 AM
Heptane	0.14	0.15	J	ppbV	1	7/6/2023 3:34:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Hexane	0.77	0.15		ppbV	1	7/6/2023 3:34:00 AM
Isopropyl alcohol	5.1	1.5		ppbV	10	7/7/2023 3:28:00 AM
m&p-Xylene	0.25	0.30	J	ppbV	1	7/6/2023 3:34:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 3:34:00 AM
Methyl Ethyl Ketone	0.97	0.30		ppbV	1	7/6/2023 3:34:00 AM
Methyl Isobutyl Ketone	0.29	0.30	J	ppbV	1	7/6/2023 3:34:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Methylene chloride	0.17	0.15		ppbV	1	7/6/2023 3:34:00 AM
o-Xylene	0.11	0.15	J	ppbV	1	7/6/2023 3:34:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Styrene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Tetrachloroethylene	3.3	1.5		ppbV	10	7/7/2023 3:28:00 AM
Tetrahydrofuran	0.37	0.15		ppbV	1	7/6/2023 3:34:00 AM
Toluene	1.1	0.15		ppbV	1	7/6/2023 3:34:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Trichloroethene	0.50	0.15		ppbV	1	7/6/2023 3:34:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Surr: Bromofluorobenzene	91.0	70-130		%REC	1	7/6/2023 3:34:00 AM

Qualifiers: , Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 24 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-11

Lab Order: C2307002

Tag Number: 1190,381

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-012A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	3.5	0.82		ug/m3	1	7/6/2023 3:34:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 3:34:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 3:34:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 3:34:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 3:34:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 3:34:00 AM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	7/6/2023 3:34:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 3:34:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 3:34:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 3:34:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 3:34:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 3:34:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 3:34:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 3:34:00 AM
1,4-Dichlorobenzene	1.4	0.90		ug/m3	1	7/6/2023 3:34:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 3:34:00 AM
2,2,4-trimethylpentane	0.84	0.70		ug/m3	1	7/6/2023 3:34:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 3:34:00 AM
Acetone	41	7.1		ug/m3	10	7/7/2023 3:28:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 3:34:00 AM
Benzene	4.2	0.48		ug/m3	1	7/6/2023 3:34:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 3:34:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 3:34:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 3:34:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 3:34:00 AM
Carbon disulfide	1.1	0.47		ug/m3	1	7/6/2023 3:34:00 AM
Carbon tetrachloride	1.2	0.94		ug/m3	1	7/6/2023 3:34:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 3:34:00 AM
Chloroethane	0.32	0.40	J	ug/m3	1	7/6/2023 3:34:00 AM
Chloroform	7.2	0.73		ug/m3	1	7/6/2023 3:34:00 AM
Chloromethane	0.70	0.31		ug/m3	1	7/6/2023 3:34:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 3:34:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 3:34:00 AM
Cyclohexane	1.3	0.52		ug/m3	1	7/6/2023 3:34:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 3:34:00 AM
Ethyl acetate	1.2	0.54		ug/m3	1	7/6/2023 3:34:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/6/2023 3:34:00 AM
Freon 11	16	8.4		ug/m3	10	7/7/2023 3:28:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 3:34:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 3:34:00 AM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 23 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-11

Lab Order: C2307002

Tag Number: 1190,381

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-012A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.7	0.74		ug/m3	1	7/6/2023 3:34:00 AM
Heptane	0.57	0.61	J	ug/m3	1	7/6/2023 3:34:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 3:34:00 AM
Hexane	2.7	0.53		ug/m3	1	7/6/2023 3:34:00 AM
Isopropyl alcohol	13	3.7		ug/m3	10	7/7/2023 3:28:00 AM
m&p-Xylene	1.1	1.3	J	ug/m3	1	7/6/2023 3:34:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 3:34:00 AM
Methyl Ethyl Ketone	2.9	0.88		ug/m3	1	7/6/2023 3:34:00 AM
Methyl Isobutyl Ketone	1.2	1.2	J	ug/m3	1	7/6/2023 3:34:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 3:34:00 AM
Methylene chloride	0.59	0.52		ug/m3	1	7/6/2023 3:34:00 AM
o-Xylene	0.48	0.65	J	ug/m3	1	7/6/2023 3:34:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 3:34:00 AM
Styrene	< 0.64	0.64		ug/m3	1	7/6/2023 3:34:00 AM
Tetrachloroethylene	22	10		ug/m3	10	7/7/2023 3:28:00 AM
Tetrahydrofuran	1.1	0.44		ug/m3	1	7/6/2023 3:34:00 AM
Toluene	4.2	0.57		ug/m3	1	7/6/2023 3:34:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 3:34:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 3:34:00 AM
Trichloroethene	2.7	0.81		ug/m3	1	7/6/2023 3:34:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 3:34:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 3:34:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 3:34:00 AM

Qualifiers: , Results reported are not blank corrected
DL, Detection Limit
H Holding times for preparation or analysis exceeded
N Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 24 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-12

Lab Order: C2307002

Tag Number: 318,153

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-013A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 4:18:00 AM
2,2,4-trimethylpentane	6.6	1.4		ppbV	9	7/7/2023 11:03:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Acetone	22	27	J	ppbV	90	7/7/2023 11:46:00 AM
Allyl chloride	0.26	0.15		ppbV	1	7/6/2023 4:18:00 AM
Benzene	3.5	1.4		ppbV	9	7/7/2023 11:03:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Carbon disulfide	150	14		ppbV	90	7/7/2023 11:46:00 AM
Carbon tetrachloride	0.13	0.15	J	ppbV	1	7/6/2023 4:18:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Chloroethane	0.25	0.15		ppbV	1	7/6/2023 4:18:00 AM
Chloroform	0.58	0.15		ppbV	1	7/6/2023 4:18:00 AM
Chloromethane	0.55	0.15		ppbV	1	7/6/2023 4:18:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Cyclohexane	1.8	0.15		ppbV	1	7/6/2023 4:18:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 25 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-12

Lab Order: C2307002

Tag Number: 318,153

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-013A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Ethyl acetate	0.30	0.15		ppbV	1	7/6/2023 4:18:00 AM
Ethylbenzene	0.58	0.15		ppbV	1	7/6/2023 4:18:00 AM
Freon 11	0.43	0.15		ppbV	1	7/6/2023 4:18:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Freon 12	0.57	0.15		ppbV	1	7/6/2023 4:18:00 AM
Heptane	1.0	0.15		ppbV	1	7/6/2023 4:18:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Hexane	1.9	0.15		ppbV	1	7/6/2023 4:18:00 AM
Isopropyl alcohol	4.0	1.4		ppbV	9	7/7/2023 11:03:00 AM
m&p-Xylene	1.3	0.30		ppbV	1	7/6/2023 4:18:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 4:18:00 AM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	7/6/2023 4:18:00 AM
Methyl Isobutyl Ketone	2.3	2.7	J	ppbV	9	7/7/2023 11:03:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Methylene chloride	4.3	1.4		ppbV	9	7/7/2023 11:03:00 AM
o-Xylene	0.69	0.15		ppbV	1	7/6/2023 4:18:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Styrene	0.27	0.15		ppbV	1	7/6/2023 4:18:00 AM
Tetrachloroethylene	3.1	1.4		ppbV	9	7/7/2023 11:03:00 AM
Tetrahydrofuran	6.9	1.4		ppbV	9	7/7/2023 11:03:00 AM
Toluene	4.3	1.4		ppbV	9	7/7/2023 11:03:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Trichloroethene	0.35	0.15		ppbV	1	7/6/2023 4:18:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Vinyl chloride	0.74	0.15		ppbV	1	7/6/2023 4:18:00 AM
Surr: Bromofluorobenzene	117	70-130		%REC	1	7/6/2023 4:18:00 AM

Qualifiers:

Results reported are not blank corrected

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 26 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-12

Lab Order: C2307002

Tag Number: 318,153

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-013A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 4:18:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 4:18:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 4:18:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 4:18:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 4:18:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 4:18:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 4:18:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 4:18:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 4:18:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 4:18:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 4:18:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 4:18:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 4:18:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 4:18:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 4:18:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 4:18:00 AM
2,2,4-trimethylpentane	31	6.5		ug/m3	9	7/7/2023 11:03:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 4:18:00 AM
Acetone	53	64	J	ug/m3	90	7/7/2023 11:46:00 AM
Allyl chloride	0.81	0.47		ug/m3	1	7/6/2023 4:18:00 AM
Benzene	11	4.5		ug/m3	9	7/7/2023 11:03:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 4:18:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 4:18:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 4:18:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 4:18:00 AM
Carbon disulfide	480	44		ug/m3	90	7/7/2023 11:46:00 AM
Carbon tetrachloride	0.82	0.94	J	ug/m3	1	7/6/2023 4:18:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 4:18:00 AM
Chloroethane	0.66	0.40		ug/m3	1	7/6/2023 4:18:00 AM
Chloroform	2.8	0.73		ug/m3	1	7/6/2023 4:18:00 AM
Chloromethane	1.1	0.31		ug/m3	1	7/6/2023 4:18:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 4:18:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 4:18:00 AM
Cyclohexane	6.3	0.52		ug/m3	1	7/6/2023 4:18:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 4:18:00 AM
Ethyl acetate	1.1	0.54		ug/m3	1	7/6/2023 4:18:00 AM
Ethylbenzene	2.5	0.65		ug/m3	1	7/6/2023 4:18:00 AM
Freon 11	2.4	0.84		ug/m3	1	7/6/2023 4:18:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 4:18:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 4:18:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 25 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-12

Lab Order: C2307002

Tag Number: 318,153

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-013A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.8	0.74		ug/m3	1	7/6/2023 4:18:00 AM
Heptane	4.2	0.61		ug/m3	1	7/6/2023 4:18:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 4:18:00 AM
Hexane	6.8	0.53		ug/m3	1	7/6/2023 4:18:00 AM
Isopropyl alcohol	10	3.4		ug/m3	9	7/7/2023 11:03:00 AM
m&p-Xylene	5.6	1.3		ug/m3	1	7/6/2023 4:18:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 4:18:00 AM
Methyl Ethyl Ketone	3.2	0.88		ug/m3	1	7/6/2023 4:18:00 AM
Methyl Isobutyl Ketone	9.6	11	J	ug/m3	9	7/7/2023 11:03:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 4:18:00 AM
Methylene chloride	15	4.9		ug/m3	9	7/7/2023 11:03:00 AM
o-Xylene	3.0	0.65		ug/m3	1	7/6/2023 4:18:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 4:18:00 AM
Styrene	1.1	0.64		ug/m3	1	7/6/2023 4:18:00 AM
Tetrachloroethylene	21	9.5		ug/m3	9	7/7/2023 11:03:00 AM
Tetrahydrofuran	20	4.1		ug/m3	9	7/7/2023 11:03:00 AM
Toluene	16	5.3		ug/m3	9	7/7/2023 11:03:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 4:18:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 4:18:00 AM
Trichloroethene	1.9	0.81		ug/m3	1	7/6/2023 4:18:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 4:18:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 4:18:00 AM
Vinyl chloride	1.9	0.38		ug/m3	1	7/6/2023 4:18:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 26 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-13

Lab Order: C2307002

Tag Number: 128.250

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-014A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	3.2	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,1,1-Trichloroethane	4.0	1.5		ppbV	10	7/7/2023 12:30:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 5:02:00 AM
2,2,4-trimethylpentane	2.8	1.5		ppbV	10	7/7/2023 12:30:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Acetone	18	12		ppbV	40	7/7/2023 1:42:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Benzene	14	1.5		ppbV	10	7/7/2023 12:30:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Carbon disulfide	0.90	0.15		ppbV	1	7/6/2023 5:02:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Chloroethane	0.99	0.15		ppbV	1	7/6/2023 5:02:00 AM
Chloroform	0.32	0.15		ppbV	1	7/6/2023 5:02:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
cis-1,2-Dichloroethene	0.42	0.15		ppbV	1	7/6/2023 5:02:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-13

Lab Order: C2307002

Tag Number: 128,250

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-014A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Cyclohexane	16	1.5		ppbV	10	7/7/2023 12:30:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Ethyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Ethylbenzene	0.11	0.15	J	ppbV	1	7/6/2023 5:02:00 AM
Freon 11	1.7	0.15		ppbV	1	7/6/2023 5:02:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Freon 12	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Heptane	4.7	1.5		ppbV	10	7/7/2023 12:30:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Hexane	32	6.0		ppbV	40	7/7/2023 1:42:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
m&p-Xylene	0.26	0.30	J	ppbV	1	7/6/2023 5:02:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 5:02:00 AM
Methyl Ethyl Ketone	4.6	3.0		ppbV	10	7/7/2023 12:30:00 PM
Methyl Isobutyl Ketone	0.24	0.30	J	ppbV	1	7/6/2023 5:02:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
o-Xylene	0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Styrene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Tetrachloroethylene	3.7	1.5		ppbV	10	7/7/2023 12:30:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Toluene	1.3	0.15		ppbV	1	7/6/2023 5:02:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Trichloroethene	2.3	1.5		ppbV	10	7/7/2023 12:30:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Surr: Bromofluorobenzene	111	70-130		%REC	1	7/6/2023 5:02:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 28 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-014A

Client Sample ID: SVW-13
 Tag Number: 128,250
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	18	0.82		ug/m3	1	7/6/2023 5:02:00 AM
1,1,1-Trichloroethane	22	8.2		ug/m3	10	7/7/2023 12:30:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 5:02:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 5:02:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 5:02:00 AM
1,1-Dichloroethane	< 0.59	0.59		ug/m3	1	7/6/2023 5:02:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 5:02:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 5:02:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 5:02:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 5:02:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 5:02:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 5:02:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 5:02:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 5:02:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 5:02:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 5:02:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 5:02:00 AM
2,2,4-trimethylpentane	13	7.0		ug/m3	10	7/7/2023 12:30:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 5:02:00 AM
Acetone	44	28		ug/m3	40	7/7/2023 1:42:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 5:02:00 AM
Benzene	44	4.8		ug/m3	10	7/7/2023 12:30:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 5:02:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 5:02:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 5:02:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 5:02:00 AM
Carbon disulfide	2.8	0.47		ug/m3	1	7/6/2023 5:02:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 5:02:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 5:02:00 AM
Chloroethane	2.6	0.40		ug/m3	1	7/6/2023 5:02:00 AM
Chloroform	1.6	0.73		ug/m3	1	7/6/2023 5:02:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	7/6/2023 5:02:00 AM
cis-1,2-Dichloroethane	1.7	0.59		ug/m3	1	7/6/2023 5:02:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 5:02:00 AM
Cyclohexane	56	5.2		ug/m3	10	7/7/2023 12:30:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 5:02:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	7/6/2023 5:02:00 AM
Ethylbenzene	0.48	0.65	J	ug/m3	1	7/6/2023 5:02:00 AM
Freon 11	9.3	0.84		ug/m3	1	7/6/2023 5:02:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 5:02:00 AM

Qualifiers: , Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 27 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-13

Lab Order: C2307002

Tag Number: 128,250

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-014A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 5:02:00 AM
Freon 12	< 0.74	0.74		ug/m3	1	7/6/2023 5:02:00 AM
Heptane	19	6.1		ug/m3	10	7/7/2023 12:30:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 5:02:00 AM
Hexane	110	21		ug/m3	40	7/7/2023 1:42:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	7/6/2023 5:02:00 AM
m&p-Xylene	1.1	1.3	J	ug/m3	1	7/6/2023 5:02:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 5:02:00 AM
Methyl Ethyl Ketone	14	8.8		ug/m3	10	7/7/2023 12:30:00 PM
Methyl Isobutyl Ketone	0.98	1.2	J	ug/m3	1	7/6/2023 5:02:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 5:02:00 AM
Methylene chloride	< 0.52	0.52		ug/m3	1	7/6/2023 5:02:00 AM
o-Xylene	0.65	0.65		ug/m3	1	7/6/2023 5:02:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 5:02:00 AM
Styrene	< 0.64	0.64		ug/m3	1	7/6/2023 5:02:00 AM
Tetrachloroethylene	25	10		ug/m3	10	7/7/2023 12:30:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/6/2023 5:02:00 AM
Toluene	5.0	0.57		ug/m3	1	7/6/2023 5:02:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 5:02:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 5:02:00 AM
Trichloroethene	12	8.1		ug/m3	10	7/7/2023 12:30:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 5:02:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 5:02:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 5:02:00 AM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 28 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-14

Lab Order: C2307002

Tag Number: 241,177

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-015A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,2,4-Trimethylbenzene	4.3	1.5		ppbV	10	7/7/2023 2:25:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,3,5-Trimethylbenzene	1.8	1.5		ppbV	10	7/7/2023 2:25:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 10:58:00 AM
2,2,4-trimethylpentane	19	1.5		ppbV	10	7/7/2023 2:25:00 PM
4-ethyltoluene	1.2	0.15		ppbV	1	7/6/2023 10:58:00 AM
Acetone	32	12		ppbV	40	7/7/2023 3:08:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Benzene	11	1.5		ppbV	10	7/7/2023 2:25:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Carbon disulfide	5.0	1.5		ppbV	10	7/7/2023 2:25:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Chloroethane	0.53	0.15		ppbV	1	7/6/2023 10:58:00 AM
Chloroform	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
cis-1,2-Dichloroethene	4.2	1.5		ppbV	10	7/7/2023 2:25:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Cyclohexane	22	6.0		ppbV	40	7/7/2023 3:08:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 29 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-14

Lab Order: C2307002

Tag Number: 241.177

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-015A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Ethyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Ethylbenzene	2.2	1.5		ppbV	10	7/7/2023 2:25:00 PM
Freon 11	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Freon 114	0.43	0.15		ppbV	1	7/6/2023 10:58:00 AM
Freon 12	0.51	0.15		ppbV	1	7/6/2023 10:58:00 AM
Heptane	13	1.5		ppbV	10	7/7/2023 2:25:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Hexane	18	6.0		ppbV	40	7/7/2023 3:08:00 PM
Isopropyl alcohol	29	6.0		ppbV	40	7/7/2023 3:08:00 PM
m&p-Xylene	7.2	3.0		ppbV	10	7/7/2023 2:25:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 10:58:00 AM
Methyl Ethyl Ketone	13	3.0		ppbV	10	7/7/2023 2:25:00 PM
Methyl Isobutyl Ketone	34	12		ppbV	40	7/7/2023 3:08:00 PM
Methyl tert-butyl ether	21	6.0		ppbV	40	7/7/2023 3:08:00 PM
Methylene chloride	0.70	0.15		ppbV	1	7/6/2023 10:58:00 AM
o-Xylene	3.5	1.5		ppbV	10	7/7/2023 2:25:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Styrene	0.92	0.15		ppbV	1	7/6/2023 10:58:00 AM
Tetrachloroethylene	1.9	0.15		ppbV	1	7/6/2023 10:58:00 AM
Tetrahydrofuran	17	1.5		ppbV	10	7/7/2023 2:25:00 PM
Toluene	11	1.5		ppbV	10	7/7/2023 2:25:00 PM
trans-1,2-Dichloroethene	1.3	0.15		ppbV	1	7/6/2023 10:58:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Trichloroethene	1.9	0.15		ppbV	1	7/6/2023 10:58:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Vinyl chloride	17	1.5		ppbV	10	7/7/2023 2:25:00 PM
Surr: Bromofluorobenzene	112	70-130		%REC	1	7/6/2023 10:58:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 30 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-14

Lab Order: C2307002

Tag Number: 241,177

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-015A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 10:58:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 10:58:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 10:58:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 10:58:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 10:58:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 10:58:00 AM
1,2,4-Trimethylbenzene	21	7.4		ug/m3	10	7/7/2023 2:25:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 10:58:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 10:58:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 10:58:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 10:58:00 AM
1,3,5-Trimethylbenzene	8.8	7.4		ug/m3	10	7/7/2023 2:25:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 10:58:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 10:58:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 10:58:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 10:58:00 AM
2,2,4-trimethylpentane	88	7.0		ug/m3	10	7/7/2023 2:25:00 PM
4-ethyltoluene	5.9	0.74		ug/m3	1	7/6/2023 10:58:00 AM
Acetone	76	28		ug/m3	40	7/7/2023 3:08:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 10:58:00 AM
Benzene	36	4.8		ug/m3	10	7/7/2023 2:25:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 10:58:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 10:58:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 10:58:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 10:58:00 AM
Carbon disulfide	16	4.7		ug/m3	10	7/7/2023 2:25:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 10:58:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 10:58:00 AM
Chloroethane	1.4	0.40		ug/m3	1	7/6/2023 10:58:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	7/6/2023 10:58:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	7/6/2023 10:58:00 AM
cis-1,2-Dichloroethene	17	5.9		ug/m3	10	7/7/2023 2:25:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 10:58:00 AM
Cyclohexane	77	21		ug/m3	40	7/7/2023 3:08:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 10:58:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	7/6/2023 10:58:00 AM
Ethylbenzene	9.6	6.5		ug/m3	10	7/7/2023 2:25:00 PM
Freon 11	< 0.84	0.84		ug/m3	1	7/6/2023 10:58:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 10:58:00 AM
Freon 114	3.0	1.0		ug/m3	1	7/6/2023 10:58:00 AM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 29 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-14

Lab Order: C2307002

Tag Number: 241.177

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-015A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.5	0.74		ug/m3	1	7/6/2023 10:58:00 AM
Heptane	54	6.1		ug/m3	10	7/7/2023 2:25:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 10:58:00 AM
Hexane	62	21		ug/m3	40	7/7/2023 3:08:00 PM
Isopropyl alcohol	72	15		ug/m3	40	7/7/2023 3:08:00 PM
m&p-Xylene	31	13		ug/m3	10	7/7/2023 2:25:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 10:58:00 AM
Methyl Ethyl Ketone	38	8.8		ug/m3	10	7/7/2023 2:25:00 PM
Methyl Isobutyl Ketone	140	49		ug/m3	40	7/7/2023 3:08:00 PM
Methyl tert-butyl ether	76	22		ug/m3	40	7/7/2023 3:08:00 PM
Methylene chloride	2.4	0.52		ug/m3	1	7/6/2023 10:58:00 AM
o-Xylene	15	6.5		ug/m3	10	7/7/2023 2:25:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 10:58:00 AM
Styrene	3.9	0.64		ug/m3	1	7/6/2023 10:58:00 AM
Tetrachloroethylene	13	1.0		ug/m3	1	7/6/2023 10:58:00 AM
Tetrahydrofuran	49	4.4		ug/m3	10	7/7/2023 2:25:00 PM
Toluene	43	5.7		ug/m3	10	7/7/2023 2:25:00 PM
trans-1,2-Dichloroethene	5.3	0.59		ug/m3	1	7/6/2023 10:58:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 10:58:00 AM
Trichloroethene	10	0.81		ug/m3	1	7/6/2023 10:58:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 10:58:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 10:58:00 AM
Vinyl chloride	43	3.8		ug/m3	10	7/7/2023 2:25:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte, Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 30 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-15

Lab Order: C2307002

Tag Number: 555,1157

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-016A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-2			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	0.29	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 11:43:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Acetone	13	3.0		ppbV	10	7/7/2023 3:51:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Benzene	0.29	0.15		ppbV	1	7/6/2023 11:43:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Carbon disulfide	8.9	1.5		ppbV	10	7/7/2023 3:51:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Chloroform	1.0	0.15		ppbV	1	7/6/2023 11:43:00 AM
Chloromethane	0.40	0.15		ppbV	1	7/6/2023 11:43:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM

Qualifiers:

Results reported are not blank corrected

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

I3 Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 31 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-016A

Client Sample ID: SVW-15
 Tag Number: 555,1157
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Ethyl acetate	0.27	0.15		ppbV	1	7/6/2023 11:43:00 AM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Freon 11	4.6	1.5		ppbV	10	7/7/2023 3:51:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Freon 12	0.67	0.15		ppbV	1	7/6/2023 11:43:00 AM
Heptane	0.10	0.15	J	ppbV	1	7/6/2023 11:43:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Hexane	0.26	0.15		ppbV	1	7/6/2023 11:43:00 AM
Isopropyl alcohol	3.9	1.5		ppbV	10	7/7/2023 3:51:00 PM
m&p-Xylene	0.11	0.30	J	ppbV	1	7/6/2023 11:43:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 11:43:00 AM
Methyl Ethyl Ketone	0.87	0.30		ppbV	1	7/6/2023 11:43:00 AM
Methyl Isobutyl Ketone	0.28	0.30	J	ppbV	1	7/6/2023 11:43:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Methylene chloride	0.86	0.15		ppbV	1	7/6/2023 11:43:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Styrene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Tetrachloroethylene	4.6	1.5		ppbV	10	7/7/2023 3:51:00 PM
Tetrahydrofuran	0.47	0.15		ppbV	1	7/6/2023 11:43:00 AM
Toluene	0.52	0.15		ppbV	1	7/6/2023 11:43:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Trichloroethene	0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	7/6/2023 11:43:00 AM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 32 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-15

Lab Order: C2307002

Tag Number: 555,1157

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-016A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	1.6	0.82		ug/m3	1	7/6/2023 11:43:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 11:43:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 11:43:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 11:43:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 11:43:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 11:43:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 11:43:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 11:43:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 11:43:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 11:43:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 11:43:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 11:43:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 11:43:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 11:43:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 11:43:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 11:43:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/6/2023 11:43:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 11:43:00 AM
Acetone	31	7.1		ug/m3	10	7/7/2023 3:51:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 11:43:00 AM
Benzene	0.93	0.48		ug/m3	1	7/6/2023 11:43:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 11:43:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 11:43:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 11:43:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 11:43:00 AM
Carbon disulfide	28	4.7		ug/m3	10	7/7/2023 3:51:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 11:43:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 11:43:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	7/6/2023 11:43:00 AM
Chloroform	4.9	0.73		ug/m3	1	7/6/2023 11:43:00 AM
Chloromethane	0.83	0.31		ug/m3	1	7/6/2023 11:43:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 11:43:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 11:43:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/6/2023 11:43:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 11:43:00 AM
Ethyl acetate	0.97	0.54		ug/m3	1	7/6/2023 11:43:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/6/2023 11:43:00 AM
Freon 11	26	8.4		ug/m3	10	7/7/2023 3:51:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 11:43:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 11:43:00 AM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-15

Lab Order: C2307002

Tag Number: 555.1157

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-016A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	3.3	0.74		ug/m3	1	7/6/2023 11:43:00 AM
Heptane	0.41	0.61	J	ug/m3	1	7/6/2023 11:43:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 11:43:00 AM
Hexane	0.92	0.53		ug/m3	1	7/6/2023 11:43:00 AM
Isopropyl alcohol	9.6	3.7		ug/m3	10	7/7/2023 3:51:00 PM
m&p-Xylene	0.48	1.3	J	ug/m3	1	7/6/2023 11:43:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 11:43:00 AM
Methyl Ethyl Ketone	2.6	0.88		ug/m3	1	7/6/2023 11:43:00 AM
Methyl Isobutyl Ketone	1.1	1.2	J	ug/m3	1	7/6/2023 11:43:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 11:43:00 AM
Methylene chloride	3.0	0.52		ug/m3	1	7/6/2023 11:43:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	7/6/2023 11:43:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 11:43:00 AM
Styrene	< 0.64	0.64		ug/m3	1	7/6/2023 11:43:00 AM
Tetrachloroethylene	31	10		ug/m3	10	7/7/2023 3:51:00 PM
Tetrahydrofuran	1.4	0.44		ug/m3	1	7/6/2023 11:43:00 AM
Toluene	2.0	0.57		ug/m3	1	7/6/2023 11:43:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 11:43:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 11:43:00 AM
Trichloroethene	0.81	0.81		ug/m3	1	7/6/2023 11:43:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 11:43:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 11:43:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 11:43:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 32 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-16

Lab Order: C2307002

Tag Number: 328,251

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-017A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,2,4-Trimethylbenzene	2.1	1.5		ppbV	10	7/7/2023 4:34:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,3,5-Trimethylbenzene	0.95	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,3-Dichlorobenzene	0.30	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 12:29:00 PM
2,2,4-trimethylpentane	26	6.0		ppbV	40	7/7/2023 5:17:00 PM
4-ethyltoluene	0.81	0.15		ppbV	1	7/6/2023 12:29:00 PM
Acetone	47	12		ppbV	40	7/7/2023 5:17:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Benzene	20	1.5		ppbV	10	7/7/2023 4:34:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Carbon disulfide	7.7	1.5		ppbV	10	7/7/2023 4:34:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Chlorobenzene	0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Chloroethane	0.44	0.15		ppbV	1	7/6/2023 12:29:00 PM
Chloroform	3.2	1.5		ppbV	10	7/7/2023 4:34:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
cis-1,2-Dichloroethene	0.92	0.15		ppbV	1	7/6/2023 12:29:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Cyclohexane	10	1.5		ppbV	10	7/7/2023 4:34:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 33 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-16

Lab Order: C2307002

Tag Number: 328,251

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-017A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Ethylbenzene	1.9	0.15		ppbV	1	7/6/2023 12:29:00 PM
Freon 11	0.10	0.15	J	ppbV	1	7/6/2023 12:29:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Freon 114	0.45	0.15		ppbV	1	7/6/2023 12:29:00 PM
Freon 12	0.49	0.15		ppbV	1	7/6/2023 12:29:00 PM
Heptane	2.3	1.5		ppbV	10	7/7/2023 4:34:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Hexane	20	1.5		ppbV	10	7/7/2023 4:34:00 PM
Isopropyl alcohol	8.2	1.5		ppbV	10	7/7/2023 4:34:00 PM
m&p-Xylene	5.1	3.0		ppbV	10	7/7/2023 4:34:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 12:29:00 PM
Methyl Ethyl Ketone	15	3.0		ppbV	10	7/7/2023 4:34:00 PM
Methyl isobutyl Ketone	4.0	3.0		ppbV	10	7/7/2023 4:34:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Methylene chloride	0.73	0.15		ppbV	1	7/6/2023 12:29:00 PM
o-Xylene	1.9	1.5		ppbV	10	7/7/2023 4:34:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Styrene	1.3	0.15		ppbV	1	7/6/2023 12:29:00 PM
Tetrachloroethylene	2.4	1.5		ppbV	10	7/7/2023 4:34:00 PM
Tetrahydrofuran	21	6.0		ppbV	40	7/7/2023 5:17:00 PM
Toluene	10	1.5		ppbV	10	7/7/2023 4:34:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Trichloroethene	1.5	0.15		ppbV	1	7/6/2023 12:29:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Surr: Bromofluorobenzene	111	70-130		%REC	1	7/6/2023 12:29:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 34 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-16

Lab Order: C2307002

Tag Number: 328,251

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-017A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 12:29:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 12:29:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 12:29:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 12:29:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 12:29:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 12:29:00 PM
1,2,4-Trimethylbenzene	10	7.4		ug/m3	10	7/7/2023 4:34:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 12:29:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 12:29:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 12:29:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 12:29:00 PM
1,3,5-Trimethylbenzene	4.7	0.74		ug/m3	1	7/6/2023 12:29:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 12:29:00 PM
1,3-Dichlorobenzene	1.8	0.90		ug/m3	1	7/6/2023 12:29:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 12:29:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 12:29:00 PM
2,2,4-Trimethylpentane	120	28		ug/m3	40	7/7/2023 5:17:00 PM
4-ethyltoluene	4.0	0.74		ug/m3	1	7/6/2023 12:29:00 PM
Acetone	110	28		ug/m3	40	7/7/2023 5:17:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 12:29:00 PM
Benzene	62	4.8		ug/m3	10	7/7/2023 4:34:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 12:29:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 12:29:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 12:29:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 12:29:00 PM
Carbon disulfide	24	4.7		ug/m3	10	7/7/2023 4:34:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 12:29:00 PM
Chlorobenzene	0.69	0.69		ug/m3	1	7/6/2023 12:29:00 PM
Chloroethane	1.2	0.40		ug/m3	1	7/6/2023 12:29:00 PM
Chloroform	16	7.3		ug/m3	10	7/7/2023 4:34:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	7/6/2023 12:29:00 PM
cis-1,2-Dichloroethene	3.6	0.59		ug/m3	1	7/6/2023 12:29:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 12:29:00 PM
Cyclohexane	35	5.2		ug/m3	10	7/7/2023 4:34:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 12:29:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	7/6/2023 12:29:00 PM
Ethylbenzene	8.2	0.65		ug/m3	1	7/6/2023 12:29:00 PM
Freon 11	0.56	0.84	J	ug/m3	1	7/6/2023 12:29:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 12:29:00 PM
Freon 114	3.1	1.0		ug/m3	1	7/6/2023 12:29:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 33 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-16

Lab Order: C2307002

Tag Number: 328,251

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-017A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.4	0.74		ug/m3	1	7/6/2023 12:29:00 PM
Heptane	9.4	6.1		ug/m3	10	7/7/2023 4:34:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 12:29:00 PM
Hexane	70	5.3		ug/m3	10	7/7/2023 4:34:00 PM
Isopropyl alcohol	20	3.7		ug/m3	10	7/7/2023 4:34:00 PM
m&p-Xylene	22	13		ug/m3	10	7/7/2023 4:34:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 12:29:00 PM
Methyl Ethyl Ketone	45	8.8		ug/m3	10	7/7/2023 4:34:00 PM
Methyl Isobutyl Ketone	16	12		ug/m3	10	7/7/2023 4:34:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 12:29:00 PM
Methylene chloride	2.5	0.52		ug/m3	1	7/6/2023 12:29:00 PM
o-Xylene	8.2	6.5		ug/m3	10	7/7/2023 4:34:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 12:29:00 PM
Styrene	5.5	0.64		ug/m3	1	7/6/2023 12:29:00 PM
Tetrachloroethylene	16	10		ug/m3	10	7/7/2023 4:34:00 PM
Tetrahydrofuran	61	18		ug/m3	40	7/7/2023 5:17:00 PM
Toluene	38	5.7		ug/m3	10	7/7/2023 4:34:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 12:29:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 12:29:00 PM
Trichloroethene	8.1	0.81		ug/m3	1	7/6/2023 12:29:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 12:29:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 12:29:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 12:29:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte, Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-1

Lab Order: C2307002

Tag Number: 171,402

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-018A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-4			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 4:17:00 PM
2,2,4-trimethylpentane	0.23	0.15		ppbV	1	7/5/2023 4:17:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Acetone	6.2	1.5		ppbV	5	7/6/2023 4:06:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Benzene	0.83	0.15		ppbV	1	7/5/2023 4:17:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Carbon disulfide	0.19	0.15		ppbV	1	7/5/2023 4:17:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Chloroform	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Chloromethane	0.67	0.15		ppbV	1	7/5/2023 4:17:00 PM
cis-1,2-Dichloroethene	0.18	0.15		ppbV	1	7/5/2023 4:17:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 35 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-1

Lab Order: C2307002

Tag Number: 171,402

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-018A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Ethyl acetate	0.86	0.15		ppbV	1	7/5/2023 4:17:00 PM
Ethylbenzene	0.11	0.15	J	ppbV	1	7/5/2023 4:17:00 PM
Freon 11	0.28	0.15		ppbV	1	7/5/2023 4:17:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Freon 12	0.53	0.15		ppbV	1	7/5/2023 4:17:00 PM
Heptane	0.20	0.15		ppbV	1	7/5/2023 4:17:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Hexane	0.54	0.15		ppbV	1	7/5/2023 4:17:00 PM
Isopropyl alcohol	6.1	0.75		ppbV	5	7/6/2023 4:06:00 PM
m&p-Xylene	0.28	0.30	J	ppbV	1	7/5/2023 4:17:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 4:17:00 PM
Methyl Ethyl Ketone	1.2	0.30		ppbV	1	7/5/2023 4:17:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 4:17:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Methylene chloride	0.32	0.15		ppbV	1	7/5/2023 4:17:00 PM
o-Xylene	0.13	0.15	J	ppbV	1	7/5/2023 4:17:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Tetrachloroethylene	1.1	0.15		ppbV	1	7/5/2023 4:17:00 PM
Tetrahydrofuran	0.31	0.15		ppbV	1	7/5/2023 4:17:00 PM
Toluene	2.0	0.15		ppbV	1	7/5/2023 4:17:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Trichloroethene	0.12	0.15	J	ppbV	1	7/5/2023 4:17:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Surr: Bromofluorobenzene	94.0	70-130		%REC	1	7/5/2023 4:17:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 36 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-1

Lab Order: C2307002

Tag Number: 171,402

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-018A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 4:17:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 4:17:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 4:17:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 4:17:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 4:17:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 4:17:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 4:17:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 4:17:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 4:17:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 4:17:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 4:17:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 4:17:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 4:17:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 4:17:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 4:17:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 4:17:00 PM
2,2,4-trimethylpentane	1.1	0.70		ug/m3	1	7/5/2023 4:17:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 4:17:00 PM
Acetone	15	3.6		ug/m3	5	7/6/2023 4:06:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 4:17:00 PM
Benzene	2.7	0.48		ug/m3	1	7/5/2023 4:17:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 4:17:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 4:17:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 4:17:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 4:17:00 PM
Carbon disulfide	0.59	0.47		ug/m3	1	7/5/2023 4:17:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 4:17:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 4:17:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 4:17:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	7/5/2023 4:17:00 PM
Chloromethane	1.4	0.31		ug/m3	1	7/5/2023 4:17:00 PM
cis-1,2-Dichloroethene	0.71	0.59		ug/m3	1	7/5/2023 4:17:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 4:17:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 4:17:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 4:17:00 PM
Ethyl acetate	3.1	0.54		ug/m3	1	7/5/2023 4:17:00 PM
Ethylbenzene	0.48	0.65	J	ug/m3	1	7/5/2023 4:17:00 PM
Freon 11	1.6	0.84		ug/m3	1	7/5/2023 4:17:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 4:17:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 4:17:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte, Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 35 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-1

Lab Order: C2307002

Tag Number: 171.402

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-018A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.6	0.74		ug/m3	1	7/5/2023 4:17:00 PM
Heptane	0.82	0.61		ug/m3	1	7/5/2023 4:17:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 4:17:00 PM
Hexane	1.9	0.53		ug/m3	1	7/5/2023 4:17:00 PM
Isopropyl alcohol	15	1.8		ug/m3	5	7/6/2023 4:06:00 PM
m&p-Xylene	1.2	1.3	J	ug/m3	1	7/5/2023 4:17:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 4:17:00 PM
Methyl Ethyl Ketone	3.5	0.88		ug/m3	1	7/5/2023 4:17:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 4:17:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 4:17:00 PM
Methylene chloride	1.1	0.52		ug/m3	1	7/5/2023 4:17:00 PM
o-Xylene	0.56	0.65	J	ug/m3	1	7/5/2023 4:17:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 4:17:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 4:17:00 PM
Tetrachloroethylene	7.5	1.0		ug/m3	1	7/5/2023 4:17:00 PM
Tetrahydrofuran	0.91	0.44		ug/m3	1	7/5/2023 4:17:00 PM
Toluene	7.5	0.57		ug/m3	1	7/5/2023 4:17:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 4:17:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 4:17:00 PM
Trichloroethene	0.64	0.81	J	ug/m3	1	7/5/2023 4:17:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 4:17:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 4:17:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 4:17:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte, Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 36 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-2

Lab Order: C2307002

Tag Number: 459,124

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-019A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-2			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 5:01:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Acetone	6.4	1.5		ppbV	5	7/6/2023 4:47:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Benzene	0.78	0.15		ppbV	1	7/5/2023 5:01:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Carbon disulfide	0.24	0.15		ppbV	1	7/5/2023 5:01:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Chloroform	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Chloromethane	0.58	0.15		ppbV	1	7/5/2023 5:01:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 37 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-2

Lab Order: C2307002

Tag Number: 459,124

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-019A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Ethyl acetate	0.48	0.15		ppbV	1	7/5/2023 5:01:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Freon 11	0.26	0.15		ppbV	1	7/5/2023 5:01:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Freon 12	0.52	0.15		ppbV	1	7/5/2023 5:01:00 PM
Heptane	0.12	0.15	J	ppbV	1	7/5/2023 5:01:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Hexane	0.35	0.15		ppbV	1	7/5/2023 5:01:00 PM
Isopropyl alcohol	3.0	0.75		ppbV	5	7/6/2023 4:47:00 PM
m&p-Xylene	0.19	0.30	J	ppbV	1	7/5/2023 5:01:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 5:01:00 PM
Methyl Ethyl Ketone	0.52	0.30		ppbV	1	7/5/2023 5:01:00 PM
Methyl Isobutyl Ketone	0.13	0.30	J	ppbV	1	7/5/2023 5:01:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Methylene chloride	0.17	0.15		ppbV	1	7/5/2023 5:01:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Tetrahydrofuran	0.18	0.15		ppbV	1	7/5/2023 5:01:00 PM
Toluene	1.4	0.15		ppbV	1	7/5/2023 5:01:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	7/5/2023 5:01:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte, Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 38 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-2

Lab Order: C2307002

Tag Number: 459,124

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-019A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 5:01:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 5:01:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 5:01:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 5:01:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:01:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 5:01:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 5:01:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 5:01:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:01:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 5:01:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 5:01:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 5:01:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 5:01:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:01:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:01:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 5:01:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 5:01:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 5:01:00 PM
Acetone	15	3.6		ug/m3	5	7/6/2023 4:47:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 5:01:00 PM
Benzene	2.5	0.48		ug/m3	1	7/5/2023 5:01:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 5:01:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 5:01:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 5:01:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 5:01:00 PM
Carbon disulfide	0.75	0.47		ug/m3	1	7/5/2023 5:01:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 5:01:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 5:01:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 5:01:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	7/5/2023 5:01:00 PM
Chloromethane	1.2	0.31		ug/m3	1	7/5/2023 5:01:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:01:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 5:01:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 5:01:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 5:01:00 PM
Ethyl acetate	1.7	0.54		ug/m3	1	7/5/2023 5:01:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 5:01:00 PM
Freon 11	1.5	0.84		ug/m3	1	7/5/2023 5:01:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 5:01:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 5:01:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 37 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-2

Lab Order: C2307002

Tag Number: 459,124

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-019A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.6	0.74		ug/m3	1	7/5/2023 5:01:00 PM
Heptane	0.49	0.61	J	ug/m3	1	7/5/2023 5:01:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 5:01:00 PM
Hexane	1.2	0.53		ug/m3	1	7/5/2023 5:01:00 PM
Isopropyl alcohol	7.2	1.8		ug/m3	5	7/6/2023 4:47:00 PM
m&p-Xylene	0.62	1.3	J	ug/m3	1	7/5/2023 5:01:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 5:01:00 PM
Methyl Ethyl Ketone	1.5	0.88		ug/m3	1	7/5/2023 5:01:00 PM
Methyl Isobutyl Ketone	0.53	1.2	J	ug/m3	1	7/5/2023 5:01:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 5:01:00 PM
Methylene chloride	0.59	0.52		ug/m3	1	7/5/2023 5:01:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 5:01:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 5:01:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 5:01:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	7/5/2023 5:01:00 PM
Tetrahydrofuran	0.53	0.44		ug/m3	1	7/5/2023 5:01:00 PM
Toluene	5.5	0.57		ug/m3	1	7/5/2023 5:01:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:01:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 5:01:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 5:01:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 5:01:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 5:01:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 5:01:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

SN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 38 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: TB-1

Lab Order: C2307002

Tag Number: 170

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-020A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	+32			"Hg		7/3/2023
Lab Vacuum Out	+32			"Hg		7/3/2023
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 3:33:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Acetone	0.59	0.30		ppbV	1	7/5/2023 3:33:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Benzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Chloroform	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM

Qualifiers: Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 39 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: TB-1

Lab Order: C2307002

Tag Number: 170

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-020A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Freon 11	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Freon 12	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Heptane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Hexane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Isopropyl alcohol	0.50	0.15		ppbV	1	7/5/2023 3:33:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	7/5/2023 3:33:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 3:33:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 3:33:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 3:33:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Toluene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Surr; Bromofluorobenzene	75.0	70-130		%REC	1	7/5/2023 3:33:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 40 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: TB-1

Lab Order: C2307002

Tag Number: 170

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-020A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 3:33:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 3:33:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 3:33:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 3:33:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 3:33:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 3:33:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 3:33:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 3:33:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 3:33:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 3:33:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 3:33:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 3:33:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 3:33:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 3:33:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 3:33:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 3:33:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 3:33:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 3:33:00 PM
Acetone	1.4	0.71		ug/m3	1	7/5/2023 3:33:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 3:33:00 PM
Benzene	< 0.48	0.48		ug/m3	1	7/5/2023 3:33:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 3:33:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 3:33:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 3:33:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 3:33:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	7/5/2023 3:33:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 3:33:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 3:33:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 3:33:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	7/5/2023 3:33:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	7/5/2023 3:33:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 3:33:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 3:33:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 3:33:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 3:33:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	7/5/2023 3:33:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 3:33:00 PM
Freon 11	< 0.84	0.84		ug/m3	1	7/5/2023 3:33:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 3:33:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 3:33:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte, Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 39 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: TB-1

Lab Order: C2307002

Tag Number: 170

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-020A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	< 0.74	0.74		ug/m3	1	7/5/2023 3:33:00 PM
Heptane	< 0.61	0.61		ug/m3	1	7/5/2023 3:33:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 3:33:00 PM
Hexane	< 0.53	0.53		ug/m3	1	7/5/2023 3:33:00 PM
Isopropyl alcohol	1.2	0.37		ug/m3	1	7/5/2023 3:33:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	7/5/2023 3:33:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 3:33:00 PM
Methyl Ethyl Ketone	< 0.88	0.88		ug/m3	1	7/5/2023 3:33:00 PM
Methyl isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 3:33:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 3:33:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	7/5/2023 3:33:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 3:33:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 3:33:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 3:33:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	7/5/2023 3:33:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 3:33:00 PM
Toluene	< 0.57	0.57		ug/m3	1	7/5/2023 3:33:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 3:33:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 3:33:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 3:33:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 3:33:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 3:33:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 3:33:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 40 of 40

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\data\AU070502.D

Tune Time : 5 Jul 2023 6:51 am

Daily Calibration File : C:\msdchem\1\data\AU070502.D

File	Sample	Surrogate Recovery %	(BFB)	(IS1)	(IS2)	(IS3)
			61556	293168	263405	
=====						
AU070503.D	ALCS1UG-070523	105	61606	303749	264076	

AU070504.D	ALCS1UGD-070523	106	67892	313604	273862	

AU070505.D	AMB1UG-070523	78	61838	299091	255385	

AU070513.D	C2307002-020	75	60236	286759	244689	

AU070514.D	C2307002-018	94	58459	279191	245433	

AU070515.D	C2307002-019	87	62064	287284	255365	

AU070516.D	C2307002-006	82	60151	287326	259793	

AU070517.D	C2307002-006 MS	101	62614	304112	277999	

AU070518.D	C2307002-006 MSD	97	63126	308939	284411	

AU070519.D	C2307002-001	90	61045	293866	264619	

AU070520.D	C2307002-002	90	59332	286100	264367	

AU070521.D	C2307002-003	86	60094	292922	268177	

AU070522.D	C2307002-004	101	62790	300473	288242	

AU070523.D	C2307002-005	107	61732	319994	295035	

AU070524.D	C2307002-007	86	66805	308573	282504	

AU070525.D	C2307002-008	96	66019	307667	282522	

AU070526.D	C2307002-009	93	61960	315949	288568	

AU070527.D	C2307002-010	89	65994	308305	267660	

AU070528.D	C2307002-011	89	60019	300511	267857	

```
-----
AU070529.D
      C2307002-012      91      65954      309513      274917
-----
AU070530.D
      C2307002-013      117      62005      342057      331416
-----
AU070531.D
      C2307002-014      111      82406      443974      384599
-----
```

(fails) ~ fails 24hr time check * ~ fails criteria

Created: Wed Aug 02 13:50:01 2023 Instrument 1

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\data\AU070603.D

Tune Time : 6 Jul 2023 7:13 am

Daily Calibration File : C:\msdchem\1\data\AU070603.D

		(BFB)	(IS1)	(IS2)	(IS3)
			69373	332815	281418
File	Sample	Surrogate Recovery %	Internal Standard Responses		
=====					
AU070604.D	ALCS1UG-070623	97	59919	310613	272679

AU070605.D	ALCS1UGD-070623	99	67041	325757	264882

AU070606.D	AMB1UG-070623	76	65057	317303	247605

AU070608.D	C2307002-015	112	67653	393174	365540

AU070609.D	C2307002-016	87	69106	337098	300080

AU070610.D	C2307002-017	111	73175	400198	358788

AU070615.D	C2307002-018 5X	81	57459	277058	222834

AU070616.D	C2307002-019 5X	78	57791	269401	221398

AU070617.D	C2307002-006 5X	80	55687	268472	215180

AU070618.D	C2307002-001 2X	82	56652	272989	227157

AU070619.D	C2307002-002 5X	79	58960	264562	217707

AU070620.D	C2307002-003 10X	72	57453	298270	226184

AU070621.D	C2307002-004 10X	81	54712	251021	214473

AU070622.D	C2307002-004 40X	70	57080	287828	211933

AU070623.D	C2307002-005 10X	83	58247	261302	212618

AU070624.D	C2307002-007 10X	72	52962	245814	208656

AU070625.D	C2307002-008 10X	80	56040	249277	209259

AU070626.D	C2307002-008 40X	76	56599	257670	194224

AU070627.D	C2307002-009 10X	76	57407	258600	211864

```
-----
AU070628.D
      C2307002-009 40X    72                54945      248391      195636
-----
AU070629.D
      C2307002-010 10X    74                53701      243606      199046
-----
AU070630.D
      C2307002-011 10X    74                52921      243852      193989
-----
AU070631.D
      C2307002-012 10X    72                56641      246444      211559
-----
```

(fails) - fails 24hr time check * - fails criteria

Created: Wed Aug 02 13:59:42 2023 Instrument 1

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\data\AU070702.D

Tune Time : 7 Jul 2023 7:35 am

Daily Calibration File : C:\msdchem\1\data\AU070702.D

File	Sample	Surrogate Recovery %	(BFB)	(IS1)	(IS2)	(IS3)
				50017	255144	192366
File	Sample	Surrogate Recovery %		Internal	Standard	Responses
=====						
AU070703.D	ALCS1UG-070723	88		48932	258378	221854

AU070704.D	ALCS1UGD-070723	100		49073	254672	196716

AU070705.D	AMB1UG-070723	71		49444	249517	210908

AU070706.D	C2307002-013 9X	114		47581	225468	232173

AU070707.D	C2307002-013 90X	86		48542	216186	204938

AU070708.D	C2307002-014 10X	82		52858	271706	224246

AU070709.D	C2307002-014 40X	76		48854	235051	199618

AU070710.D	C2307002-015 10X	92		49037	266334	241208

AU070711.D	C2307002-015 40X	79		49808	256533	212572

AU070712.D	C2307002-016 10X	72		48157	247624	186105

AU070713.D	C2307002-017 10X	82		49852	258670	228597

AU070714.D	C2307002-017 40X	74		48307	257155	199225

(fails) - fails 24hr time check * - fails criteria						

Created: Wed Aug 02 14:08:18 2023 Instrument 1



Date: 02-Aug-23

ANALYTICAL QC SUMMARY REPORT

LIEN: SOIL MECHANICS
ork Order: C2307002
roject: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UG-079523	Sample Type: LCS	TestCode: 1ugM3_TO15	Units: ppbv	Prep Date:	RunNo: 20587						
Client ID: ZZZZZ	Batch ID: R20587	TestNo: TO-15		Analysis Date: 7/5/2023	SeqNo: 235675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.120	0.15	1	0	112	70	130				
1,1,2,2-Tetrachloroethane	1.250	0.15	1	0	125	70	130				
1,1,2-Trichloroethane	1.210	0.15	1	0	121	70	130				
1,1-Dichloroethane	0.9500	0.15	1	0	95.0	70	130				
1,1-Dichloroethene	0.9300	0.15	1	0	93.0	70	130				
2,4-Trichlorobenzene	1.170	0.15	1	0	117	70	130				
2,4-Trimethylbenzene	1.000	0.15	1	0	100	70	130				
2-Dibromoethane	1.140	0.15	1	0	114	70	130				
2-Dichlorobenzene	1.290	0.15	1	0	129	70	130				
2-Dichloroethane	0.9700	0.15	1	0	97.0	70	130				
2-Dichloropropane	1.090	0.15	1	0	109	70	130				
3,5-Trimethylbenzene	1.110	0.15	1	0	111	70	130				
3-butadiene	1.130	0.15	1	0	113	70	130				
3-Dichlorobenzene	1.240	0.15	1	0	124	70	130				
4-Dichlorobenzene	1.270	0.15	1	0	127	70	130				
4-Dioxane	0.7700	0.30	1	0	77.0	70	130				
2,4-trimethylpentane	0.9600	0.15	1	0	96.0	70	130				
n-ethyltoluene	1.100	0.15	1	0	110	70	130				
acetone	1.040	0.30	1	0	104	70	130				
allyl chloride	0.7700	0.15	1	0	77.0	70	130				
benzene	1.090	0.15	1	0	109	70	130				
benzyl chloride	0.5100	0.15	1	0	51.0	70	130				
homodichloromethane	1.260	0.15	1	0	126	70	130				
bromoform	1.220	0.15	1	0	122	70	130				
bromomethane	1.210	0.15	1	0	121	70	130				S

Qualifiers:	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: SOIL MECHANICS

Work Order: C2307002

Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UG-070523	Sample Type: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20587						
Client ID: ZZZZZ	Batch ID: R20587	TestNo: TO-15		Analysis Date: 7/5/2023	SeqNo: 235675						
analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
carbon disulfide	0.9400	0.15	1	0	94.0	70	130				
carbon tetrachloride	1.070	0.15	1	0	107	70	130				
chlorobenzene	1.120	0.15	1	0	112	70	130				
chloroethane	1.120	0.15	1	0	112	70	130				
chloroform	1.030	0.15	1	0	103	70	130				
chloromethane	1.200	0.15	1	0	120	70	130				
is-1,2-Dichloroethene	0.8800	0.15	1	0	88.0	70	130				
is-1,3-Dichloropropene	0.9600	0.15	1	0	96.0	70	130				
cyclohexane	0.9400	0.15	1	0	94.0	70	130				
ibromochloromethane	1.180	0.15	1	0	118	70	130				
thyl acetate	0.9900	0.15	1	0	99.0	70	130				
thylbenzene	1.000	0.15	1	0	100	70	130				
reon 11	1.160	0.15	1	0	116	70	130				
reon 113	1.090	0.15	1	0	109	70	130				
reon 114	1.340	0.15	1	0	134	70	130				S
reon 12	1.130	0.15	1	0	113	70	130				
eptane	0.9100	0.15	1	0	91.0	70	130				
exachloro-1,3-butadiene	1.450	0.15	1	0	145	70	130				S
exane	0.8200	0.15	1	0	82.0	70	130				
isopropyl alcohol	0.7000	0.15	1	0	70.0	70	130				
is-p-Xylene	2.130	0.30	2	0	106	70	130				
lethyl Butyl Ketone	0.6900	0.30	1	0	69.0	70	130				
lethyl Ethyl Ketone	0.7600	0.30	1	0	76.0	70	130				
lethyl Isobutyl Ketone	0.7400	0.30	1	0	74.0	70	130				
lethyl tert-butyl ether	0.7300	0.15	1	0	73.0	70	130				
lethylene chloride	0.9100	0.15	1	0	91.0	70	130				
Xylene	1.160	0.15	1	0	116	70	130				
propylene	0.8600	0.15	1	0	86.0	70	130				
pyrene	1.030	0.15	1	0	103	70	130				
tetrachloroethylene	1.210	0.15	1	0	121	70	130				
tetrahydrofuran	0.6600	0.15	1	0	66.0	70	130				S

Conflicters: Results reported are not blank corrected
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 DL Detection Limit
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 NID Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS

Work Order: C2307002

Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UG-070523	Sample Type: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20587						
Client ID: ZZZZZ	Batch ID: R20587	TestNo: TO-15		Analysis Date: 7/5/2023	SeqNo: 235675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.020	0.15	1	0	102	70	130				
trans-1,2-Dichloroethene	0.9500	0.15	1	0	95.0	70	130				
trans-1,3-Dichloropropene	0.7600	0.15	1	0	76.0	70	130				
Trichloroethene	1.160	0.15	1	0	116	70	130				
vinyl acetate	0.4000	0.15	1	0	40.0	70	130				S
vinyl Bromide	1.190	0.15	1	0	119	70	130				
vinyl chloride	1.230	0.15	1	0	123	70	130				

Sample ID: ALCS1UG-070523	Sample Type: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20588						
Client ID: ZZZZZ	Batch ID: R20588	TestNo: TO-15		Analysis Date: 7/6/2023	SeqNo: 235697						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9700	0.15	1	0	97.0	70	130				
1,1,2,2-Tetrachloroethane	1.030	0.15	1	0	103	70	130				
1,1,2-Trichloroethane	1.060	0.15	1	0	106	70	130				
1,1-Dichloroethane	0.8400	0.15	1	0	84.0	70	130				
1,1-Dichloroethene	0.9200	0.15	1	0	92.0	70	130				
2,4-Trichlorobenzene	0.8900	0.15	1	0	89.0	70	130				
2,4-Trimethylbenzene	0.8300	0.15	1	0	83.0	70	130				
2-Dibromoethane	0.9800	0.15	1	0	98.0	70	130				
2-Dichlorobenzene	1.070	0.15	1	0	107	70	130				
2-Dichloroethane	0.8400	0.15	1	0	84.0	70	130				
2-Dichloropropane	0.9400	0.15	1	0	94.0	70	130				
3,5-Trimethylbenzene	0.9200	0.15	1	0	92.0	70	130				
3-butadiene	0.9400	0.15	1	0	94.0	70	130				
3-Dichlorobenzene	1.040	0.15	1	0	104	70	130				
4-Dichlorobenzene	1.210	0.15	1	0	121	70	130				
4-Dioxane	0.8000	0.30	1	0	80.0	70	130				
2,2,4-trimethylpentane	0.8500	0.15	1	0	85.0	70	130				
2-ethyltoluene	0.9000	0.15	1	0	90.0	70	130				

Qualifiers: Results reported are not blank corrected
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 DL Detection Limit
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS

Work Order: C2307002

Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UG-070623	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20588						
Client ID: ZZZZZ	Batch ID: R20588	TestNo: TO-15		Analysis Date: 7/6/2023	SeqNo: 235697						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	0.9400	0.30	1	0	94.0	70	130				
Allyl chloride	0.7500	0.15	1	0	75.0	70	130				
Benzene	0.9700	0.15	1	0	97.0	70	130				
Benzyl chloride	0.6300	0.15	1	0	63.0	70	130				S
Bromodichloromethane	1.070	0.15	1	0	107	70	130				
Bromoform	1.020	0.15	1	0	102	70	130				
Bromomethane	1.090	0.15	1	0	109	70	130				
Carbon disulfide	0.8900	0.15	1	0	89.0	70	130				
Carbon tetrachloride	0.9300	0.15	1	0	93.0	70	130				
Chlorobenzene	0.9800	0.15	1	0	98.0	70	130				
Chloroethane	1.030	0.15	1	0	103	70	130				
Chloroform	0.9500	0.15	1	0	95.0	70	130				
Chloromethane	1.030	0.15	1	0	103	70	130				
cis-1,2-Dichloroethene	0.8000	0.15	1	0	80.0	70	130				
cis-1,3-Dichloropropene	0.8500	0.15	1	0	85.0	70	130				
Cyclohexane	0.8300	0.15	1	0	83.0	70	130				
Dibromochloromethane	1.000	0.15	1	0	100	70	130				
Ethyl acetate	0.9100	0.15	1	0	91.0	70	130				
Ethylbenzene	0.8500	0.15	1	0	85.0	70	130				
Freon 11	1.000	0.15	1	0	100	70	130				
Freon 113	0.9800	0.15	1	0	98.0	70	130				
Freon 114	1.170	0.15	1	0	117	70	130				
Freon 12	0.9900	0.15	1	0	99.0	70	130				
Heptane	0.8000	0.15	1	0	80.0	70	130				
Hexachloro-1,3-butadiene	1.230	0.15	1	0	123	70	130				
Hexane	0.7500	0.15	1	0	75.0	70	130				
Isopropyl alcohol	0.7600	0.15	1	0	76.0	70	130				
m,p-Xylene	1.790	0.30	2	0	89.5	70	130				
Methyl Butyl Ketone	0.6800	0.30	1	0	68.0	70	130				S
Methyl Ethyl Ketone	0.7800	0.30	1	0	78.0	70	130				
Methyl Isobutyl Ketone	0.6800	0.30	1	0	68.0	70	130				S

Qualifiers: Results reported are not blank corrected
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 DL Detection Limit
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS
Work Order: C2307002
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UG-070623	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbv	Prep Date:	RunNo: 20588						
Client ID: ZZZZZ	Batch ID: R20588	TestNo: TO-15		Analysis Date: 7/6/2023	SeqNo: 235697						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.7000	0.15	1	0	70.0	70	130				
Methylene chloride	0.7100	0.15	1	0	71.0	70	130				
p-Xylene	0.9600	0.15	1	0	96.0	70	130				
Propylene	0.7100	0.15	1	0	71.0	70	130				
Styrene	0.8700	0.15	1	0	87.0	70	130				
Tetrachloroethylene	1.030	0.15	1	0	103	70	130				
Tetrahydrofuran	0.8500	0.15	1	0	85.0	70	130				
Toluene	0.8800	0.15	1	0	88.0	70	130				
trans-1,2-Dichloroethene	0.8500	0.15	1	0	85.0	70	130				
trans-1,3-Dichloropropene	0.7300	0.15	1	0	73.0	70	130				
Trichloroethene	0.9900	0.15	1	0	99.0	70	130				
Vinyl acetate	0.3900	0.15	1	0	39.0	70	130				
Vinyl Bromide	1.090	0.15	1	0	109	70	130				
Vinyl chloride	1.070	0.15	1	0	107	70	130				S

Sample ID: ALCS1UG-070723	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20589						
Client ID: ZZZZZ	Batch ID: R20589	TestNo: TO-15		Analysis Date: 7/7/2023	SeqNo: 235720						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.260	0.15	1	0	126	70	130				S
1,1,2,2-Tetrachloroethane	1.270	0.15	1	0	127	70	130				
1,1,2-Trichloroethane	1.350	0.15	1	0	135	70	130				
1-Dichloroethane	1.100	0.15	1	0	110	70	130				
1-Dichloroethene	1.100	0.15	1	0	110	70	130				
2,4-Trichlorobenzene	1.120	0.15	1	0	112	70	130				
2,4-Trimethylbenzene	0.9800	0.15	1	0	98.0	70	130				
2-Dibromoethane	1.280	0.15	1	0	128	70	130				
2,2-Dichlorobenzene	1.260	0.15	1	0	126	70	130				
2,2-Dichloroethane	1.120	0.15	1	0	112	70	130				
2,2-Dichloropropane	1.220	0.15	1	0	122	70	130				

Qualifiers: - Results reported are not blank corrected
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 DL Detection Limit
 F Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS

Work Order: C2307002

Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UG-070723	SampType: LCS	Batch ID: R20589	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20589					
Client ID: ZZZZZ			TestNo: TO-15		Analysis Date: 7/7/2023	SeqNo: 235720					
analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,5-Trimethylbenzene	1.100	0.15	1	0	110	70	130				
3-butadiene	1.260	0.15	1	0	126	70	130				
3-Dichlorobenzene	1.220	0.15	1	0	122	70	130				
4-Dichlorobenzene	1.710	0.15	1	0	171	70	130				S
4-Dioxane	0.9900	0.30	1	0	99.0	70	130				
2,4-trimethylpentane	1.130	0.15	1	0	113	70	130				
n-ethyltoluene	1.100	0.15	1	0	110	70	130				
acetone	0.9900	0.30	1	0	99.0	70	130				
ethyl chloride	0.9000	0.15	1	0	90.0	70	130				
benzene	1.260	0.15	1	0	126	70	130				S
benzyl chloride	0.5900	0.15	1	0	59.0	70	130				S
bromodichloromethane	1.310	0.15	1	0	131	70	130				S
bromoform	1.260	0.15	1	0	126	70	130				
bromomethane	1.310	0.15	1	0	131	70	130				
carbon disulfide	1.060	0.15	1	0	106	70	130				
carbon tetrachloride	1.270	0.15	1	0	127	70	130				
chlorobenzene	1.280	0.15	1	0	128	70	130				
chloroethane	1.390	0.15	1	0	139	70	130				S
chloroform	1.190	0.15	1	0	119	70	130				
chloromethane	1.250	0.15	1	0	125	70	130				
cis-1,2-Dichloroethene	1.020	0.15	1	0	102	70	130				
cis-1,3-Dichloropropene	1.080	0.15	1	0	108	70	130				
cyclohexane	1.110	0.15	1	0	111	70	130				
dibromochloromethane	1.220	0.15	1	0	122	70	130				
ethyl acetate	1.210	0.15	1	0	121	70	130				
ethylbenzene	1.130	0.15	1	0	113	70	130				
Freon 11	1.270	0.15	1	0	127	70	130				
Freon 113	1.270	0.15	1	0	127	70	130				
Freon 114	1.510	0.15	1	0	151	70	130				S
Freon 12	1.260	0.15	1	0	126	70	130				
heptane	1.040	0.15	1	0	104	70	130				

Qualifiers: Results reported are not blank corrected
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

DL Detection Limit
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS

Work Order: C2307002

Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UG-070723	Sample Type: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20589						
Client ID: ZZZZZ	Batch ID: R20689	TestNo: TO-15		Analysis Date: 7/7/2023	SeqNo: 235720						
anlyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
exachloro-1,3-butadiene	1.540	0.15	1	0	154	70	130				S
exane	1.000	0.15	1	0	100	70	130				
opropyl alcohol	0.9200	0.15	1	0	92.0	70	130				
is-p-Xylene	2.250	0.30	2	0	112	70	130				
lethyl Butyl Ketone	0.7800	0.30	1	0	78.0	70	130				
lethyl Ethyl Ketone	0.9600	0.30	1	0	96.0	70	130				
lethyl Isobutyl Ketone	0.8600	0.30	1	0	86.0	70	130				
lethyl tert-butyl ether	0.8700	0.15	1	0	87.0	70	130				
lethylene chloride	0.7100	0.15	1	0	71.0	70	130				
-Xylene	1.170	0.15	1	0	117	70	130				
ropylene	0.9000	0.15	1	0	90.0	70	130				
tyrene	1.060	0.15	1	0	106	70	130				
etrachloroethylene	1.180	0.15	1	0	118	70	130				
etrahydrofuran	0.8400	0.15	1	0	84.0	70	130				
oluene	1.150	0.15	1	0	115	70	130				
ans-1,2-Dichloroethene	1.140	0.15	1	0	114	70	130				
ans-1,3-Dichloropropene	0.9700	0.15	1	0	97.0	70	130				
richloroethene	1.240	0.15	1	0	124	70	130				
inyl acetate	0.7600	0.15	1	0	76.0	70	130				S
inyl Bromide	1.320	0.15	1	0	132	70	130				S
inyl chloride	1.400	0.15	1	0	140	70	130				

Qualifiers:	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

ANALYTICAL QC SUMMARY REPORT

CLIENT: SOIL MECHANICS

Work Order: C2307002

Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UGD-070523		SampType: LCSD	TestCode: 1ugM3_TO15		Units: ppbV	Prep Date:		RunNo: 20587			
Client ID: ZZZZ	Batch ID: R20587		TestNo: TO-15			Analysis Date: 7/5/2023		SeqNo: 235676			
analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.040	0.15	1	0	104	70	130	1.12	7.41	25	
1,1,2,2-Tetrachloroethane	1.070	0.15	1	0	107	70	130	1.25	15.5	25	
1,1,2-Trichloroethane	1.090	0.15	1	0	109	70	130	1.21	10.4	25	
1-Dichloroethane	0.8000	0.15	1	0	80.0	70	130	0.95	17.1	25	
1-Dichloroethene	0.8300	0.15	1	0	83.0	70	130	0.93	11.4	25	
2,4-Trichlorobenzene	0.9800	0.15	1	0	98.0	70	130	1.17	17.7	25	
2,4-Trimethylbenzene	0.8300	0.15	1	0	83.0	70	130	1	18.6	25	
2-Dibromoethane	0.9800	0.15	1	0	98.0	70	130	1.14	15.1	25	
2-Dichlorobenzene	1.120	0.15	1	0	112	70	130	1.29	14.1	25	
2-Dichloroethane	0.8400	0.15	1	0	84.0	70	130	0.97	14.4	25	
2-Dichloropropane	0.9300	0.15	1	0	93.0	70	130	1.09	15.8	25	
3,5-Trimethylbenzene	0.9500	0.15	1	0	95.0	70	130	1.11	15.5	25	
3-Butadiene	0.8700	0.15	1	0	87.0	70	130	1.13	26.0	25	R
3-Dichlorobenzene	1.080	0.15	1	0	108	70	130	1.24	13.8	25	
4-Dichlorobenzene	1.080	0.15	1	0	108	70	130	1.27	16.2	25	
4-Dioxane	0.7300	0.30	1	0	73.0	70	130	0.77	5.33	25	
2,2,4-trimethylpentane	0.8500	0.15	1	0	85.0	70	130	0.96	12.2	25	
1-ethyltoluene	0.9300	0.15	1	0	93.0	70	130	1.1	16.7	25	
Acetone	0.9400	0.30	1	0	94.0	70	130	1.04	10.1	25	
Allyl chloride	0.6800	0.15	1	0	68.0	70	130	0.77	12.4	25	S
Benzene	0.9600	0.15	1	0	96.0	70	130	1.09	12.7	25	
Benzyl chloride	0.4300	0.15	1	0	43.0	70	130	0.51	17.0	25	S
Bromodichloromethane	1.100	0.15	1	0	110	70	130	1.26	13.6	25	
Bromofluoromethane	1.030	0.15	1	0	103	70	130	1.22	16.9	25	
Bromomethane	1.010	0.15	1	0	101	70	130	1.21	18.0	25	

Qualifiers:	H	R	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
			Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
			RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: SOIL MECHANICS
 Work Order: C2307002
 Project: IEKA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UGD-070523		TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20587						
Batch ID: R20587		TestNo: TO-15		Analysis Date: 7/5/2023	SeqNo: 235876						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
carbon disulfide	0.8100	0.15	1	0	81.0	70	130	0.94	14.9	25	
carbon tetrachloride	0.9400	0.15	1	0	94.0	70	130	1.07	12.9	25	
bromobenzene	0.9800	0.15	1	0	98.0	70	130	1.12	13.3	25	
bromoethane	0.9500	0.15	1	0	95.0	70	130	1.12	16.4	25	
bromoforn	0.9000	0.15	1	0	90.0	70	130	1.03	13.5	25	
bromomethane	0.9700	0.15	1	0	97.0	70	130	1.2	21.2	25	
s-1,2-Dichloroethene	0.7800	0.15	1	0	78.0	70	130	0.88	12.0	25	
s-1,3-Dichloropropene	0.8200	0.15	1	0	82.0	70	130	0.96	15.7	25	
cyclohexane	0.8200	0.15	1	0	82.0	70	130	0.94	13.6	25	
ibromochloromethane	1.030	0.15	1	0	103	70	130	1.18	13.6	25	
thyl acetate	0.8800	0.15	1	0	88.0	70	130	0.99	11.8	25	
thylbenzene	0.8500	0.15	1	0	85.0	70	130	1	16.2	25	
reon 11	1.020	0.15	1	0	102	70	130	1.16	12.8	25	
reon 113	0.9400	0.15	1	0	94.0	70	130	1.09	14.8	25	
reon 114	1.060	0.15	1	0	109	70	130	1.34	20.6	25	
reon 12	0.9400	0.15	1	0	94.0	70	130	1.13	18.4	25	
eptane	0.8000	0.15	1	0	80.0	70	130	0.91	12.9	25	
exachloro-1,3-butadiene	1.240	0.15	1	0	124	70	130	1.45	15.6	25	
exane	0.7300	0.15	1	0	73.0	70	130	0.82	11.6	25	S
opropyl alcohol	0.6400	0.15	1	0	64.0	70	130	0.7	8.96	25	
8&p-Xylene	1.820	0.30	2	0	91.0	70	130	2.13	15.7	25	S
lethyl Butyl Ketone	0.5900	0.30	1	0	59.0	70	130	0.69	15.6	25	
lethyl Ethyl Ketone	0.7500	0.30	1	0	75.0	70	130	0.76	13.2	25	
lethyl Isobutyl Ketone	0.6400	0.30	1	0	64.0	70	130	0.74	14.5	25	S
lethyl tert-butyl ether	0.6500	0.15	1	0	65.0	70	130	0.73	11.6	25	S
lethylene chloride	0.8600	0.15	1	0	86.0	70	130	0.91	5.65	25	
-Xylene	1.000	0.15	1	0	100	70	130	1.16	14.8	25	
ropylene	0.7300	0.15	1	0	73.0	70	130	0.86	16.4	25	
tyrene	0.8900	0.15	1	0	89.0	70	130	1.03	14.6	25	
tetrachloroethylene	1.030	0.15	1	0	103	70	130	1.21	16.1	25	
tetrahydrofuran	0.6200	0.15	1	0	62.0	70	130	0.66	6.25	25	S

Qualifiers: H Results reported are not blank corrected
 R Holding times for preparation or analysis exceeded
 S RPD outside accepted recovery limits
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS

Work Order: C2307002

Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UGD-070523	Batch ID: R20587	Sample Type: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20587					
Client ID: ZZZZZ			TestNo: TO-15		Analysis Date: 7/5/2023	SeqNo: 235676					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
oluene	0.8900	0.15	1	0	89.0	70	130	1.02	13.6	25	
ans-1,2-Dichloroethene	0.8400	0.15	1	0	84.0	70	130	0.95	12.3	25	
ans-1,3-Dichloropropane	0.6800	0.15	1	0	68.0	70	130	0.76	11.1	25	S
richloroethene	1.030	0.15	1	0	103	70	130	1.16	11.9	25	
inyl acetate	0.3700	0.15	1	0	37.0	70	130	0.4	7.79	25	S
inyl Bromide	0.9500	0.15	1	0	95.0	70	130	1.19	22.4	25	
inyl chloride	1.010	0.15	1	0	101	70	130	1.23	19.6	25	

Sample ID: ALCS1UGD-070623	Batch ID: R20588	Sample Type: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20588					
Client ID: ZZZZZ			TestNo: TO-15		Analysis Date: 7/6/2023	SeqNo: 235698					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9700	0.15	1	0	97.0	70	130	0.97	0	25	
1,1,2,2-Tetrachloroethane	1.050	0.15	1	0	105	70	130	1.03	1.92	25	
1,1,2-Trichloroethane	1.000	0.15	1	0	100	70	130	1.06	5.83	25	
1-Dichloroethane	0.8000	0.15	1	0	80.0	70	130	0.84	4.88	25	
1-Dichloroethene	0.8400	0.15	1	0	84.0	70	130	0.92	9.09	25	
2,4-Trichlorobenzene	0.8500	0.15	1	0	85.0	70	130	0.89	4.60	25	
2,4-Trimethylbenzene	0.8300	0.15	1	0	83.0	70	130	0.83	0	25	
2-Dibromoethane	1.000	0.15	1	0	100	70	130	0.96	2.02	25	
2-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.07	0.939	25	
2-Dichloroethane	0.8000	0.15	1	0	80.0	70	130	0.84	4.88	25	
2-Dichloropropene	0.9300	0.15	1	0	93.0	70	130	0.94	1.07	25	
3,5-Trimethylbenzene	0.9100	0.15	1	0	91.0	70	130	0.92	1.09	25	
3-butadiene	0.8200	0.15	1	0	82.0	70	130	0.94	13.6	25	
3-Dichlorobenzene	1.010	0.15	1	0	101	70	130	1.04	2.93	25	
1,4-Dichlorobenzene	1.270	0.15	1	0	127	70	130	1.21	4.84	25	
P4-Dioxane	0.7900	0.30	1	0	79.0	70	130	0.8	1.26	25	
2,2,4-trimethylpentane	0.8500	0.15	1	0	85.0	70	130	0.85	0	25	
1-ethyltoluene	0.9300	0.15	1	0	93.0	70	130	0.9	3.28	25	

Qualifiers:	H	R	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
			Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
			RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: SOIL MECHANICS

Work Order: C2307002

Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALC-S1UGD-070623			Sample Type: LCSD	TestCode: 1ugM3_TO15		Units: ppbV	Prep Date:		RunNo: 20688		
Client ID: ZZZZZ			Batch ID: R20688	TestNo: TO-15			Analysis Date: 7/6/2023		SeqNo: 235698		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
acetone	0.8600	0.30	1	0	86.0	70	130	0.94	8.89	25	
ethyl chloride	0.7000	0.15	1	0	70.0	70	130	0.75	6.90	25	
benzene	0.9900	0.15	1	0	99.0	70	130	0.97	2.04	25	
benzyl chloride	0.6900	0.15	1	0	69.0	70	130	0.63	9.09	25	S
1,1-dichloroethane	1.040	0.15	1	0	104	70	130	1.07	2.84	25	
1,1-dichloroethene	1.050	0.15	1	0	105	70	130	1.02	2.90	25	
1,1-dibromochloroethane	0.9700	0.15	1	0	97.0	70	130	1.09	11.7	25	
1,1-dibromomethane	0.8200	0.15	1	0	82.0	70	130	0.89	8.19	25	
1,1-dibromodisulfide	0.9100	0.15	1	0	91.0	70	130	0.93	2.17	25	
1,1-dibromotetrachloride	0.9900	0.15	1	0	99.0	70	130	0.98	1.02	25	
1,1-dibromobenzene	0.9300	0.15	1	0	93.0	70	130	1.03	10.2	25	
1,1-dibromoethane	0.8900	0.15	1	0	89.0	70	130	0.95	6.52	25	
1,1-dibromochloroform	0.9300	0.15	1	0	93.0	70	130	1.03	10.2	25	
1,1-dibromomethane	0.7800	0.15	1	0	78.0	70	130	0.8	2.53	25	
1,1-dibromois-1,2-Dichloroethane	0.8000	0.15	1	0	80.0	70	130	0.85	6.06	25	
1,1-dibromois-1,3-Dichloropropene	0.8500	0.15	1	0	85.0	70	130	0.83	2.38	25	
1,1-dibromocyclohexane	1.030	0.15	1	0	103	70	130	1	2.96	25	
1,1-dibromodibromochloromethane	0.8900	0.15	1	0	89.0	70	130	0.91	2.22	25	
1,1-dibromoethyl acetate	0.8600	0.15	1	0	86.0	70	130	0.85	1.17	25	
1,1-dibromobenzene	0.9700	0.15	1	0	97.0	70	130	1	3.05	25	
1,1-dibromofreon 11	0.9300	0.15	1	0	93.0	70	130	0.98	5.24	25	
1,1-dibromofreon 113	1.040	0.15	1	0	104	70	130	1.17	11.8	25	
1,1-dibromofreon 114	0.8900	0.15	1	0	89.0	70	130	0.99	10.6	25	
1,1-dibromofreon 12	0.7800	0.15	1	0	78.0	70	130	0.8	2.53	25	
1,1-dibromohexane	1.220	0.15	1	0	122	70	130	1.23	0.816	25	
1,1-dibromohexachloro-1,3-butadiene	0.7400	0.15	1	0	74.0	70	130	0.75	1.34	25	
1,1-dibromohexane	0.7500	0.15	1	0	75.0	70	130	0.76	1.32	25	
1,1-dibromoisopropyl alcohol	1.830	0.30	2	0	91.5	70	130	1.79	2.21	25	
1,1-dibromoisopropyl-Xylene	0.6900	0.30	1	0	69.0	70	130	0.68	1.46	25	S
1,1-dibromoisobutyl Ketone	0.7200	0.30	1	0	72.0	70	130	0.78	8.00	25	
1,1-dibromomethyl Ethyl Ketone	0.7100	0.30	1	0	71.0	70	130	0.68	4.32	25	
1,1-dibromomethyl isobutyl Ketone											

Qualifiers: R Results reported are not blank corrected
 H Holding times for preparation or analysis exceeded
 S Spike Recovery outside accepted recovery limits
 ND Not Detected at the Limit of Detection
 E Estimated Value above quantitation range

AGENT: SOIL MECHANICS

Work Order: C2307002

Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UGD-070623	Batch ID: ZZZZZ	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20588						
Client ID: ZZZZZ	Batch ID: R20588	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: ALCS1UGD-070723	Sample Type: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20589						
Client ID: ZZZZZ	Batch ID: R20589	TestNo: TO-15		Analysis Date: 7/7/2023	SeqNo: 235721						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.270	0.15	1	0	127	70	130	1.26	0.791	25	
1,1,2,2-Tetrachloroethane	1.420	0.15	1	0	142	70	130	1.27	11.2	25	S
1,1,2-Trichloroethane	1.380	0.15	1	0	138	70	130	1.35	2.20	25	S
1,1-Dichloroethane	1.080	0.15	1	0	108	70	130	1.1	1.83	25	
1,1-Dichloroethene	1.090	0.15	1	0	109	70	130	1.1	0.913	25	
1,2,4-Trichlorobenzene	1.200	0.15	1	0	120	70	130	1.12	6.90	25	
1,2,4-Trimethylbenzene	1.100	0.15	1	0	110	70	130	0.96	11.5	25	
1,2-Dibromoethane	1.400	0.15	1	0	140	70	130	1.28	8.96	25	S
1,2-Dichlorobenzene	1.440	0.15	1	0	144	70	130	1.26	13.3	25	S
1,2-Dichloroethane	1.120	0.15	1	0	112	70	130	1.12	0	25	
2,2-Dichloropropane	1.250	0.15	1	0	125	70	130	1.22	2.43	25	

Qualifiers: Results reported are not blank corrected
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

DL Detection Limit
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

AGENT: SOIL MECHANICS

Work Order: C2307002

Object: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCSTUGD-070723		Batch ID: ZZZZZ	Batch ID: R20589	TestCode: tugM3_TO15	Units: ppbv	Prep Date:		RunNo: 20589			
TestCode: tugM3_TO15		Units: ppbv	Analysis Date: 7/7/2023		SeqNo: 235721						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,5-Trimethylbenzene	1.280	0.15	1	0	128	70	130	1.1	15.1	25	
3-butadiene	1.210	0.15	1	0	121	70	130	1.26	4.05	25	
3-Dichlorobenzene	1.380	0.15	1	0	138	70	130	1.22	12.3	25	S
4-Dichlorobenzene	1.820	0.15	1	0	182	70	130	1.71	6.23	25	S
4-Dioxane	1.050	0.30	1	0	105	70	130	0.99	5.88	25	
2,4-trimethylpentane	1.140	0.15	1	0	114	70	130	1.13	0.881	25	
ethyltoluene	1.250	0.15	1	0	125	70	130	1.1	12.8	25	
acetone	0.9400	0.30	1	0	94.0	70	130	0.99	5.18	25	
ethyl chloride	0.8900	0.15	1	0	89.0	70	130	0.9	1.12	25	
benzene	1.290	0.15	1	0	129	70	130	1.26	2.35	25	
benzyl chloride	0.6700	0.15	1	0	67.0	70	130	0.59	12.7	25	S
monochloromethane	1.410	0.15	1	0	141	70	130	1.31	7.35	25	S
monofom	1.410	0.15	1	0	141	70	130	1.26	11.2	25	S
monomethane	1.380	0.15	1	0	138	70	130	1.31	5.20	25	S
carbon disulfide	1.040	0.15	1	0	104	70	130	1.06	1.90	25	
carbon tetrachloride	1.290	0.15	1	0	129	70	130	1.27	1.56	25	
chlorobenzene	1.290	0.15	1	0	129	70	130	1.28	0.778	25	
chloroethane	1.310	0.15	1	0	131	70	130	1.39	5.93	25	S
chloroform	1.180	0.15	1	0	118	70	130	1.19	0.844	25	
chloromethane	1.380	0.15	1	0	138	70	130	1.25	9.89	25	S
is-1,2-Dichloroethene	1.020	0.15	1	0	102	70	130	1.02	0	25	
is-1,3-Dichloropropene	1.110	0.15	1	0	111	70	130	1.08	2.74	25	
cyclohexane	1.140	0.15	1	0	114	70	130	1.11	2.67	25	
tribromochloromethane	1.220	0.15	1	0	122	70	130	1.22	0	25	
ethyl acetate	1.200	0.15	1	0	120	70	130	1.21	0.830	25	
ethylbenzene	1.090	0.15	1	0	109	70	130	1.13	3.60	25	
neon 11	1.350	0.15	1	0	135	70	130	1.27	6.11	25	S
neon 113	1.240	0.15	1	0	124	70	130	1.27	2.39	25	
neon 114	1.410	0.15	1	0	141	70	130	1.51	6.85	25	S
neon 12	1.240	0.15	1	0	124	70	130	1.26	1.60	25	
neopentane	1.070	0.15	1	0	107	70	130	1.04	2.84	25	

Qualifiers: H Results reported are not blank corrected
 R Holding times for preparation or analysis exceeded
 ND RPD outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS

Work Order: C2307002

Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UGD-070723	Batch ID: R20589	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20589					
Client ID: ZZZZZ			TestNo: TO-15		Analysis Date: 7/7/2023	SeqNo: 236721					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPQLimit	Qual
hexachloro-1,3-butadiene	1.740	0.15	1	0	174	70	130	1.54	12.2	25	S
hexane	0.9800	0.15	1	0	98.0	70	130	1	2.02	25	
propyl alcohol	0.9100	0.15	1	0	91.0	70	130	0.92	1.09	25	
p-Xylene	2.410	0.30	2	0	120	70	130	2.25	6.87	25	
ethyl Butyl Ketone	0.8800	0.30	1	0	88.0	70	130	0.78	12.0	25	
ethyl Ethyl Ketone	0.9100	0.30	1	0	91.0	70	130	0.96	5.35	25	
ethyl Isobutyl Ketone	0.9800	0.30	1	0	98.0	70	130	0.86	13.0	25	
ethyl tert-butyl ether	0.8700	0.15	1	0	87.0	70	130	0.87	0	25	
ethylene chloride	0.7000	0.15	1	0	70.0	70	130	0.71	1.42	25	
Xylene	1.300	0.15	1	0	130	70	130	1.17	10.5	25	
propylene	0.8800	0.15	1	0	88.0	70	130	0.9	2.25	25	
tyrene	1.200	0.15	1	0	120	70	130	1.06	12.4	25	
tetrachloroethylene	1.480	0.15	1	0	148	70	130	1.18	22.6	25	S
tetrahydrofuran	0.8300	0.15	1	0	83.0	70	130	0.84	1.20	25	
toluene	1.280	0.15	1	0	128	70	130	1.15	10.7	25	
trans-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130	1.14	2.67	25	
trans-1,3-Dichloropropene	0.9800	0.15	1	0	98.0	70	130	0.97	1.03	25	
trichloroethene	1.260	0.15	1	0	126	70	130	1.24	1.60	25	
vinyl acetate	0.5100	0.15	1	0	51.0	70	130	0.76	39.4	25	SR
vinyl Bromide	1.320	0.15	1	0	132	70	130	1.32	0	25	S
vinyl chloride	1.400	0.15	1	0	140	70	130	1.4	0	25	S

Qualifiers: H Results reported are not blank corrected
 R Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

DL Detection Limit
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection



CENTEK LABORATORIES, LLC

Date: 02-Aug-23

ANALYTICAL QC SUMMARY REPORT

CLIENT: SOIL MECHANICS
Work Order: C2307002
Project: IKEA Red Hook

TestCode: IugM3_TO15

Sample ID: AMB1UG-070523	Sample Type: MBLK	TestCode: IugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20587						
Client ID: ZZZZZ	Batch ID: R20587	TestNo: TO-15		Analysis Date: 7/5/2023	SeqNo: 235674						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1-Dichloroethane	< 0.15	0.15									
1-Dichloroethene	< 0.15	0.15									
2,4-Trichlorobenzene	< 0.15	0.15									
2,4-Trimethylbenzene	< 0.15	0.15									
2-Dibromoethane	< 0.15	0.15									
2-Dichlorobenzene	< 0.15	0.15									
2-Dichloroethane	< 0.15	0.15									
2-Dichloropropane	< 0.15	0.15									
3,5-Trimethylbenzene	< 0.15	0.15									
3-Butadiene	< 0.15	0.15									
3-Dichlorobenzene	< 0.15	0.15									
4-Dichlorobenzene	< 0.15	0.15									
4-Dioxane	< 0.30	0.30									
2,4-trimethylpentane	< 0.15	0.15									
n-ethyltoluene	< 0.15	0.15									
acetone	< 0.30	0.30									
ethyl chloride	< 0.15	0.15									
benzene	< 0.15	0.15									
benzyl chloride	< 0.15	0.15									
1,1-dimethyldichloromethane	< 0.15	0.15									
chloroform	< 0.15	0.15									
1,1-dibromomethane	< 0.15	0.15									

Qualifiers:	H	R	H	R	E
	Results reported are not blank corrected	Holding times for preparation or analysis exceeded	DL	Detection Limit	Estimated Value above quantitation range
		RPD outside accepted recovery limits	I	Analyte detected below quantitation limit	ND
			S	Spike Recovery outside accepted recovery limits	Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS

Work Order: C2307002

Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: AMB1UG-070523	Sample Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20587						
Client ID: ZZZZZ	Batch ID: R20587	TestNo: TO-15		Analysis Date: 7/5/2023	SeqNo: 235674						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
1,1-Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m,p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
m-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Pyrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers: Results reported are not blank corrected
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 DL Detection Limit
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS

Work Order: C2307002

Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: AMB1UG-070523	Sample Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20587
Client ID: ZZZZZ	Batch ID: R20587	TestNo: TO-15		Analysis Date: 7/5/2023	SeqNo: 235674

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethyl Bromide	< 0.15	0.15									
Ethyl chloride	< 0.15	0.15									

Sample ID: AMB1UG-070623	Sample Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20588
Client ID: ZZZZZ	Batch ID: R20588	TestNo: TO-15		Analysis Date: 7/6/2023	SeqNo: 235696

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,2,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
2,4-Trichlorobenzene	< 0.15	0.15									
2,4-Trimethylbenzene	< 0.15	0.15									
2,4-Dibromobenzene	< 0.15	0.15									
2,2-Dichlorobenzene	< 0.15	0.15									
2,2-Dichloroethane	< 0.15	0.15									
2,2-Dichloropropane	< 0.15	0.15									
3,5-Trimethylbenzene	< 0.15	0.15									
3-Butadiene	< 0.15	0.15									
3-Dichlorobenzene	< 0.15	0.15									
4-Dichlorobenzene	< 0.15	0.15									
4-Dioxane	< 0.30	0.30									
2,4-trimethylpentane	< 0.15	0.15									
Ethyltoluene	< 0.15	0.15									

Qualifiers:	H	R	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H			Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R			RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: SOIL MECHANICS
Work Order: C2307002
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: AMB1UG-070623 Sample Type: MBLK TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 20588
Client ID: ZZZZZ Batch ID: R20588 TestNo: TO-15 Analysis Date: 7/6/2023 SeqNo: 235696

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
acetone	< 0.30	0.30									
allyl chloride	< 0.15	0.15									
benzene	< 0.15	0.15									
benzyl chloride	< 0.15	0.15									
bromodichloromethane	< 0.15	0.15									
bromoform	< 0.15	0.15									
bromomethane	< 0.15	0.15									
carbon disulfide	< 0.15	0.15									
carbon tetrachloride	< 0.15	0.15									
chlorobenzene	< 0.15	0.15									
chloroethane	< 0.15	0.15									
chloroform	< 0.15	0.15									
chloromethane	< 0.15	0.15									
is-1,2-Dichloroethene	< 0.15	0.15									
is-1,3-Dichloropropene	< 0.15	0.15									
cyclohexane	< 0.15	0.15									
libromochloromethane	< 0.15	0.15									
ethyl acetate	< 0.15	0.15									
ethylbenzene	< 0.15	0.15									
neon 11	< 0.15	0.15									
neon 113	< 0.15	0.15									
neon 114	< 0.15	0.15									
neon 12	< 0.15	0.15									
heptane	< 0.15	0.15									
hexachloro-1,3-butadiene	< 0.15	0.15									
hexane	< 0.15	0.15									
isopropyl alcohol	< 0.15	0.15									
m,p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers: H Results reported are not blank corrected DL Detection Limit E Estimated Value above quantitation range
 R Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit ND Not Detected at the Limit of Detection
 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: SOIL MECHANICS

Work Order: C2307002

Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: AMB1UG-070623	Sample Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20588						
Client ID: ZZZZZ	Batch ID: R20588	TestNo: TO-15		Analysis Date: 7/6/2023	SeqNo: 235696						
analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1ethyl tert-butyl ether	< 0.15	0.15									
1ethylene chloride	< 0.15	0.15									
-Xylene	< 0.15	0.15									
1propylene	< 0.15	0.15									
1tyrene	< 0.15	0.15									
1etrachloroethylene	< 0.15	0.15									
1etrahydrofuran	< 0.15	0.15									
1oluene	< 0.15	0.15									
1ans-1,2-Dichloroethene	< 0.15	0.15									
1ans-1,3-Dichloropropene	< 0.15	0.15									
1richloroethene	< 0.15	0.15									
1inyl acetate	< 0.15	0.15									
1inyl Bromide	< 0.15	0.15									
1inyl chloride	< 0.15	0.15									

Sample ID: AMB1UG-070723	Sample Type:	MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20589					
Client ID: ZZZZZ	Batch ID:	R20589	TestNo: TO-15		Analysis Date: 7/7/2023	SeqNo: 235719					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1-Dichloroethane	< 0.15	0.15									
1-Dichloroethene	< 0.15	0.15									
2,4-Trichlorobenzene	< 0.15	0.15									
2,4-Trimethylbenzene	< 0.15	0.15									
2-Dibromoethane	< 0.15	0.15									
2-Dichlorobenzene	< 0.15	0.15									
2-Dichloroethane	< 0.15	0.15									
2,2-Dichloropropane	< 0.15	0.15									

Qualifiers:	Results reported are not blank	corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limit	NID	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits		S	Spike Recovery outside accepted recovery limits		

CLIENT: SOIL MECHANICS

Work Order: C2307002

Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: AMB1UG-070723	Sample Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20589						
Client ID: ZZZZZ	Batch ID: R20589	TestNo: TO-15		Analysis Date: 7/7/2023	SeqNo: 235719						
Analyle	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,3,5-Trimethylbenzene	< 0.15	0.15									
3-butadiene	< 0.15	0.15									
3-Dichlorobenzene	< 0.15	0.15									
4-Dichlorobenzene	< 0.15	0.15									
4-Dioxane	< 0.30	0.30									
1,2,4-trimethylpentane	< 0.15	0.15									
n-ethyltoluene	< 0.15	0.15									
acetone	< 0.30	0.30									
ethyl chloride	< 0.15	0.15									
benzene	< 0.15	0.15									
benzyl chloride	< 0.15	0.15									
bromodichloromethane	< 0.15	0.15									
bromoform	< 0.15	0.15									
bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
ethyl acetate	< 0.15	0.15									
ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
heptane	< 0.15	0.15									

Qualifiers:	Results reported are not blank, corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: SOIL MECHANICS

Work Order: C2307002

Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: AMB1UG-070723	Sample Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20589						
Client ID: ZZZZZ	Batch ID: R20589	TestNo: TO-15		Analysis Date: 7/7/2023	SeqNo: 235719						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
hexachloro-1,3-butadiene	< 0.15	0.15									
hexane	< 0.15	0.15									
isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
methyl Butyl Ketone	< 0.30	0.30									
methyl Ethyl Ketone	< 0.30	0.30									
methyl isobutyl Ketone	< 0.30	0.30									
methyl tert-butyl ether	< 0.15	0.15									
methylene chloride	< 0.15	0.15									
m-Xylene	< 0.15	0.15									
propylene	< 0.15	0.15									
styrene	< 0.15	0.15									
tetrachloroethylene	< 0.15	0.15									
tetrahydrofuran	< 0.15	0.15									
toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
trichloroethene	< 0.15	0.15									
vinyl acetate	< 0.15	0.15									
vinyl Bromide	< 0.15	0.15									
vinyl chloride	< 0.15	0.15									

Qualifiers:	Results reported are not blank corrected	IDL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Compound	Amt	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	AVG	StdDev	%Rec	IDL
Propylene	0.3	0.31	0.33	0.32	0.26	0.3	0.31	0.33	0.31	0.02	102.9%	0.076
Freon 12	0.3	0.33	0.31	0.31	0.31	0.32	0.31	0.31	0.31	0.01	104.8%	0.025
Chloromethane	0.3	0.31	0.31	0.3	0.26	0.31	0.34	0.33	0.31	0.03	102.9%	0.080
Freon 114	0.3	0.32	0.32	0.32	0.32	0.34	0.32	0.33	0.32	0.01	108.1%	0.025
Vinyl Chloride	0.3	0.34	0.32	0.31	0.33	0.31	0.31	0.3	0.32	0.01	105.7%	0.043
Butane	0.3	0.31	0.32	0.33	0.3	0.31	0.32	0.33	0.32	0.01	105.7%	0.035
1,3-butadiene	0.3	0.33	0.33	0.33	0.28	0.39	0.36	0.35	0.34	0.03	112.9%	0.106
Bromomethane	0.3	0.33	0.31	0.33	0.33	0.36	0.34	0.31	0.33	0.02	110.0%	0.054
Chloroethane	0.3	0.39	0.29	0.29	0.35	0.28	0.32	0.34	0.32	0.04	107.6%	0.125
Ethanol	0.3	0.34	0.3	0.3	0.26	0.35	0.28	0.34	0.31	0.03	103.3%	0.107
Acrolein	0.3	0.33	0.28	0.27	0.28	0.25	0.3	0.23	0.28	0.03	92.4%	0.102
Vinyl Bromide	0.3	0.34	0.35	0.33	0.34	0.35	0.33	0.32	0.34	0.01	112.4%	0.035
Freon 11	0.3	0.32	0.33	0.34	0.31	0.34	0.31	0.32	0.32	0.01	108.1%	0.040
Acetone	0.3	0.39	0.27	0.31	0.3	0.27	0.33	0.26	0.30	0.05	101.4%	0.143
Pentane	0.3	0.29	0.29	0.29	0.27	0.31	0.39	0.29	0.30	0.04	101.4%	0.124
Isopropyl alcohol	0.3	0.3	0.28	0.28	0.28	0.26	0.27	0.26	0.28	0.01	91.9%	0.044
1,1-dichloroethene	0.3	0.3	0.31	0.32	0.3	0.34	0.31	0.32	0.31	0.01	104.8%	0.044
Freon 113	0.3	0.32	0.31	0.32	0.31	0.32	0.31	0.31	0.31	0.01	104.8%	0.017
t-Butyl alcohol	0.3	0.28	0.3	0.29	0.26	0.29	0.27	0.3	0.28	0.02	94.8%	0.048
Methylene chloride	0.3	0.35	0.35	0.31	0.33	0.33	0.34	0.33	0.33	0.01	111.4%	0.044
Allyl chloride	0.3	0.29	0.29	0.29	0.27	0.26	0.23	0.29	0.27	0.02	91.4%	0.072
Carbon disulfide	0.3	0.34	0.33	0.33	0.33	0.33	0.3	0.31	0.32	0.01	108.1%	0.044
trans-1,2-dichloroethene	0.3	0.28	0.3	0.31	0.29	0.31	0.28	0.3	0.30	0.01	98.6%	0.040
methyl tert-butyl ether	0.3	0.28	0.3	0.29	0.27	0.3	0.27	0.29	0.29	0.01	95.2%	0.040
1,1-dichloroethane	0.3	0.31	0.27	0.28	0.29	0.31	0.29	0.28	0.29	0.02	96.7%	0.048
Vinyl acetate	0.3	0.28	0.28	0.29	0.27	0.29	0.26	0.29	0.28	0.01	93.3%	0.036
Methyl Ethyl Ketone	0.3	0.31	0.3	0.34	0.3	0.28	0.29	0.25	0.30	0.03	98.6%	0.087
cis-1,2-dichloroethene	0.3	0.35	0.34	0.34	0.26	0.35	0.27	0.27	0.31	0.04	103.8%	0.133
Hexane	0.3	0.28	0.29	0.27	0.25	0.26	0.24	0.27	0.27	0.02	88.6%	0.054
Ethyl acetate	0.3	0.28	0.28	0.29	0.26	0.29	0.24	0.27	0.27	0.02	91.0%	0.057
Chloroform	0.3	0.31	0.3	0.31	0.3	0.32	0.29	0.29	0.30	0.01	101.0%	0.035
Tetrahydrofuran	0.3	0.29	0.3	0.29	0.29	0.27	0.27	0.31	0.29	0.01	96.2%	0.046

Compound	Amt	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	AVG	StdDev	%Rec	IDL
1,2-dichloroethane	0.3	0.3	0.26	0.3	0.29	0.32	0.28	0.29	0.29	0.02	97.1%	0.059
1,1,1-trichloroethane	0.3	0.3	0.29	0.29	0.32	0.31	0.34	0.32	0.31	0.02	103.3%	0.057
Cyclohexane	0.3	0.27	0.29	0.29	0.3	0.29	0.31	0.31	0.29	0.01	98.1%	0.044
Carbon tetrachloride	0.3	0.31	0.3	0.29	0.34	0.31	0.36	0.32	0.32	0.02	106.2%	0.076
Benzene	0.3	0.32	0.3	0.3	0.32	0.32	0.34	0.32	0.32	0.01	105.7%	0.043
Methyl methacrylate	0.3	0.31	0.31	0.3	0.31	0.31	0.27	0.26	0.30	0.02	98.6%	0.068
1,4-dioxane	0.3	0.28	0.29	0.29	0.28	0.29	0.29	0.28	0.29	0.01	95.2%	0.017
2,2,4-trimethylpentane	0.3	0.29	0.29	0.28	0.3	0.29	0.3	0.3	0.29	0.01	97.6%	0.024
Heptane	0.3	0.28	0.27	0.27	0.26	0.29	0.29	0.29	0.28	0.01	92.9%	0.038
Trichloroethene	0.3	0.33	0.32	0.3	0.34	0.32	0.35	0.32	0.33	0.02	108.6%	0.051
1,2-dichloropropane	0.3	0.31	0.3	0.29	0.33	0.31	0.34	0.32	0.31	0.02	104.8%	0.054
Bromodichloromethane	0.3	0.31	0.29	0.28	0.32	0.3	0.34	0.31	0.31	0.02	102.4%	0.062
cis-1,3-dichloropropene	0.3	0.28	0.25	0.25	0.27	0.26	0.29	0.26	0.27	0.02	88.6%	0.048
trans-1,3-dichloropropene	0.3	0.27	0.25	0.25	0.25	0.26	0.27	0.28	0.26	0.01	87.1%	0.038
1,1,2-trichloroethane	0.3	0.31	0.31	0.31	0.32	0.32	0.33	0.31	0.32	0.01	105.2%	0.025
Toluene	0.3	0.29	0.3	0.3	0.3	0.29	0.31	0.3	0.30	0.01	99.5%	0.022
Methyl Isobutyl Ketone	0.3	0.29	0.27	0.29	0.29	0.28	0.31	0.32	0.29	0.02	97.6%	0.054
Dibromochloromethane	0.3	0.31	0.28	0.28	0.32	0.27	0.33	0.32	0.30	0.02	100.5%	0.076
Methyl Butyl Ketone	0.3	0.27	0.28	0.29	0.27	0.28	0.26	0.27	0.27	0.01	91.4%	0.031
1,2-dibromoethane	0.3	0.28	0.3	0.28	0.31	0.27	0.33	0.33	0.30	0.02	100.0%	0.077
Tetrachloroethylene	0.3	0.35	0.33	0.32	0.35	0.31	0.36	0.36	0.34	0.02	113.3%	0.063
Chlorobenzene	0.3	0.32	0.31	0.29	0.31	0.3	0.32	0.33	0.31	0.01	103.8%	0.042
Ethylbenzene	0.3	0.28	0.29	0.26	0.27	0.28	0.28	0.29	0.28	0.01	92.9%	0.034
m&p-xylene	0.6	0.56	0.55	0.52	0.53	0.55	0.56	0.55	0.55	0.02	91.0%	0.048
Nonane	0.3	0.27	0.26	0.25	0.26	0.26	0.27	0.28	0.26	0.01	88.1%	0.031
Styrene	0.3	0.28	0.24	0.25	0.25	0.25	0.28	0.3	0.26	0.02	88.1%	0.070
Bromoform	0.3	0.32	0.25	0.25	0.3	0.26	0.33	0.32	0.29	0.04	96.7%	0.112
o-xylene	0.3	0.3	0.27	0.25	0.31	0.27	0.32	0.33	0.29	0.03	97.6%	0.094
Cumene	0.3	0.27	0.23	0.23	0.27	0.23	0.27	0.27	0.25	0.02	84.3%	0.067
1,1,2,2-tetrachloroethane	0.3	0.32	0.29	0.29	0.34	0.29	0.34	0.34	0.32	0.03	105.2%	0.079
Propylbenzene	0.3	0.26	0.23	0.22	0.26	0.23	0.27	0.27	0.25	0.02	82.9%	0.066
2-Chlorotoluene	0.3	0.27	0.24	0.25	0.29	0.24	0.29	0.3	0.27	0.03	89.5%	0.080
4-ethyltoluene	0.3	0.25	0.22	0.23	0.26	0.21	0.27	0.27	0.24	0.02	81.4%	0.077

SanAir/Centek Laboratory
IDL Study1ug/m3 Detection Limit
January 2023Method TO-15
Units=ppb

Compound	Amt	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	AVG	StdDev	%Rec	IDL
1,3,5-trimethylbenzene	0.3	0.28	0.24	0.26	0.28	0.24	0.29	0.31	0.27	0.03	90.5%	0.082
1,2,4-trimethylbenzene	0.3	0.28	0.22	0.23	0.26	0.22	0.26	0.27	0.25	0.02	82.9%	0.078
1,3-dichlorobenzene	0.3	0.29	0.26	0.27	0.29	0.25	0.3	0.32	0.28	0.02	94.3%	0.076
benzyl chloride	0.3	0.24	0.28	0.32	0.29	0.23	0.27	0.29	0.27	0.03	91.4%	0.097
1,4-dichlorobenzene	0.3	0.28	0.24	0.26	0.31	0.23	0.29	0.32	0.28	0.03	91.9%	0.107
1,2,3-trimethylbenzene	0.3	0.26	0.25	0.24	0.24	0.19	0.27	0.27	0.25	0.03	81.9%	0.087
1,2-dichlorobenzene	0.3	0.32	0.27	0.26	0.3	0.25	0.32	0.32	0.29	0.03	97.1%	0.097
1,2,4-trichlorobenzene	0.3	0.26	0.31	0.3	0.28	0.3	0.3	0.31	0.29	0.02	98.1%	0.057
Naphthalene	0.3	0.27	0.32	0.26	0.26	0.29	0.28	0.26	0.28	0.02	92.4%	0.070
Hexachloro-1,3-butadiene	0.3	0.35	0.31	0.33	0.34	0.31	0.36	0.37	0.34	0.02	112.9%	0.074

Compound	Amt	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	AVG	StdDev	%Rec	IDL
Vinyl Chloride	0.1	0.09	0.09	0.10	0.11	0.10	0.11	0.10	0.10	0.01	100.0%	0.026
1,1-dichloroethene	0.1	0.09	0.09	0.09	0.11	0.11	0.13	0.10	0.10	0.01	102.9%	0.047
1,1-dichloroethane	0.1	0.09	0.09	0.09	0.10	0.09	0.11	0.10	0.10	0.01	95.7%	0.025
cis-1,2-dichloroethene	0.1	0.09	0.09	0.09	0.09	0.09	0.11	0.10	0.09	0.01	94.3%	0.025
1,1,1-trichloroethane	0.1	0.09	0.09	0.09	0.10	0.09	0.10	0.10	0.09	0.01	94.3%	0.017
Carbon tetrachloride	0.1	0.09	0.09	0.09	0.10	0.09	0.10	0.10	0.09	0.01	94.3%	0.017
Trichloroethene	0.1	0.09	0.10	0.09	0.11	0.11	0.10	0.12	0.10	0.01	102.9%	0.035
Tetrachloroethylene	0.1	0.10	0.10	0.10	0.11	0.09	0.11	0.12	0.10	0.01	104.3%	0.031
Naphthalene	0.1	0.10	0.08	0.09	0.11	0.09	0.06	0.09	0.09	0.02	88.6%	0.049

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{A_x * C_{is}}{A_{is} * C_x}$$

where: A_x = area of the characteristic ion for the compound being measured
 A_{is} = area of the characteristic ion for the specific internal standard of the compound being measured
 C_x = concentration of the compound being measured (ppbv)
 C_{is} = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\% D = \frac{(RRF_c - \text{mean RRF}_i) * 100}{\text{mean RRF}_i}$$

where: RRF_c = relative response factor from the continuing calibration
 mean RRF_i = mean relative response factor from the initial calibration

Sample Calculations

$$\text{ppbv} = \frac{A_x * I_s * D_f}{A_{is} * RRF}$$

where: A_x = area of the characteristic ion for the compound being measured
 A_{is} = area of the characteristic ion for the specific internal standard of the compound being measured
 I_s = Concentration of the internal standard injected (ppbv)
 RRF = relative response factor for the compound being measured
 D_f = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-1

Lab Order: C2307002

Tag Number: 225,146

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-001A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 8:11:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Acetone	2.0	0.60		ppbV	2	7/6/2023 6:12:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Benzene	0.23	0.15		ppbV	1	7/5/2023 8:11:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Carbon disulfide	0.23	0.15		ppbV	1	7/5/2023 8:11:00 PM
Carbon tetrachloride	1.0	0.15		ppbV	1	7/5/2023 8:11:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Chloroform	0.49	0.15		ppbV	1	7/5/2023 8:11:00 PM
Chloromethane	0.14	0.15	J	ppbV	1	7/5/2023 8:11:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 1 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-001A

Client Sample ID: SVW-1
 Tag Number: 225,146
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Freon 11	1.7	0.15		ppbV	1	7/5/2023 8:11:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Freon 12	0.77	0.15		ppbV	1	7/5/2023 8:11:00 PM
Heptane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Hexane	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Isopropyl alcohol	1.5	0.15		ppbV	1	7/5/2023 8:11:00 PM
m&p-Xylene	0.16	0.30	J	ppbV	1	7/5/2023 8:11:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 8:11:00 PM
Methyl Ethyl Ketone	0.32	0.30		ppbV	1	7/5/2023 8:11:00 PM
Methyl Isobutyl Ketone	0.95	0.30		ppbV	1	7/5/2023 8:11:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Methylene chloride	0.13	0.15	J	ppbV	1	7/5/2023 8:11:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Tetrachloroethylene	0.18	0.15		ppbV	1	7/5/2023 8:11:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Toluene	0.24	0.15		ppbV	1	7/5/2023 8:11:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:11:00 PM
Surr: Bromofluorobenzene	90.0	70-130		%REC	1	7/5/2023 8:11:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 2 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-001A

Client Sample ID: SVW-1
 Tag Number: 225,146
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 8:11:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 8:11:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 8:11:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 8:11:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:11:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 8:11:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 8:11:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 8:11:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:11:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 8:11:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 8:11:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 8:11:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 8:11:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:11:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:11:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 8:11:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 8:11:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 8:11:00 PM
Acetone	4.8	1.4		ug/m3	2	7/6/2023 6:12:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 8:11:00 PM
Benzene	0.73	0.48		ug/m3	1	7/5/2023 8:11:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 8:11:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 8:11:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 8:11:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 8:11:00 PM
Carbon disulfide	0.72	0.47		ug/m3	1	7/5/2023 8:11:00 PM
Carbon tetrachloride	6.5	0.94		ug/m3	1	7/5/2023 8:11:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 8:11:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 8:11:00 PM
Chloroform	2.4	0.73		ug/m3	1	7/5/2023 8:11:00 PM
Chloromethane	0.29	0.31	J	ug/m3	1	7/5/2023 8:11:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:11:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 8:11:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 8:11:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 8:11:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	7/5/2023 8:11:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 8:11:00 PM
Freon 11	9.3	0.84		ug/m3	1	7/5/2023 8:11:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 8:11:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 8:11:00 PM

Qualifiers: . Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 1 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-1

Lab Order: C2307002

Tag Number: 225,146

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-001A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	3.8	0.74		ug/m3	1	7/5/2023 8:11:00 PM
Heptane	< 0.61	0.61		ug/m3	1	7/5/2023 8:11:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 8:11:00 PM
Hexane	< 0.53	0.53		ug/m3	1	7/5/2023 8:11:00 PM
Isopropyl alcohol	3.7	0.37		ug/m3	1	7/5/2023 8:11:00 PM
m&p-Xylene	0.69	1.3	J	ug/m3	1	7/5/2023 8:11:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 8:11:00 PM
Methyl Ethyl Ketone	0.94	0.88		ug/m3	1	7/5/2023 8:11:00 PM
Methyl Isobutyl Ketone	3.9	1.2		ug/m3	1	7/5/2023 8:11:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 8:11:00 PM
Methylene chloride	0.45	0.52	J	ug/m3	1	7/5/2023 8:11:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 8:11:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 8:11:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 8:11:00 PM
Tetrachloroethylene	1.2	1.0		ug/m3	1	7/5/2023 8:11:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 8:11:00 PM
Toluene	0.90	0.57		ug/m3	1	7/5/2023 8:11:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:11:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 8:11:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 8:11:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 8:11:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 8:11:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 8:11:00 PM

Qualifiers: , Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
N Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 2 of 40

Data Path : C:\msdchem\1\data\
 Data File : AU070519.D
 Acq On : 5 Jul 2023 8:11 pm
 Operator : RJP
 Sample : C2307002-001A
 Misc : A629_1UG
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 07:55:27 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

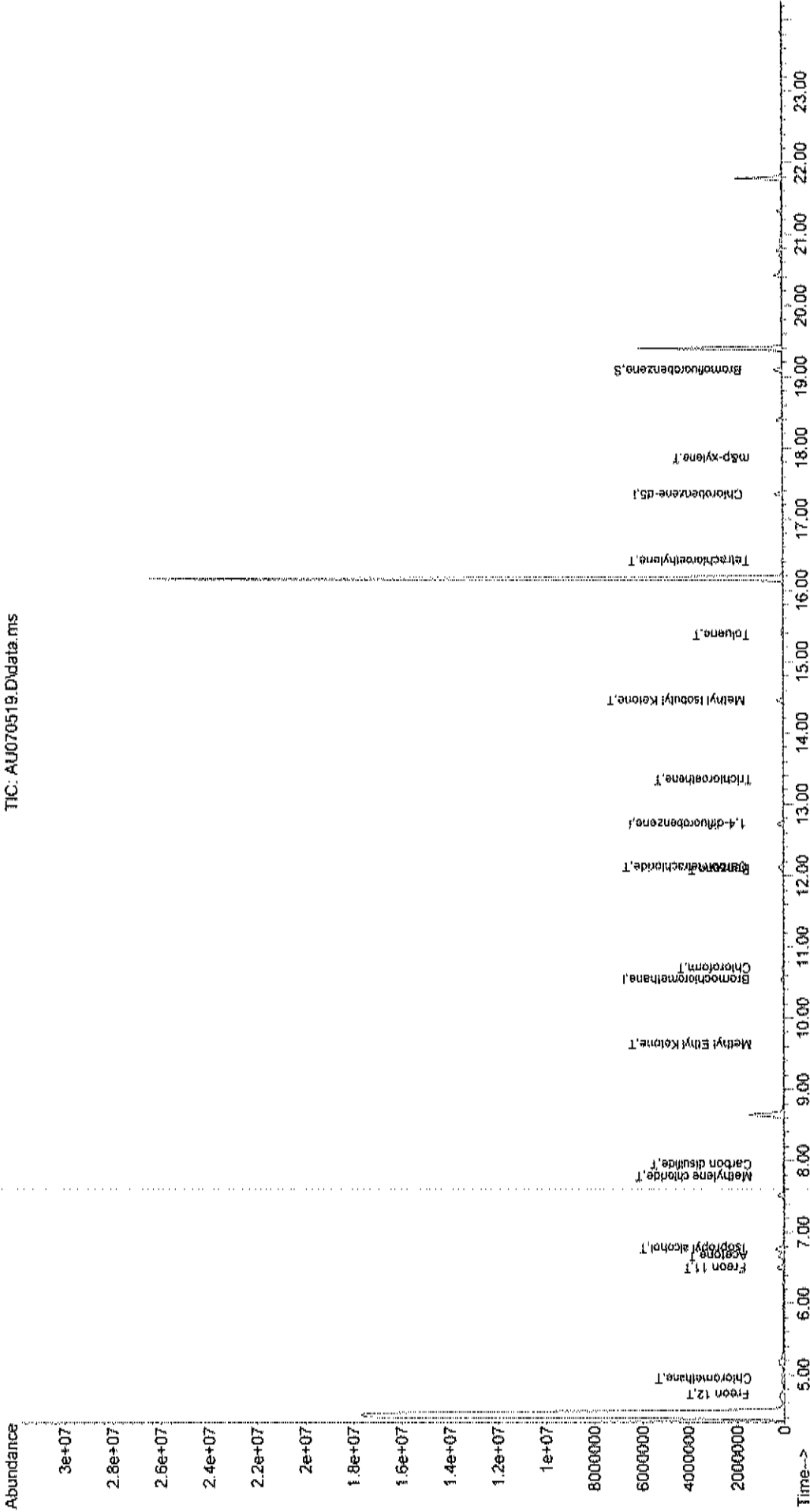
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

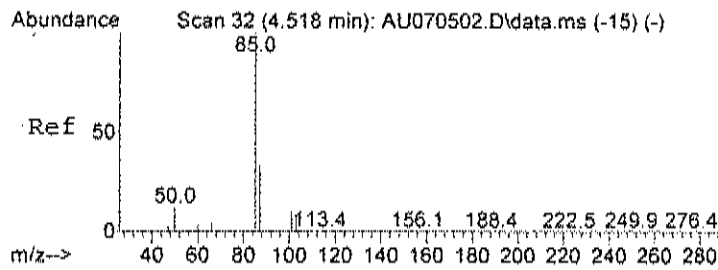
Internal Standards						
1) Bromochloromethane	10.545	128	61045	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	293866	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	264619	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.089	95	179404	0.90	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	90.00%
Target Compounds						
					Qvalue	
3) Freon 12	4.728	85	194023	0.77	ppb	100
4) Chloromethane	4.944	50	11551	0.14	ppb	90
14) Freon 11	6.503	101	417682	1.66	ppb	99
15) Acetone	6.673	58	158491m	2.20	ppb	
17) Isopropyl alcohol	6.775	45	278521	1.49	ppb	# 1
21) Methylene chloride	7.778	84	19390	0.13	ppb	90
23) Carbon disulfide	7.949	76	75385	0.23	ppb	94
28) Methyl Ethyl Ketone	9.632	72	18267m	0.32	ppb	
32) Chloroform	10.704	83	97773	0.49	ppb	100
38) Carbon tetrachloride	12.121	117	179058	1.04	ppb	99
39) Benzene	12.087	78	56704	0.23	ppb	98
44) Trichloroethene	13.340	130	2369	0.02	ppb	89
51) Toluene	15.376	92	44174	0.24	ppb	97
52) Methyl Isobutyl Ketone	14.452	43	246289	0.95	ppb	90
56) Tetrachloroethylene	16.413	164	18872	0.18	ppb	97
59) m&p-xylene	17.853	91	52741	0.16	ppb	96

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

Data Path : C:\msdchem\1\data\
Data File : AU070519.D
Acq On : 5 Jul 2023 8:11 pm
Operator : RJP
Sample : C2307002-001A
Misc : A629_1UG
ALS Vial : 7 Sample Multiplier: 1

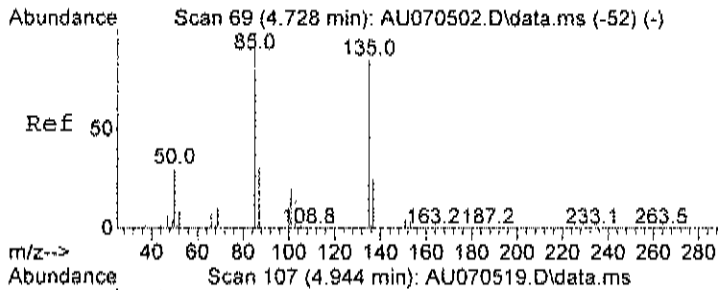
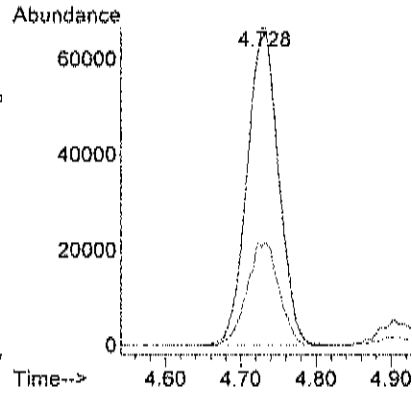
Quant Time: Jul 06 07:55:27 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration





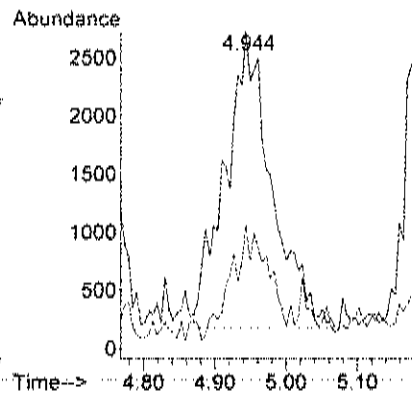
#3
Freon 12
Concen: 0.77 ppb
RT: 4.728 min Scan# 69
Delta R.T. -0.006 min
Lab File: AU070519.D
Acq: 5 Jul 2023 8:11 pm

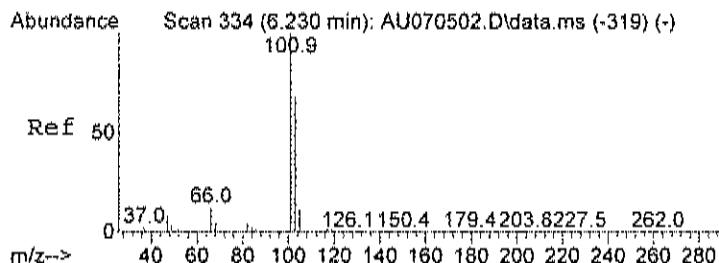
Tgt Ion	85	Resp	194023
Ion Ratio	Lower	Upper	
85	100		
87	33.2	13.4	53.4



#4
Chloromethane
Concen: 0.14 ppb
RT: 4.944 min Scan# 107
Delta R.T. -0.011 min
Lab File: AU070519.D
Acq: 5 Jul 2023 8:11 pm

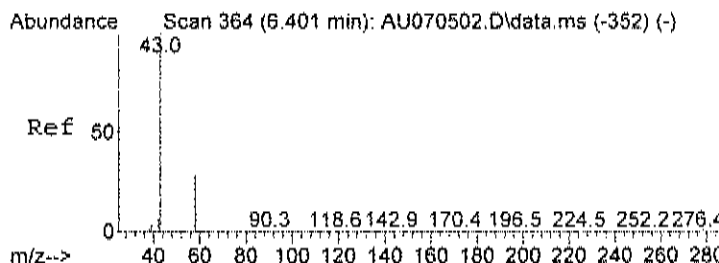
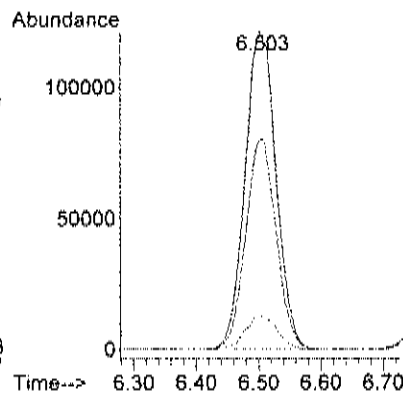
Tgt Ion	50	Resp	11551
Ion Ratio	Lower	Upper	
50	100		
52	31.9	6.9	46.9





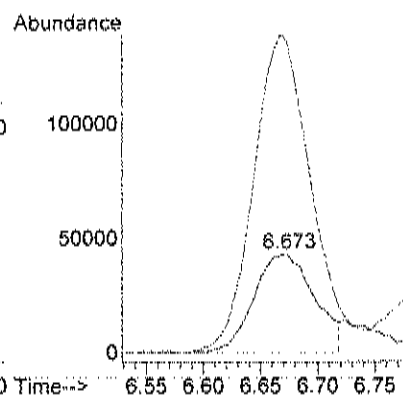
#14
Freon 11
Concen: 1.66 ppb
RT: 6.503 min Scan# 382
Delta R.T. 0.000 min
Lab File: AU070519.D
Acq: 5 Jul 2023 8:11 pm

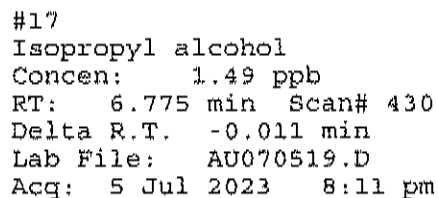
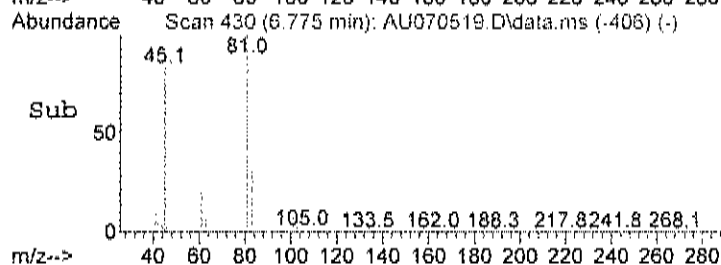
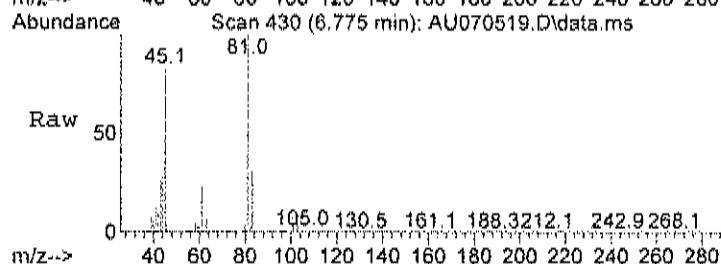
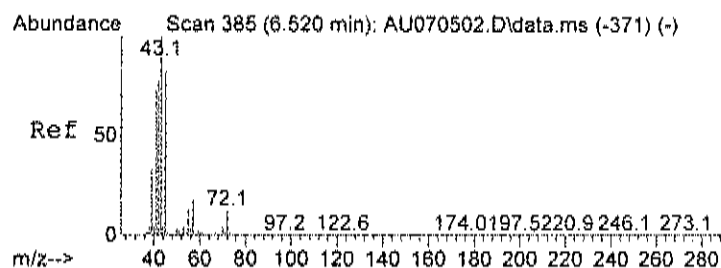
Tgt Ion: 101	Resp: 417682
Ion Ratio	Lower Upper
101 100	
103 65.2	44.0 84.0
105 11.1	0.0 31.4



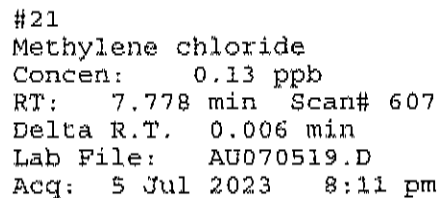
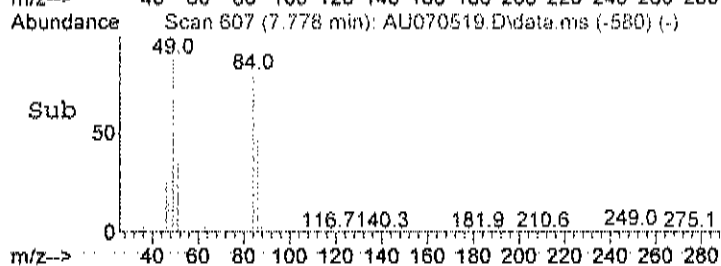
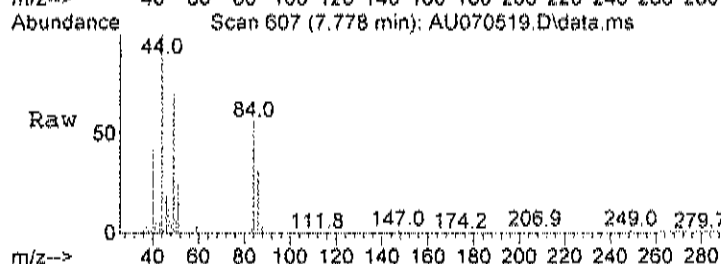
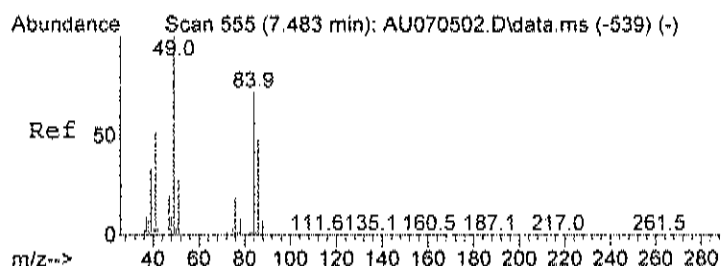
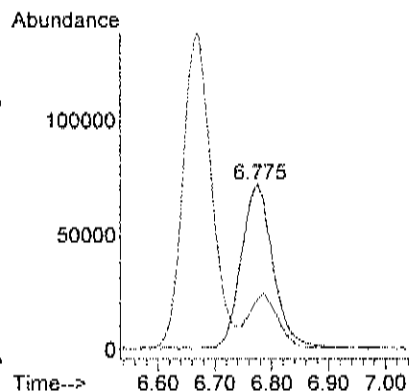
#15
Acetone
Concen: 2.20 ppb m
RT: 6.673 min Scan# 412
Delta R.T. 0.006 min
Lab File: AU070519.D
Acq: 5 Jul 2023 8:11 pm

Tgt Ion: 58	Resp: 158491
Ion Ratio	Lower Upper
58 100	
43 343.6	224.5 284.5#

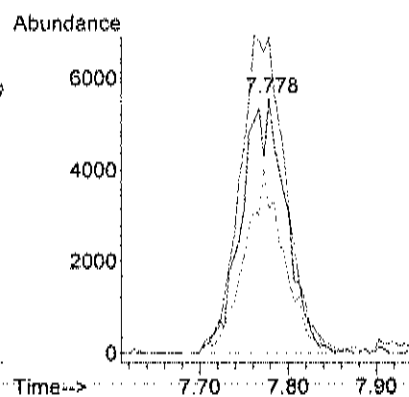


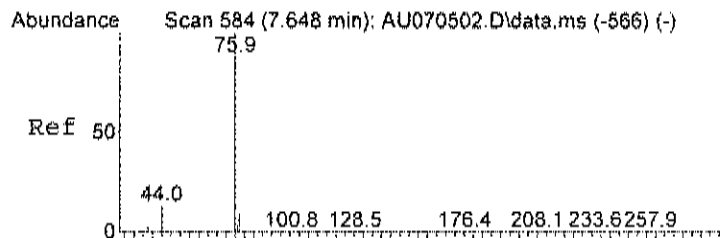


Tgt	Ion: 45	Resp:	278521
Ion	Ratio	Lower	Upper
45	100		
43	0.0	110.3	150.3#



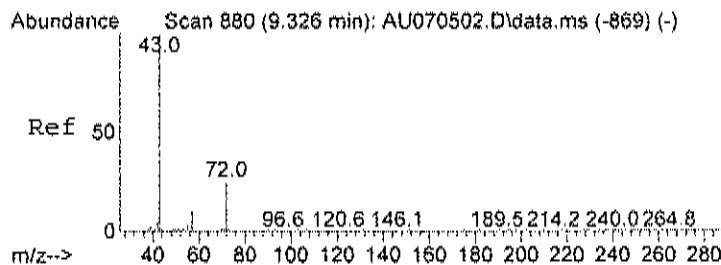
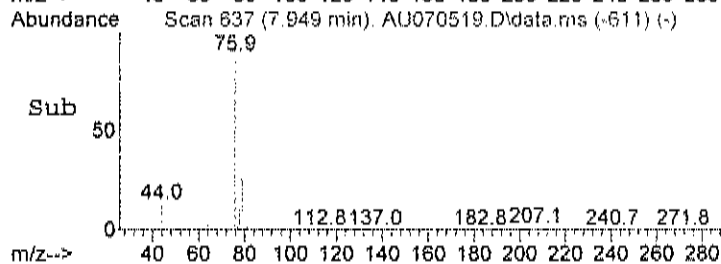
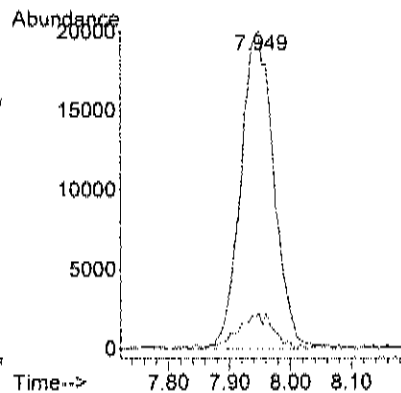
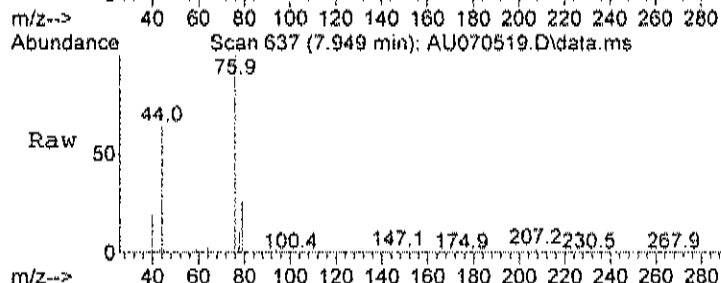
Tgt	Ion: 84	Resp:	19390
Ion	Ratio	Lower	Upper
84	100		
49	129.5	93.0	133.0
86	64.4	43.7	83.7





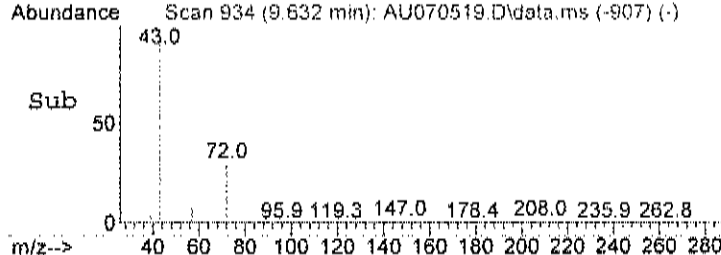
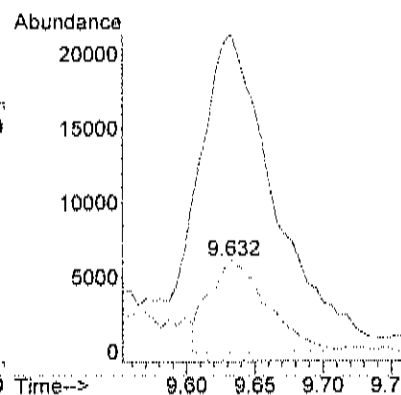
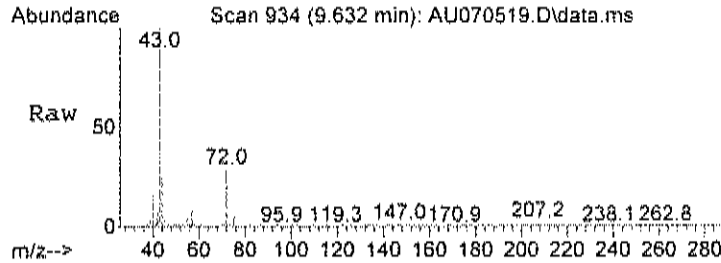
#23
Carbon disulfide
Concen: 0.23 ppb
RT: 7.949 min Scan# 637
Delta R.T. 0.000 min
Lab File: AU070519.D
Acq: 5 Jul 2023 8:11 pm

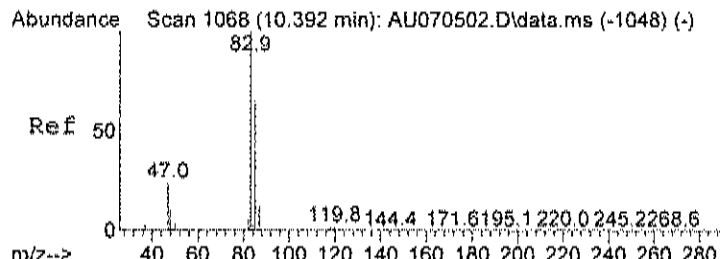
Tgt Ion:	76	Resp:	75385
Ion	Ratio	Lower	Upper
76	100		
78	11.5	0.0	29.3



#28
Methyl Ethyl Ketone
Concen: 0.32 ppb m
RT: 9.632 min Scan# 934
Delta R.T. 0.006 min
Lab File: AU070519.D
Acq: 5 Jul 2023 8:11 pm

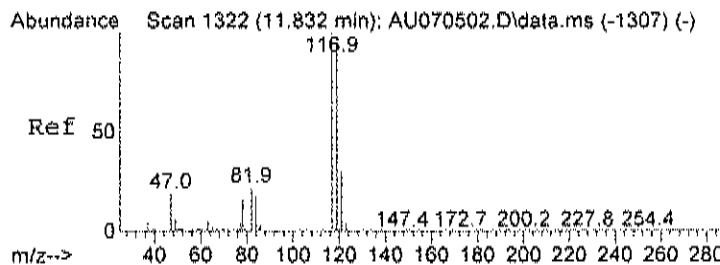
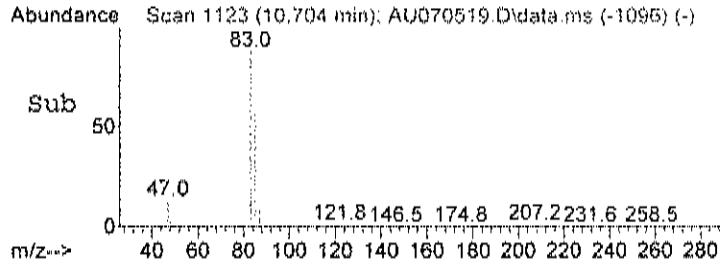
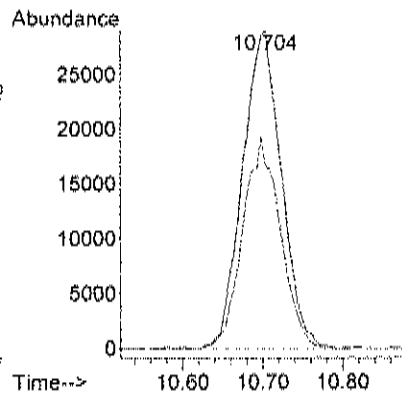
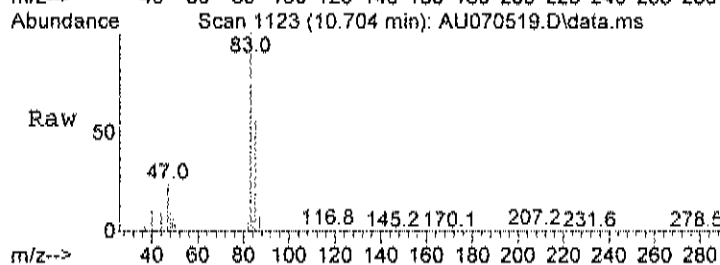
Tgt Ion:	72	Resp:	18267
Ion	Ratio	Lower	Upper
72	100		
43	0.0	389.0	429.0#
72	158.5	80.0	120.0#





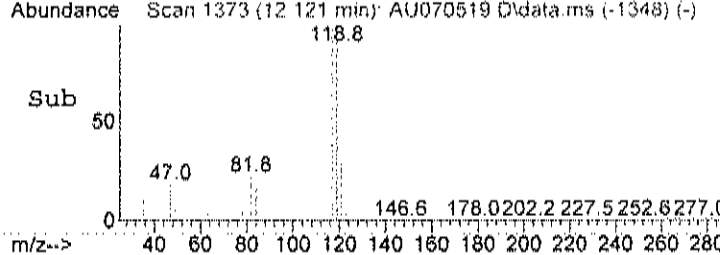
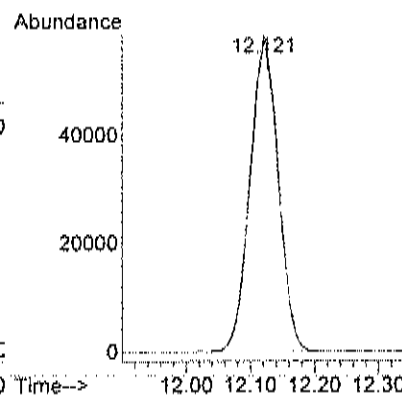
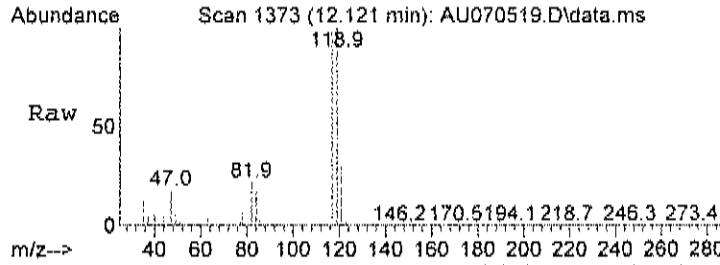
#32
Chloroform
Concen: 0.49 ppb
RT: 10.704 min Scan# 1123
Delta R.T. 0.006 min
Lab File: AU070519.D
Acq: 5 Jul 2023 8:11 pm

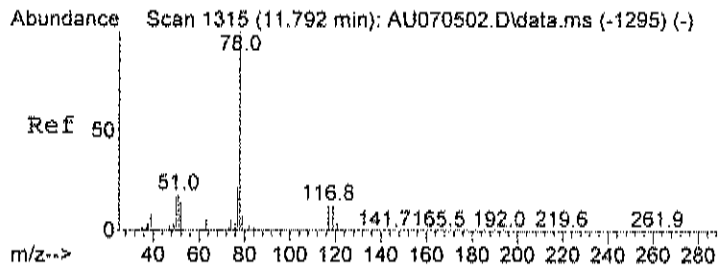
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	44.6	84.6



#38
Carbon tetrachloride
Concen: 1.04 ppb
RT: 12.121 min Scan# 1373
Delta R.T. -0.006 min
Lab File: AU070519.D
Acq: 5 Jul 2023 8:11 pm

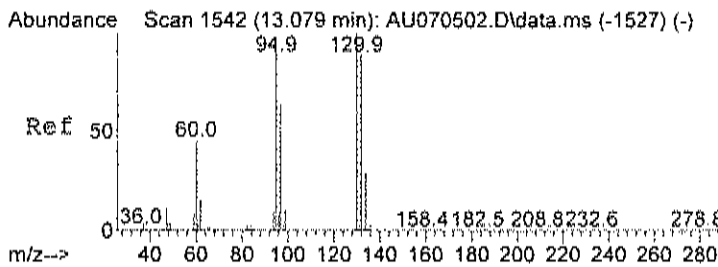
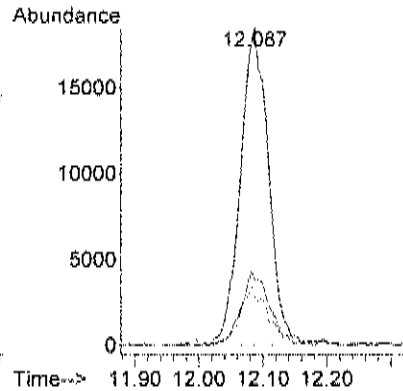
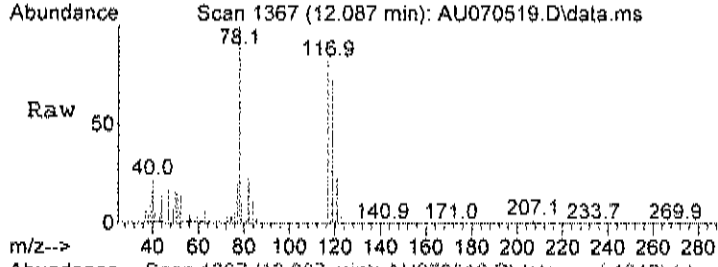
Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.2	76.7	116.7





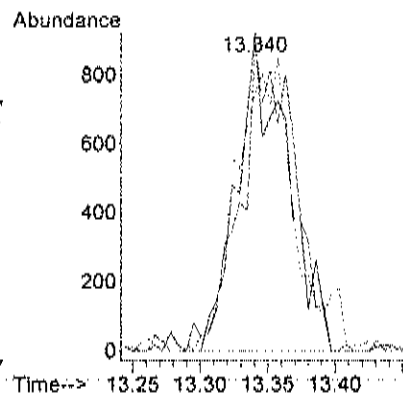
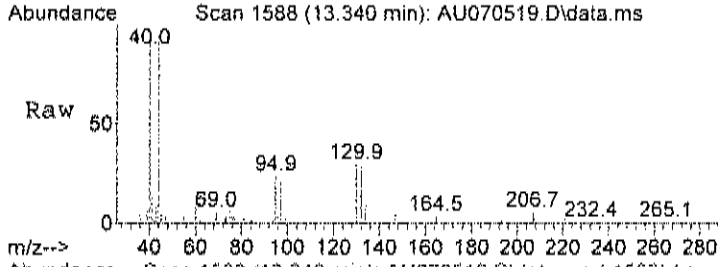
#39
Benzene
Concen: 0.23 ppb
RT: 12.087 min Scan# 1367
Delta R.T. -0.006 min
Lab File: AU070519.D
Acq: 5 Jul 2023 8:11 pm

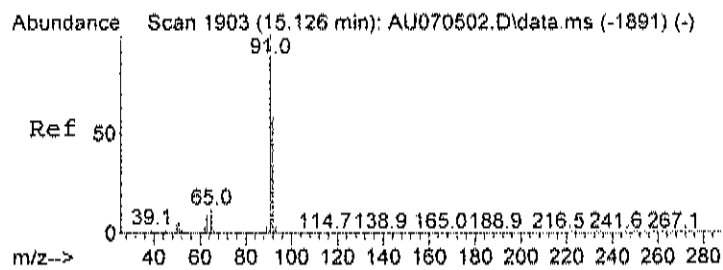
Tgt Ion: 78	Resp: 56704
Ion Ratio	Lower Upper
78 100	
77 23.8	3.8 43.8
51 17.0	0.0 35.4



#44
Trichloroethene
Concen: 0.02 ppb
RT: 13.340 min Scan# 1588
Delta R.T. -0.006 min
Lab File: AU070519.D
Acq: 5 Jul 2023 8:11 pm

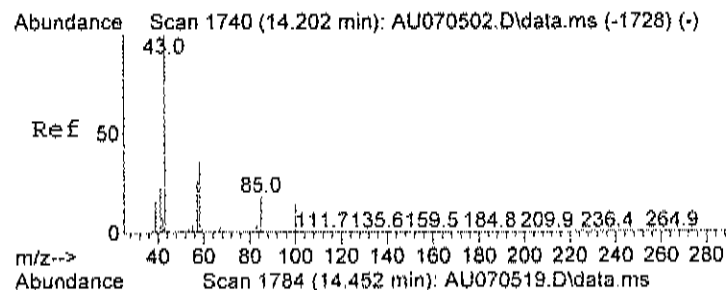
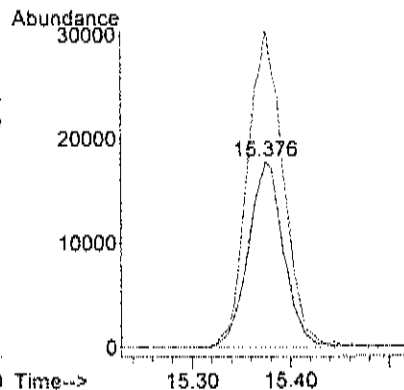
Tgt Ion: 130	Resp: 2369
Ion Ratio	Lower Upper
130 100	
132 103.8	76.3 116.3
95 107.4	72.9 112.9





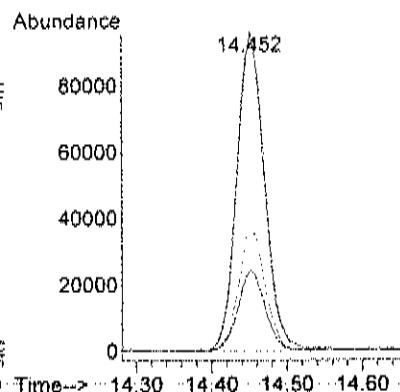
#51
Toluene
Concen: 0.24 ppb
RT: 15.376 min Scan# 1947
Delta R.T. 0.000 min
Lab File: AU070519.D
Acq: 5 Jul 2023 8:11 pm

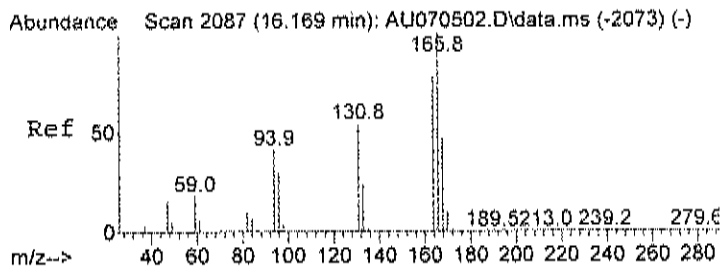
Tgt Ion	92	Resp	44174
Ion Ratio	Lower	Upper	
92	100		
91	174.8	150.4	190.4



#52
Methyl Isobutyl Ketone
Concen: 0.95 ppb
RT: 14.452 min Scan# 1784
Delta R.T. 0.000 min
Lab File: AU070519.D
Acq: 5 Jul 2023 8:11 pm

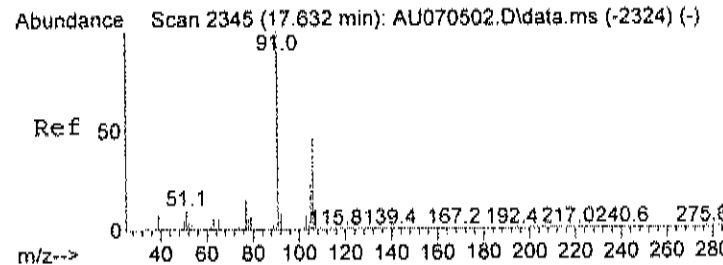
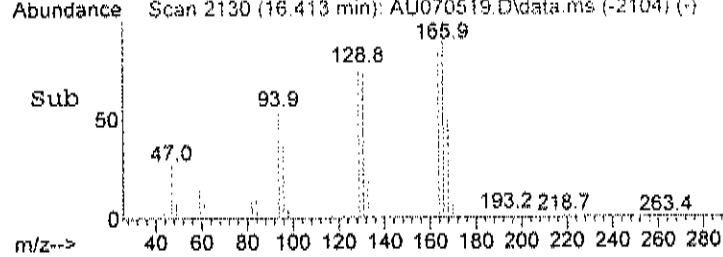
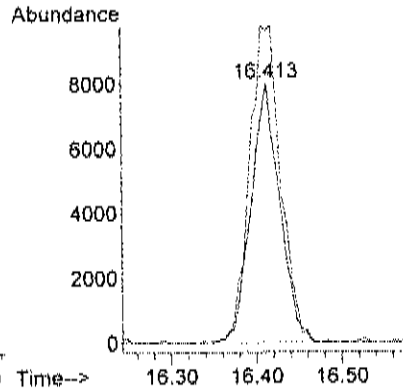
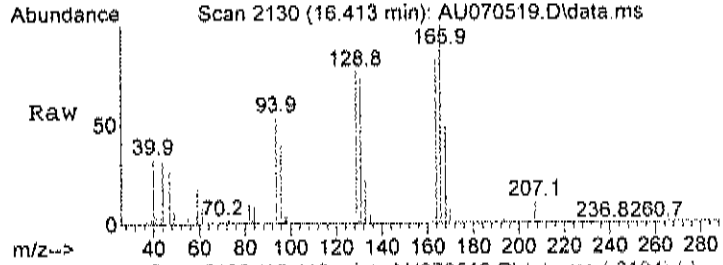
Tgt Ion	43	Resp	246289
Ion Ratio	Lower	Upper	
43	100		
57	24.7	7.9	47.9
58	36.7	24.7	64.7





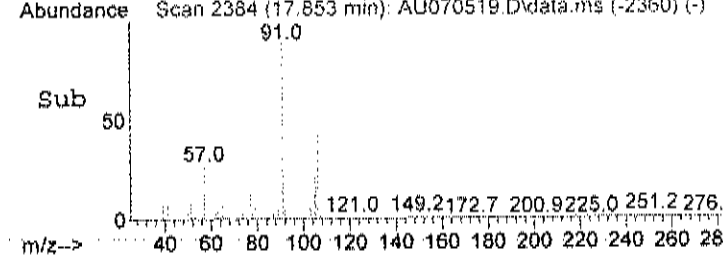
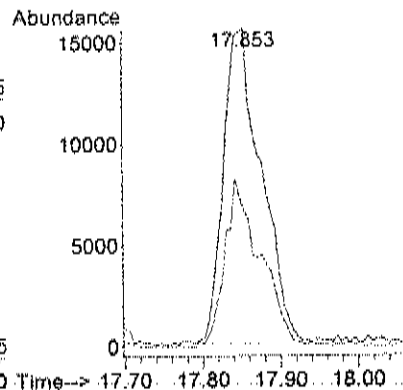
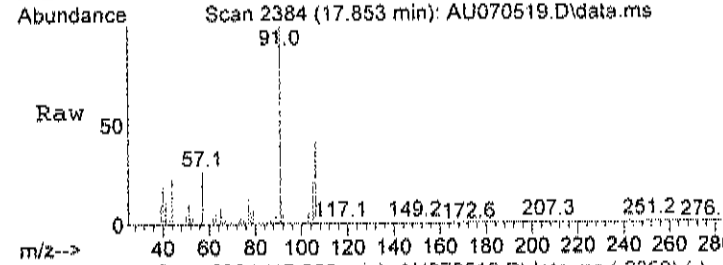
#56
Tetrachloroethylene
Concen: 0.18 ppb
RT: 16.413 min Scan# 2130
Delta R.T. 0.000 min
Lab File: AU070519.D
Acq: 5 Jul 2023 8:11 pm

Tgt Ion: 164 Resp: 18872
Ion Ratio Lower Upper
164 100
166 131.4 107.9 147.9



#59
m&p-xylene
Concen: 0.16 ppb
RT: 17.853 min Scan# 2384
Delta R.T. -0.011 min
Lab File: AU070519.D
Acq: 5 Jul 2023 8:11 pm

Tgt Ion: 91 Resp: 52741
Ion Ratio Lower Upper
91 100
106 49.2 32.1 72.1



Data Path : C:\msdchem\1\data\
Data File : AU070618.D
Acq On : 6 Jul 2023 6:12 pm
Operator : RJP
Sample : C2307002-001A 2X
Misc : A629_1UG
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 06 19:33:07 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

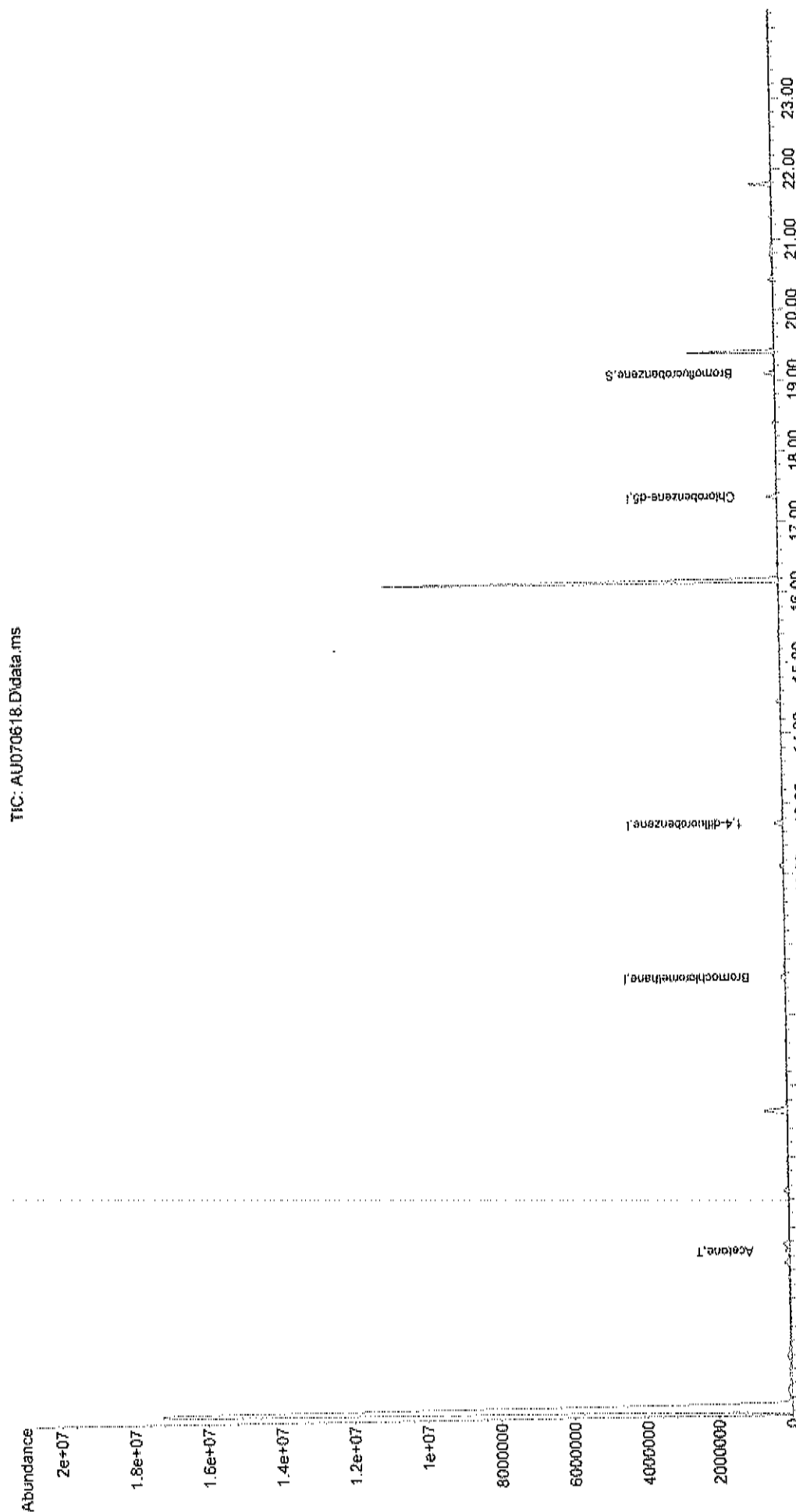
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

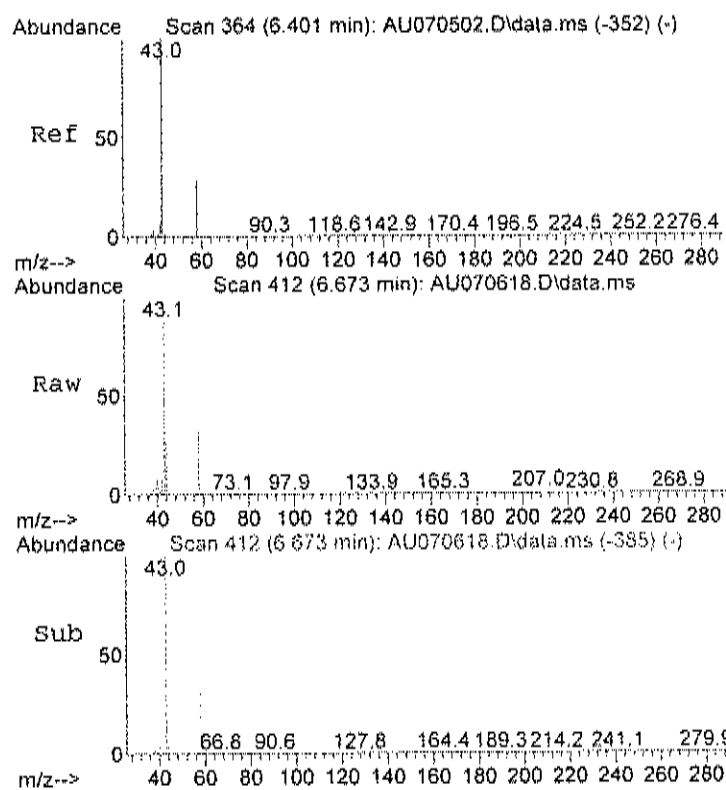
Internal Standards						
1) Bromochloromethane	10.539	128	56652	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	272989	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	227157	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	140588	0.82	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	82.00%
Target Compounds						
15) Acetone	6.673	58	67387m	1.01	ppb	Qvalue

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

Data Path : C:\msdchem\1\data\
 Data File : AU070618.D
 Acq On : 6 Jul 2023 6:12 pm
 Operator : RJP
 Sample : C2307002-001A 2X
 Misc : A629 IUG
 ALS Vial : 14 Sample Multiplier: 1

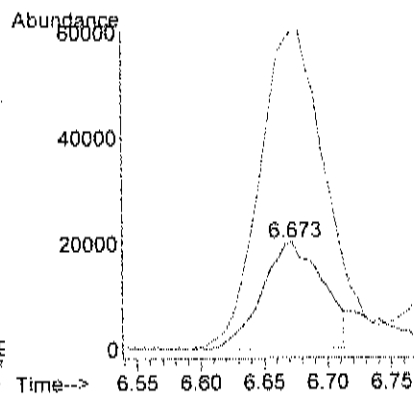
Quant Time: Jul 06 19:33:07 2023
 Quant Method : C:\msdchem\1\methods\A629_IUG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





#15
Acetone
Concen: 1.01 ppb m
RT: 6.673 min Scan# 412
Delta R.T. 0.006 min
Lab File: AU070618.D
Acq: 6 Jul 2023 6:12 pm

Tgt Ion:	58	Resp:	67387
Ion Ratio	Lower	Upper	
58	100		
43	348.9	224.5	284.5#



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-002A

Client Sample ID: SVW-1 Dup
Tag Number: 233,146
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	7/5/2023 8:55:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 8:55:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Acetone	3.8	1.5		ppbV	5	7/6/2023 6:54:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Benzene	0.25	0.15		ppbV	1	7/5/2023 8:55:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Carbon disulfide	0.46	0.15		ppbV	1	7/5/2023 8:55:00 PM
Carbon tetrachloride	1.1	0.15		ppbV	1	7/5/2023 8:55:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Chloroform	0.49	0.15		ppbV	1	7/5/2023 8:55:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-002A

Client Sample ID: SVW-1 Dup
 Tag Number: 233,146
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Ethyl acetate	0.16	0.15		ppbV	1	7/5/2023 8:55:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Freon 11	1.7	0.15		ppbV	1	7/5/2023 8:55:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Freon 12	0.84	0.15		ppbV	1	7/5/2023 8:55:00 PM
Heptane	0.10	0.15	J	ppbV	1	7/5/2023 8:55:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Hexane	0.17	0.15		ppbV	1	7/5/2023 8:55:00 PM
Isopropyl alcohol	3.7	0.75		ppbV	5	7/6/2023 6:54:00 PM
m&p-Xylene	0.49	0.30		ppbV	1	7/5/2023 8:55:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 8:55:00 PM
Methyl Ethyl Ketone	0.40	0.30		ppbV	1	7/5/2023 8:55:00 PM
Methyl Isobutyl Ketone	2.0	1.5		ppbV	5	7/6/2023 6:54:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Methylene chloride	0.19	0.15		ppbV	1	7/5/2023 8:55:00 PM
o-Xylene	0.16	0.15		ppbV	1	7/5/2023 8:55:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Tetrachloroethylene	0.18	0.15		ppbV	1	7/5/2023 8:55:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Toluene	0.36	0.15		ppbV	1	7/5/2023 8:55:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 8:55:00 PM
Surr: Bromofluorobenzene	90.0	70-130		%REC	1	7/5/2023 8:55:00 PM

Qualifiers:

Results reported are not blank corrected

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte, Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 4 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-1 Dup

Lab Order: C2307002

Tag Number: 233,146

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-002A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 8:55:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 8:55:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 8:55:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 8:55:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:55:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 8:55:00 PM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	7/5/2023 8:55:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 8:55:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:55:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 8:55:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 8:55:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 8:55:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 8:55:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:55:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 8:55:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 8:55:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 8:55:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 8:55:00 PM
Acetone	8.9	3.6		ug/m3	5	7/6/2023 6:54:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 8:55:00 PM
Benzene	0.80	0.48		ug/m3	1	7/5/2023 8:55:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 8:55:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 8:55:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 8:55:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 8:55:00 PM
Carbon disulfide	1.4	0.47		ug/m3	1	7/5/2023 8:55:00 PM
Carbon tetrachloride	6.7	0.94		ug/m3	1	7/5/2023 8:55:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 8:55:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 8:55:00 PM
Chloroform	2.4	0.73		ug/m3	1	7/5/2023 8:55:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	7/5/2023 8:55:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:55:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 8:55:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 8:55:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 8:55:00 PM
Ethyl acetate	0.58	0.54		ug/m3	1	7/5/2023 8:55:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 8:55:00 PM
Freon 11	9.6	0.84		ug/m3	1	7/5/2023 8:55:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 8:55:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 8:55:00 PM

Qualifiers:

- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 3 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-002A

Client Sample ID: SVW-1 Dup
 Tag Number: 233.146
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	4.2	0.74		ug/m3	1	7/5/2023 8:55:00 PM
Heptane	0.41	0.61	J	ug/m3	1	7/5/2023 8:55:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 8:55:00 PM
Hexane	0.60	0.53		ug/m3	1	7/5/2023 8:55:00 PM
Isopropyl alcohol	9.1	1.8		ug/m3	5	7/6/2023 6:54:00 PM
m&p-Xylene	2.1	1.3		ug/m3	1	7/5/2023 8:55:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 8:55:00 PM
Methyl Ethyl Ketone	1.2	0.88		ug/m3	1	7/5/2023 8:55:00 PM
Methyl Isobutyl Ketone	8.0	6.1		ug/m3	5	7/6/2023 6:54:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 8:55:00 PM
Methylene chloride	0.66	0.52		ug/m3	1	7/5/2023 8:55:00 PM
o-Xylene	0.69	0.65		ug/m3	1	7/5/2023 8:55:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 8:55:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 8:55:00 PM
Tetrachloroethylene	1.2	1.0		ug/m3	1	7/5/2023 8:55:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 8:55:00 PM
Toluene	1.4	0.57		ug/m3	1	7/5/2023 8:55:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 8:55:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 8:55:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 8:55:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 8:55:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 8:55:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 8:55:00 PM

Qualifiers: . Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 4 of 40

Data Path : C:\msdchem\1\data\
 Data File : AU070520.D
 Acq On : 5 Jul 2023 8:55 pm
 Operator : RJP
 Sample : C2307002-002A
 Misc : A629_1UG
 ALS Vial : 8 Sample Multiplier: 1

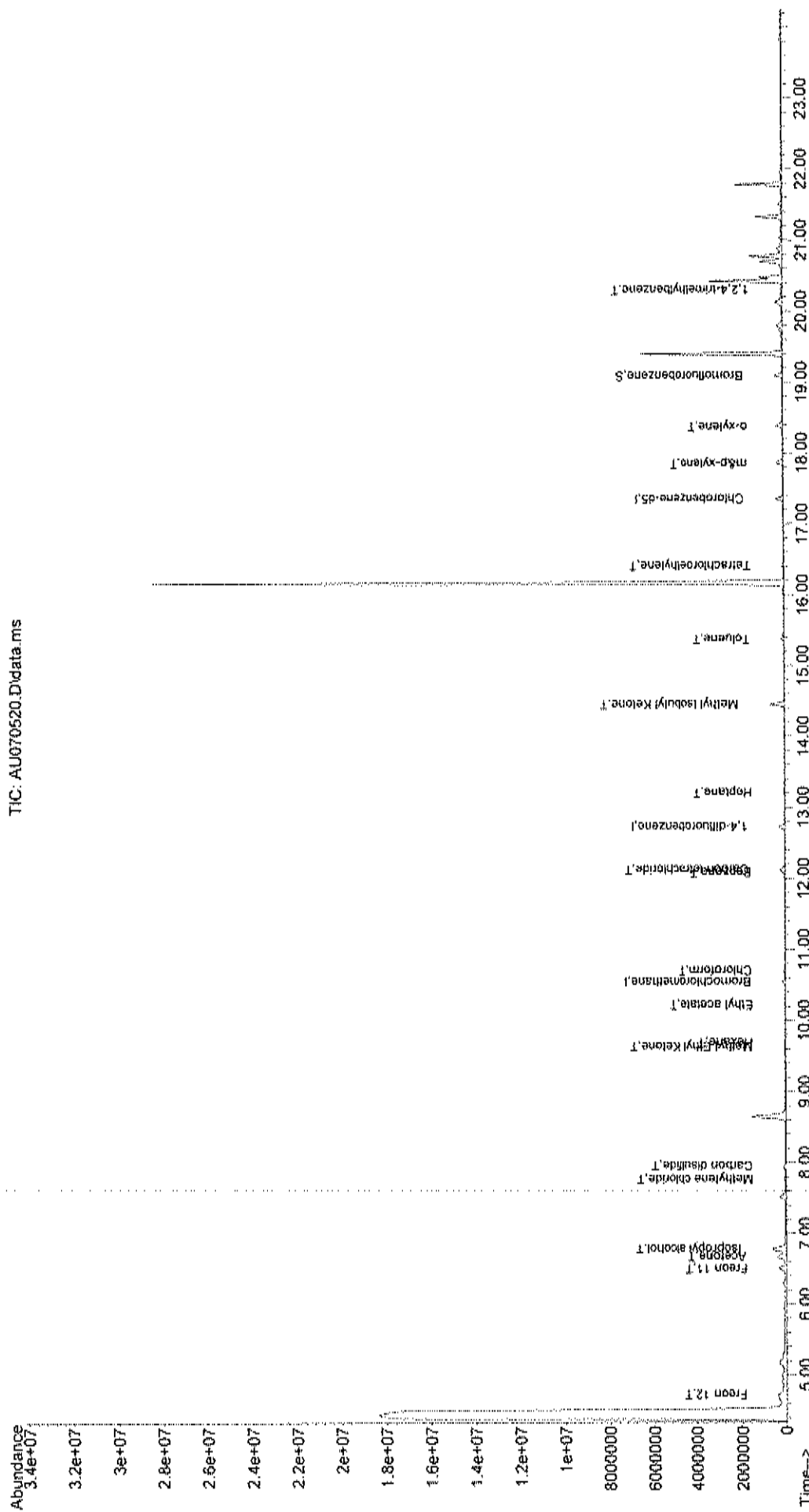
Quant Time: Jul 06 07:55:29 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

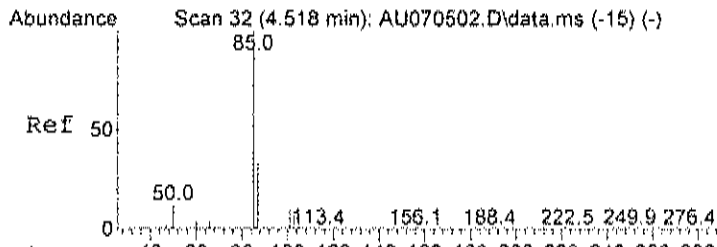
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.545	128	59332	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.728	114	286100	1.00	ppb	0.00
50) Chlorobenzene-d5	17.355	117	264367	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.089	95	179120	0.90	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	90.00%
Target Compounds						
3) Freon 12	4.728	85	206455	0.84	ppb	Qvalue 98
14) Freon 11	6.503	101	419643	1.71	ppb	98
15) Acetone	6.673	58	237453m	3.39	ppb	
17) Isopropyl alcohol	6.781	45	754891	4.16	ppb	# 1
21) Methylene chloride	7.767	84	28820	0.19	ppb	90
23) Carbon disulfide	7.954	76	144645	0.46	ppb	97
28) Methyl Ethyl Ketone	9.638	72	22209m	0.40	ppb	
30) Hexane	9.689	57	29193m	0.17	ppb	
31) Ethyl acetate	10.222	43	38798	0.16	ppb	96
32) Chloroform	10.704	83	96301	0.49	ppb	97
38) Carbon tetrachloride	12.127	117	178773	1.07	ppb	99
39) Benzene	12.087	78	60057	0.25	ppb	94
43) Heptane	13.204	43	16819	0.10	ppb	# 67
51) Toluene	15.376	92	66861	0.36	ppb	96
52) Methyl Isobutyl Ketone	14.452	43	563557	2.16	ppb	92
56) Tetrachloroethylene	16.408	164	19430	0.18	ppb	93
59) m&p-xylene	17.848	91	158021	0.49	ppb	96
63) o-xylene	18.369	91	51470	0.16	ppb	95
71) 1,2,4-trimethylbenzene	20.303	105	38497	0.11	ppb	97

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

Data Path : C:\msdchem\1\data\
 Data File : AU070520.D
 Acq On : 5 Jul 2023 8:55 pm
 Operator : RJP
 Sample : C2307002-002A
 Misc : A629 1UG
 ALS Vial : 8 Sample Multiplier: 1

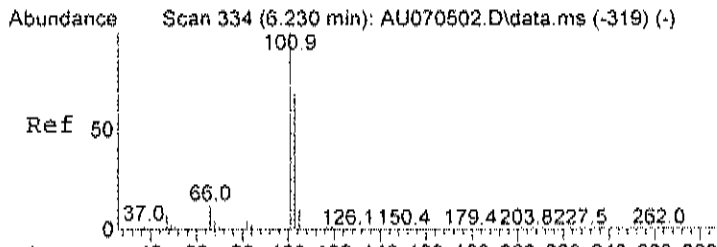
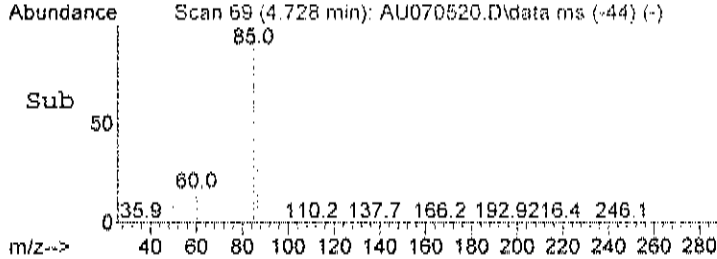
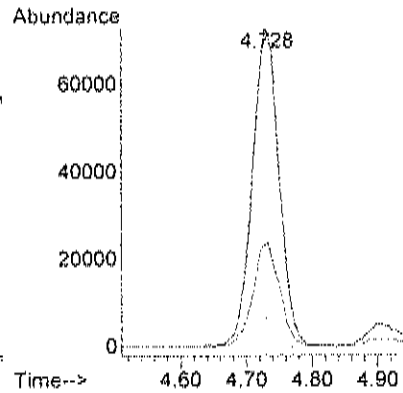
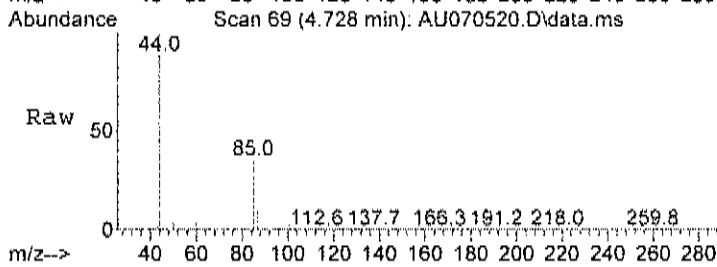
Quant Time: Jul 06 07:55:29 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 Qlast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





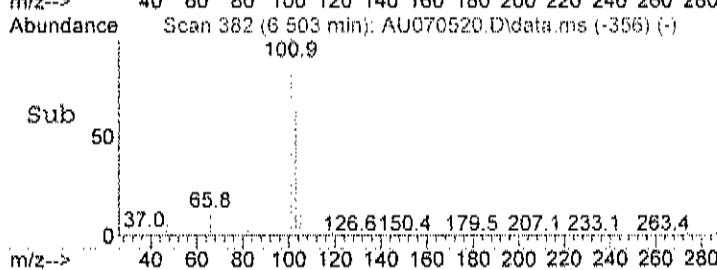
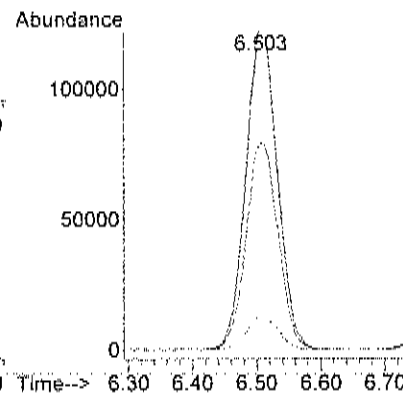
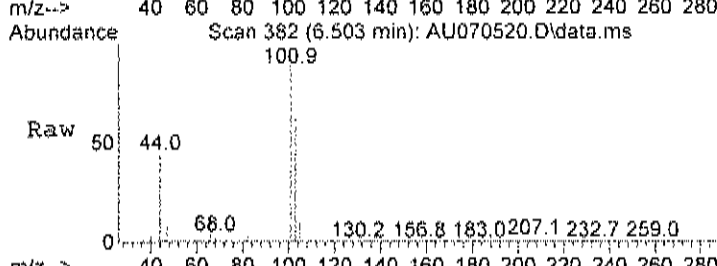
#3
Freon 12
Concen: 0.84 ppb
RT: 4.728 min Scan# 69
Delta R.T. -0.006 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

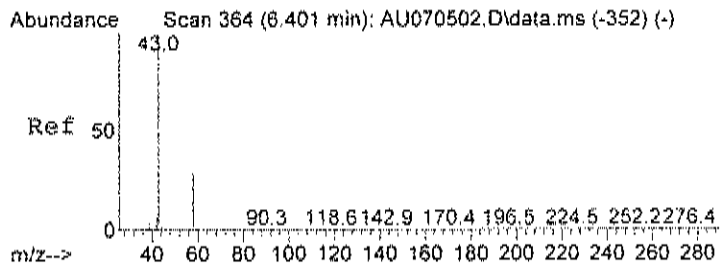
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.4	13.4	53.4



#14
Freon 11
Concen: 1.71 ppb
RT: 6.503 min Scan# 382
Delta R.T. 0.000 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

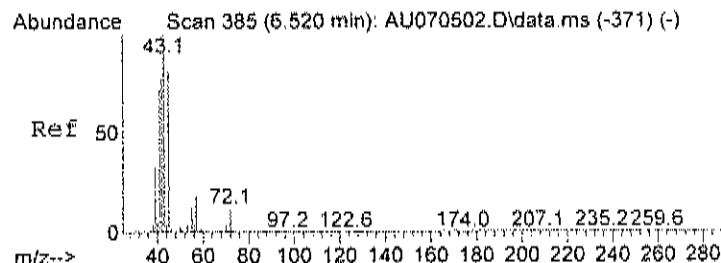
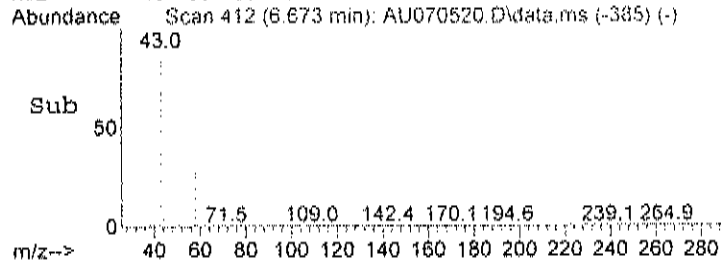
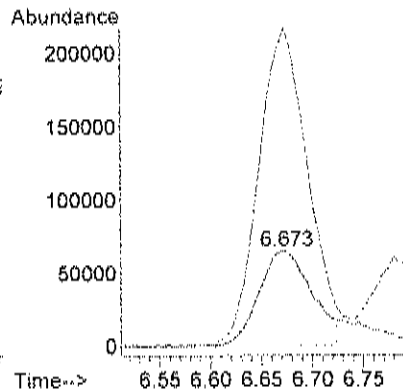
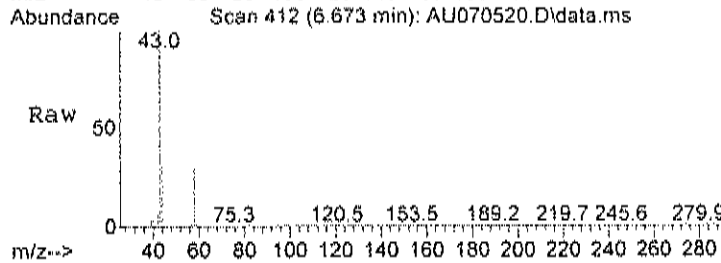
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.8	44.0	84.0
105	10.7	0.0	31.4





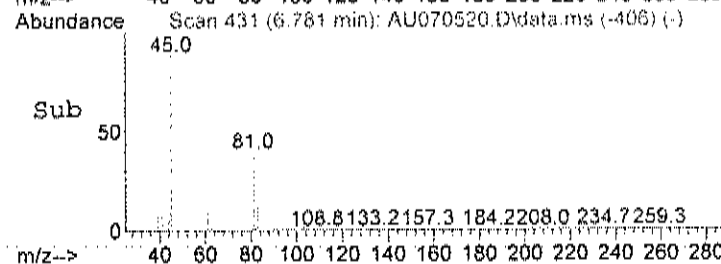
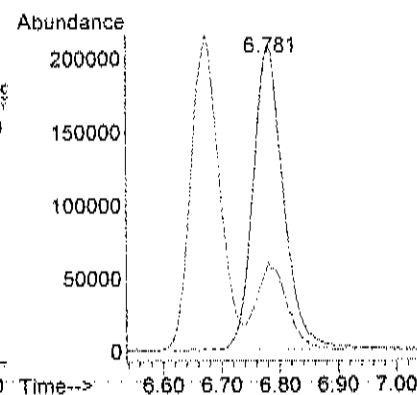
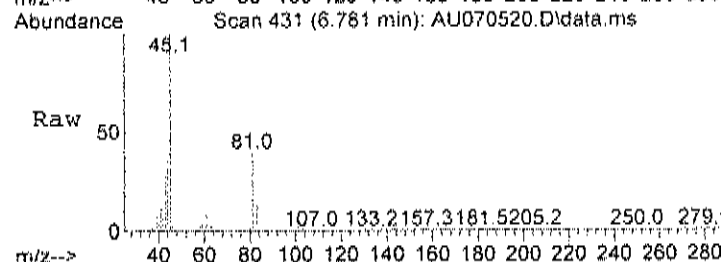
#15
Acetone
Concen: 3.39 ppb m
RT: 6.673 min Scan# 412
Delta R.T. 0.006 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

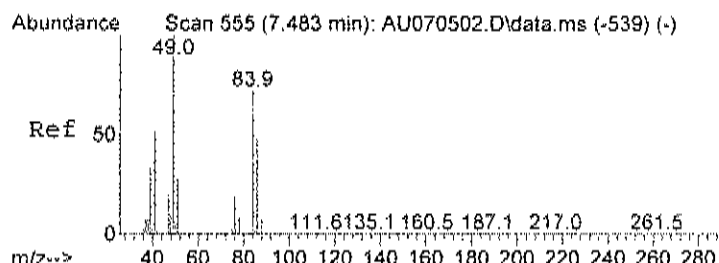
Tgt Ion	58	Resp	237483
Ion	Ratio	Lower	Upper
58	100		
43	376.3	224.5	284.5#



#17
Isopropyl alcohol
Concen: 4.16 ppb
RT: 6.781 min Scan# 431
Delta R.T. -0.006 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

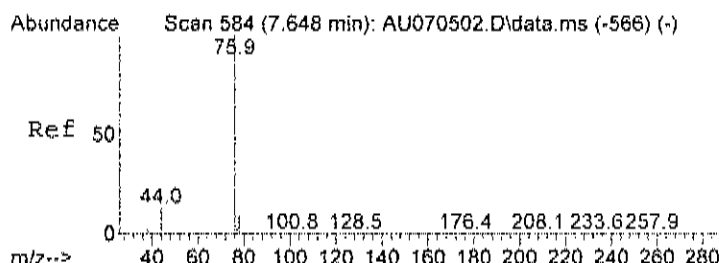
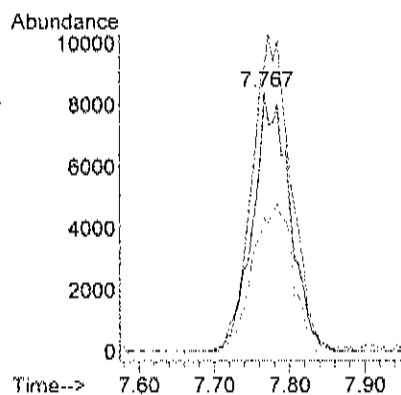
Tgt Ion	45	Resp	754891
Ion	Ratio	Lower	Upper
45	100		
43	0.0	110.3	150.3#





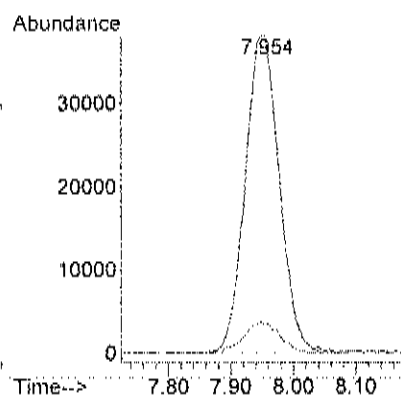
#21
Methylene chloride
Concen: 0.19 ppb
RT: 7.767 min Scan# 605
Delta R.T. -0.006 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

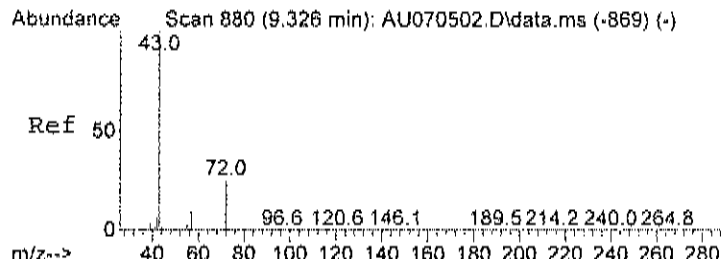
Tgt Ion:	84	Resp:	28820
Ion	Ratio	Lower	Upper
84	100		
49	129.1	93.0	133.0
86	62.7	43.7	83.7



#23
Carbon disulfide
Concen: 0.46 ppb
RT: 7.954 min Scan# 638
Delta R.T. 0.006 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

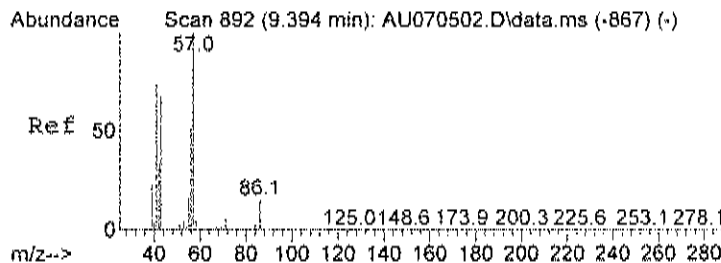
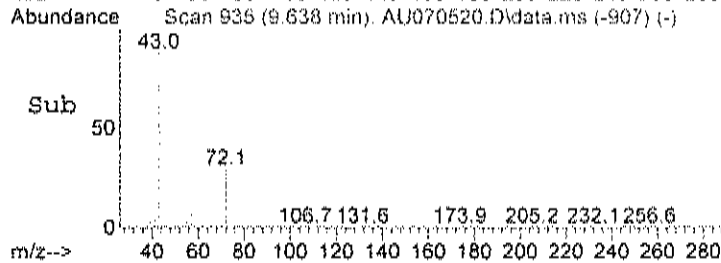
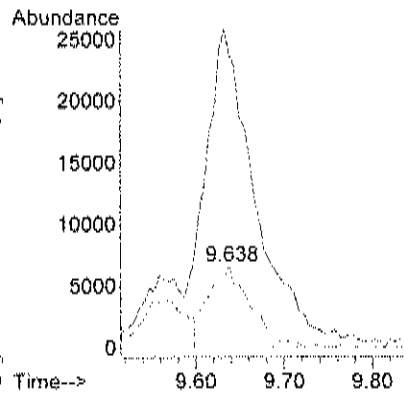
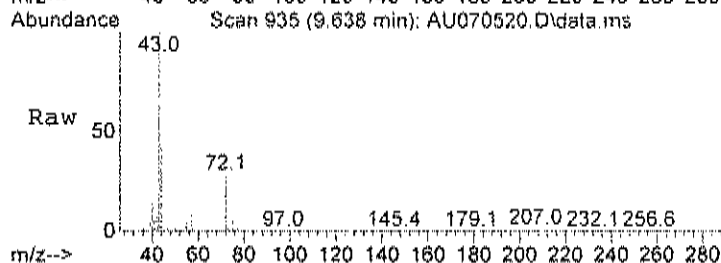
Tgt Ion:	76	Resp:	144645
Ion	Ratio	Lower	Upper
76	100		
78	10.5	0.0	29.3





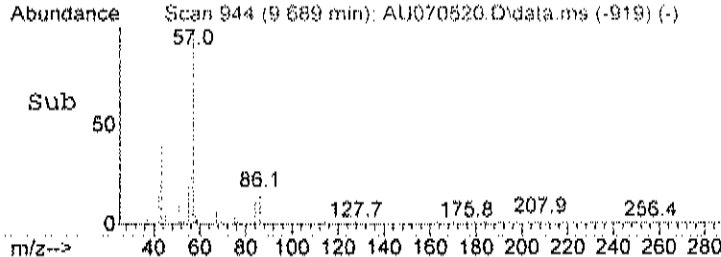
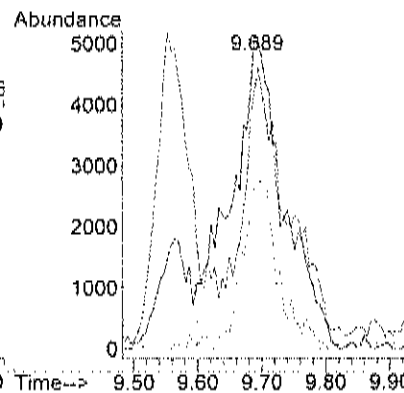
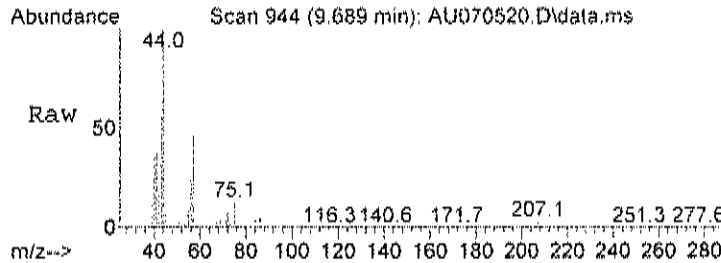
#28
Methyl Ethyl Ketone
Concen: 0.40 ppb m
RT: 9.638 min Scan# 935
Delta R.T. 0.011 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

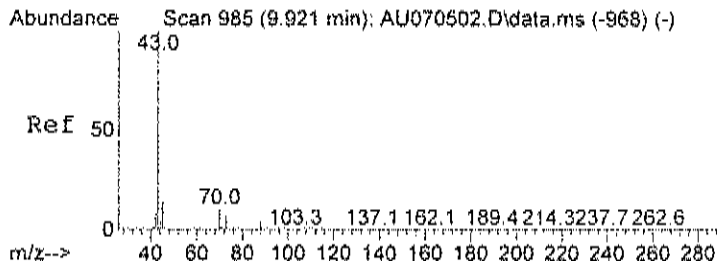
Tgt Ion:	72	Resp:	22209
Ion Ratio	Lower	Upper	
72	100		
43	414.9	389.0	429.0
72	160.5	80.0	120.0#



#30
Hexane
Concen: 0.17 ppb m
RT: 9.689 min Scan# 944
Delta R.T. -0.006 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

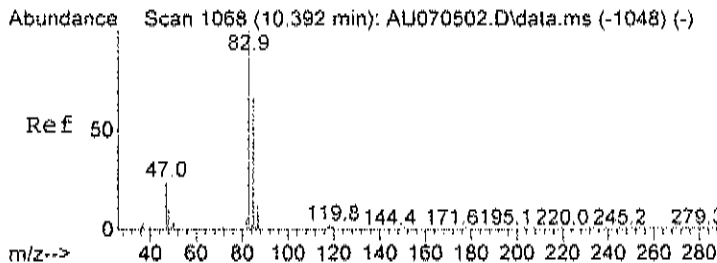
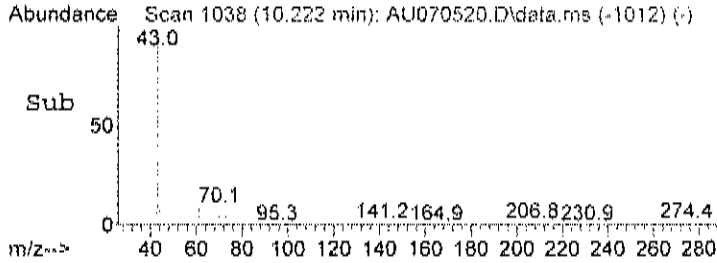
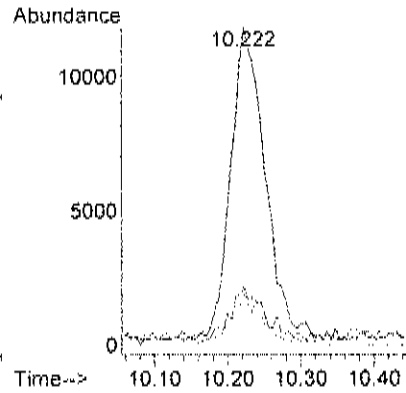
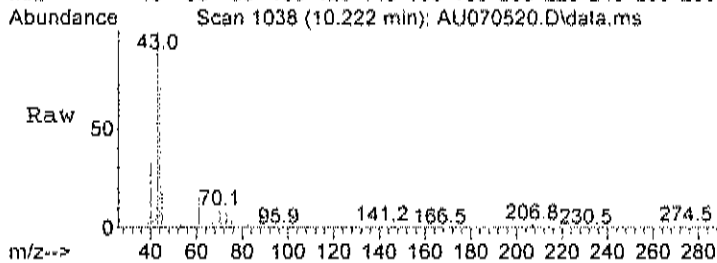
Tgt Ion:	57	Resp:	29193
Ion Ratio	Lower	Upper	
57	100		
41	0.0	37.3	77.3#
56	0.0	24.8	64.8#





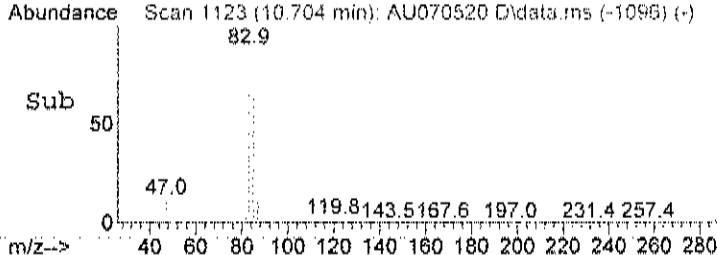
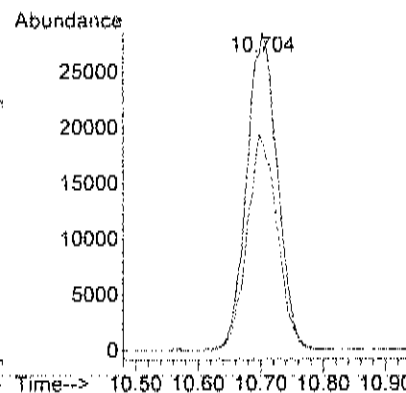
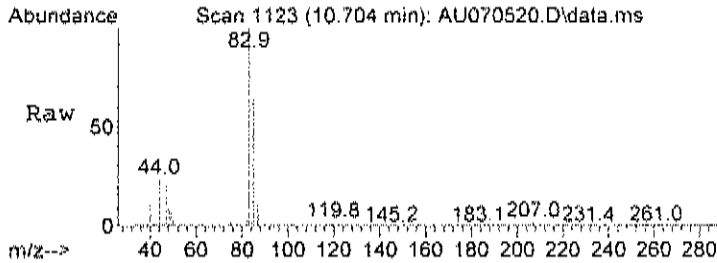
#31
Ethyl acetate
Concen: 0.16 ppb
RT: 10.222 min Scan# 1038
Delta R.T. 0.000 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

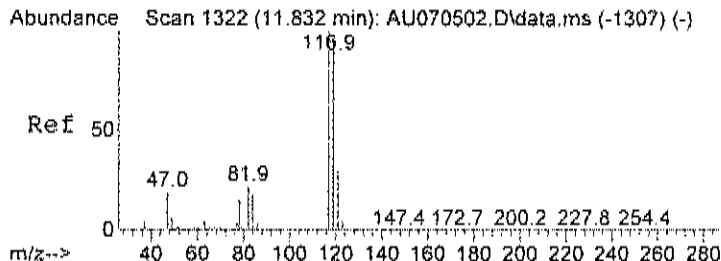
Tgt Ion:	43	Resp:	38798
Ion	Ratio	Lower	Upper
43	100		
45	16.1	0.0	35.3
61	14.4	0.0	37.0



#32
Chloroform
Concen: 0.49 ppb
RT: 10.704 min Scan# 1123
Delta R.T. 0.006 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

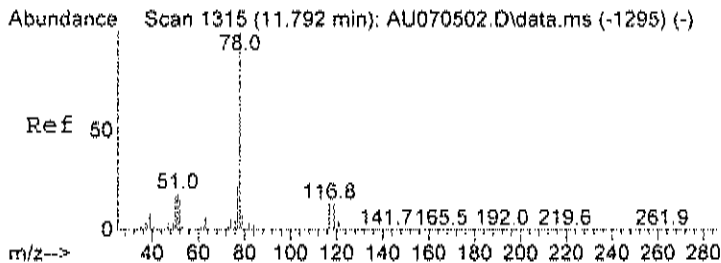
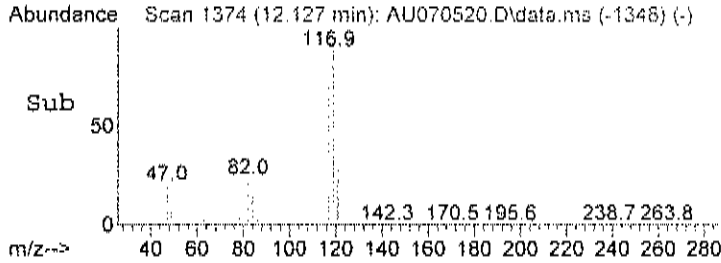
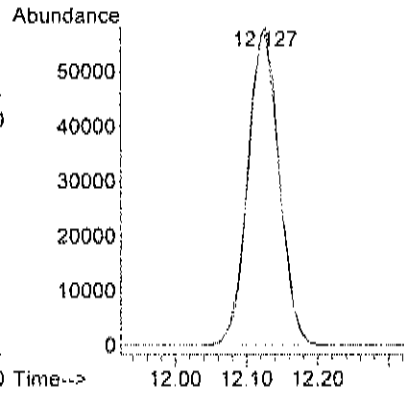
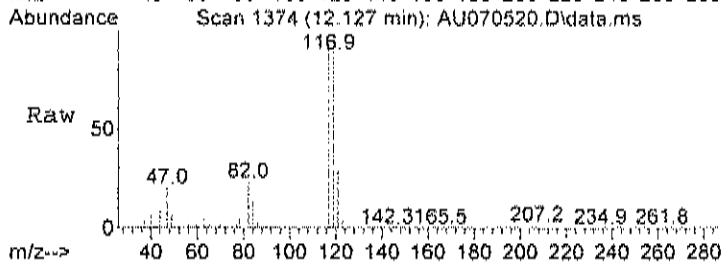
Tgt Ion:	83	Resp:	96301
Ion	Ratio	Lower	Upper
83	100		
85	67.0	44.6	84.6





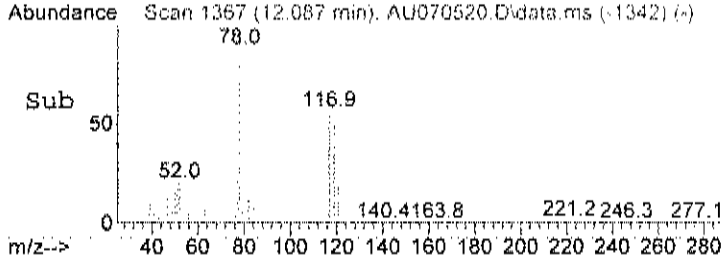
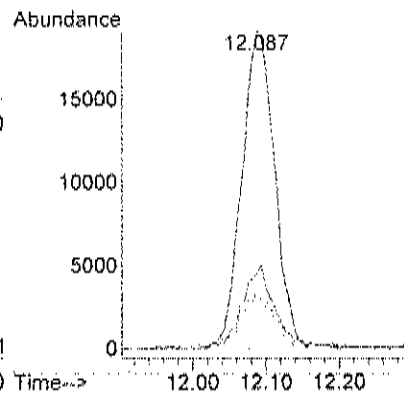
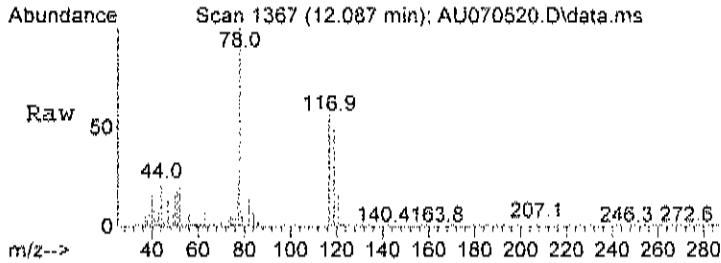
#38
Carbon tetrachloride
Concen: 1.07 ppb
RT: 12.127 min Scan# 1374
Delta R.T. 0.000 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

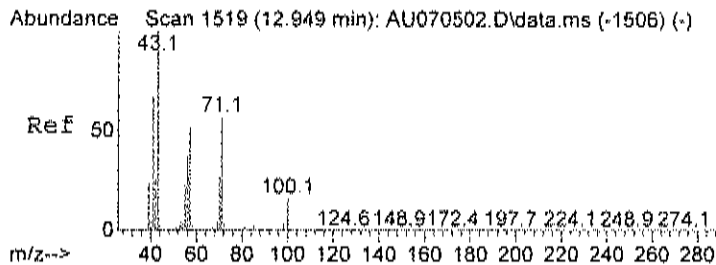
Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.3	76.7	116.7



#39
Benzene
Concen: 0.25 ppb
RT: 12.087 min Scan# 1367
Delta R.T. -0.006 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

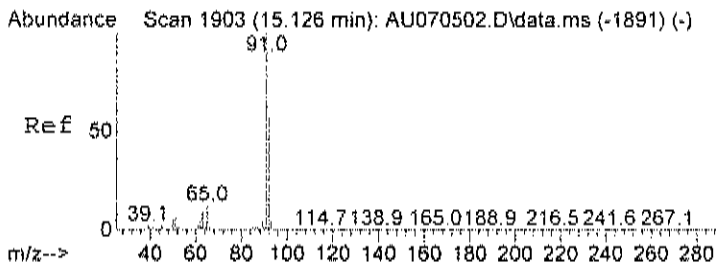
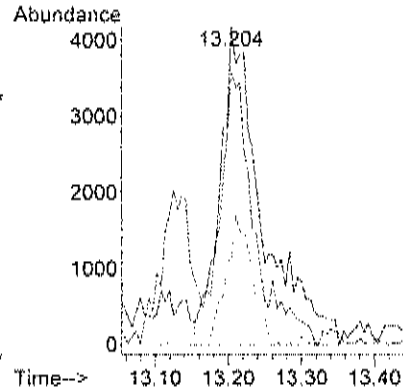
Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.8	3.8	43.8
51	19.5	0.0	35.4





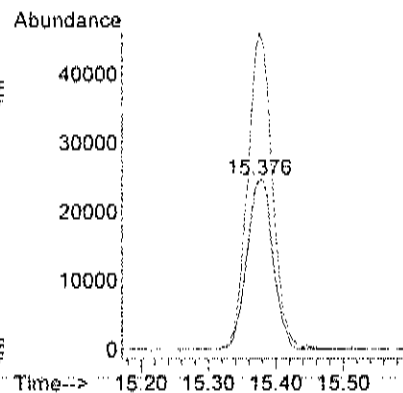
#43
Heptane
Concen: 0.10 ppb
RT: 13.204 min Scan# 1564
Delta R.T. -0.011 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

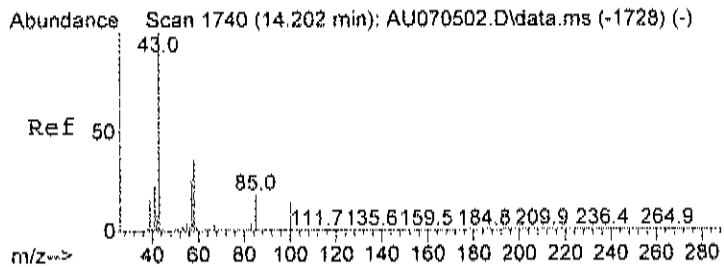
Tgt Ion	Ratio	Lower	Upper
43	100		
57	65.4	40.9	80.9
71	25.0	51.1	91.1#



#51
Toluene
Concen: 0.36 ppb
RT: 15.376 min Scan# 1947
Delta R.T. 0.000 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

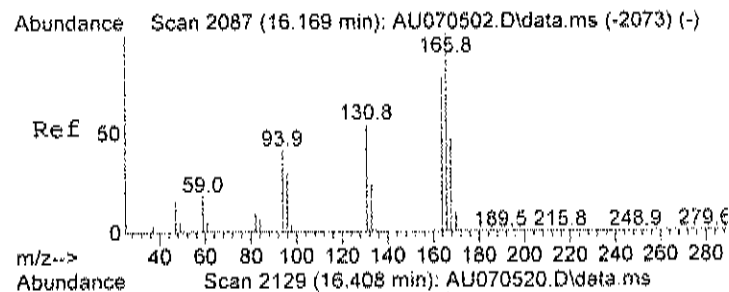
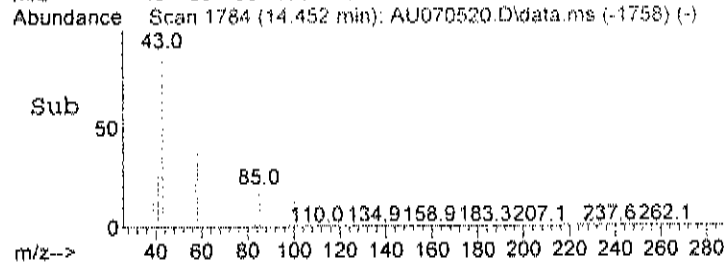
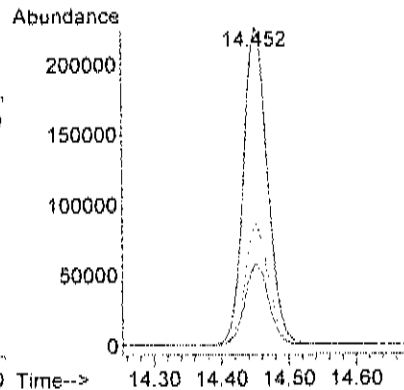
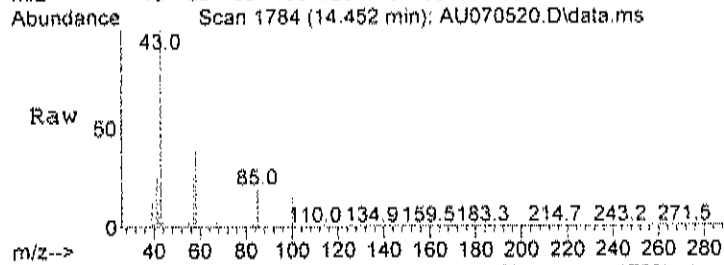
Tgt Ion	Ratio	Lower	Upper
92	100		
91	175.3	150.4	190.4





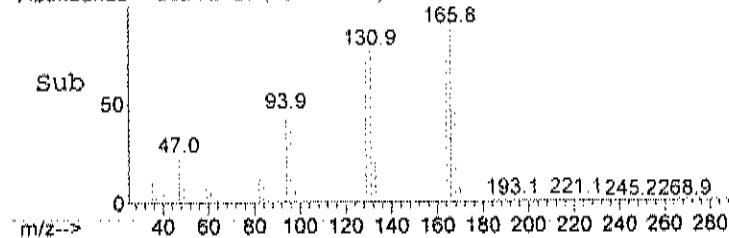
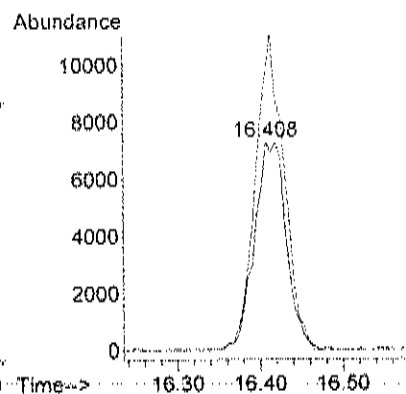
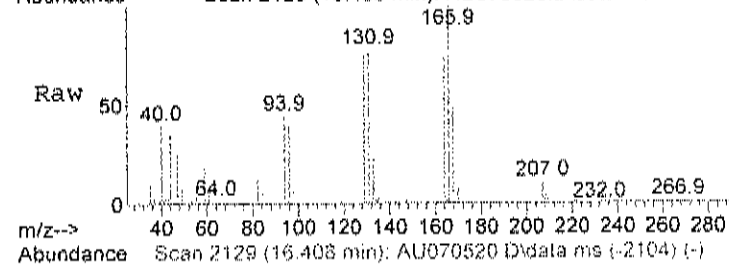
#52
Methyl Isobutyl Ketone
Concen: 2.16 ppb
RT: 14.452 min Scan# 1784
Delta R.T. 0.000 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

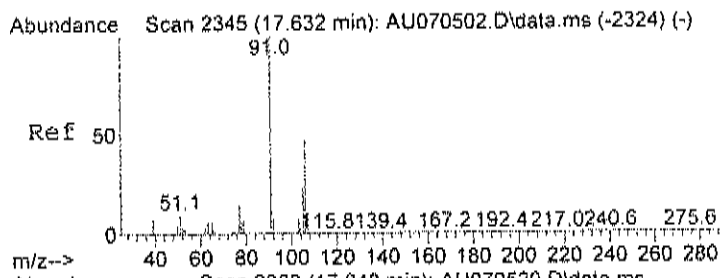
Tgt Ion	Ratio	Lower	Upper
43	100		
57	25.6	7.9	47.9
58	37.7	24.7	64.7



#56
Tetrachloroethylene
Concen: 0.18 ppb
RT: 16.408 min Scan# 2129
Delta R.T. -0.006 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

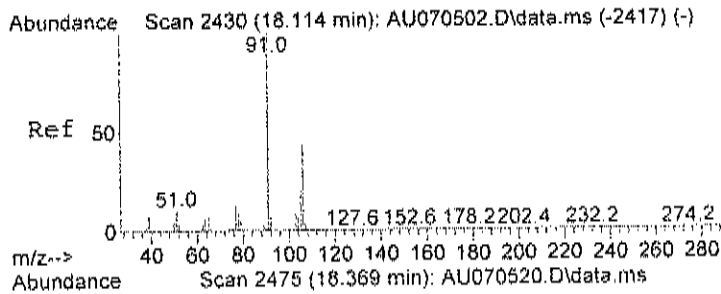
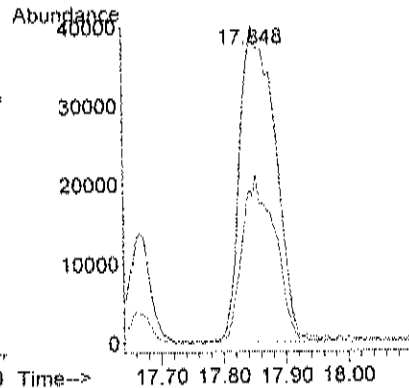
Tgt Ion	Ratio	Lower	Upper
164	100		
166	135.8	107.9	147.9





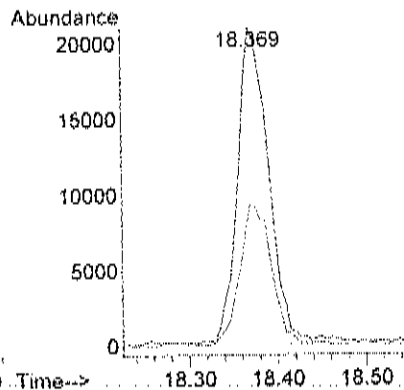
#59
m&p-xylene
Concen: 0.49 ppb
RT: 17.848 min Scan# 2383
Delta R.T. -0.017 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

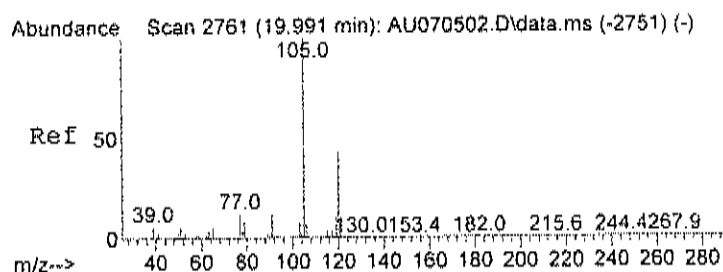
Tgt Ion	91	106	Ratio	100	49.2	Lower	32.1	Upper	72.1
Resp	158021								



#63
o-xylene
Concen: 0.16 ppb
RT: 18.369 min Scan# 2475
Delta R.T. 0.023 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

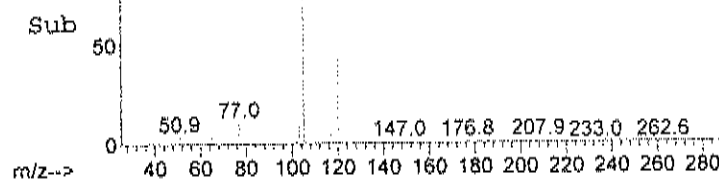
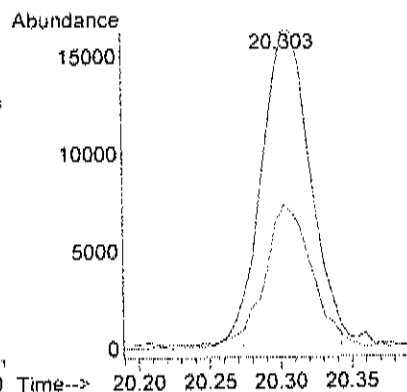
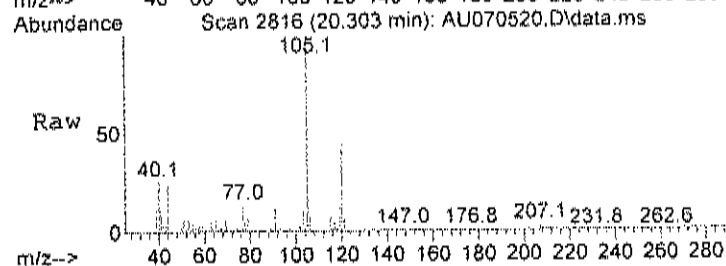
Tgt Ion	91	106	Ratio	100	45.8	Lower	29.0	Upper	69.0
Resp	51470								





#71
1,2,4-trimethylbenzene
Concen: 0.11 ppb
RT: 20.303 min Scan# 2816
Delta R.T. 0.085 min
Lab File: AU070520.D
Acq: 5 Jul 2023 8:55 pm

Tgt Ion: 105 Resp: 38497
Ion Ratio Lower Upper
105 100
120 44.0 25.8 65.8



Data Path : C:\msdchem\1\data\
Data File : AU070619.D
Acq On : 6 Jul 2023 6:54 pm
Operator : RJP
Sample : C2307002-002A 5X
Misc : A629_1UG
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 06 19:33:29 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

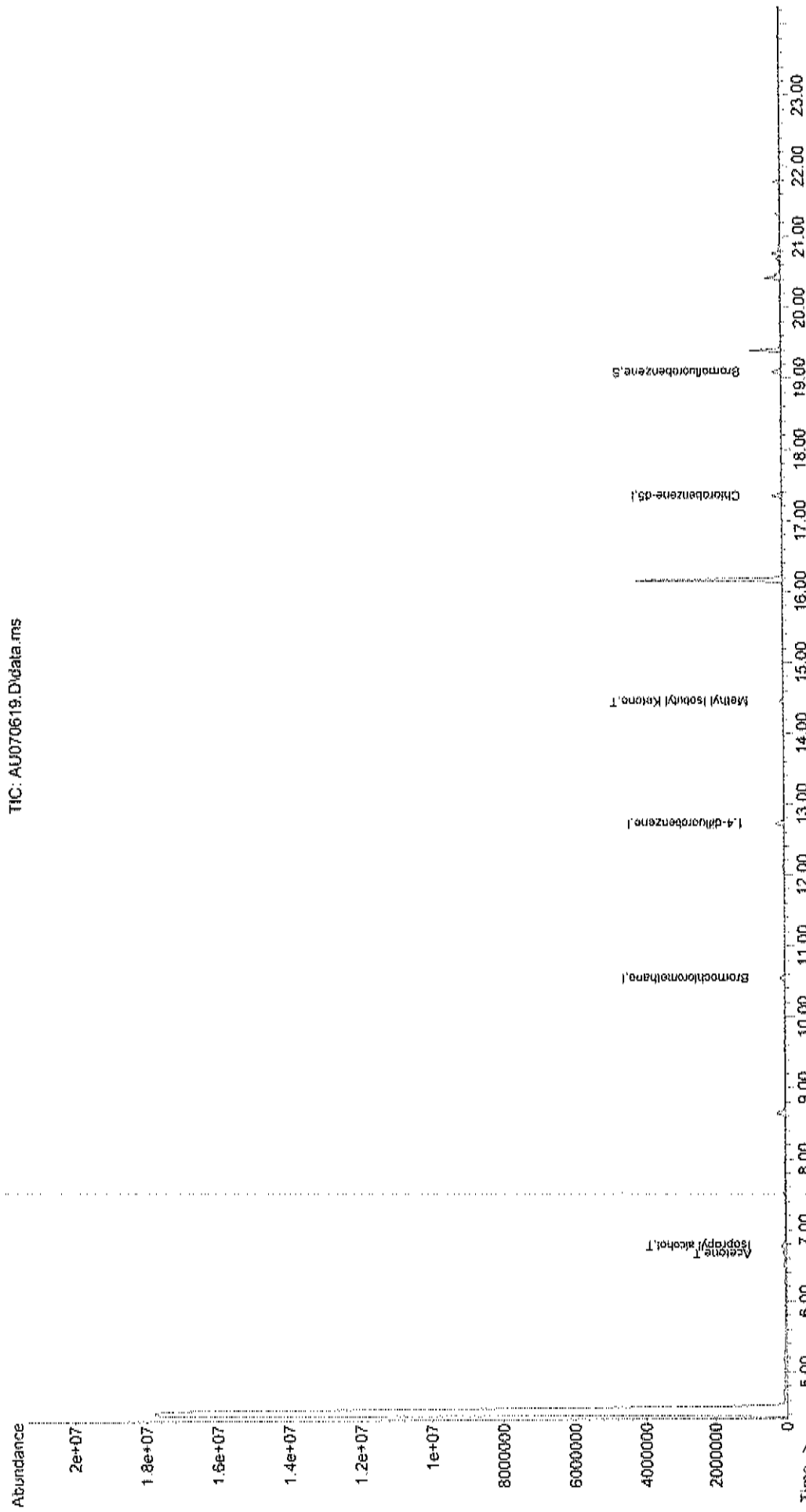
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

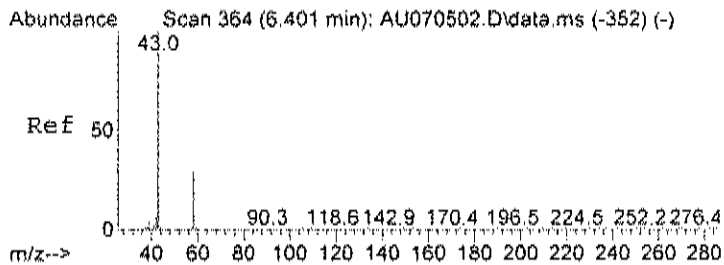
Internal Standards						
1) Bromochloromethane	10.545	128	58960	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.728	114	264562	1.00	ppb	0.00
50) Chlorobenzene-d5	17.355	117	217707	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	129323	0.79	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	79.00%
Target Compounds						Qvalue
15) Acetone	6.673	58	52497	0.75	ppb	# 63
17) Isopropyl alcohol	6.786	45	133356	0.74	ppb	# 1
52) Methyl Isobutyl Ketone	14.457	43	84489	0.39	ppb	90

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

Data Path : C:\msdchem\1\data\
 Data File : AU070619.D
 Acq On : 6 Jul 2023 6:54 pm
 Operator : RJP
 Sample : C2307002-002A 5X
 Misc : A629_1UG
 ALS Vial : 15 Sample Multiplier: 1

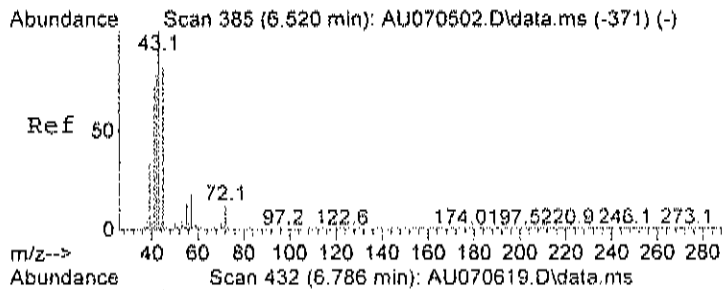
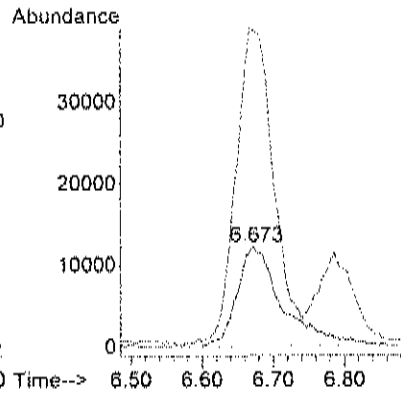
Quant Time: Jul 06 19:33:29 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





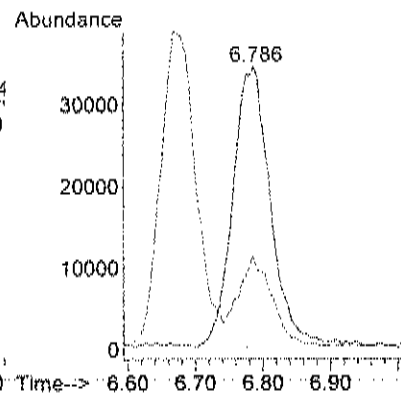
#15
Acetone
Concen: 0.75 ppb
RT: 6.673 min Scan# 412
Delta R.T. 0.006 min
Lab File: AU070619.D
Acq: 6 Jul 2023 6:54 pm

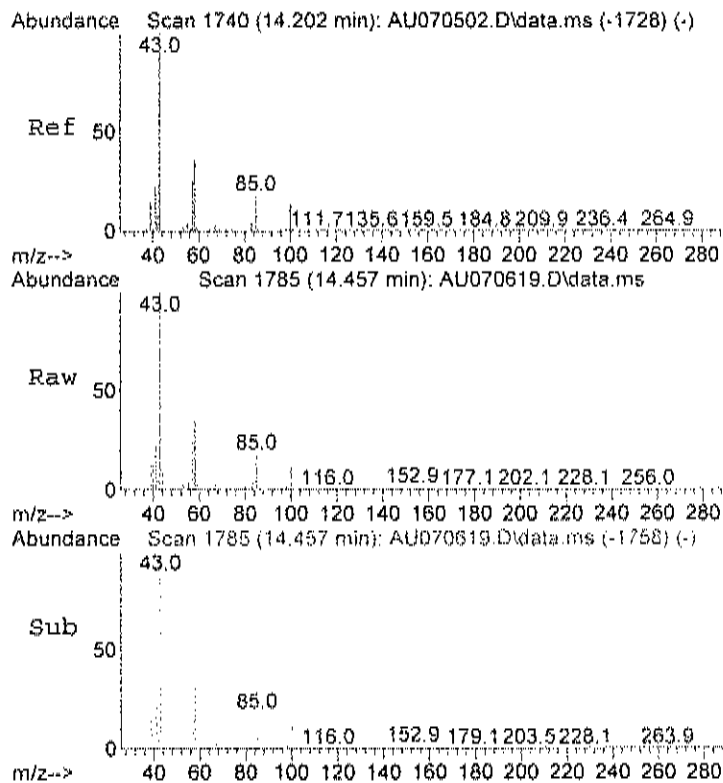
Tgt Ion: 58 Resp: 52497
Ion Ratio Lower Upper
58 100
43 319.7 224.5 284.5#



#17
Isopropyl alcohol
Concen: 0.74 ppb
RT: 6.786 min Scan# 432
Delta R.T. 0.000 min
Lab File: AU070619.D
Acq: 6 Jul 2023 6:54 pm

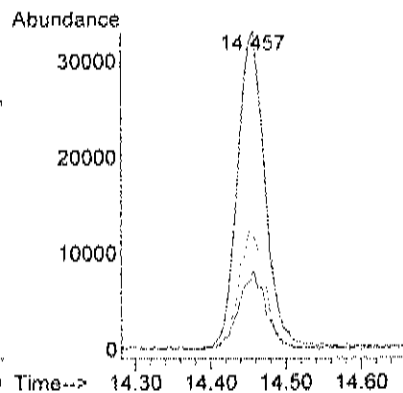
Tgt Ion: 45 Resp: 133356
Ion Ratio Lower Upper
45 100
43 0.0 110.3 150.3#





#52
Methyl Isobutyl Ketone
Concen: 0.39 ppb
RT: 14.457 min Scan# 1785
Delta R.T. 0.006 min
Lab File: AU070619.D
Acq: 6 Jul 2023 6:54 pm

Tgt Ion: 43	Resp: 84489
Ion Ratio	Lower Upper
43 100	
57 24.7	7.9 47.9
58 36.2	24.7 64.7



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-2

Lab Order: C2307002

Tag Number: 102,1152

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-003A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-5			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 9:39:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Acetone	6.4	3.0		ppbV	10	7/6/2023 7:37:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Benzene	0.74	0.15		ppbV	1	7/5/2023 9:39:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Carbon disulfide	0.23	0.15		ppbV	1	7/5/2023 9:39:00 PM
Carbon tetrachloride	0.35	0.15		ppbV	1	7/5/2023 9:39:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Chloroform	0.18	0.15		ppbV	1	7/5/2023 9:39:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Cyclohexane	0.14	0.15	J	ppbV	1	7/5/2023 9:39:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte, Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 5 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-2

Lab Order: C2307002

Tag Number: 102,1152

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-003A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Ethyl acetate	0.24	0.15		ppbV	1	7/5/2023 9:39:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Freon 11	0.59	0.15		ppbV	1	7/5/2023 9:39:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Freon 12	0.62	0.15		ppbV	1	7/5/2023 9:39:00 PM
Heptane	0.12	0.15	J	ppbV	1	7/5/2023 9:39:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Hexane	0.38	0.15		ppbV	1	7/5/2023 9:39:00 PM
Isopropyl alcohol	3.4	1.5		ppbV	10	7/6/2023 7:37:00 PM
m&p-Xylene	0.11	0.30	J	ppbV	1	7/5/2023 9:39:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 9:39:00 PM
Methyl Ethyl Ketone	0.69	0.30		ppbV	1	7/5/2023 9:39:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 9:39:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Methylene chloride	0.23	0.15		ppbV	1	7/5/2023 9:39:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Tetrachloroethylene	0.58	0.15		ppbV	1	7/5/2023 9:39:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Toluene	0.59	0.15		ppbV	1	7/5/2023 9:39:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 9:39:00 PM
Surr: Bromofluorobenzene	86.0	70-130		%REC	1	7/5/2023 9:39:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 6 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-2

Lab Order: C2307002

Tag Number: 102,1152

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-003A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 9:39:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 9:39:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 9:39:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 9:39:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 9:39:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 9:39:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 9:39:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 9:39:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 9:39:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 9:39:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 9:39:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 9:39:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 9:39:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 9:39:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 9:39:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 9:39:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 9:39:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 9:39:00 PM
Acetone	15	7.1		ug/m3	10	7/6/2023 7:37:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 9:39:00 PM
Benzene	2.4	0.48		ug/m3	1	7/5/2023 9:39:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 9:39:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 9:39:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 9:39:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 9:39:00 PM
Carbon disulfide	0.72	0.47		ug/m3	1	7/5/2023 9:39:00 PM
Carbon tetrachloride	2.2	0.94		ug/m3	1	7/5/2023 9:39:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 9:39:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 9:39:00 PM
Chloroform	0.88	0.73		ug/m3	1	7/5/2023 9:39:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	7/5/2023 9:39:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 9:39:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 9:39:00 PM
Cyclohexane	0.48	0.52	J	ug/m3	1	7/5/2023 9:39:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 9:39:00 PM
Ethyl acetate	0.86	0.54		ug/m3	1	7/5/2023 9:39:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 9:39:00 PM
Freon 11	3.3	0.84		ug/m3	1	7/5/2023 9:39:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 9:39:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 9:39:00 PM

Qualifiers:

DL Detection Limit

II Holding times for preparation or analysis exceeded

JN Non-routine analyte, Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 5 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-2

Lab Order: C2307002

Tag Number: 102,1152

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-003A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	3.1	0.74		ug/m3	1	7/5/2023 9:39:00 PM
Heptane	0.49	0.61	J	ug/m3	1	7/5/2023 9:39:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 9:39:00 PM
Hexane	1.3	0.53		ug/m3	1	7/5/2023 9:39:00 PM
Isopropyl alcohol	8.4	3.7		ug/m3	10	7/6/2023 7:37:00 PM
m&p-Xylene	0.48	1.3	J	ug/m3	1	7/5/2023 9:39:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 9:39:00 PM
Methyl Ethyl Ketone	2.0	0.88		ug/m3	1	7/5/2023 9:39:00 PM
Methyl isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 9:39:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 9:39:00 PM
Methylene chloride	0.80	0.52		ug/m3	1	7/5/2023 9:39:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 9:39:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 9:39:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 9:39:00 PM
Tetrachloroethylene	3.9	1.0		ug/m3	1	7/5/2023 9:39:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 9:39:00 PM
Toluene	2.2	0.57		ug/m3	1	7/5/2023 9:39:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 9:39:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 9:39:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 9:39:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 9:39:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 9:39:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 9:39:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 6 of 40

Data Path : C:\msdchem\1\data\
 Data File : AU070521.D
 Acq On : 5 Jul 2023 9:39 pm
 Operator : RJP
 Sample : C2307002-003A
 Misc : A629_1UG
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 06 07:55:31 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	10.545	128	60094	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.728	114	292922	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	268177	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.089	95	173403	0.86	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	86.00%
Target Compounds						
						Qvalue
3) Freon 12	4.728	85	153491	0.62	ppb	99
14) Freon 11	6.503	101	147239	0.59	ppb	98
15) Acetone	6.667	58	486135m	6.85	ppb	
17) Isopropyl alcohol	6.780	45	711369	3.87	ppb	# 1
21) Methylene chloride	7.784	84	35308	0.23	ppb	89
23) Carbon disulfide	7.954	76	72804	0.23	ppb	92
28) Methyl Ethyl Ketone	9.627	72	39078m	0.69	ppb	
30) Hexane	9.695	57	68240m	0.38	ppb	
31) Ethyl acetate	10.222	43	60413	0.24	ppb	95
32) Chloroform	10.698	83	36182	0.18	ppb	97
37) Cyclohexane	12.184	56	19346m	0.14	ppb	
38) Carbon tetrachloride	12.127	117	60595	0.35	ppb	99
39) Benzene	12.087	78	183899	0.74	ppb	97
43) Heptane	13.216	43	20584m	0.12	ppb	
44) Trichloroethene	13.346	130	6153	0.06	ppb	87
51) Toluene	15.376	92	110739	0.59	ppb	95
56) Tetrachloroethylene	16.413	164	62386	0.58	ppb	99
59) m&p-xylene	17.842	91	37083	0.11	ppb	89

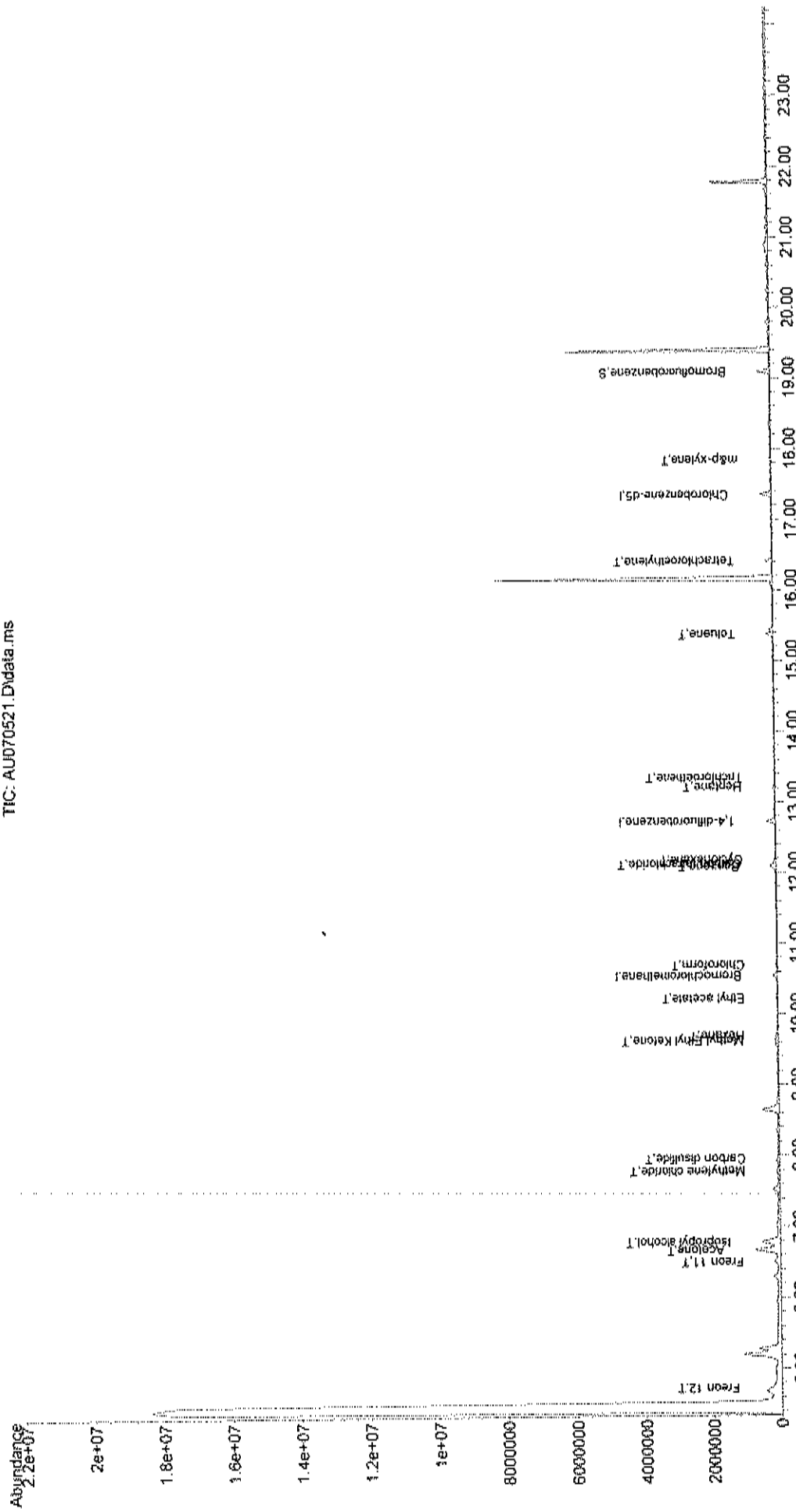
(#) = qualifier out of range (m) = manual integration (+) = signals summed

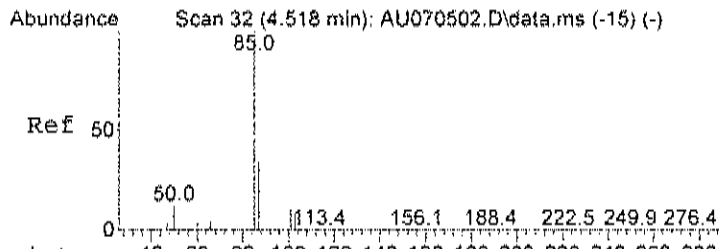
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : AU070521.D
 Acq On : 5 Jul 2023 9:39 pm
 Operator : RJP
 Sample : C2307002-003A
 Misc : A629_IUG
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 06 07:55:31 2023
 Quant Method : C:\msdchem\1\methods\A629_IUG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 Qlast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

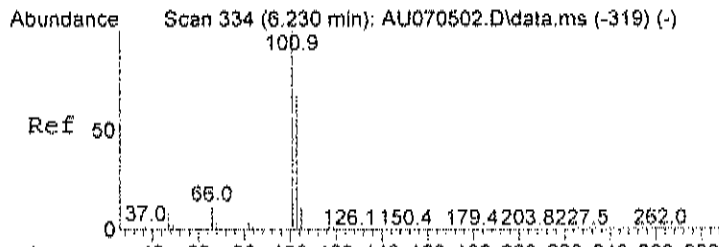
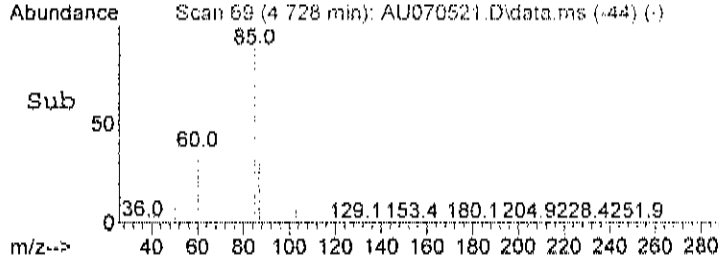
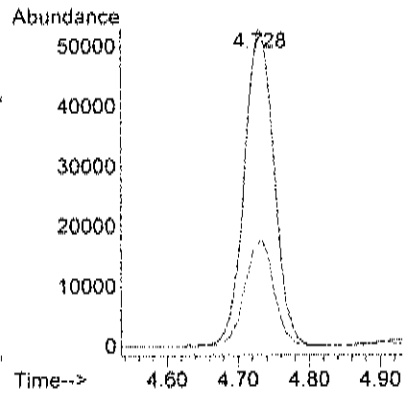
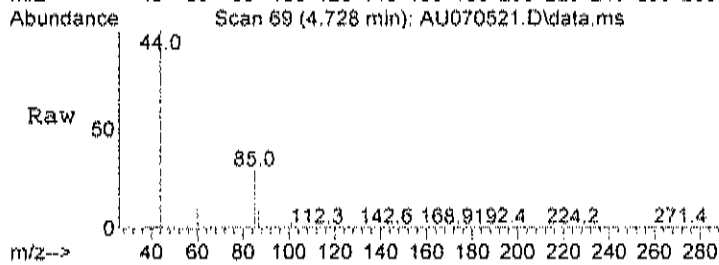
TIC: AU070521.D\data.ms





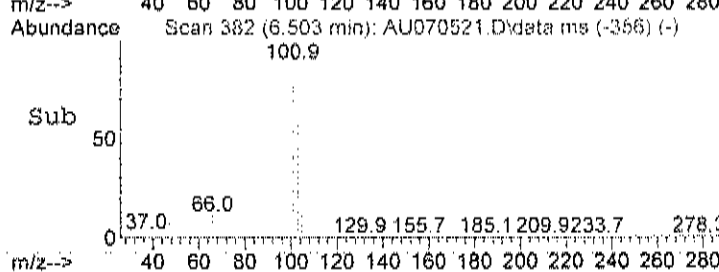
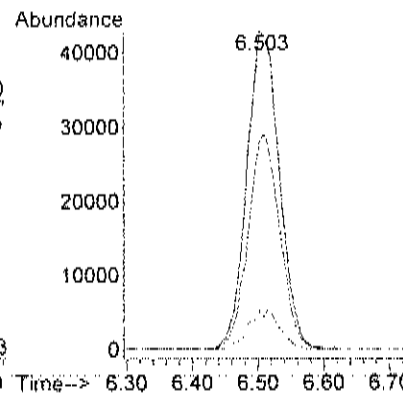
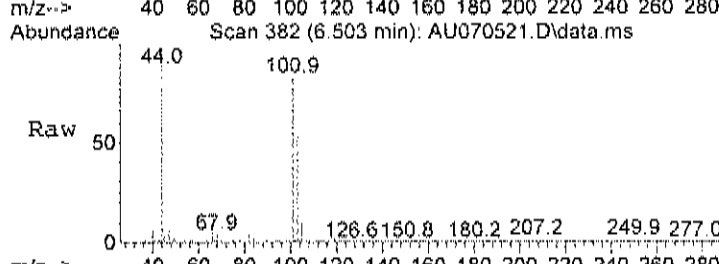
#3
 Freon 12
 Concen: 0.62 ppb
 RT: 4.728 min Scan# 69
 Delta R.T. -0.006 min
 Lab File: AU070521.D
 Acq: 5 Jul 2023 9:39 pm

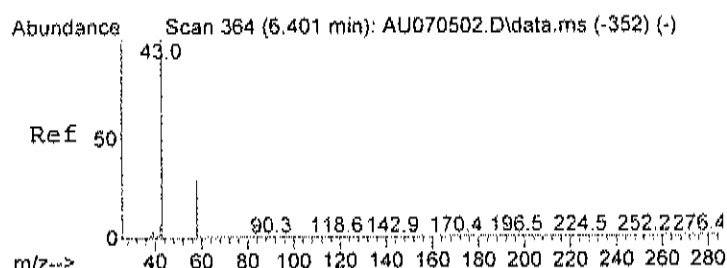
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.9	13.4	53.4



#14
 Freon 11
 Concen: 0.59 ppb
 RT: 6.503 min Scan# 382
 Delta R.T. -0.000 min
 Lab File: AU070521.D
 Acq: 5 Jul 2023 9:39 pm

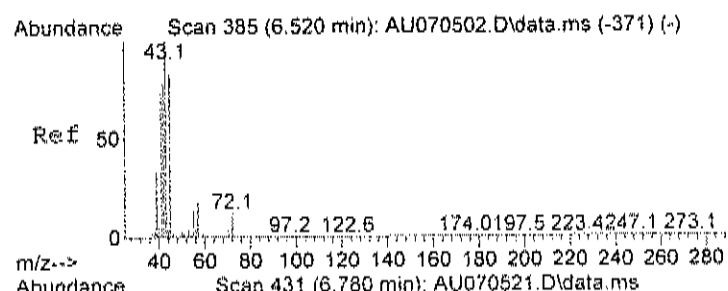
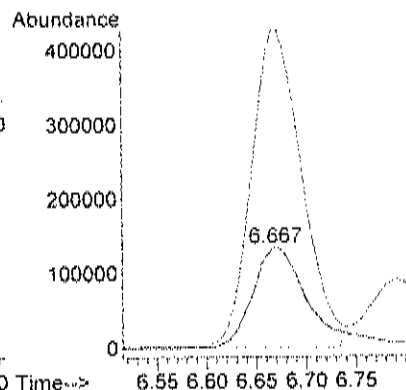
Tgt Ion	Ratio	Lower	Upper
101	100		
103	66.0	44.0	84.0
105	11.8	0.0	31.4





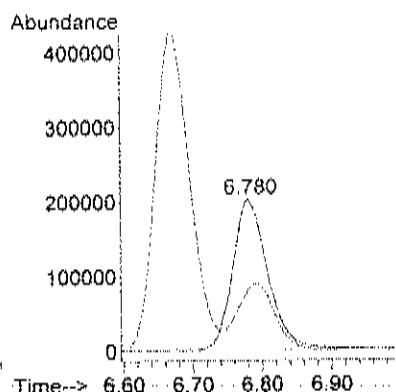
#15
Acetone
Concen: 6.85 ppb m
RT: 6.667 min Scan# 411
Delta R.T. -0.000 min
Lab File: AU070521.D
Acq: 5 Jul 2023 9:39 pm

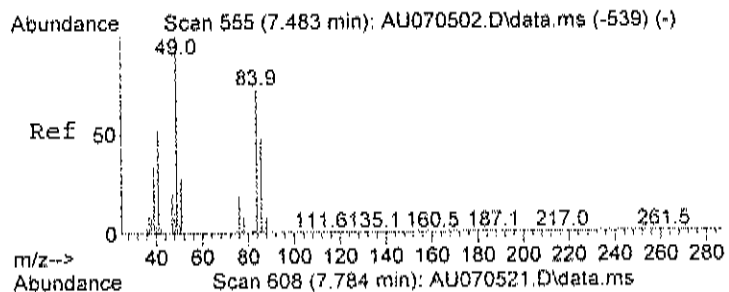
Tgt Ion: 58 Resp: 486135
Ion Ratio Lower Upper
58 100
43 352.4 224.5 284.5#



#17
Isopropyl alcohol
Concen: 3.87 ppb
RT: 6.780 min Scan# 431
Delta R.T. -0.006 min
Lab File: AU070521.D
Acq: 5 Jul 2023 9:39 pm

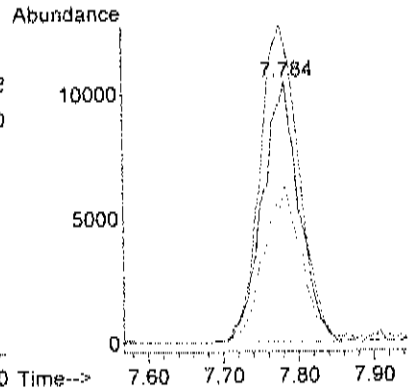
Tgt Ion: 45 Resp: 711369
Ion Ratio Lower Upper
45 100
43 0.0 110.3 150.3#





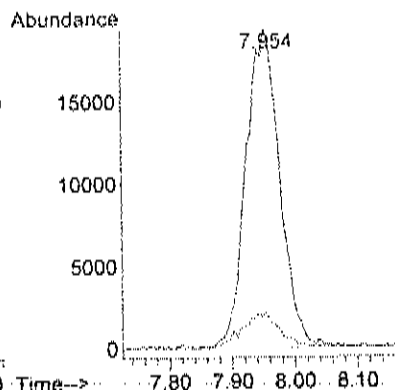
#21
Methylene chloride
Concen: 0.23 ppb
RT: 7.784 min Scan# 608
Delta R.T. 0.011 min
Lab File: AU070521.D
Acq: 5 Jul 2023 9:39 pm

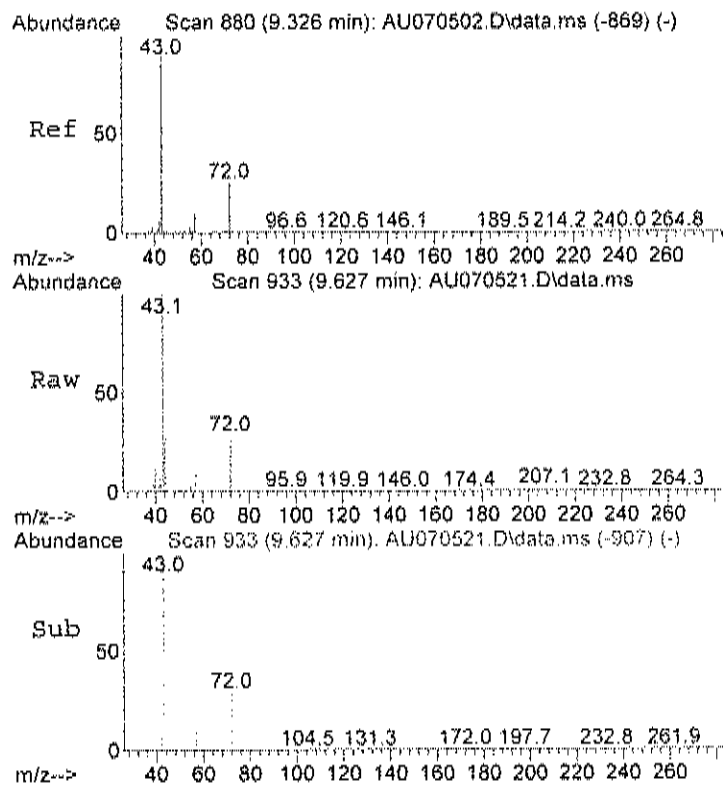
Tgt Ion:	84	Resp:	35308
Ion	Ratio	Lower	Upper
84	100		
49	129.7	93.0	133.0
86	61.3	43.7	83.7



#23
Carbon disulfide
Concen: 0.23 ppb
RT: 7.954 min Scan# 638
Delta R.T. 0.006 min
Lab File: AU070521.D
Acq: 5 Jul 2023 9:39 pm

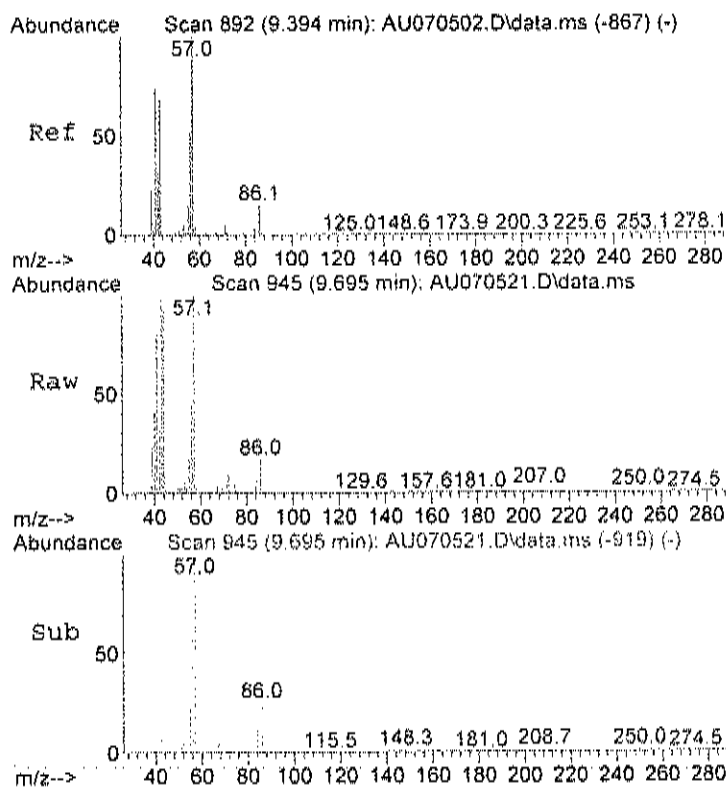
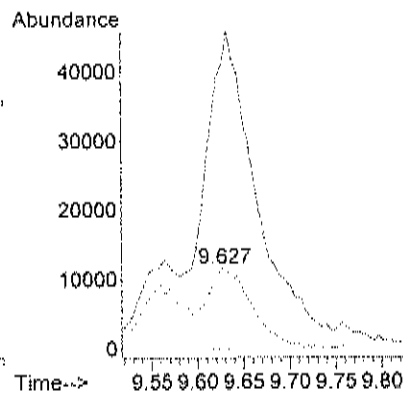
Tgt Ion:	76	Resp:	72804
Ion	Ratio	Lower	Upper
76	100		
78	12.1	0.0	29.3





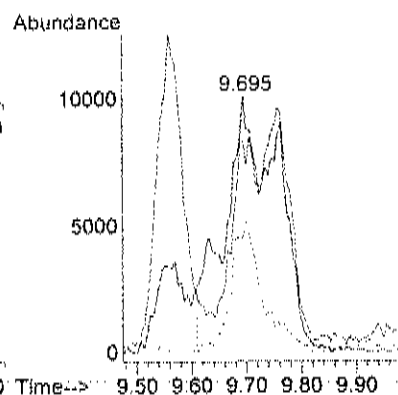
#28
Methyl Ethyl Ketone
Concen: 0.69 ppb m
RT: 9.627 min Scan# 933
Delta R.T. -0.000 min
Lab File: AU070521.D
Acq: 5 Jul 2023 9:39 pm

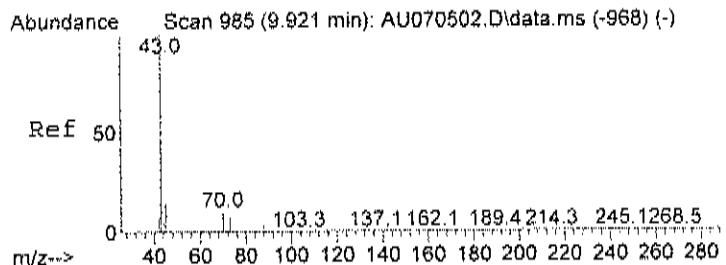
Tgt Ion	72	Resp	39078
Ion	Ratio	Lower	Upper
72	100		
43	371.9	389.0	429.0#
72	178.0	80.0	120.0#



#30
Hexane
Concen: 0.38 ppb m
RT: 9.695 min Scan# 945
Delta R.T. -0.000 min
Lab File: AU070521.D
Acq: 5 Jul 2023 9:39 pm

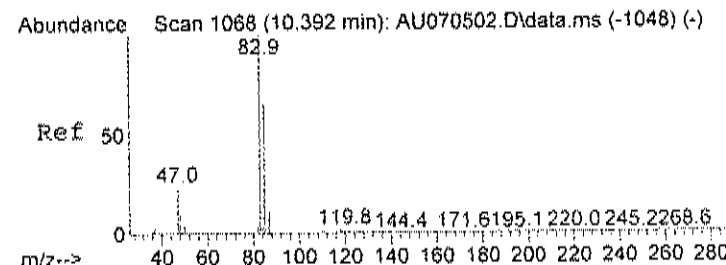
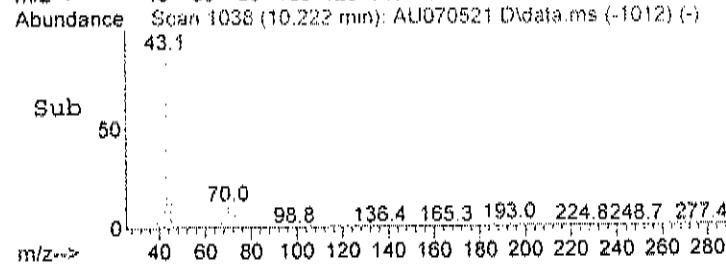
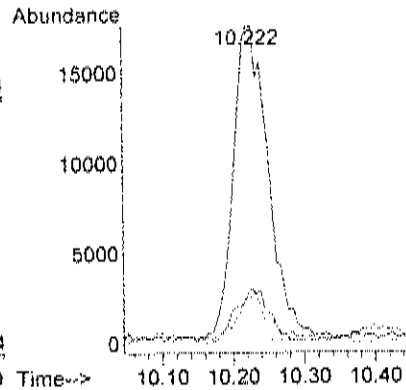
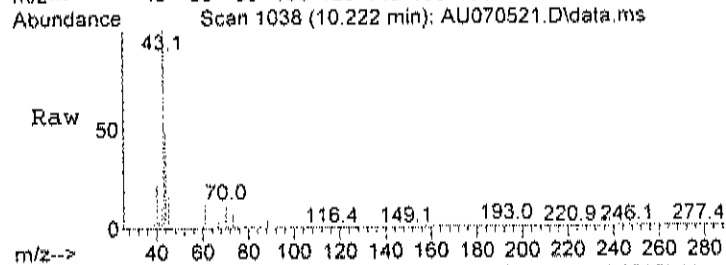
Tgt Ion	57	Resp	68240
Ion	Ratio	Lower	Upper
57	100		
41	0.0	37.3	77.3#
56	0.0	24.8	64.8#





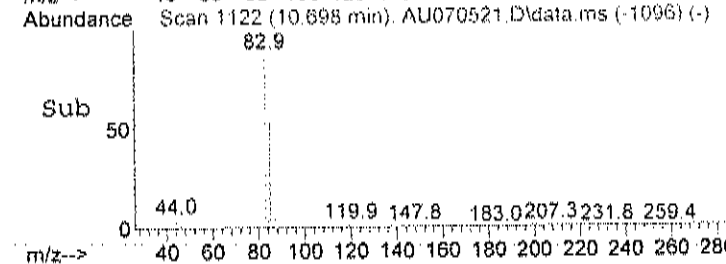
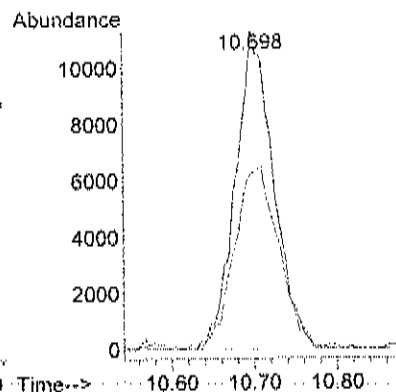
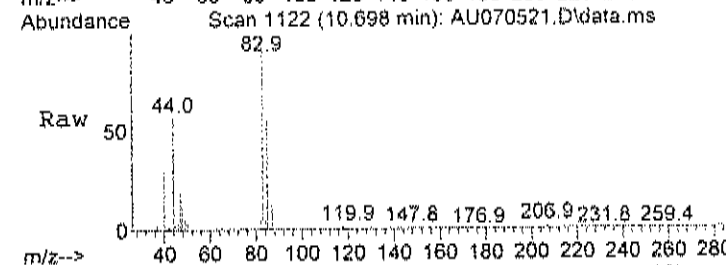
#31
Ethyl acetate
Concen: 0.24 ppb
RT: 10.222 min Scan# 1038
Delta R.T. -0.000 min
Lab File: AU070521.D
Acq: 5 Jul 2023 9:39 pm

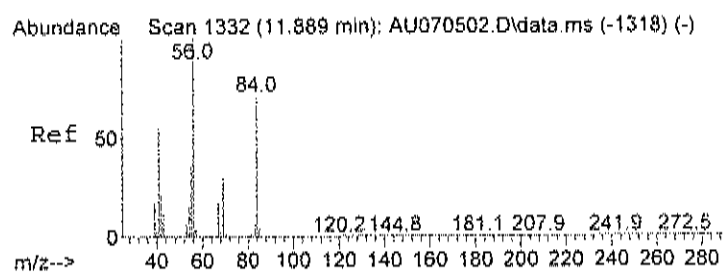
Tgt Ion	43	Resp	60413
Ion	Ratio	Lower	Upper
43	100		
45	16.3	0.0	35.3
61	14.2	0.0	37.0



#32
Chloroform
Concen: 0.18 ppb
RT: 10.698 min Scan# 1122
Delta R.T. -0.000 min
Lab File: AU070521.D
Acq: 5 Jul 2023 9:39 pm

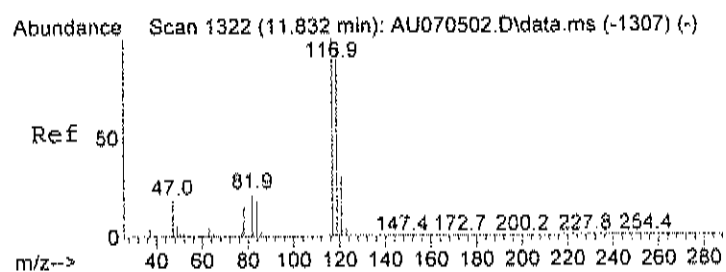
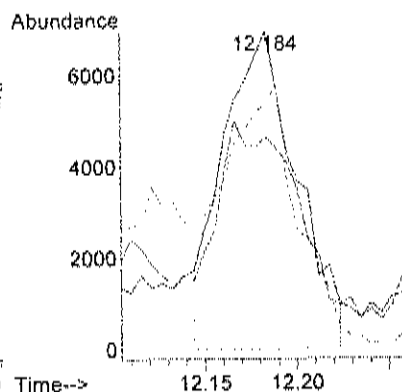
Tgt Ion	83	Resp	36182
Ion	Ratio	Lower	Upper
83	100		
85	66.8	44.6	84.6





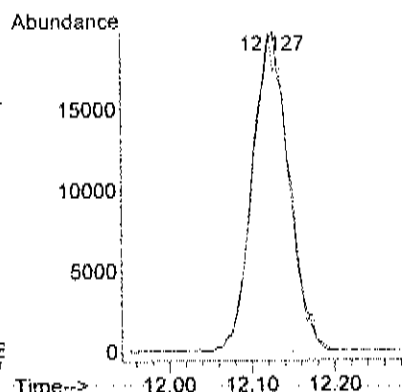
#37
Cyclohexane
Concen: 0.14 ppb m
RT: 12.184 min Scan# 1384
Delta R.T. 0.006 min
Lab File: AU070521.D
Acq: 5 Jul 2023 9:39 pm

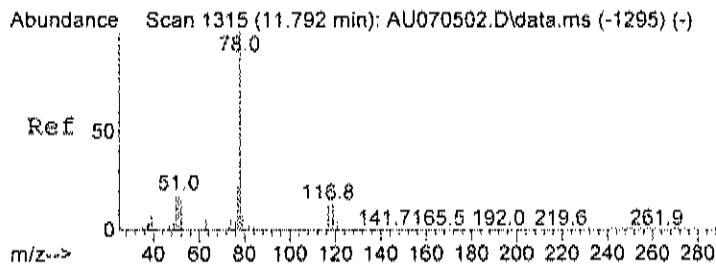
Tgt Ion	56	Resp	19346
Ion	Ratio	Lower	Upper
56	100		
41	65.6	28.1	68.1
84	135.7	85.3	125.3



#38
Carbon tetrachloride
Concen: 0.35 ppb
RT: 12.127 min Scan# 1374
Delta R.T. -0.000 min
Lab File: AU070521.D
Acq: 5 Jul 2023 9:39 pm

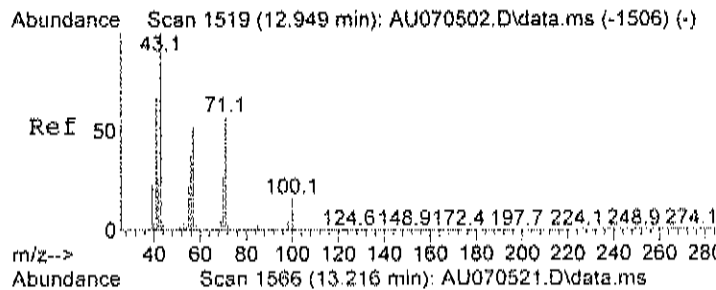
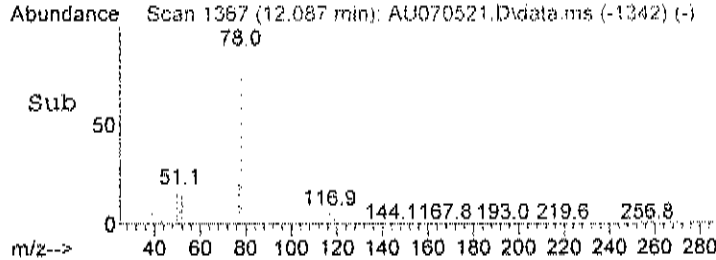
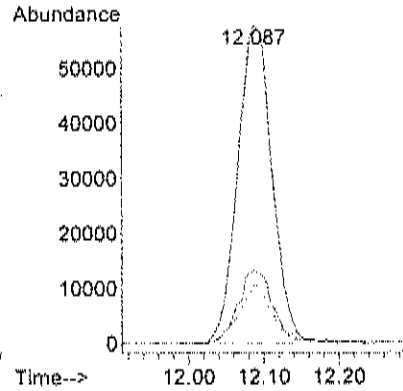
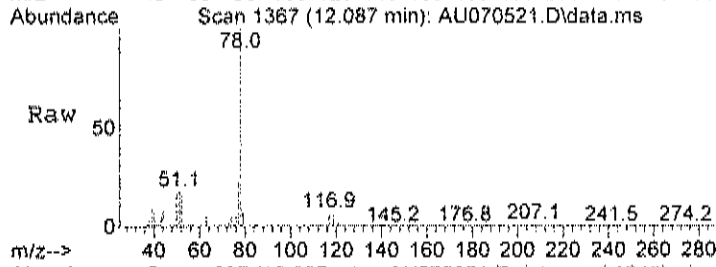
Tgt Ion	117	Resp	60595
Ion	Ratio	Lower	Upper
117	100		
119	97.7	76.7	116.7





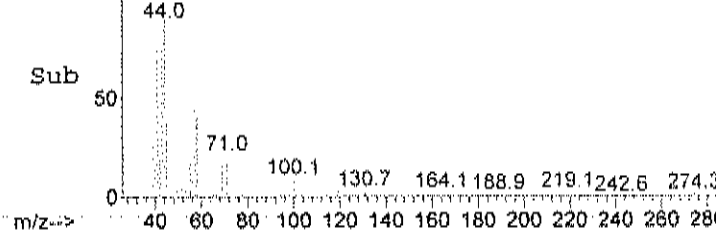
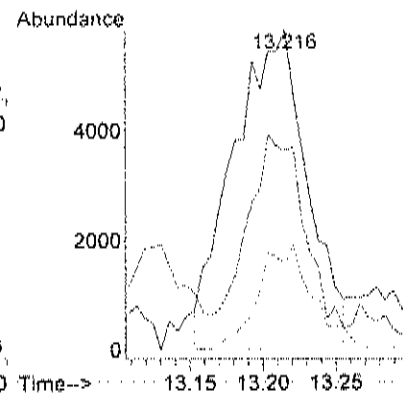
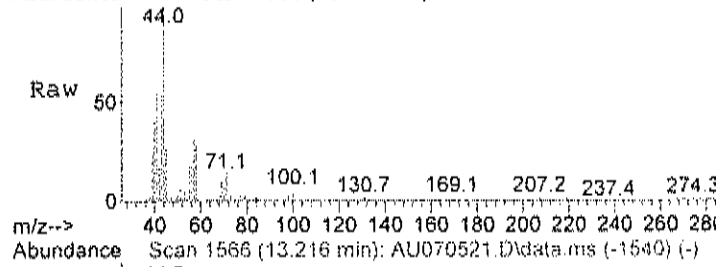
#39
Benzene
Concen: 0.74 ppb
RT: 12.087 min Scan# 1367
Delta R.T. -0.006 min
Lab File: AU070521.D
Acq: 5 Jul 2023 9:39 pm

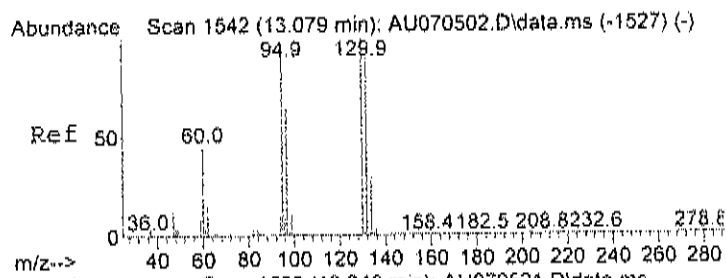
Tgt Ion:	78	Resp:	183899
Ion Ratio	Lower	Upper	
78	100		
77	23.7	3.8	43.8
51	18.0	0.0	35.4



#43
Heptane
Concen: 0.12 ppb m
RT: 13.216 min Scan# 1566
Delta R.T. -0.000 min
Lab File: AU070521.D
Acq: 5 Jul 2023 9:39 pm

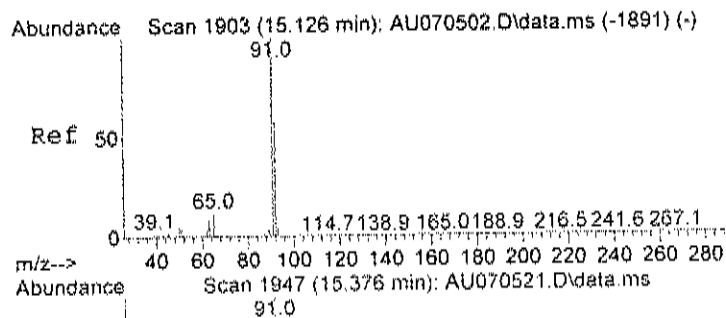
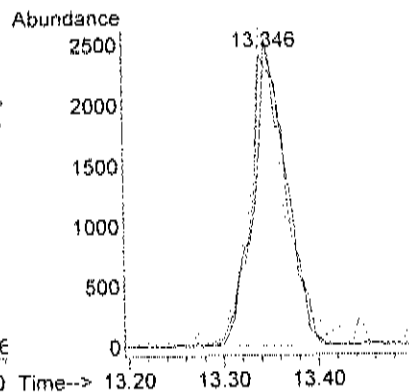
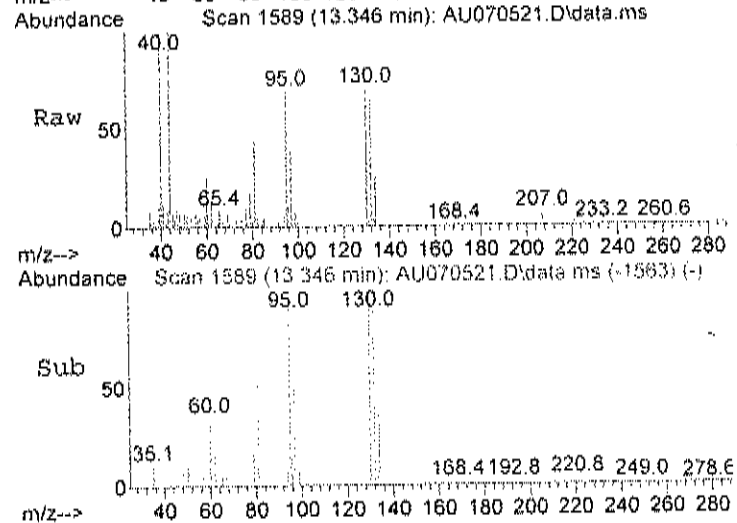
Tgt Ion:	43	Resp:	20584
Ion Ratio	Lower	Upper	
43	100		
57	59.2	40.9	80.9
71	23.9	51.1	91.1#





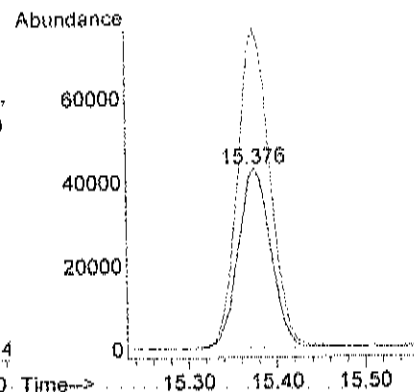
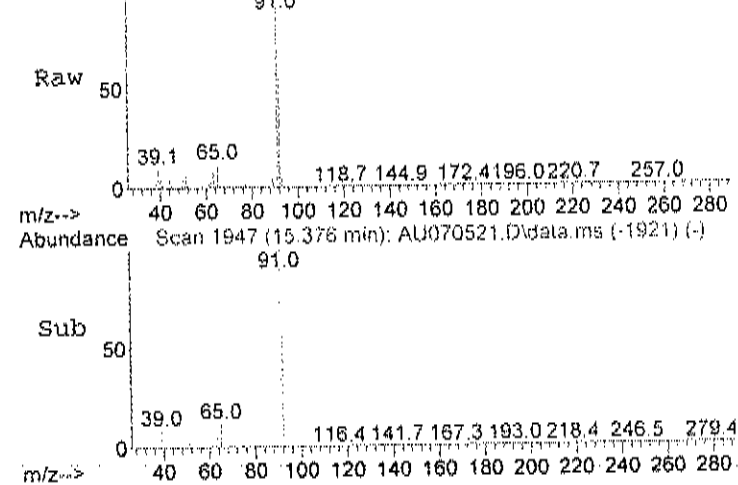
#44
Trichloroethene
Concen: 0.06 ppb
RT: 13.346 min Scan# 1589
Delta R.T. -0.000 min
Lab File: AU070521.D
Acq: 5 Jul 2023 9:39 pm

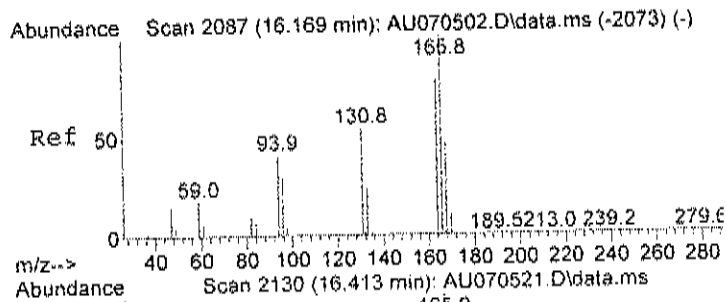
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	6153		
132	102.8		76.3	116.3
95	111.8		72.9	112.9



#51
Toluene
Concen: 0.59 ppb
RT: 15.376 min Scan# 1947
Delta R.T. -0.000 min
Lab File: AU070521.D
Acq: 5 Jul 2023 9:39 pm

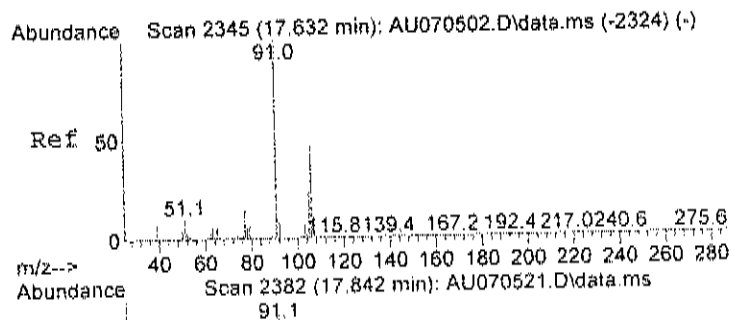
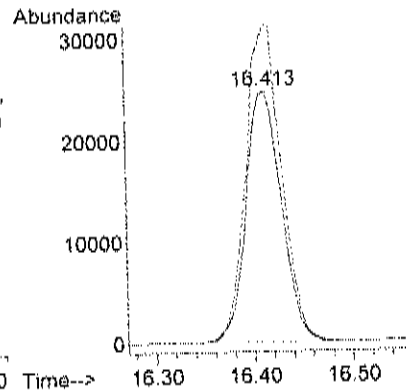
Tgt Ion	Ratio	Resp	Lower	Upper
92	100	110739		
91	177.0		150.4	190.4





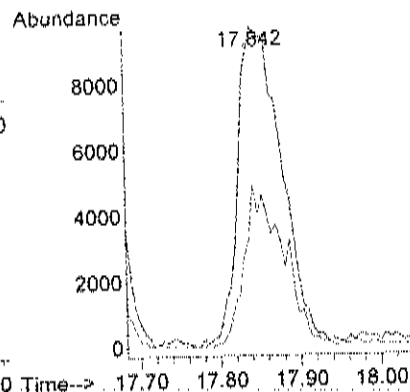
#56
Tetrachloroethylene
Concen: 0.58 ppb
RT: 16.413 min Scan# 2130
Delta R.T. -0.000 min
Lab File: AU070521.D
Acq: 5 Jul 2023 9:39 pm

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.1	107.9	147.9



#59
m&p-xylene
Concen: 0.11 ppb
RT: 17.842 min Scan# 2382
Delta R.T. -0.023 min
Lab File: AU070521.D
Acq: 5 Jul 2023 9:39 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
106	44.6	32.1	72.1



Data Path : C:\msdchem\1\data\
Data File : AU070620.D
Acq On : 6 Jul 2023 7:37 pm
Operator : RJP
Sample : C2307002-003A 10X
Misc : A629_1UG
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 07 04:59:02 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

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

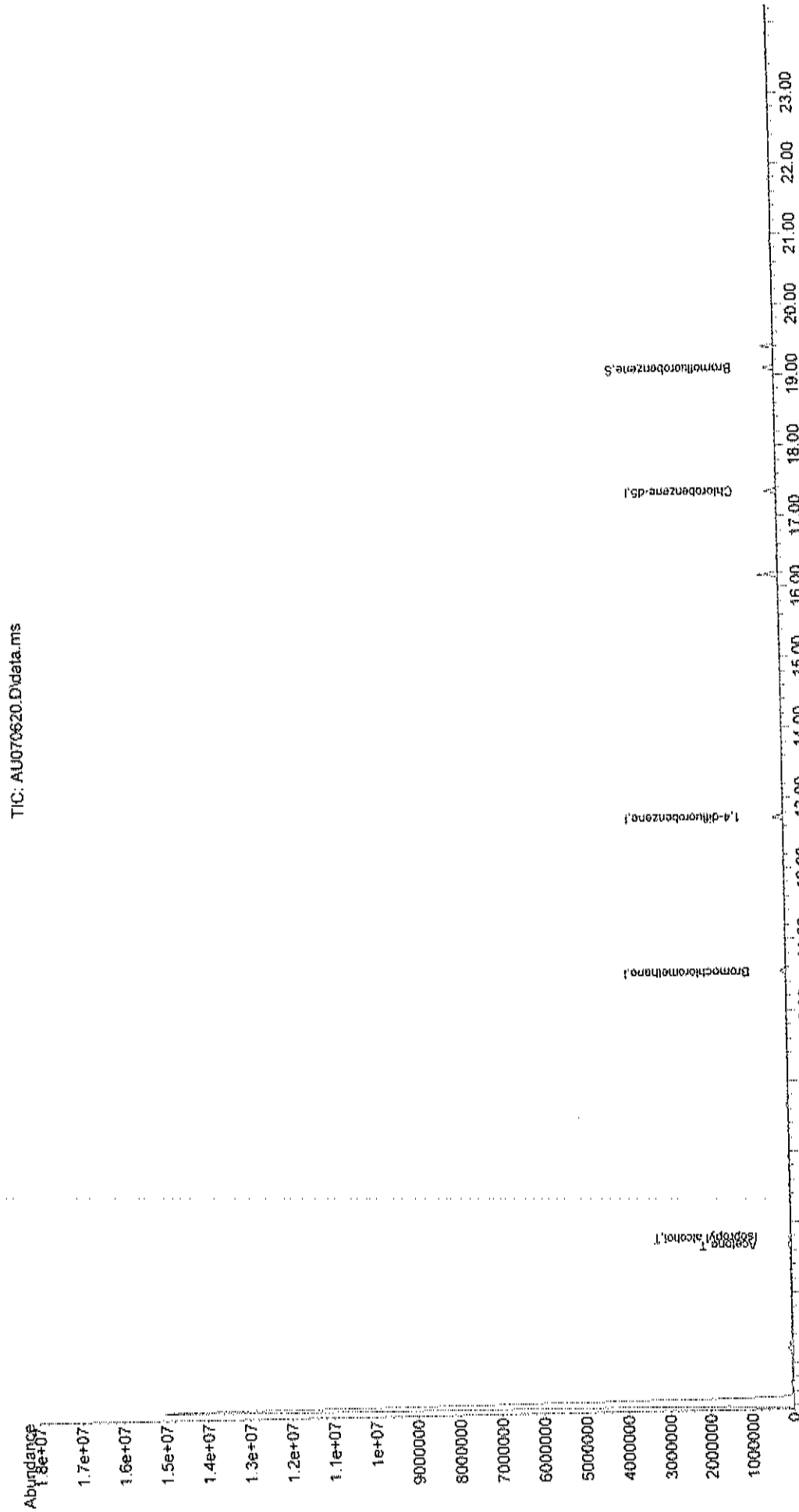
Internal Standards						
1) Bromochloromethane	10.539	128	57453	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.728	114	298270	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	226184	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	123216	0.72	ppb	0.05
Spiked Amount	1.000	Range 70 - 130	Recovery	=	72.00%	
Target Compounds						
15) Acetone	6.678	58	43149m <i>N</i>	0.64	ppb	Qvalue
17) Isopropyl alcohol	6.786	45	60503	0.34	ppb	# 30

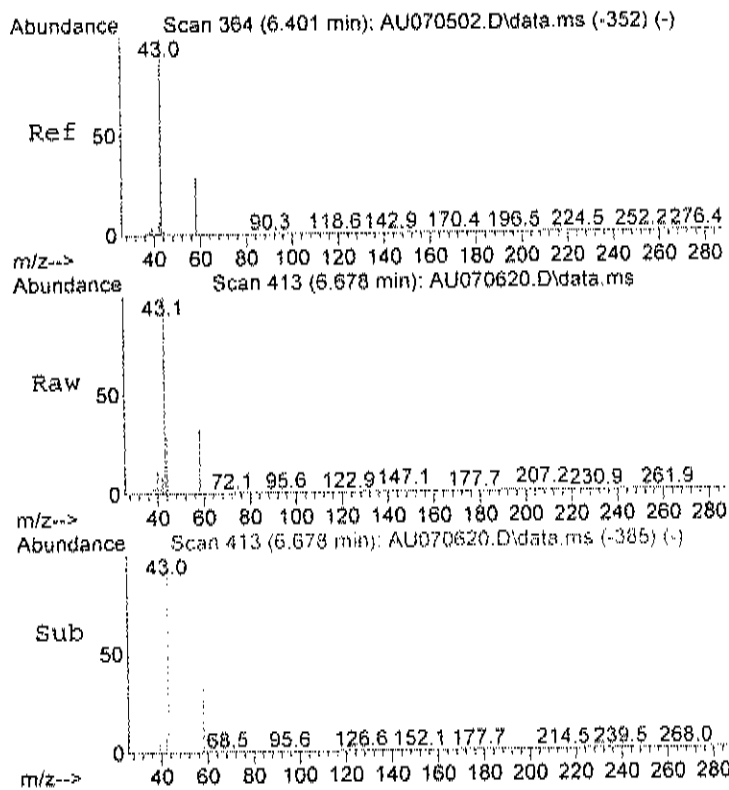
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : AU070620.D
 Acq On : 6 Jul 2023 7:37 pm
 Operator : RJP
 Sample : C2307002-003A 10X
 Misc : A629_1UG
 ALS Vial : 16 Sample Multiplier: 1

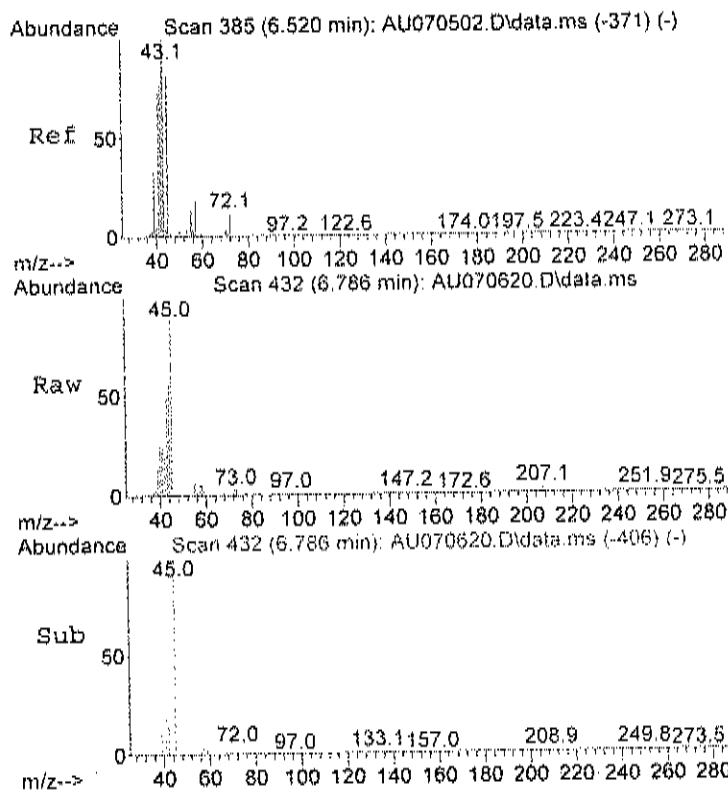
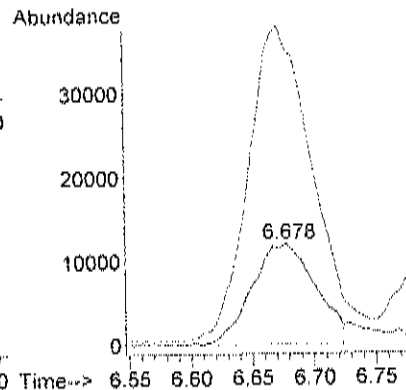
Quant Time: Jul 07 04:59:02 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





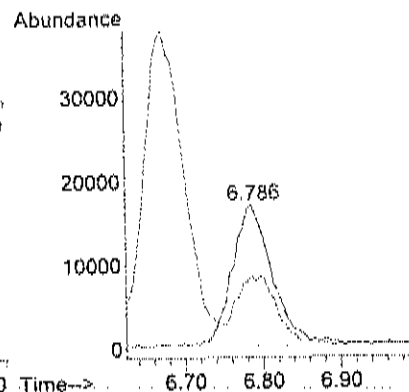
#15
Acetone
Concen: 0.64 ppb m
RT: 6.678 min Scan# 413
Delta R.T. 0.011 min
Lab File: AU070620.D
Acq: 6 Jul 2023 7:37 pm

Tgt Ion	58	Resp	43149
Ion Ratio	Lower	Upper	
58	100		
43	318.8	224.5	284.5#



#17
Isopropyl alcohol
Concen: 0.34 ppb
RT: 6.786 min Scan# 432
Delta R.T. -0.000 min
Lab File: AU070620.D
Acq: 6 Jul 2023 7:37 pm

Tgt Ion	45	Resp	60503
Ion Ratio	Lower	Upper	
45	100		
43	48.3	110.3	150.3#



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-004A

Client Sample ID: SVW-3
 Tag Number: 203.1165
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	0.18	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2-Dichloroethane	0.17	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,2-Dichloropropane	0.64	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,3-Dichlorobenzene	0.48	0.15		ppbV	1	7/5/2023 10:24:00 PM
1,4-Dichlorobenzene	0.13	0.15	J	ppbV	1	7/5/2023 10:24:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 10:24:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Acetone	50	12		ppbV	40	7/6/2023 9:03:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Benzene	0.44	0.15		ppbV	1	7/5/2023 10:24:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Bromodichloromethane	0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Carbon disulfide	13	1.5		ppbV	10	7/6/2023 8:20:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Chloroethane	0.42	0.15		ppbV	1	7/5/2023 10:24:00 PM
Chloroform	2.6	1.5		ppbV	10	7/6/2023 8:20:00 PM
Chloromethane	1.2	0.15		ppbV	1	7/5/2023 10:24:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Cyclohexane	0.18	0.15		ppbV	1	7/5/2023 10:24:00 PM

Qualifiers:
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 7 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-3

Lab Order: C2307002

Tag Number: 203,1165

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-004A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Ethyl acetate	0.27	0.15		ppbV	1	7/5/2023 10:24:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Freon 11	1.9	0.15		ppbV	1	7/5/2023 10:24:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Freon 12	0.60	0.15		ppbV	1	7/5/2023 10:24:00 PM
Heptane	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Hexane	2.6	1.5		ppbV	10	7/6/2023 8:20:00 PM
Isopropyl alcohol	4.0	1.5		ppbV	10	7/6/2023 8:20:00 PM
m&p-Xylene	0.12	0.30	J	ppbV	1	7/5/2023 10:24:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 10:24:00 PM
Methyl Ethyl Ketone	1.5	0.30		ppbV	1	7/5/2023 10:24:00 PM
Methyl Isobutyl Ketone	0.30	0.30		ppbV	1	7/5/2023 10:24:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Methylene chloride	0.29	0.15		ppbV	1	7/5/2023 10:24:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Tetrachloroethylene	0.62	0.15		ppbV	1	7/5/2023 10:24:00 PM
Tetrahydrofuran	1.5	0.15		ppbV	1	7/5/2023 10:24:00 PM
Toluene	0.48	0.15		ppbV	1	7/5/2023 10:24:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 10:24:00 PM
Surr: Bromofluorobenzene	101	70-130		%REC	1	7/5/2023 10:24:00 PM

Qualifiers:

- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-3

Lab Order: C2307002

Tag Number: 203.1165

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-004A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	0.98	0.82		ug/m3	1	7/5/2023 10:24:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 10:24:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 10:24:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 10:24:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 10:24:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 10:24:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 10:24:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 10:24:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 10:24:00 PM
1,2-Dichloroethane	0.69	0.61		ug/m3	1	7/5/2023 10:24:00 PM
1,2-Dichloropropane	3.0	0.69		ug/m3	1	7/5/2023 10:24:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 10:24:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 10:24:00 PM
1,3-Dichlorobenzene	2.9	0.90		ug/m3	1	7/5/2023 10:24:00 PM
1,4-Dichlorobenzene	0.78	0.90	J	ug/m3	1	7/5/2023 10:24:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 10:24:00 PM
2,2,4-Trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 10:24:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 10:24:00 PM
Acetone	120	28		ug/m3	40	7/6/2023 9:03:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 10:24:00 PM
Benzene	1.4	0.48		ug/m3	1	7/5/2023 10:24:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 10:24:00 PM
Bromodichloromethane	1.0	1.0		ug/m3	1	7/5/2023 10:24:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 10:24:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 10:24:00 PM
Carbon disulfide	41	4.7		ug/m3	10	7/6/2023 8:20:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 10:24:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 10:24:00 PM
Chloroethane	1.1	0.40		ug/m3	1	7/5/2023 10:24:00 PM
Chloroform	13	7.3		ug/m3	10	7/6/2023 8:20:00 PM
Chloromethane	2.4	0.31		ug/m3	1	7/5/2023 10:24:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 10:24:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 10:24:00 PM
Cyclohexane	< 0.62	0.52		ug/m3	1	7/5/2023 10:24:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 10:24:00 PM
Ethyl acetate	0.97	0.54		ug/m3	1	7/5/2023 10:24:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 10:24:00 PM
Freon 11	11	0.84		ug/m3	1	7/5/2023 10:24:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 10:24:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 10:24:00 PM

Qualifiers: , Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 7 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-3

Lab Order: C2307002

Tag Number: 203,1165

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-004A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	3.0	0.74		ug/m3	1	7/5/2023 10:24:00 PM
Heptane	< 0.61	0.61		ug/m3	1	7/5/2023 10:24:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 10:24:00 PM
Hexane	9.2	5.3		ug/m3	10	7/6/2023 8:20:00 PM
Isopropyl alcohol	9.8	3.7		ug/m3	10	7/6/2023 8:20:00 PM
m&p-Xylene	0.52	1.3	J	ug/m3	1	7/5/2023 10:24:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 10:24:00 PM
Methyl Ethyl Ketone	4.4	0.88		ug/m3	1	7/5/2023 10:24:00 PM
Methyl Isobutyl Ketone	1.2	1.2		ug/m3	1	7/5/2023 10:24:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 10:24:00 PM
Methylene chloride	1.0	0.52		ug/m3	1	7/5/2023 10:24:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 10:24:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 10:24:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 10:24:00 PM
Tetrachloroethylene	4.2	1.0		ug/m3	1	7/5/2023 10:24:00 PM
Tetrahydrofuran	4.5	0.44		ug/m3	1	7/5/2023 10:24:00 PM
Toluene	1.8	0.57		ug/m3	1	7/5/2023 10:24:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 10:24:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 10:24:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 10:24:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 10:24:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 10:24:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 10:24:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Data Path : C:\msdchem\1\data\
 Data File : AU070522.D
 Acq On : 5 Jul 2023 10:24 pm
 Operator : RJP
 Sample : C2307002-004A
 Misc : A629_1UG
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 07:55:33 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

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

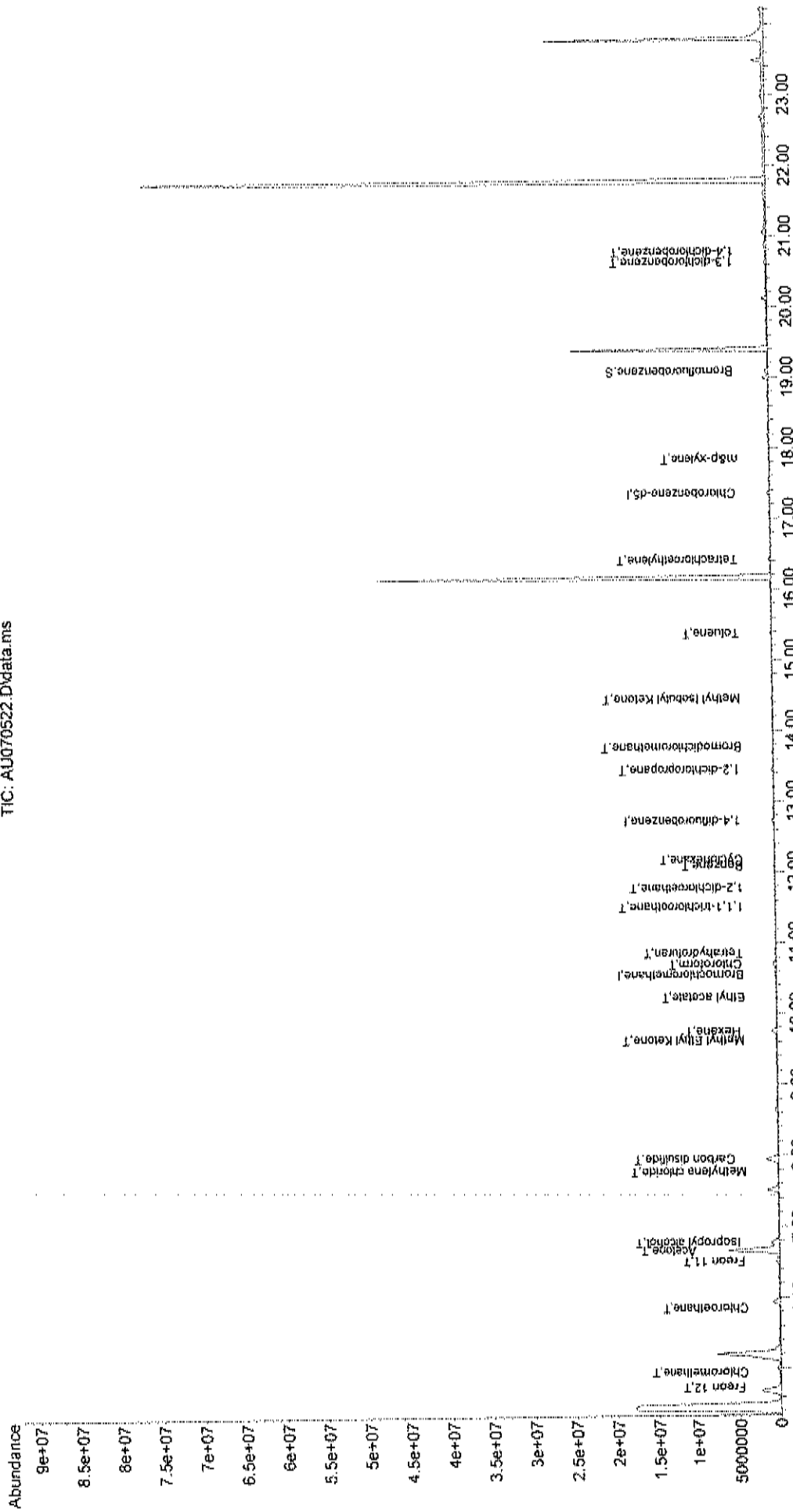
Internal Standards						
1) Bromochloromethane	10.551	128	62790	1.00	ppb	# 0.01
35) 1,4-difluorobenzene	12.728	114	300473	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	288242	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.089	95	219096	1.01	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	101.00%
Target Compounds						
						Qvalue
3) Freon 12	4.734	85	155144	0.60	ppb	99
4) Chloromethane	4.943	50	95496	1.16	ppb	92
10) Chloroethane	5.851	64	18080	0.42	ppb	96
14) Freon 11	6.508	101	499712	1.93	ppb	98
15) Acetone	6.661	58	4229997m	57.05	ppb	
17) Isopropyl alcohol	6.775	45	882790	4.60	ppb	# 34
21) Methylene chloride	7.773	84	45371	0.29	ppb	# 86
23) Carbon disulfide	7.948	76	4043709	12.23	ppb	99
28) Methyl Ethyl Ketone	9.627	72	87382m	1.48	ppb	
30) Hexane	9.751	57	652351	3.49	ppb	# 39
31) Ethyl acetate	10.228	43	71386	0.27	ppb	95
32) Chloroform	10.698	83	533774	2.58	ppb	99
33) Tetrahydrofuran	10.857	42	192226	1.53	ppb	87
34) 1,2-dichloroethane	11.781	62	26232	0.17	ppb	100
36) 1,1,1-trichloroethane	11.515	97	31443	0.18	ppb	98
37) Cyclohexane	12.178	56	24714m	0.18	ppb	
39) Benzene	12.093	78	112006	0.44	ppb	91
45) 1,2-dichloropropane	13.454	63	62104	0.64	ppb	88
46) Bromodichloromethane	13.771	83	24363	0.15	ppb	98
51) Toluene	15.376	92	97697	0.48	ppb	96
52) Methyl Isobutyl Ketone	14.451	43	84105	0.30	ppb	97
56) Tetrachloroethylene	16.413	164	71522	0.62	ppb	100
59) m&p-xylene	17.842	91	41912	0.12	ppb	94
72) 1,3-dichlorobenzene	20.637	146	99215m	0.48	ppb	
74) 1,4-dichlorobenzene	20.779	146	25074m	0.13	ppb	

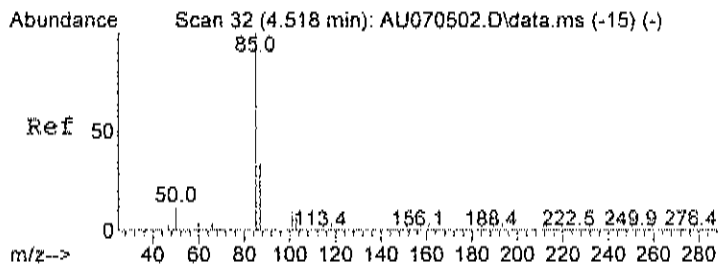
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\
 Data File : AU070522.D
 Acq On : 5 Jul 2023 10:24 pm
 Operator : RJP
 Sample : C2307002-004A
 Misc : A629 IUG
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 07:55:33 2023
 Quant Method : C:\msdchem\1\methods\A629 IUG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

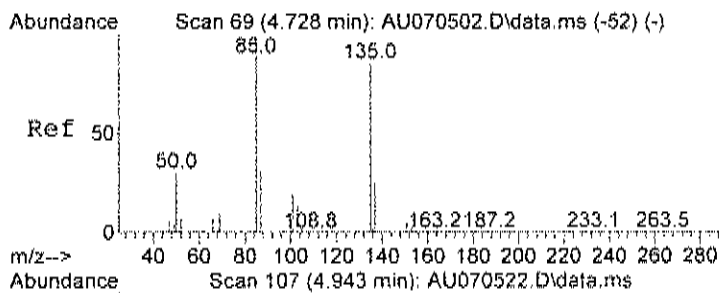
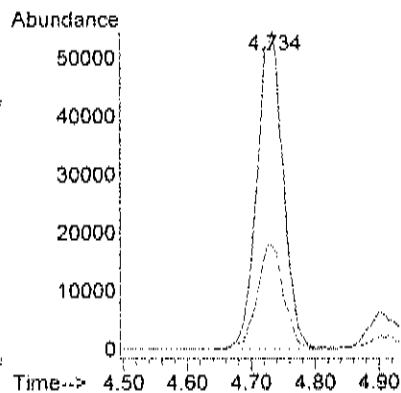
TIC: AU070522.D\data.ms





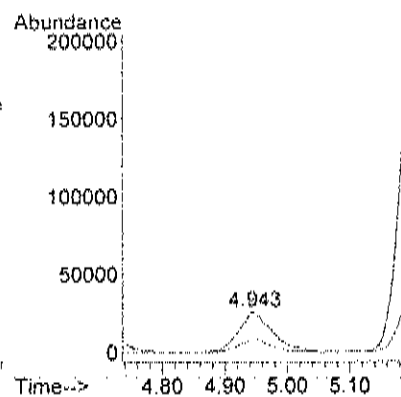
#3
Freon 12
Concen: 0.60 ppb
RT: 4.734 min Scan# 70
Delta R.T. -0.000 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

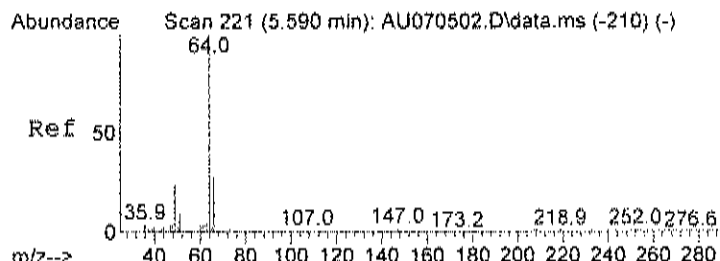
Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.0	13.4	53.4



#4
Chloromethane
Concen: 1.16 ppb
RT: 4.943 min Scan# 107
Delta R.T. -0.011 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

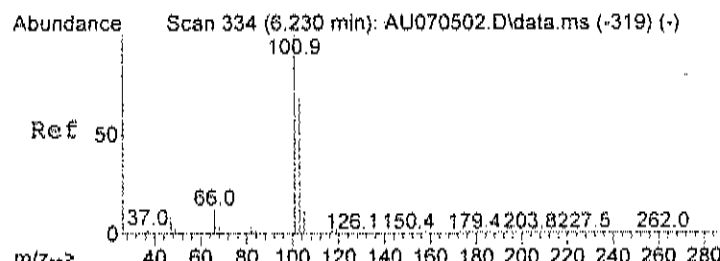
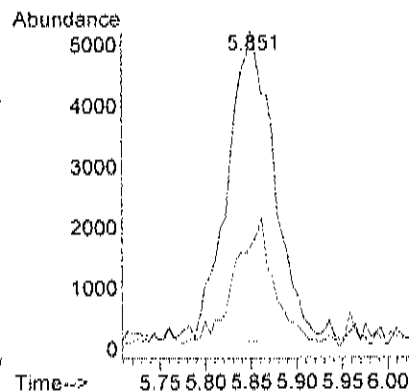
Tgt Ion	Ratio	Lower	Upper
50	100		
52	31.2	6.9	46.9





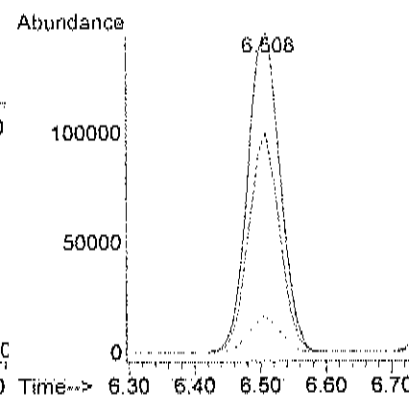
#10
Chloroethane
Concen: 0.42 ppb
RT: 5.851 min Scan# 267
Delta R.T. -0.000 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

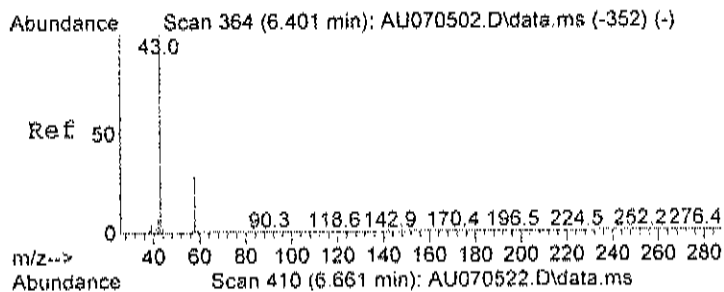
Tgt Ion	Ratio	Lower	Upper
64	100		
66	37.3	28.2	42.2



#14
Freon 11
Concen: 1.93 ppb
RT: 6.508 min Scan# 383
Delta R.T. 0.006 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

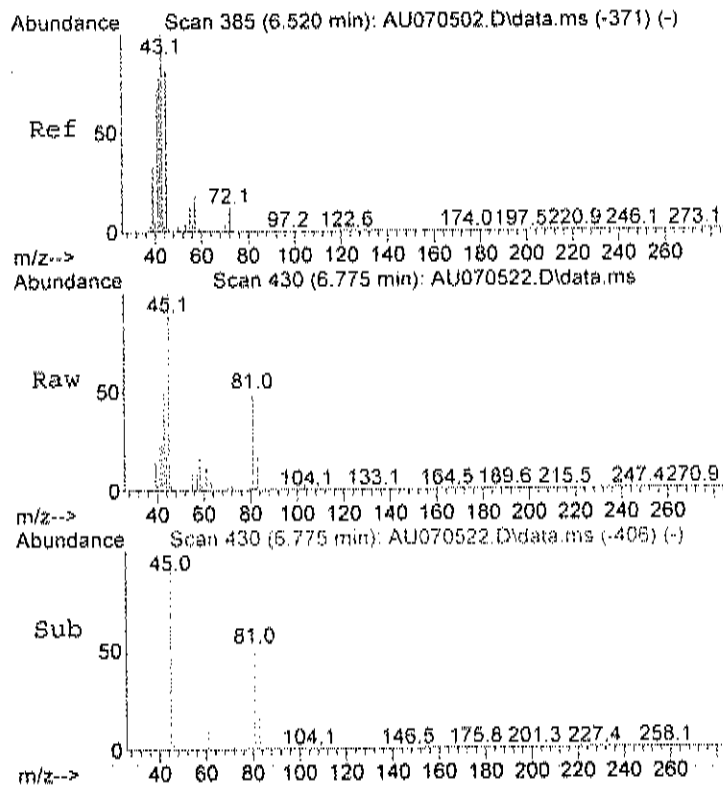
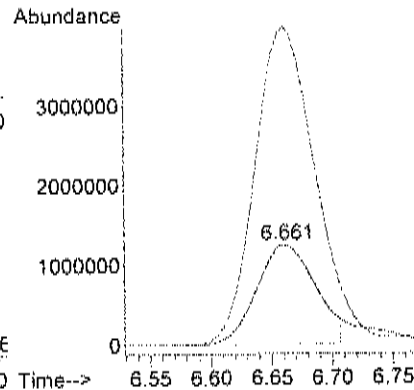
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.4	44.0	84.0
105	10.7	0.0	31.4





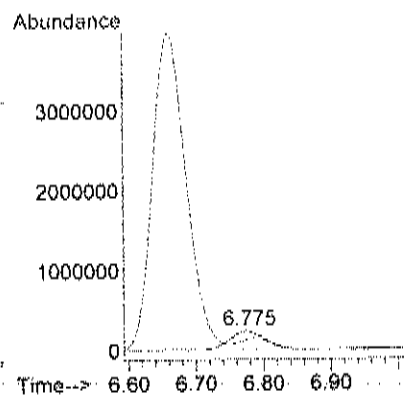
#15
Acetone
Concen: 57.05 ppb m
RT: 6.661 min Scan# 410
Delta R.T. -0.006 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

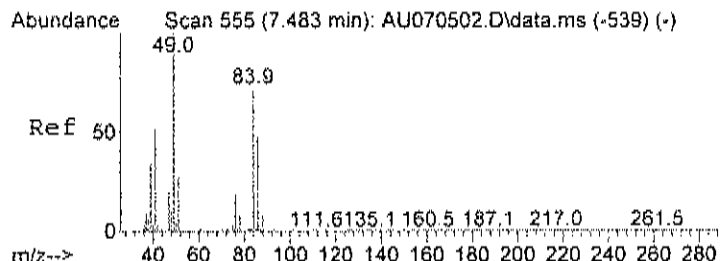
Tgt Ion: 58 Resp: 4229997
Ion Ratio Lower Upper
58 100
43 336.7 224.5 284.5#



#17
Isopropyl alcohol
Concen: 4.60 ppb
RT: 6.775 min Scan# 430
Delta R.T. -0.011 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

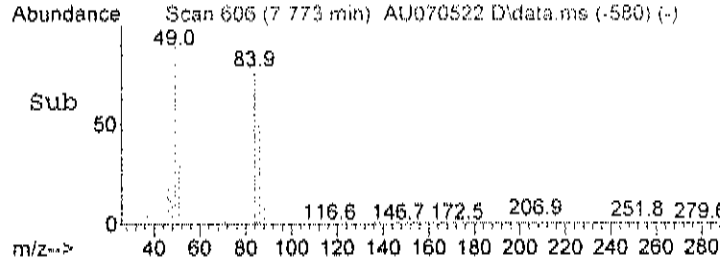
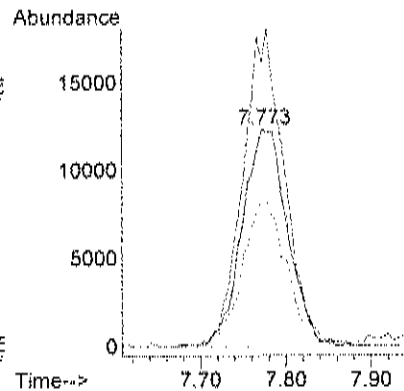
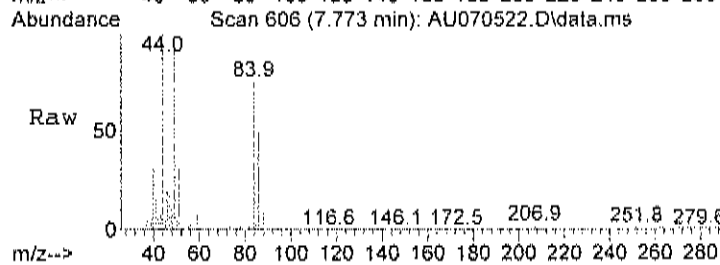
Tgt Ion: 45 Resp: 882790
Ion Ratio Lower Upper
45 100
43 53.6 110.3 150.3#





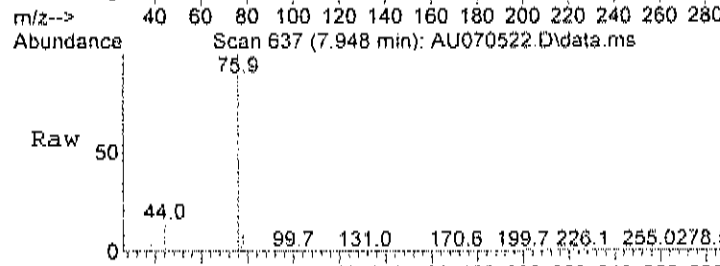
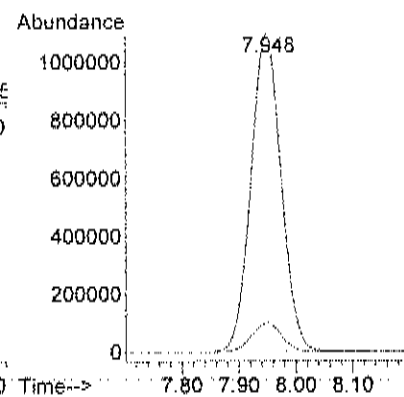
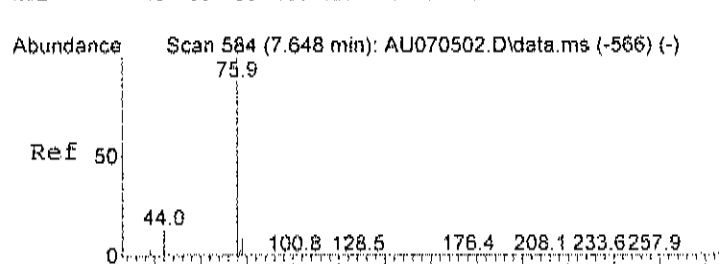
#21
Methylene chloride
Concen: 0.29 ppb
RT: 7.773 min Scan# 606
Delta R.T. -0.000 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

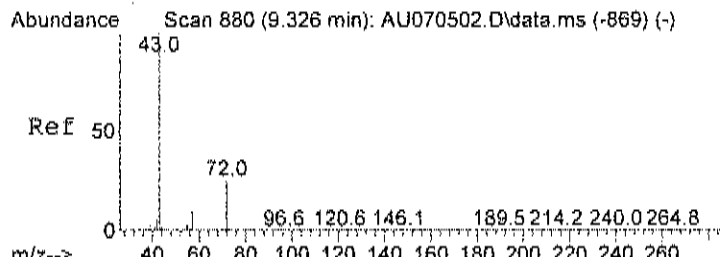
Tgt Ion: 84	Resp: 45371
Ion Ratio Lower Upper	
84 100	
49 135.3	93.0 133.0#
86 64.8	43.7 83.7



#23
Carbon disulfide
Concen: 12.23 ppb
RT: 7.948 min Scan# 637
Delta R.T. -0.000 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

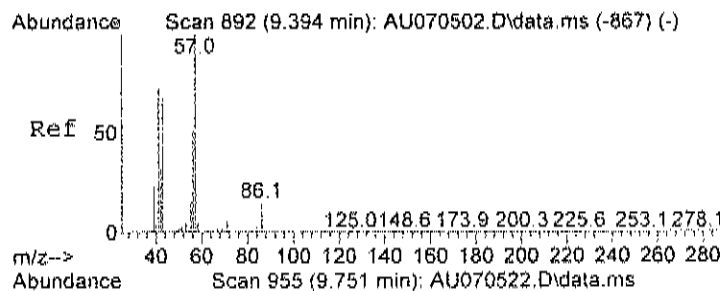
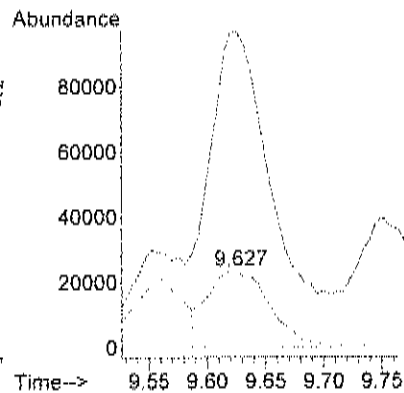
Tgt Ion: 76	Resp: 4043709
Ion Ratio Lower Upper	
76 100	
78 9.0	0.0 29.3





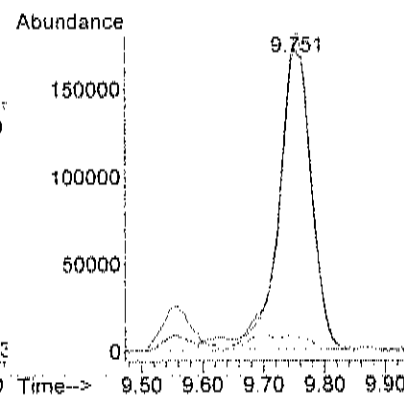
#28
Methyl Ethyl Ketone
Concen: 1.48 ppb m
RT: 9.627 min Scan# 933
Delta R.T. -0.000 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

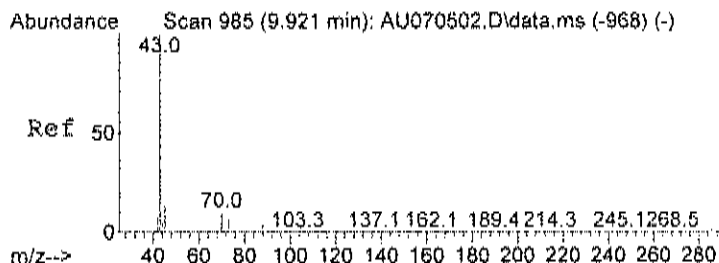
Tgt Ion	Ratio	Lower	Upper
72	100		
43	0.0	389.0	429.0#
72	169.2	80.0	120.0#



#30
Hexane
Concen: 3.49 ppb
RT: 9.751 min Scan# 955
Delta R.T. 0.057 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

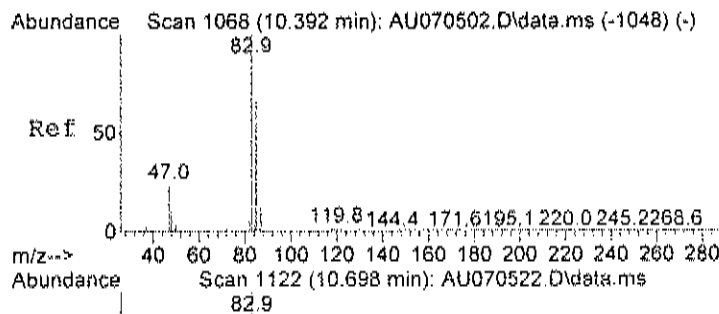
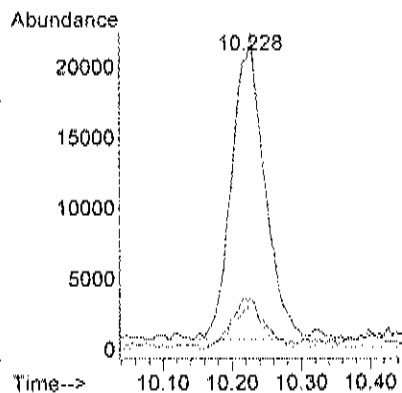
Tgt Ion	Ratio	Lower	Upper
57	100		
41	97.8	37.3	77.3#
56	0.0	24.8	64.8#





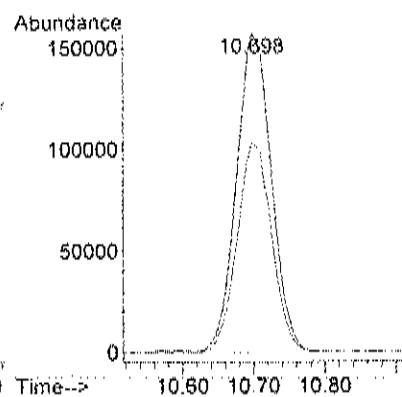
#31
Ethyl acetate
Concen: 0.27 ppb
RT: 10.228 min Scan# 1039
Delta R.T. 0.006 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

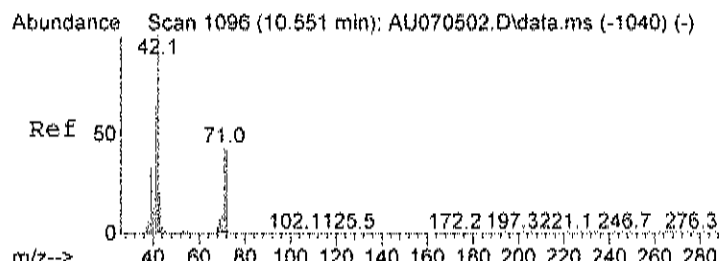
Tgt Ion:	43	Resp:	71386
Ion	Ratio	Lower	Upper
43	100		
45	15.0	0.0	35.3
61	13.1	0.0	37.0



#32
Chloroform
Concen: 2.58 ppb
RT: 10.698 min Scan# 1122
Delta R.T. ~0.000 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

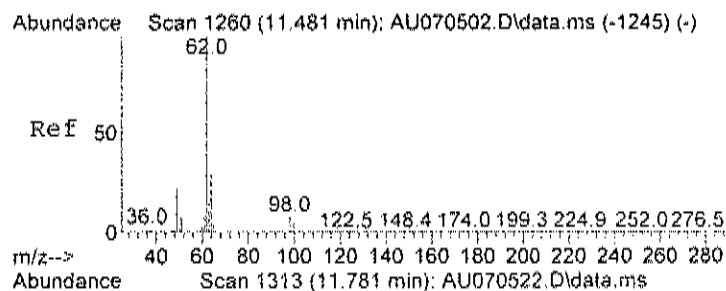
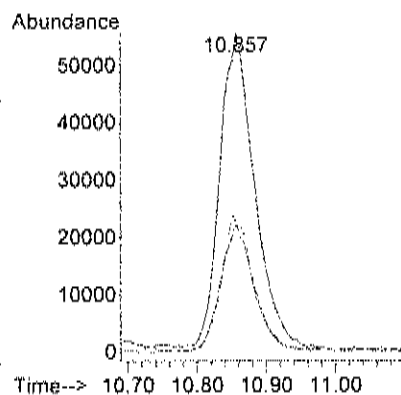
Tgt Ion:	83	Resp:	533774
Ion	Ratio	Lower	Upper
83	100		
85	65.5	44.6	84.6





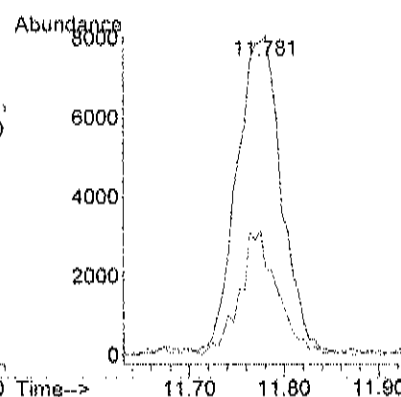
#33
Tetrahydrofuran
Concen: 1.53 ppb
RT: 10.857 min Scan# 1150
Delta R.T. -0.006 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

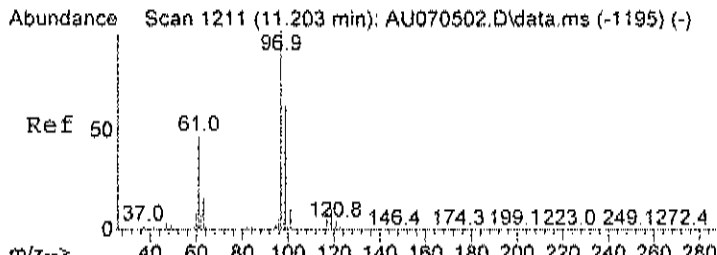
Tgt Ion:	42	Resp:	192226
Ion Ratio	Lower	Upper	
42	100		
71	38.6	27.1	67.1
72	41.6	30.8	70.8



#34
1,2-dichloroethane
Concen: 0.17 ppb
RT: 11.781 min Scan# 1313
Delta R.T. 0.006 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

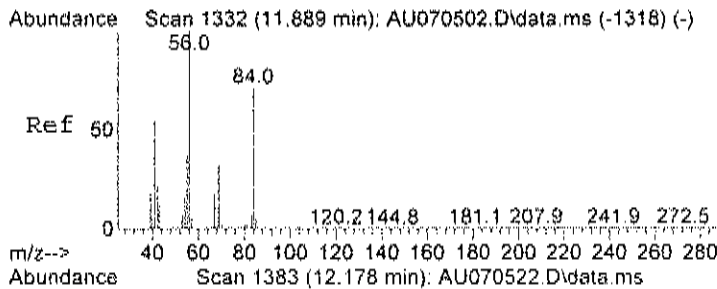
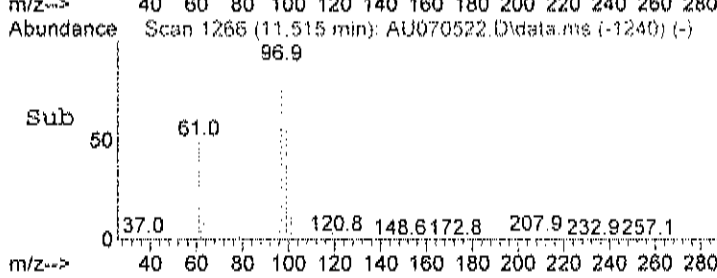
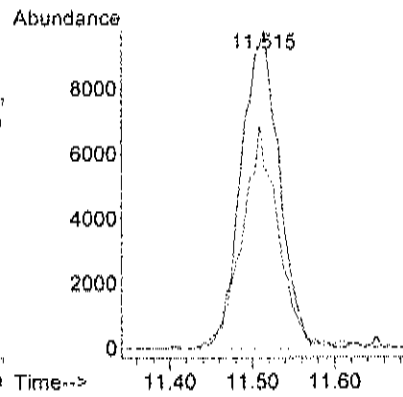
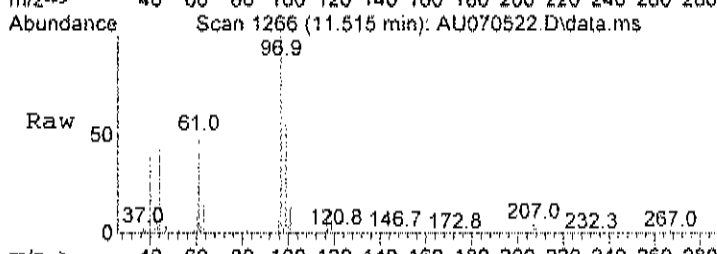
Tgt Ion:	62	Resp:	26232
Ion Ratio	Lower	Upper	
62	100		
64	32.9	13.2	53.2





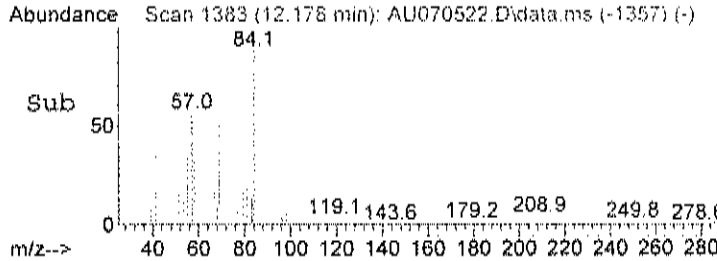
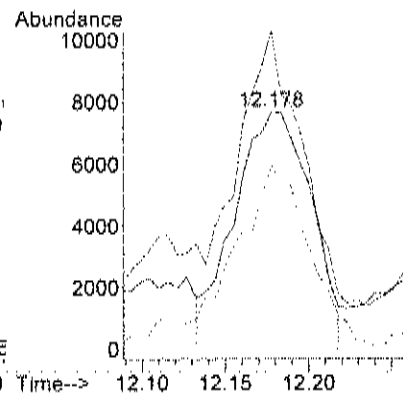
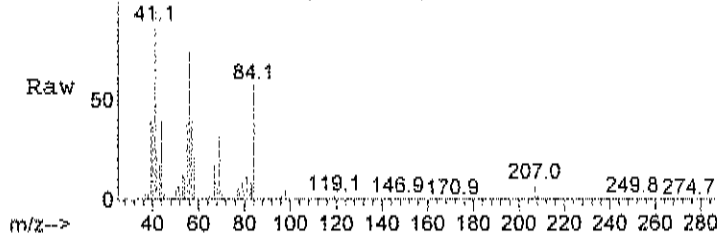
#36
1,1,1-trichloroethane
Concen: 0.18 ppb
RT: 11.515 min Scan# 1266
Delta R.T. -0.000 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

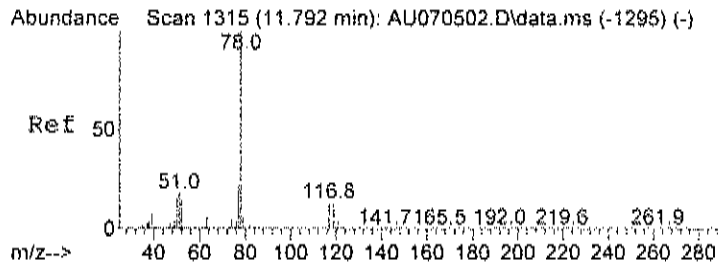
Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.4	44.8	84.8



#37
Cyclohexane
Concen: 0.18 ppb m
RT: 12.178 min Scan# 1383
Delta R.T. -0.000 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

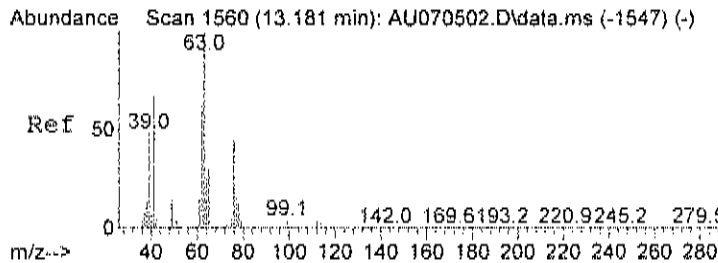
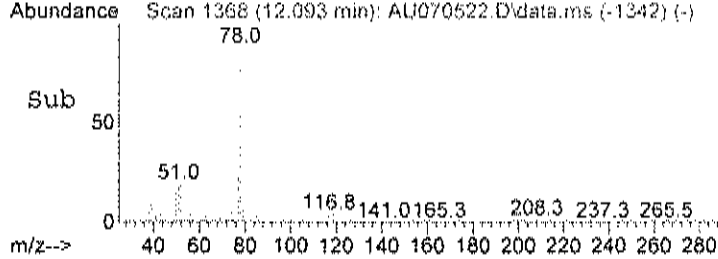
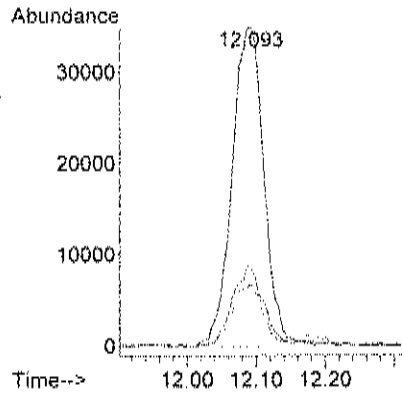
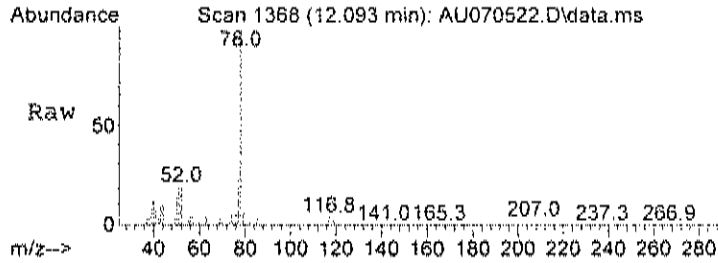
Tgt Ion	Ratio	Lower	Upper
56	100		
41	156.9	28.1	68.1#
84	69.7	85.3	125.3#





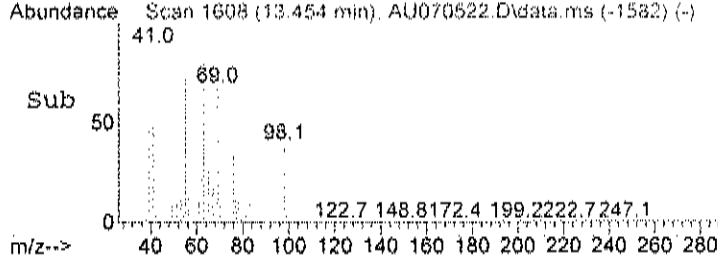
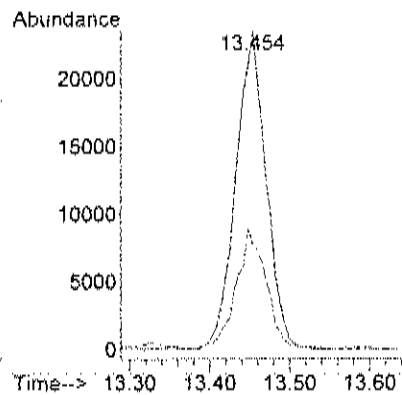
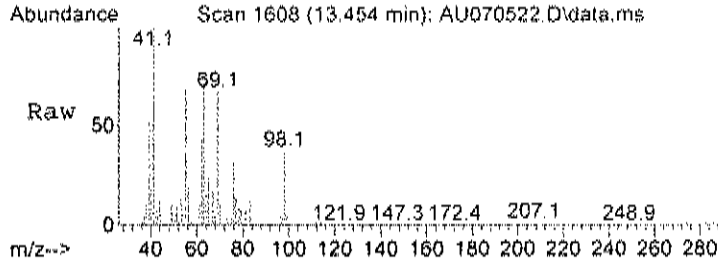
#39
Benzene
Concen: 0.44 ppb
RT: 12.093 min Scan# 1368
Delta R.T. -0.000 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

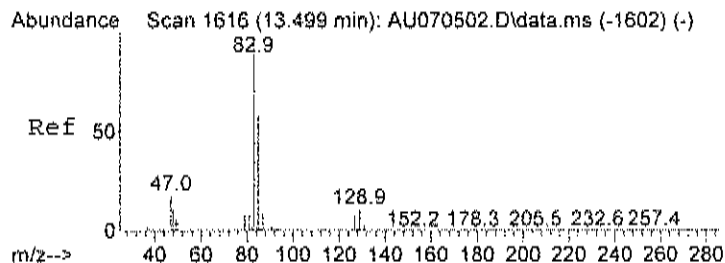
Tgt Ion:	78	Resp:	112006
Ion Ratio	Lower	Upper	
78	100		
77	26.0	3.8	43.8
51	22.1	0.0	35.4



#45
1,2-dichloropropane
Concen: 0.64 ppb
RT: 13.454 min Scan# 1608
Delta R.T. -0.000 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

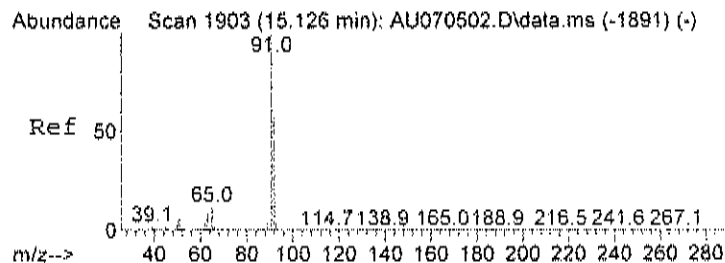
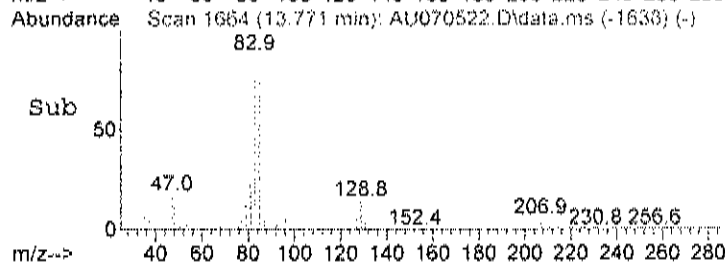
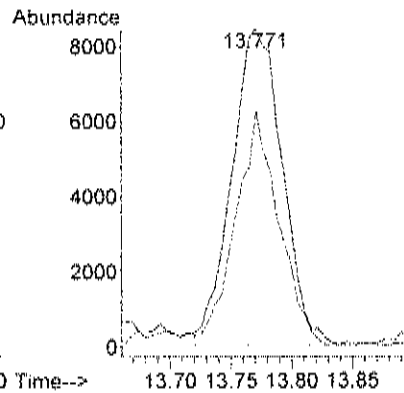
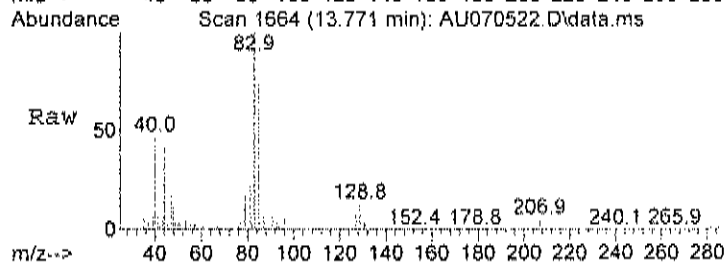
Tgt Ion:	63	Resp:	62104
Ion Ratio	Lower	Upper	
63	100		
65	37.9	11.5	51.5





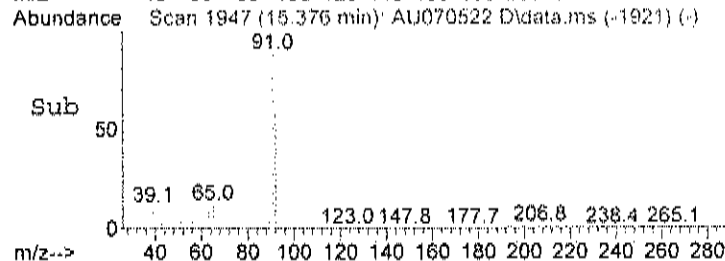
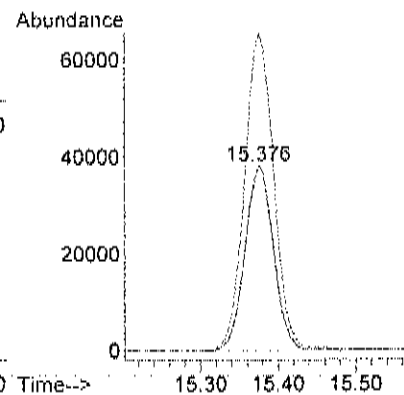
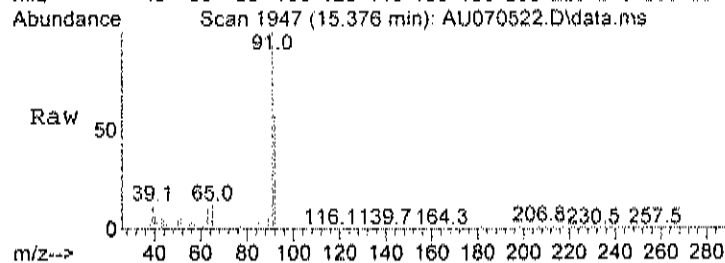
#46
Bromodichloromethane
Concen: 0.15 ppb
RT: 13.771 min Scan# 1664
Delta R.T. -0.000 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

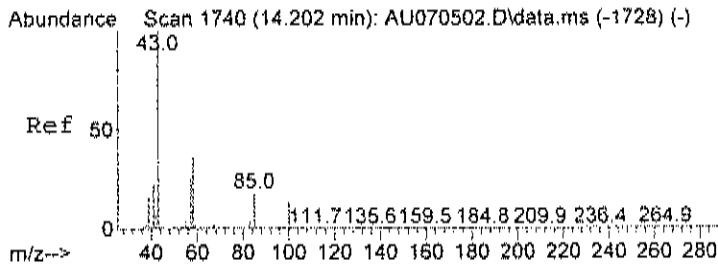
Tgt Ion	83	Resp	24363
Ion	Ratio	Lower	Upper
83	100		
85	64.6	43.2	83.2



#51
Toluene
Concen: 0.48 ppb
RT: 15.376 min Scan# 1947
Delta R.T. -0.000 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

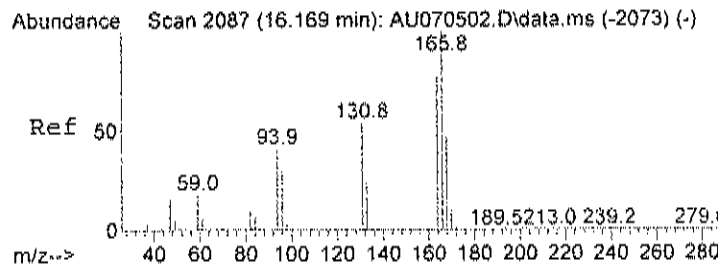
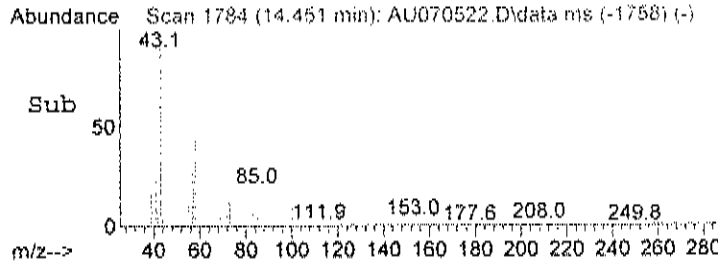
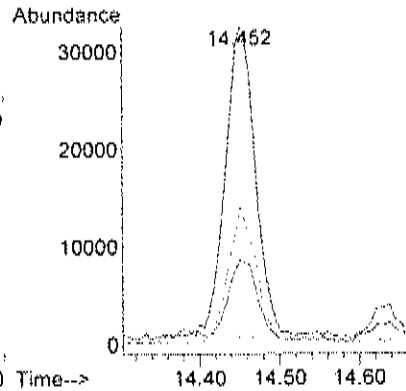
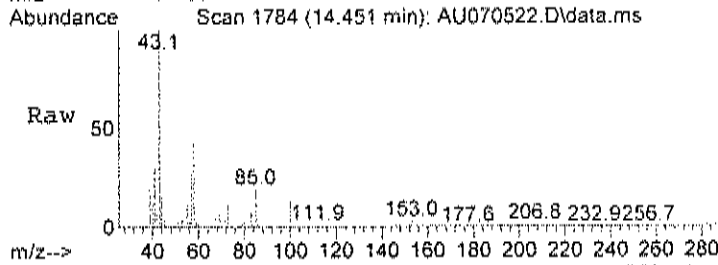
Tgt Ion	92	Resp	97697
Ion	Ratio	Lower	Upper
92	100		
91	176.1	150.4	190.4





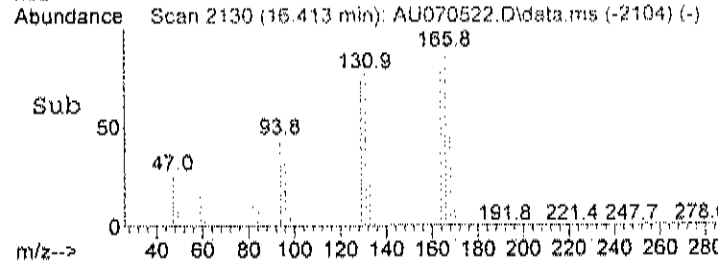
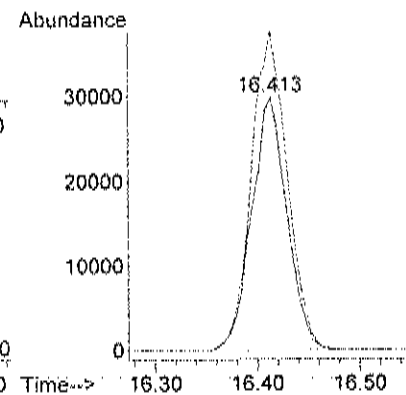
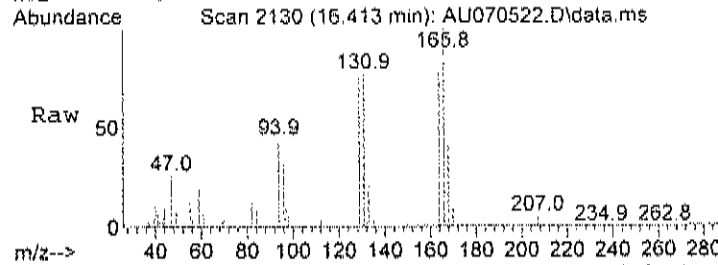
#52
Methyl Isobutyl Ketone
Concen: 0.30 ppb
RT: 14.451 min Scan# 1784
Delta R.T. -0.000 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

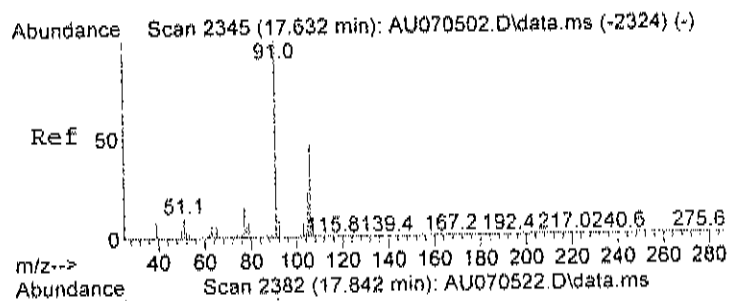
Tgt Ion: 43	Resp: 84105
Ion Ratio	Lower Upper
43 100	
57 27.8	7.9 47.9
58 42.1	24.7 64.7



#56
Tetrachloroethylene
Concen: 0.62 ppb
RT: 16.413 min Scan# 2130
Delta R.T. -0.000 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

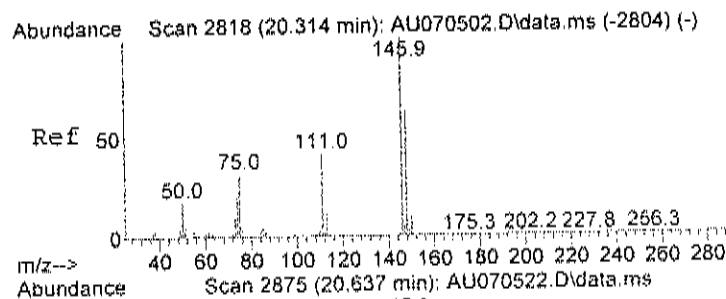
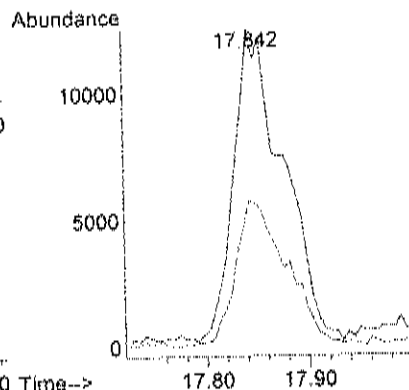
Tgt Ion: 164	Resp: 71522
Ion Ratio	Lower Upper
164 100	
166 128.1	107.9 147.9





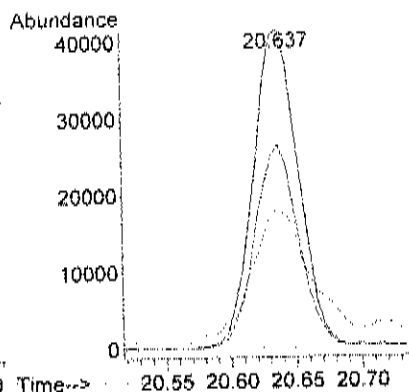
#59
m&p-xylene
Concen: 0.12 ppb
RT: 17.842 min Scan# 2382
Delta R.T. -0.023 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

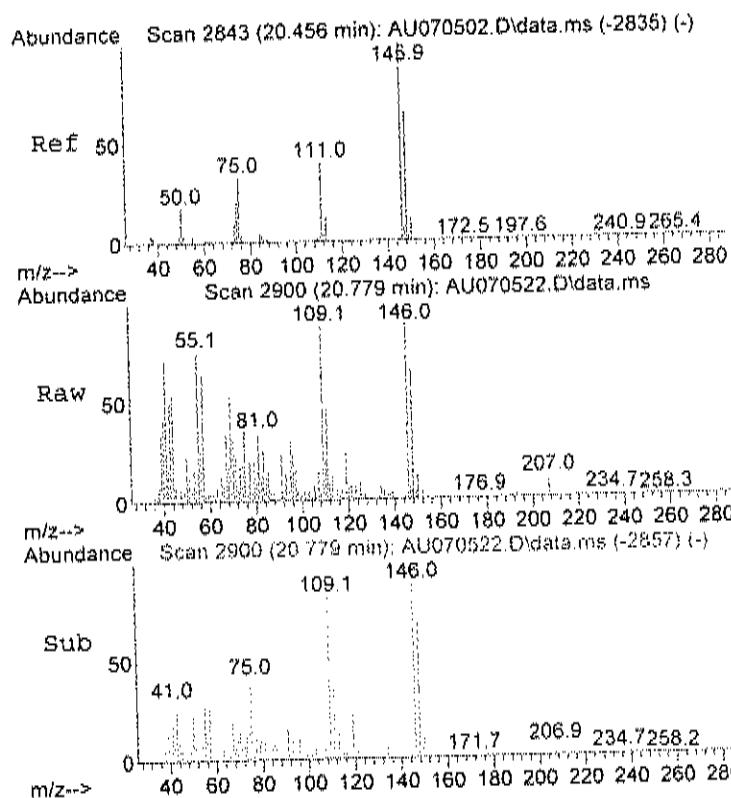
Tgt Ion: 91 Resp: 41912
Ion Ratio Lower Upper
91 100
106 47.7 32.1 72.1



#72
1,3-dichlorobenzene
Concen: 0.48 ppb m
RT: 20.637 min Scan# 2875
Delta R.T. 0.096 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

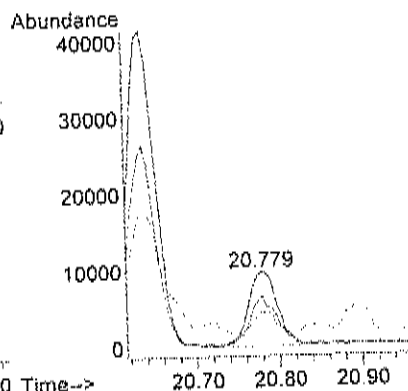
Tgt Ion: 146 Resp: 99215
Ion Ratio Lower Upper
146 100
148 60.9 40.1 80.1
111 50.1 18.8 58.8





#74
1,4-dichlorobenzene
Concen: 0.13 ppb m
RT: 20.779 min Scan# 2900
Delta R.T. 0.096 min
Lab File: AU070522.D
Acq: 5 Jul 2023 10:24 pm

Tgt Ion: 146 Resp: 25074
Ion Ratio Lower Upper
146 100
148 55.4 45.7 85.7
111 23.0 20.7 60.7



Data Path : C:\msdchem\1\data\
 Data File : AU070621.D
 Acq On : 6 Jul 2023 8:20 pm
 Operator : RJP
 Sample : C2307002-004A 10X
 Misc : A629_1UG
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 07 05:01:18 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

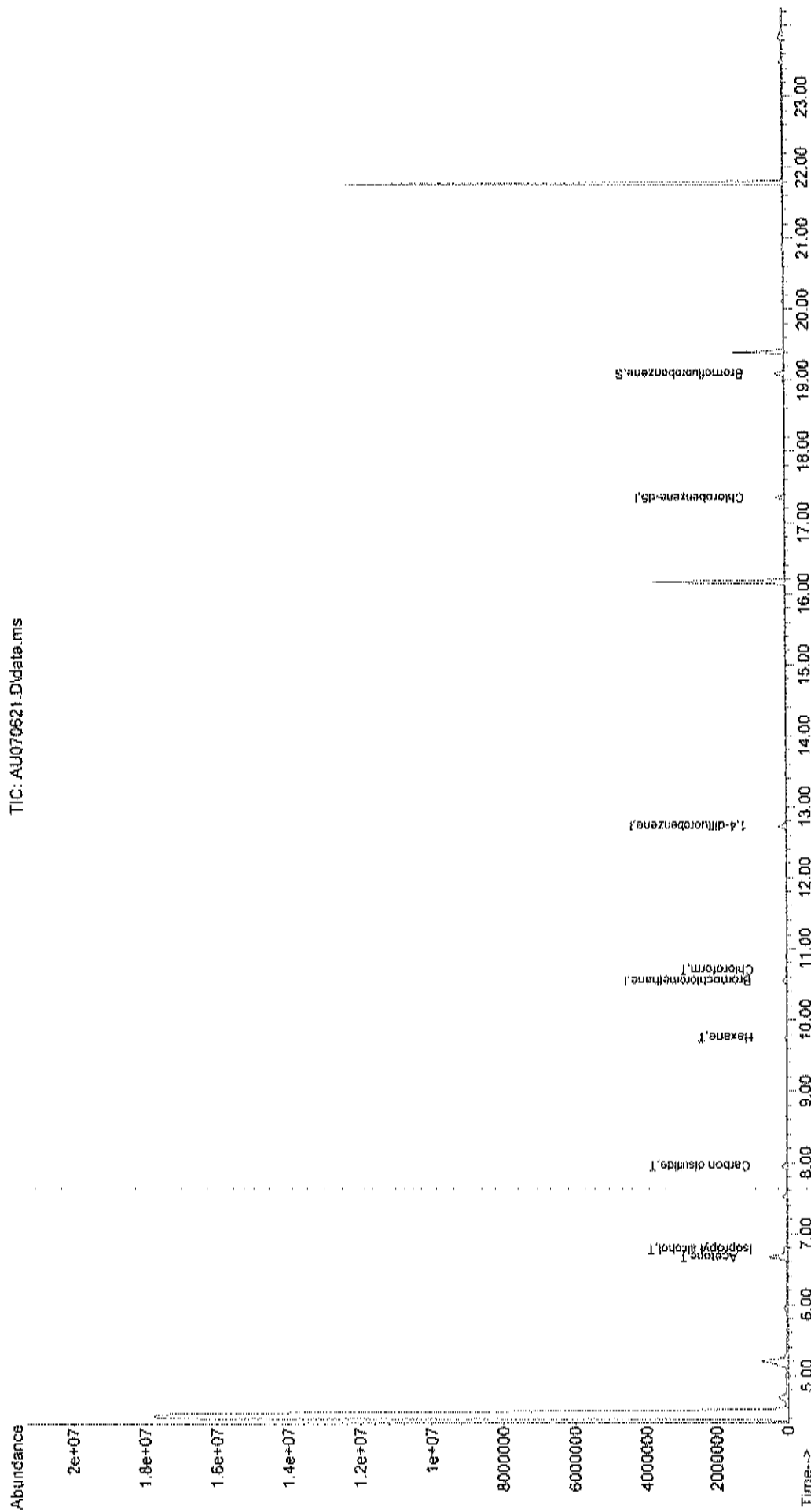
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

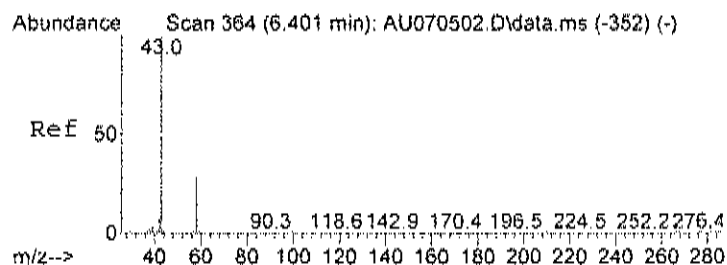
Internal Standards						
1) Bromochloromethane	10.551	128	54712	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.728	114	251021	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	214473	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	130475	0.81	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	81.00%
Target Compounds						
15) Acetone	6.673	58	358243m 0	5.55	ppb	Qvalue
17) Isopropyl alcohol	6.780	45	67646	0.40	ppb	# 1
23) Carbon disulfide	7.954	76	382893	1.33	ppb	100
30) Hexane	9.757	57	41986m 1	0.26	ppb	
32) Chloroform	10.704	83	47129	0.26	ppb	98

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

Data Path : C:\msdchem\1\data\
 Data File : AU070621.D
 Acq On : 6 Jul 2023 8:20 pm
 Operator : RJP
 Sample : C2307002-004A 10X
 Misc : A629_1UG
 AIS Vial : 17 Sample Multiplier: 1

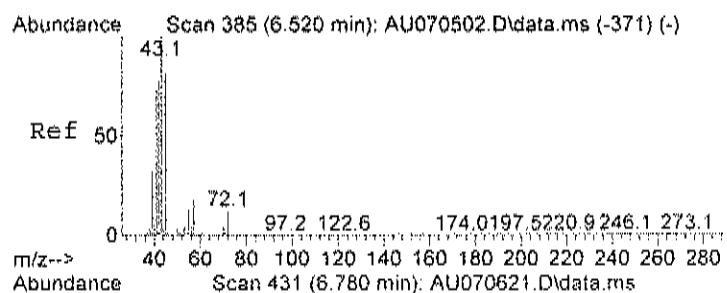
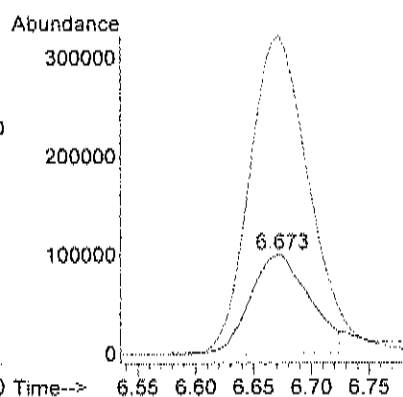
Quant Time: Jul 07 05:01:18 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





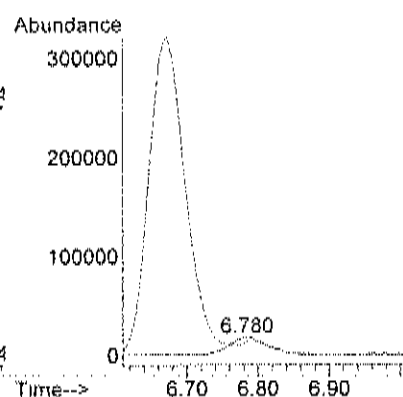
#15
Acetone
Concen: 5.55 ppb m
RT: 6.673 min Scan# 412
Delta R.T. 0.006 min
Lab File: AU070621.D
Acq: 6 Jul 2023 8:20 pm

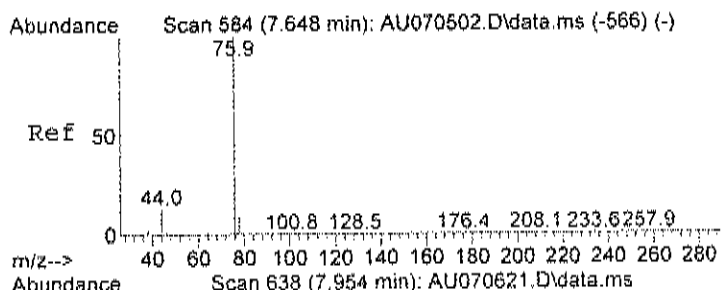
Tgt Ion:	58	Resp:	358243
Ion Ratio	Lower	Upper	
58	100		
43	332.6	224.5	284.5#



#17
Isopropyl alcohol
Concen: 0.40 ppb
RT: 6.780 min Scan# 431
Delta R.T. -0.006 min
Lab File: AU070621.D
Acq: 6 Jul 2023 8:20 pm

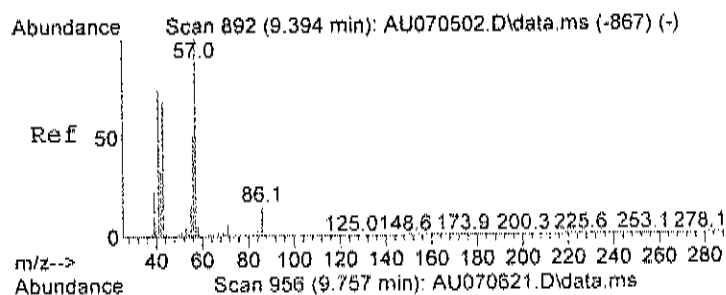
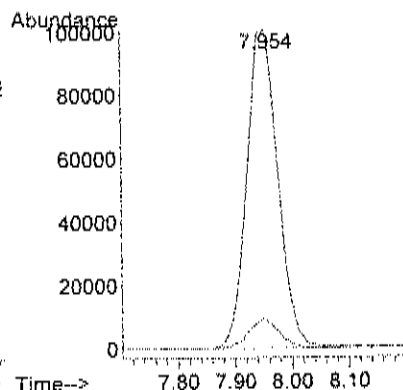
Tgt Ion:	45	Resp:	67646
Ion Ratio	Lower	Upper	
45	100		
43	0.0	110.3	150.3#





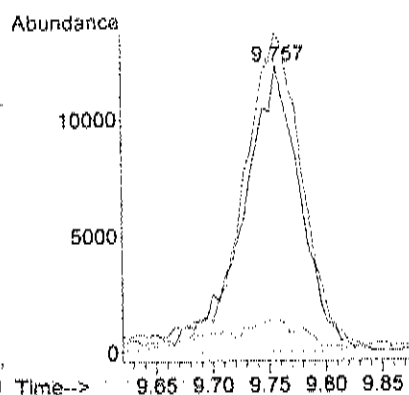
#23
Carbon disulfide
Concen: 1.33 ppb
RT: 7.954 min Scan# 638
Delta R.T. 0.006 min
Lab File: AU070621.D
Acq: 6 Jul 2023 8:20 pm

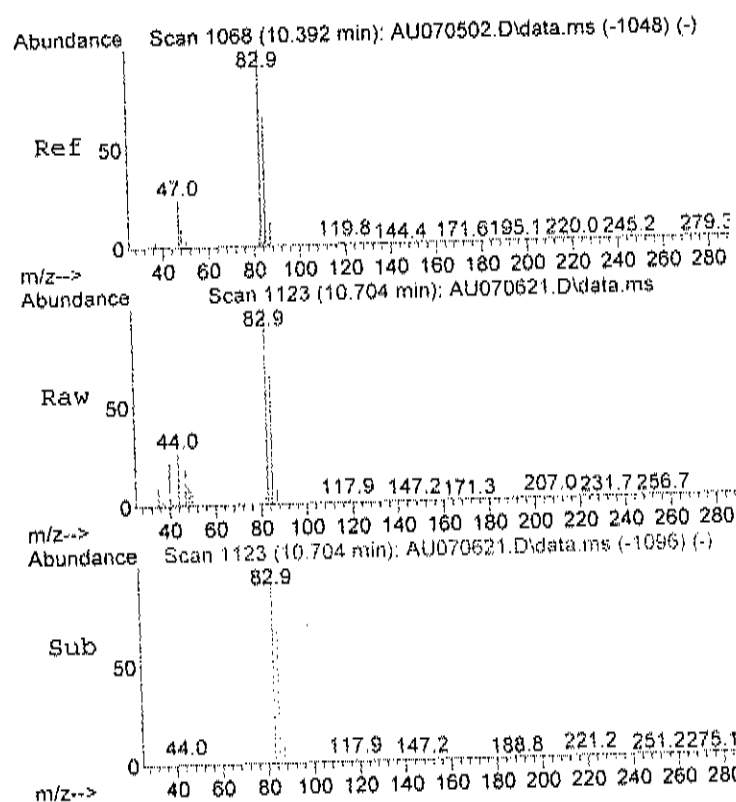
Tgt Ion	76	Resp	382893
Ion	Ratio	Lower	Upper
76	100		
78	9.1	0.0	29.3



#30
Hexane
Concen: 0.26 ppb m
RT: 9.757 min Scan# 956
Delta R.T. 0.062 min
Lab File: AU070621.D
Acq: 6 Jul 2023 8:20 pm

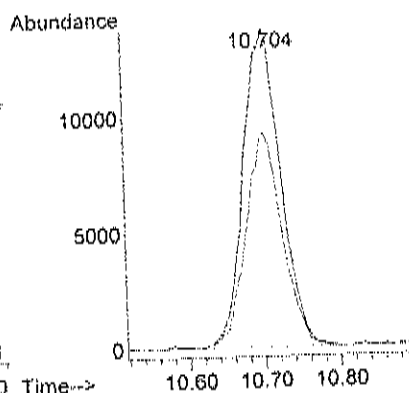
Tgt Ion	57	Resp	41986
Ion	Ratio	Lower	Upper
57	100		
41	112.1	37.3	77.3#
56	9.7	24.8	64.8#





#32
Chloroform
Concen: 0.26 ppb
RT: 10.704 min Scan# 1123
Delta R.T. 0.006 min
Lab File: AU070621.D
Acq: 6 Jul 2023 8:20 pm

Tgt Ion	83	Resp	47129
Ion	Ratio	Lower	Upper
83	100		
85	66.4	44.6	84.6



Data Path : C:\msdchem\1\data\
Data File : AU070622.D
Acq On : 6 Jul 2023 9:03 pm
Operator : RJP
Sample : C2307002-004A 40X
Misc : A629_1UG
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 07 05:01:38 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

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

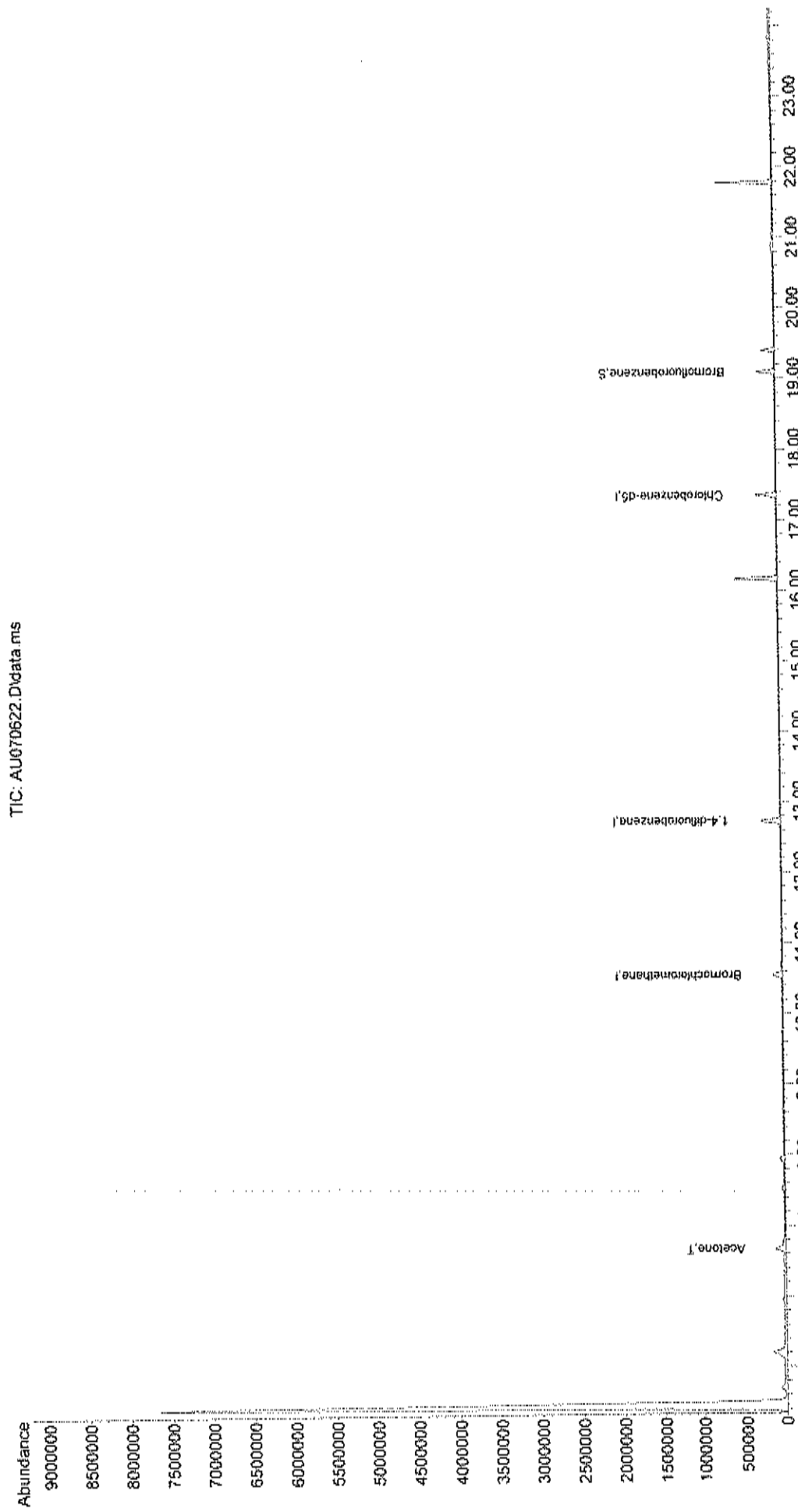
Internal Standards						
1) Bromochloromethane	10.545	128	57080	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.728	114	287828	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	211933	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.089	95	111806	0.70	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	70.00%
Target Compounds						
15) Acetone	6.673	58	83575m <i>N</i>	1.24	ppb	Qvalue

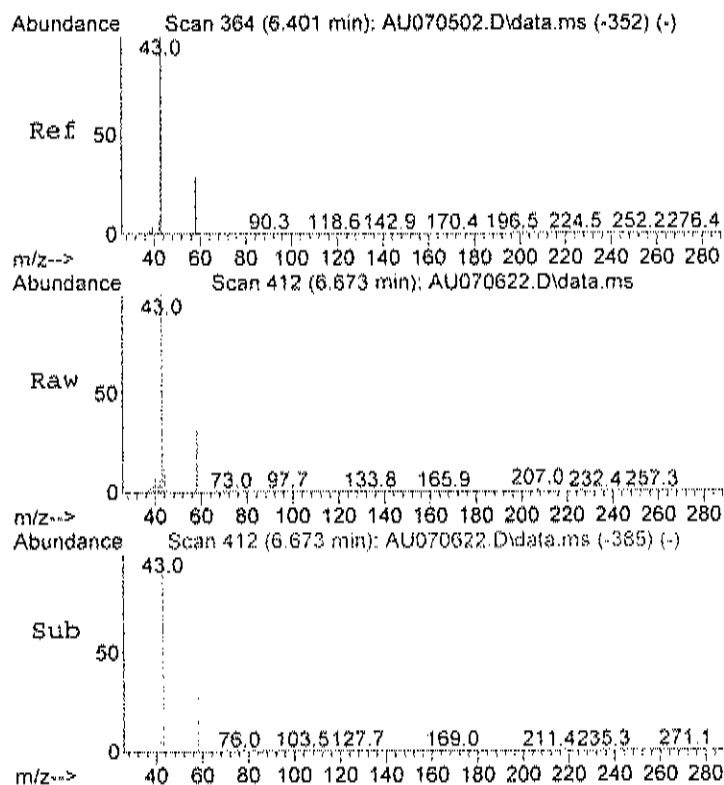
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : AU070622.D
 Acq On : 6 Jul 2023 9:03 pm
 Operator : RJP
 Sample : C2307002-004A 40X
 Misc : A629 IUG
 ALS Vial : 18 Sample Multiplier: 1

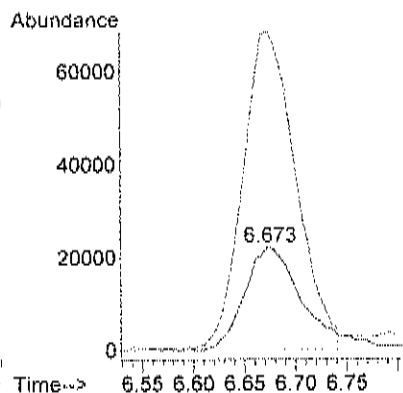
Quant Time: Jul 07 05:01:38 2023
 Quant Method : C:\msdchem\1\methods\A629_IUG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





#15
Acetone
Concen: 1.24 ppb m
RT: 6.673 min Scan# 412
Delta R.T. 0.006 min
Lab File: AU070622.D
Acq: 6 Jul 2023 9:03 pm

Tgt Ion	58	Resp	83575
Ion	Ratio	Lower	Upper
58	100		
43	306.3	224.5	284.5#



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-005A

Client Sample ID: SVW-4
 Tag Number: 367.172
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST						
			GC			Analyst: RJP
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,4-Dichlorobenzene	0.66	0.15		ppbV	1	7/5/2023 11:08:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 11:08:00 PM
2,2,4-trimethylpentane	0.92	0.15		ppbV	1	7/5/2023 11:08:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Acetone	15	3.0		ppbV	10	7/6/2023 9:46:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Benzene	0.53	0.15		ppbV	1	7/5/2023 11:08:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Carbon disulfide	10	1.5		ppbV	10	7/6/2023 9:46:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Chlorobenzene	0.71	0.15		ppbV	1	7/5/2023 11:08:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Chloroform	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Cyclohexane	0.52	0.15		ppbV	1	7/5/2023 11:08:00 PM

Qualifiers: Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 9 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-4

Lab Order: C2307002

Tag Number: 367,172

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-005A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Ethyl acetate	0.27	0.15		ppbV	1	7/5/2023 11:08:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Freon 11	0.54	0.15		ppbV	1	7/5/2023 11:08:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Freon 12	0.81	0.15		ppbV	1	7/5/2023 11:08:00 PM
Heptane	0.13	0.15	J	ppbV	1	7/5/2023 11:08:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Hexane	0.32	0.15		ppbV	1	7/5/2023 11:08:00 PM
Isopropyl alcohol	4.3	1.5		ppbV	10	7/6/2023 9:46:00 PM
m&p-Xylene	0.25	0.30	J	ppbV	1	7/5/2023 11:08:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 11:08:00 PM
Methyl Ethyl Ketone	0.79	0.30		ppbV	1	7/5/2023 11:08:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 11:08:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Methylene chloride	0.23	0.15		ppbV	1	7/5/2023 11:08:00 PM
o-Xylene	0.14	0.15	J	ppbV	1	7/5/2023 11:08:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Tetrachloroethylene	0.14	0.15	J	ppbV	1	7/5/2023 11:08:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Toluene	1.4	0.15		ppbV	1	7/5/2023 11:08:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:08:00 PM
Surr: Bromofluorobenzene	107	70-130		%REC	1	7/5/2023 11:08:00 PM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 10 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-4

Lab Order: C2307002

Tag Number: 367.172

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-005A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 11:08:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 11:08:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 11:08:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 11:08:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:08:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 11:08:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 11:08:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 11:08:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 11:08:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 11:08:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 11:08:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 11:08:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 11:08:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 11:08:00 PM
1,4-Dichlorobenzene	4.0	0.90		ug/m3	1	7/5/2023 11:08:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 11:08:00 PM
2,2,4-trimethylpentane	4.3	0.70		ug/m3	1	7/5/2023 11:08:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 11:08:00 PM
Acetone	36	7.1		ug/m3	10	7/6/2023 9:46:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 11:08:00 PM
Benzene	1.7	0.48		ug/m3	1	7/5/2023 11:08:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 11:08:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 11:08:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 11:08:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 11:08:00 PM
Carbon disulfide	33	4.7		ug/m3	10	7/6/2023 9:46:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 11:08:00 PM
Chlorobenzene	3.3	0.69		ug/m3	1	7/5/2023 11:08:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 11:08:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	7/5/2023 11:08:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	7/5/2023 11:08:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:08:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 11:08:00 PM
Cyclohexane	1.8	0.52		ug/m3	1	7/5/2023 11:08:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 11:08:00 PM
Ethyl acetate	0.97	0.54		ug/m3	1	7/5/2023 11:08:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 11:08:00 PM
Freon 11	3.0	0.84		ug/m3	1	7/5/2023 11:08:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 11:08:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 11:08:00 PM

Qualifiers: Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 9 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-4

Lab Order: C2307002

Tag Number: 367.172

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-005A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	4.0	0.74		ug/m3	1	7/5/2023 11:08:00 PM
Heptane	0.53	0.61	J	ug/m3	1	7/5/2023 11:08:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 11:08:00 PM
Hexane	1.1	0.53		ug/m3	1	7/5/2023 11:08:00 PM
Isopropyl alcohol	11	3.7		ug/m3	10	7/6/2023 9:46:00 PM
m&p-Xylene	1.1	1.3	J	ug/m3	1	7/5/2023 11:08:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 11:08:00 PM
Methyl Ethyl Ketone	2.3	0.88		ug/m3	1	7/5/2023 11:08:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 11:08:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 11:08:00 PM
Methylene chloride	0.80	0.52		ug/m3	1	7/5/2023 11:08:00 PM
o-Xylene	0.61	0.65	J	ug/m3	1	7/5/2023 11:08:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 11:08:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 11:08:00 PM
Tetrachloroethylene	0.95	1.0	J	ug/m3	1	7/5/2023 11:08:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 11:08:00 PM
Toluene	5.2	0.57		ug/m3	1	7/5/2023 11:08:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:08:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 11:08:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 11:08:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 11:08:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 11:08:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 11:08:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Data Path : C:\msdchem\1\data\
 Data File : AU070523.D
 Acq On : 5 Jul 2023 11:08 pm
 Operator : RJP
 Sample : C2307002-005A
 Misc : A629_1UG
 ALS Vial : 11 Sample Multiplier: 1

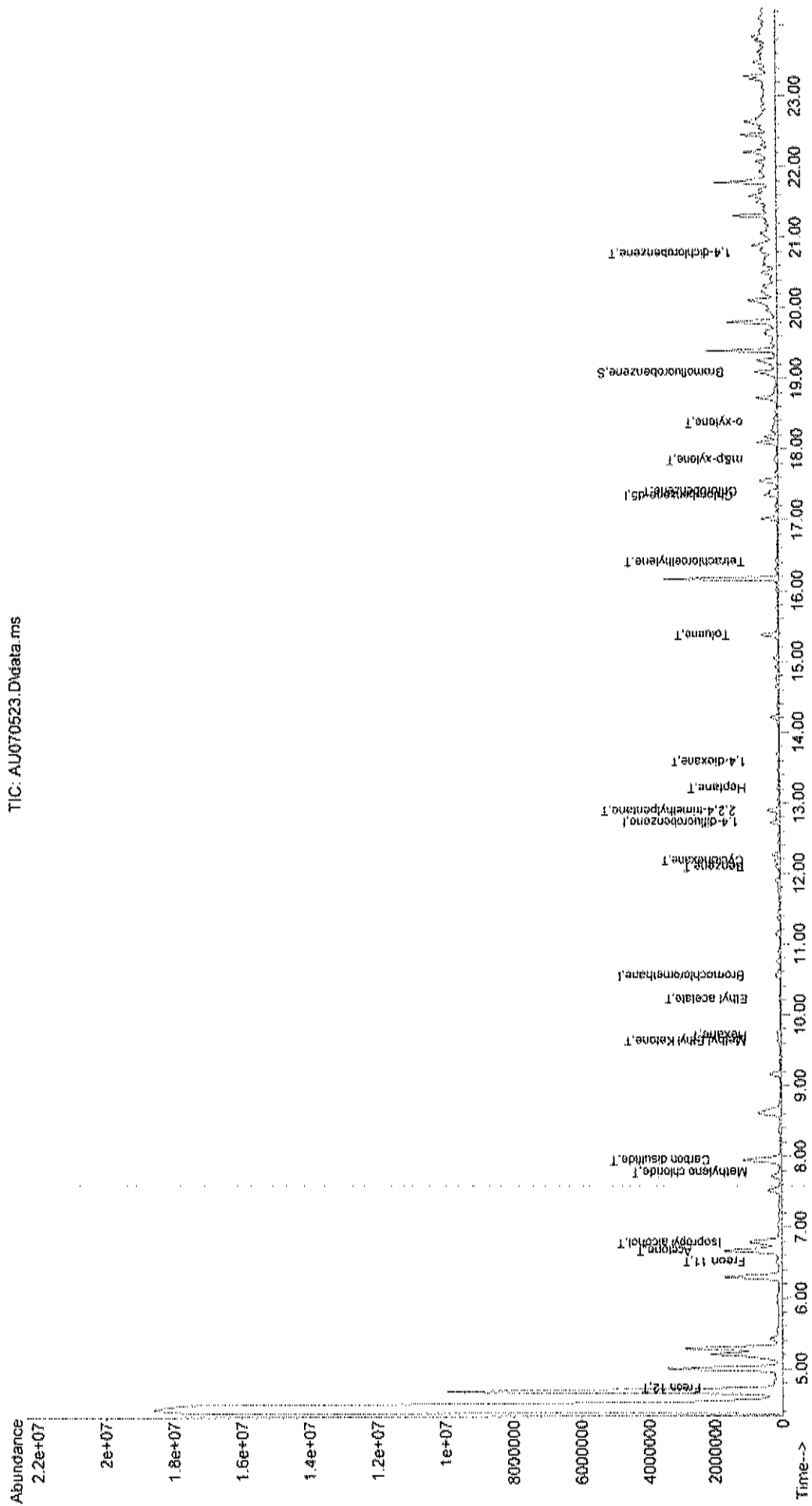
Quant Time: Jul 06 07:55:35 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

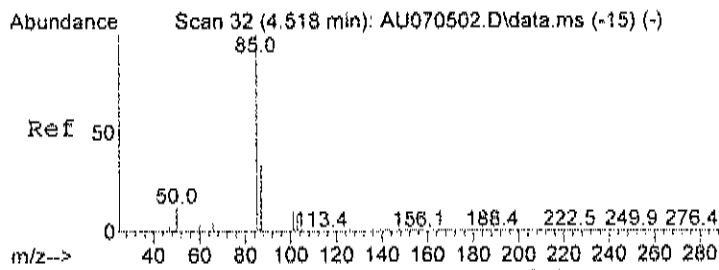
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.551	128	61732	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.728	114	319994	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	295035	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.089	95	237755	1.07	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	107.00%
Target Compounds						
						Qvalue
3) Freon 12	4.734	85	206862	0.81	ppb	99
14) Freon 11	6.520	101	138631	0.54	ppb	99
15) Acetone	6.673	58	1170760m	16.06	ppb	
17) Isopropyl alcohol	6.780	45	908991	4.81	ppb	# 1
21) Methylene chloride	7.784	84	36094	0.23	ppb	96
23) Carbon disulfide	7.954	76	3129390	9.63	ppb	99
28) Methyl Ethyl Ketone	9.632	72	45983	0.79	ppb	# 91
30) Hexane	9.706	57	58286m	0.32	ppb	
31) Ethyl acetate	10.222	43	69656	0.27	ppb	94
37) Cyclohexane	12.184	56	77225m	0.52	ppb	
39) Benzene	12.093	78	143619	0.53	ppb	90
41) 1,4-dioxane	13.584	88	9308	0.13	ppb	# 34
42) 2,2,4-trimethylpentane	12.892	57	428829	0.92	ppb	84
43) Heptane	13.210	43	22589m	0.13	ppb	
51) Toluene	15.376	92	287652	1.39	ppb	99
56) Tetrachloroethylene	16.408	164	16251	0.14	ppb	99
57) Chlorobenzene	17.406	112	183429	0.71	ppb	94
59) m&p-xylene	17.848	91	89078	0.25	ppb	94
63) o-xylene	18.375	91	50490m	0.14	ppb	
74) 1,4-dichlorobenzene	20.779	146	132130m	0.66	ppb	

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

Data Path : C:\msdchem\1\data\
Data File : AU070523.D
Acq On : 5 Jul 2023 11:08 pm
Operator : RJP
Sample : C2307002-005A
Misc : A629_1UG
ALS Vial : 11 Sample Multiplier: 1

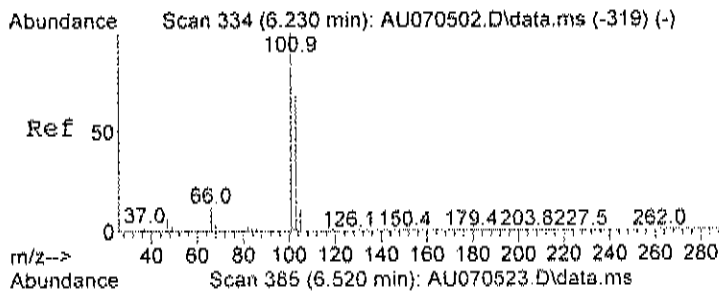
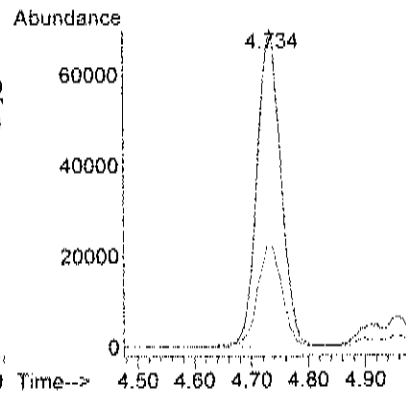
Quant Time: Jul 06 07:55:35 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration





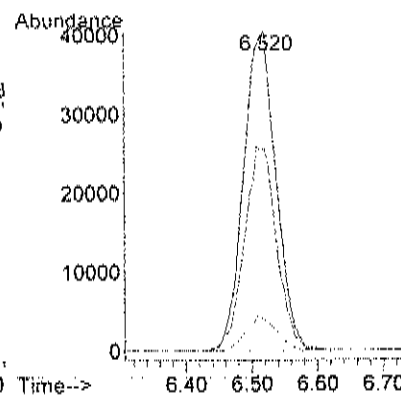
#3
Freon 12
Concen: 0.81 ppb
RT: 4.734 min Scan# 70
Delta R.T. 0.000 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

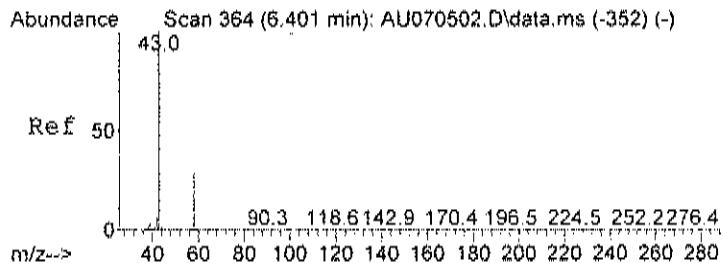
Tgt Ion	85	Resp	206862
Ion Ratio	Lower	Upper	
85	100		
87	32.6	13.4	53.4



#14
Freon 11
Concen: 0.54 ppb
RT: 6.520 min Scan# 385
Delta R.T. 0.017 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

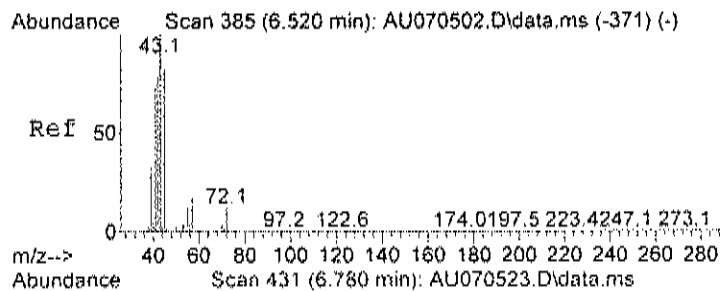
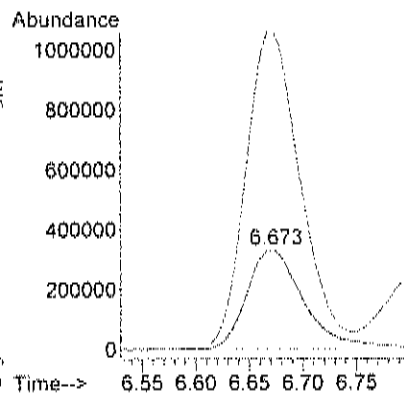
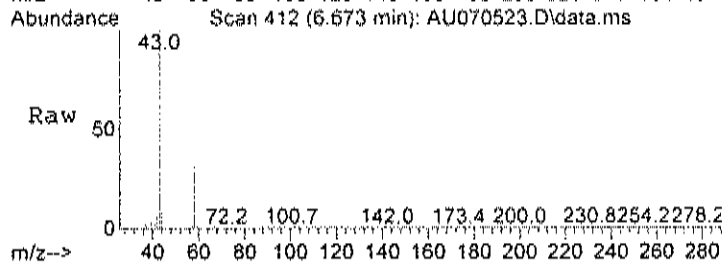
Tgt Ion	101	Resp	138631
Ion Ratio	Lower	Upper	
101	100		
103	63.3	44.0	84.0
105	10.5	0.0	31.4





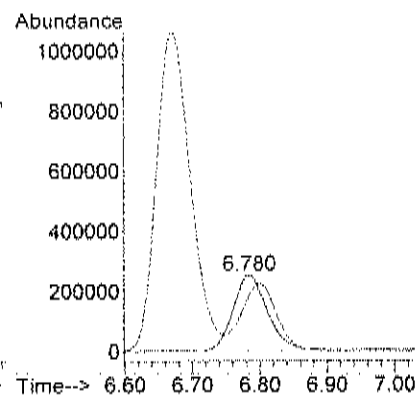
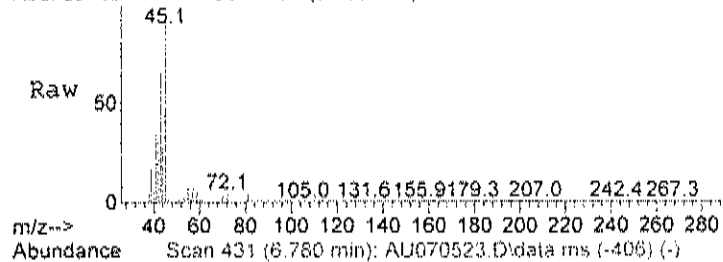
#15
Acetone
Concen: 16.06 ppb m
RT: 6.673 min Scan# 412
Delta R.T. 0.006 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

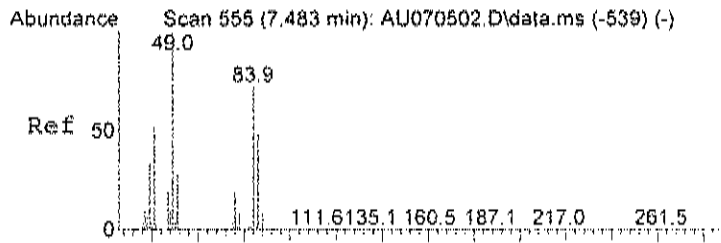
Tgt Ion:	58	Resp:	1170760
Ion	Ratio	Lower	Upper
58	100		
43	362.6	224.5	284.5#



#17
Isopropyl alcohol
Concen: 4.81 ppb
RT: 6.780 min Scan# 431
Delta R.T. -0.006 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

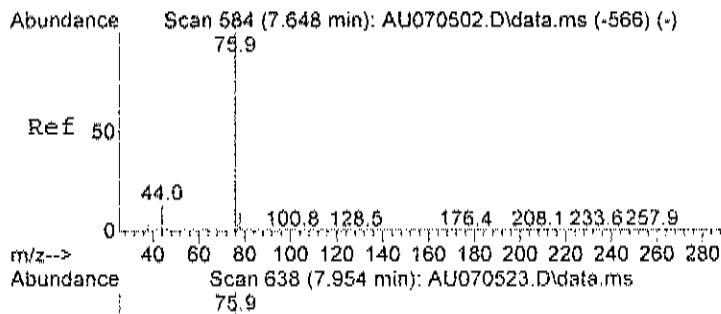
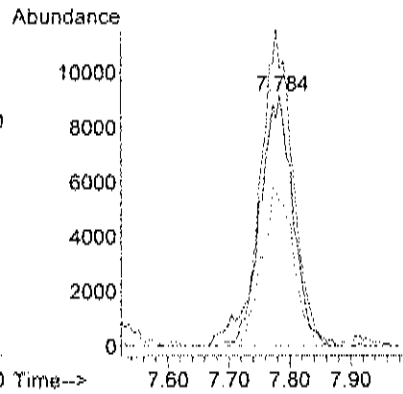
Tgt Ion:	45	Resp:	908991
Ion	Ratio	Lower	Upper
45	100		
43	0.0	110.3	150.3#





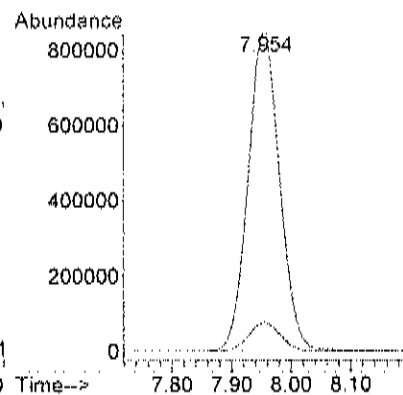
#21
Methylene chloride
Concen: 0.23 ppb
RT: 7.784 min Scan# 608
Delta R.T. 0.011 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

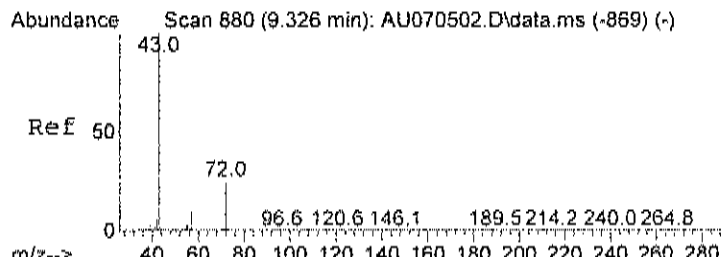
Tgt Ion	Ratio	Lower	Upper
84	100		
49	115.9	93.0	133.0
86	58.4	43.7	83.7



#23
Carbon disulfide
Concen: 9.63 ppb
RT: 7.954 min Scan# 638
Delta R.T. 0.006 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

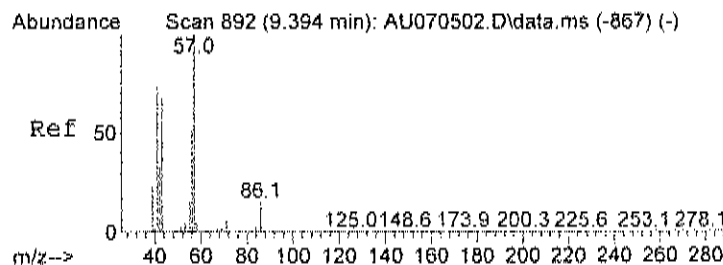
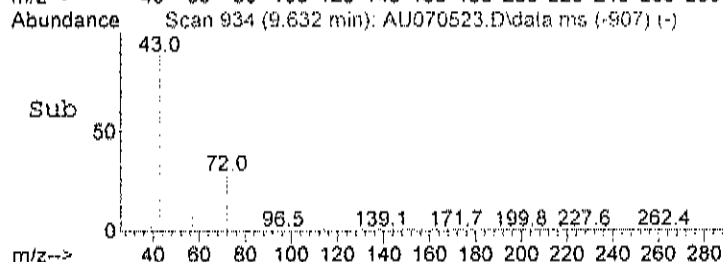
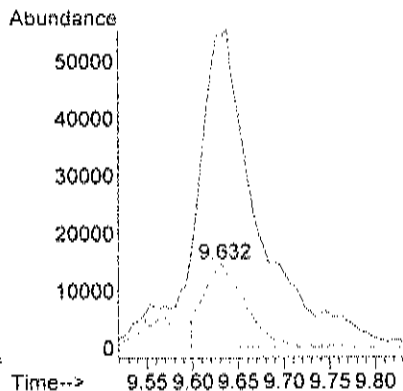
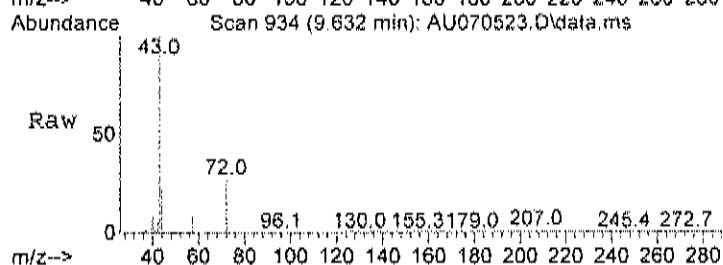
Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.1	0.0	29.3





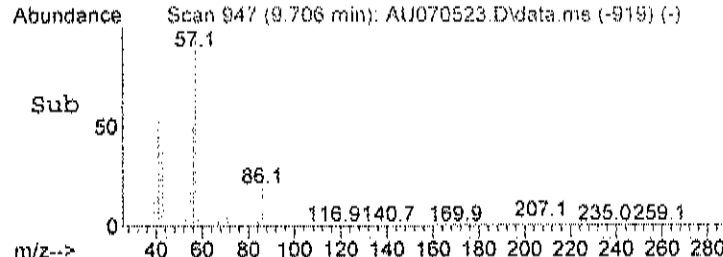
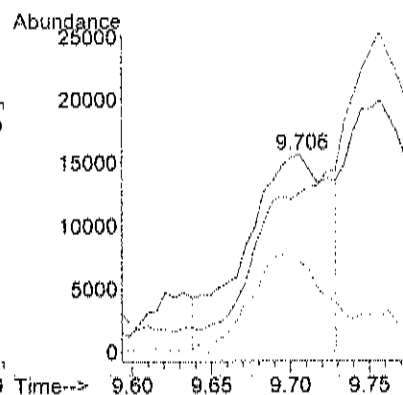
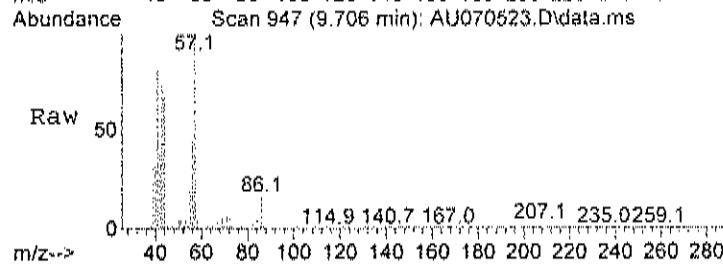
#28
Methyl Ethyl Ketone
Concen: 0.79 ppb
RT: 9.632 min Scan# 934
Delta R.T. 0.006 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

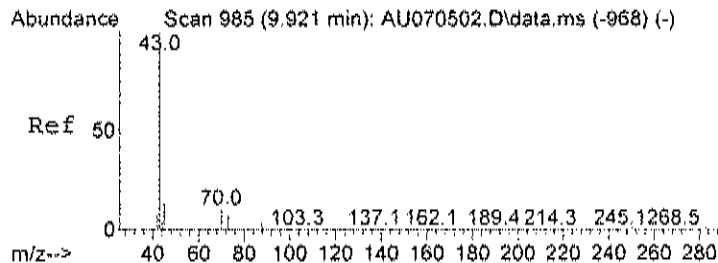
Tgt Ion: 72	Resp: 45983
Ion Ratio	Lower Upper
72 100	
43 383.0	389.0 429.0#
72 100.0	80.0 120.0



#30
Hexane
Concen: 0.32 ppb m
RT: 9.706 min Scan# 947
Delta R.T. 0.011 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

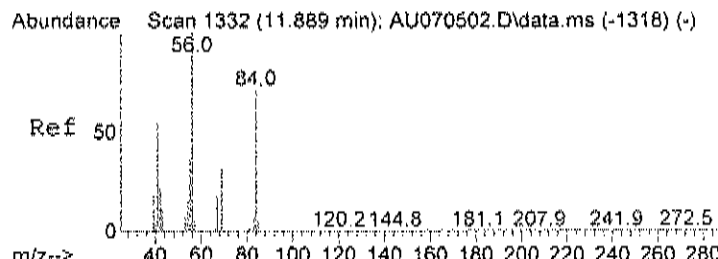
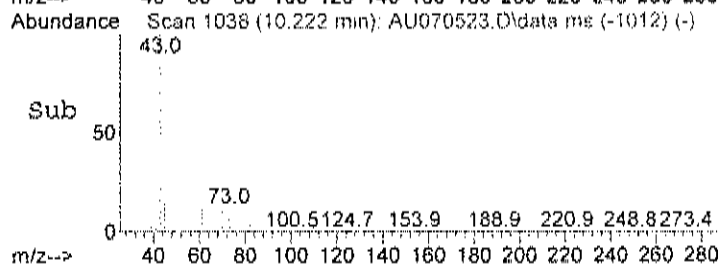
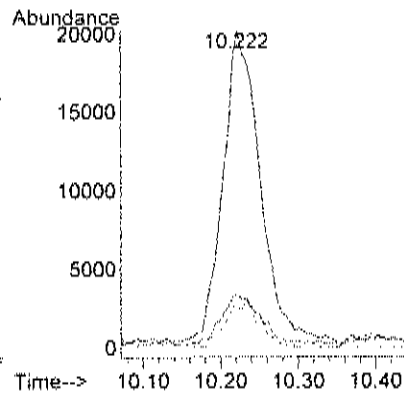
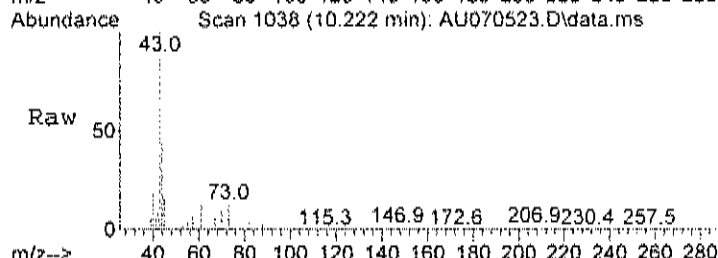
Tgt Ion: 57	Resp: 58286
Ion Ratio	Lower Upper
57 100	
41 199.9	37.3 77.3#
56 0.0	24.8 64.8#





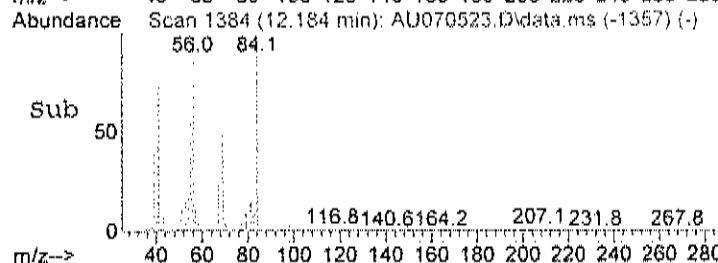
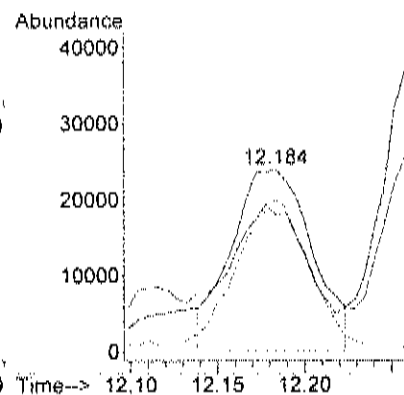
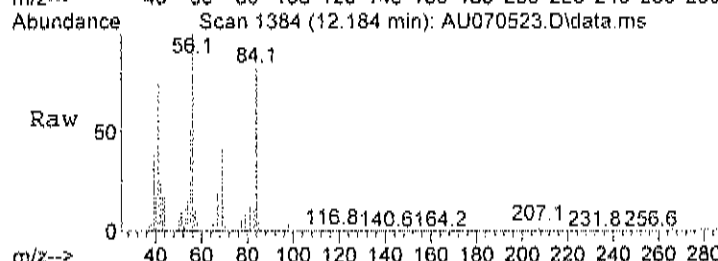
#31
Ethyl acetate
Concen: 0.27 ppb
RT: 10.222 min Scan# 1038
Delta R.T. 0.000 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

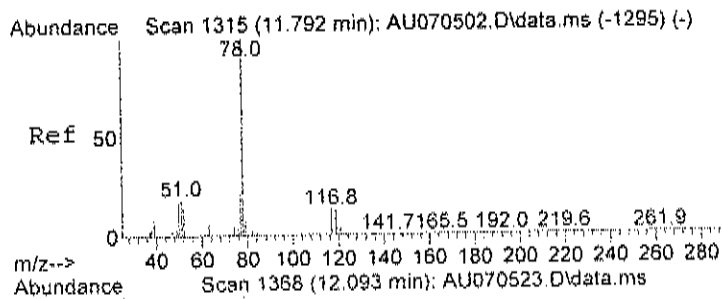
Tgt Ion:	43	Resp:	69656
Ion	Ratio	Lower	Upper
43	100		
45	16.9	0.0	35.3
61	13.6	0.0	37.0



#37
Cyclohexane
Concen: 0.52 ppb m
RT: 12.184 min Scan# 1384
Delta R.T. 0.006 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

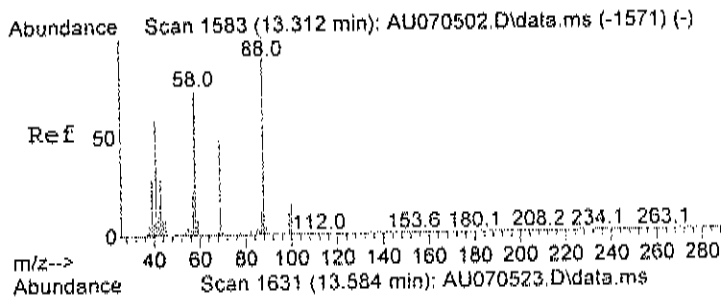
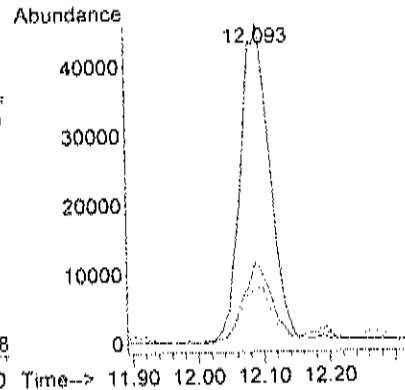
Tgt Ion:	56	Resp:	77225
Ion	Ratio	Lower	Upper
56	100		
41	98.6	28.1	68.1#
84	73.7	85.3	125.3#





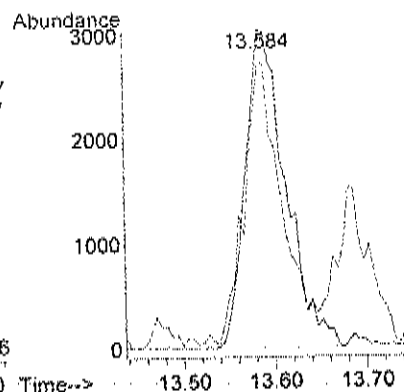
#39
Benzene
Concen: 0.53 ppb
RT: 12.093 min Scan# 1368
Delta R.T. 0.000 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

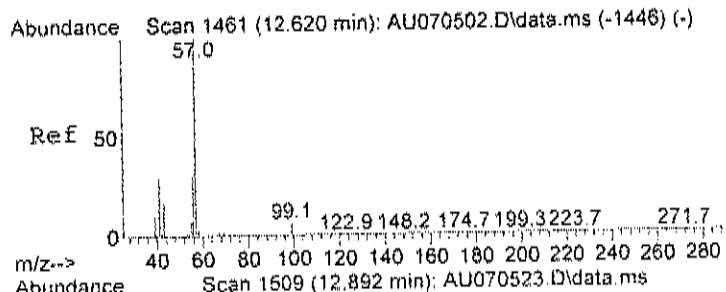
Tgt Ion	78	77	51
Ratio	100	27.3	21.6
Lower		3.8	0.0
Upper		43.8	35.4



#41
1,4-dioxane
Concen: 0.13 ppb
RT: 13.584 min Scan# 1631
Delta R.T. 0.000 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

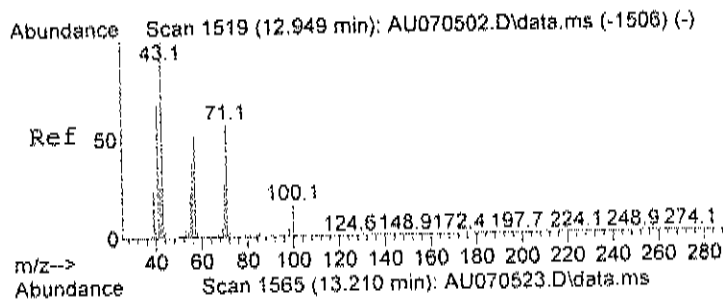
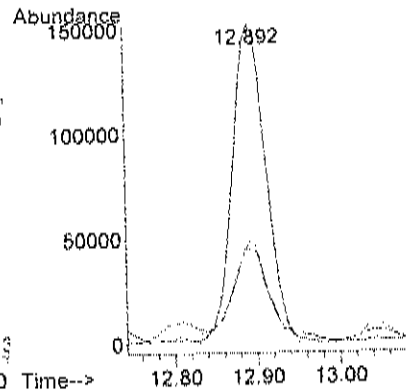
Tgt Ion	88	58
Ratio <td>100</td> <td>119.4</td>	100	119.4
Lower <td></td> <td>46.5</td>		46.5
Upper <td></td> <td>86.5#</td>		86.5#





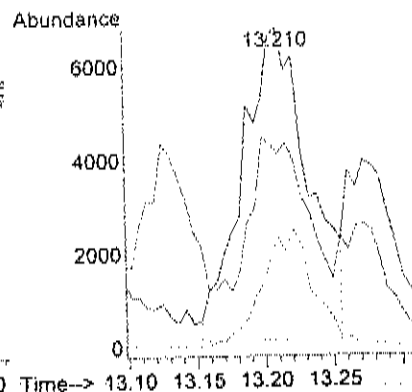
#42
2,2,4-trimethylpentane
Concen: 0.92 ppb
RT: 12.892 min Scan# 1509
Delta R.T. 0.000 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

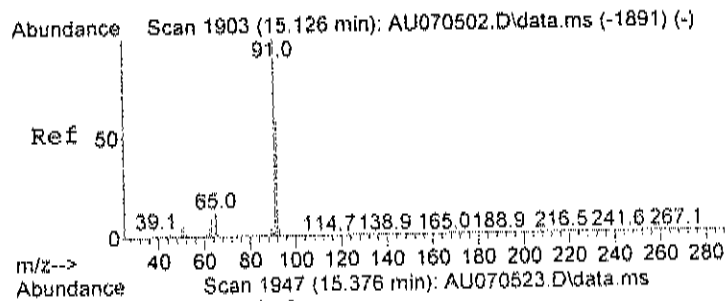
Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.1	1.7	41.7
56	37.2	10.7	50.7



#43
Heptane
Concen: 0.13 ppb m
RT: 13.210 min Scan# 1565
Delta R.T. -0.006 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

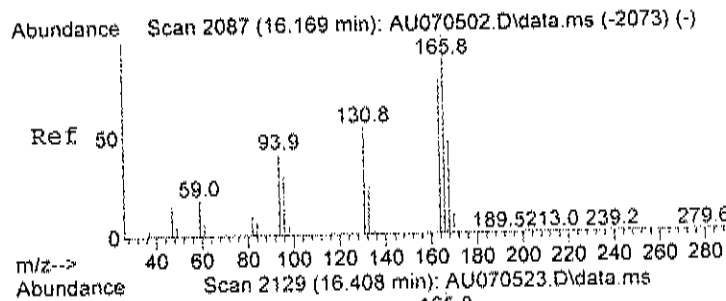
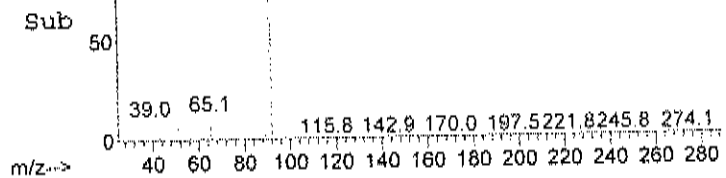
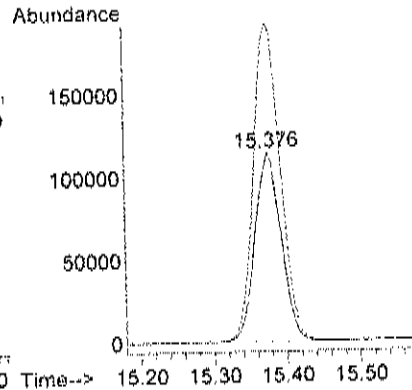
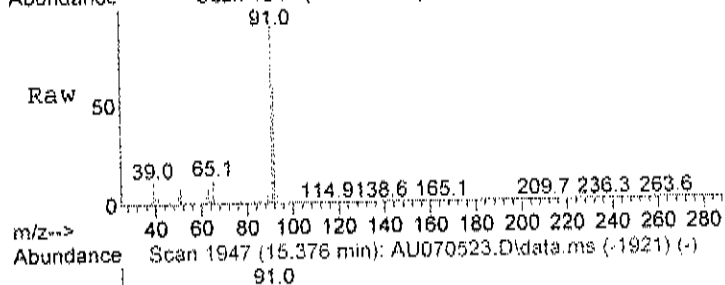
Tgt Ion	Ratio	Lower	Upper
43	100		
57	78.8	40.9	80.9
71	28.7	51.1	91.1#





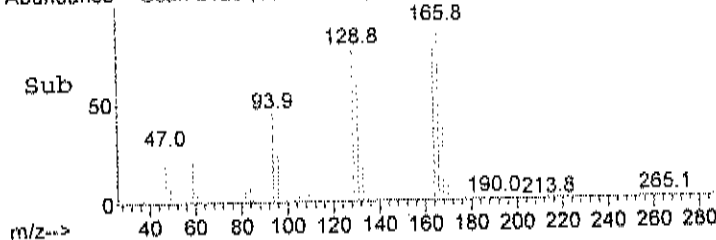
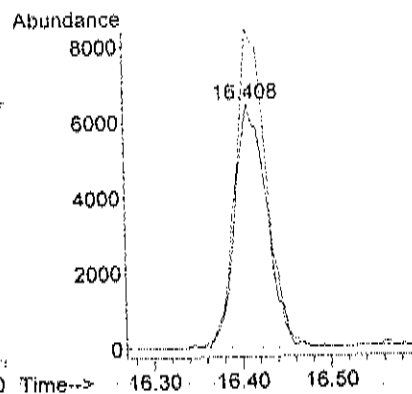
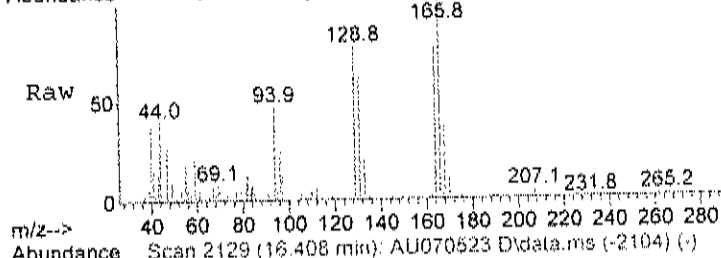
#51
Toluene
Concen: 1.39 ppb
RT: 15.376 min Scan# 1947
Delta R.T. 0.000 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

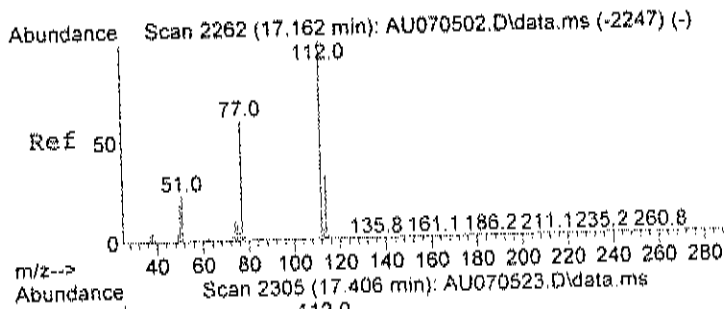
Tgt Ion	92	Resp	287652
Ion	Ratio	Lower	Upper
92	100		
91	172.2	150.4	190.4



#56
Tetrachloroethylene
Concen: 0.14 ppb
RT: 16.408 min Scan# 2129
Delta R.T. -0.006 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

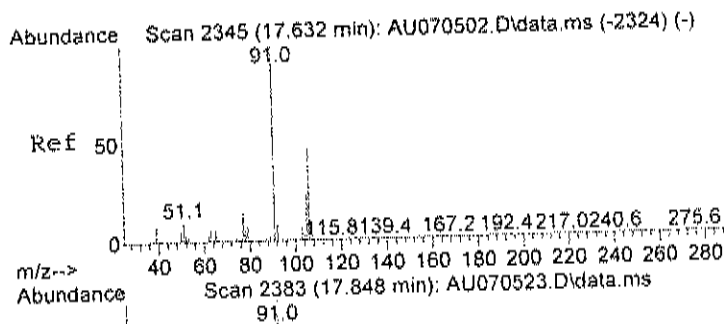
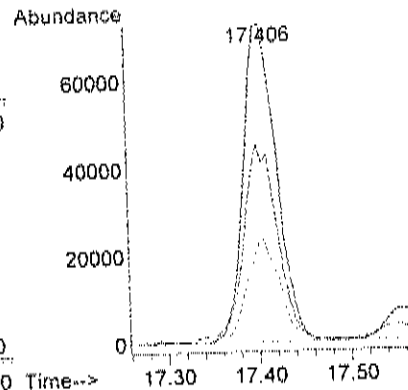
Tgt Ion	164	Resp	16251
Ion	Ratio	Lower	Upper
164	100		
166	126.6	107.9	147.9





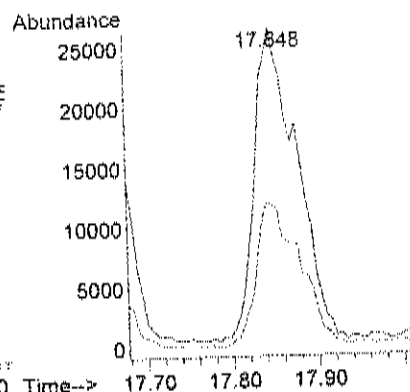
#57
Chlorobenzene
Concen: 0.71 ppb
RT: 17.406 min Scan# 2305
Delta R.T. 0.000 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

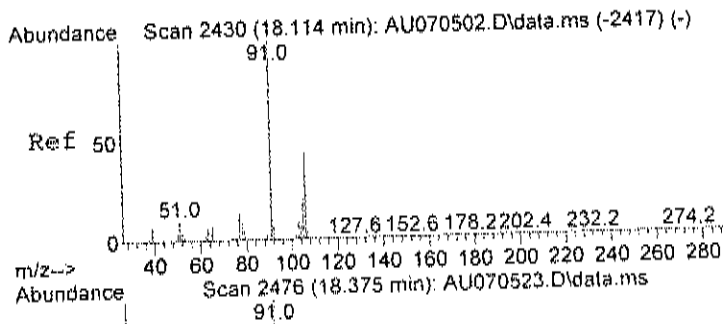
Tgt Ion:	112	Resp:	183429
Ion Ratio	Lower	Upper	
112	100		
77	63.1	36.4	76.4
114	31.8	11.7	51.7



#59
m&p-xylene
Concen: 0.25 ppb
RT: 17.848 min Scan# 2383
Delta R.T. -0.017 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

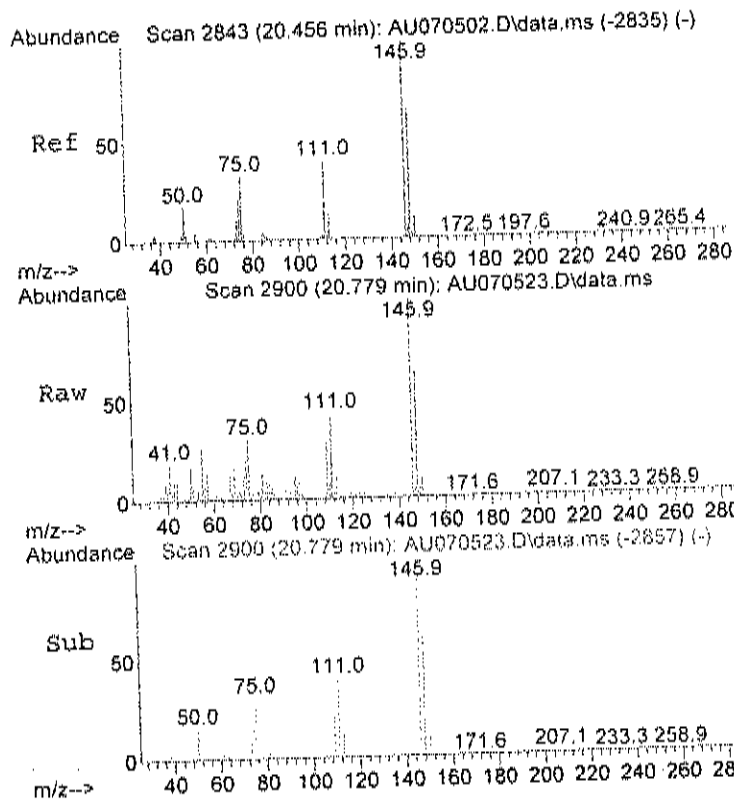
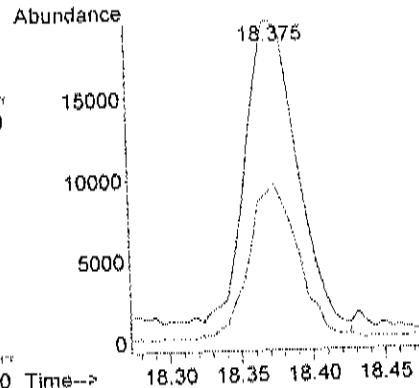
Tgt Ion:	91	Resp:	89078
Ion Ratio	Lower	Upper	
91	100		
106	47.5	32.1	72.1





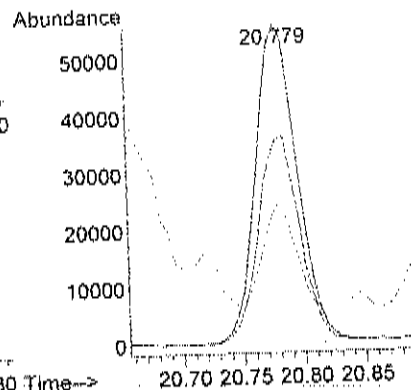
#63
o-xylene
Concen: 0.14 ppb m
RT: 18.375 min Scan# 2476
Delta R.T. 0.028 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
106	45.1	29.0	69.0



#74
1,4-dichlorobenzene
Concen: 0.66 ppb m
RT: 20.779 min Scan# 2900
Delta R.T. 0.096 min
Lab File: AU070523.D
Acq: 5 Jul 2023 11:08 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
148	60.8	45.7	85.7
111	24.8	20.7	60.7



Data Path : C:\msdchem\1\data\
 Data File : AU070623.D
 Acq On : 6 Jul 2023 9:46 pm
 Operator : RJP
 Sample : C2307002-005A 10X
 Misc : A629_1UG
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 07 05:01:52 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

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

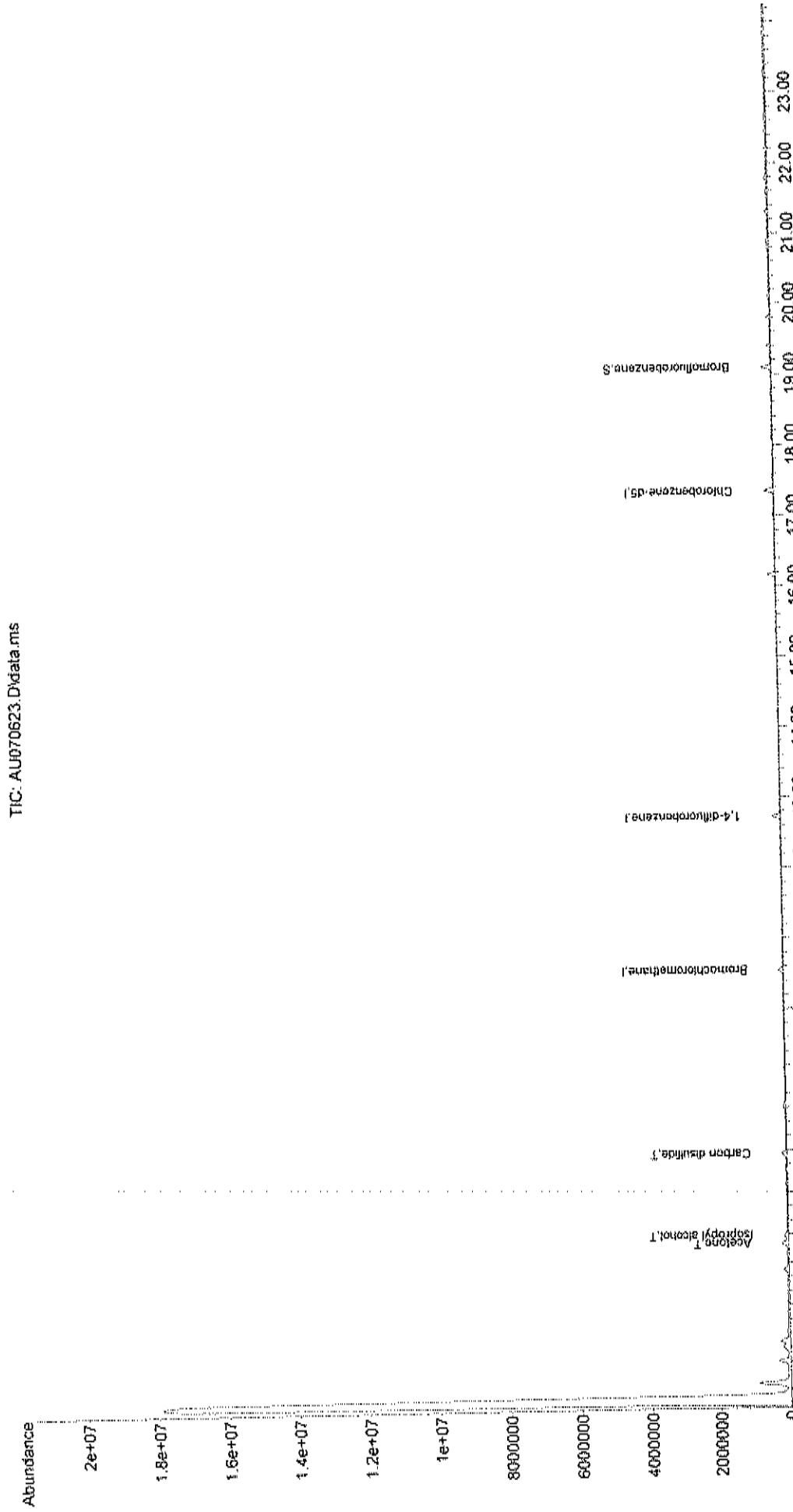
Internal Standards						
1) Bromochloromethane	10.551	128	58247	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.728	114	261302	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	212618	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	132594	0.83	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	83.00%
Target Compounds						
					Qvalue	
15) Acetone	6.678	58	103325m	1.50	ppb	
17) Isopropyl alcohol	6.792	45	76803	0.43	ppb	# 60
23) Carbon disulfide	7.949	76	322909	1.05	ppb	99

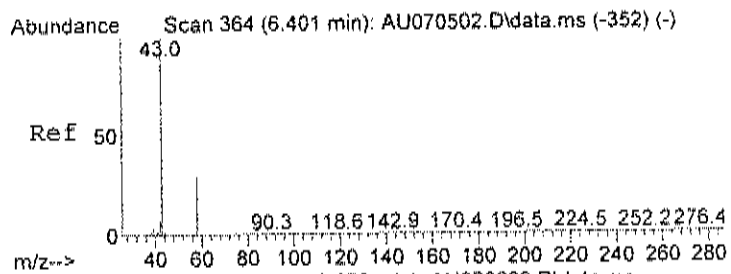
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : AU070623.D
 Acq On : 6 Jul 2023 9:46 pm
 Operator : RJP
 Sample : C2307002-005A 10X
 Misc : A629_1UG
 ALS Vial : 19 Sample Multiplier: 1

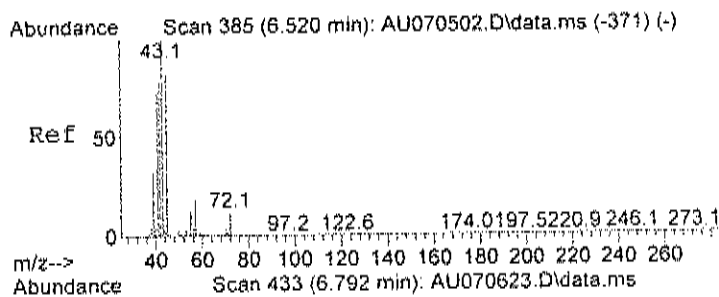
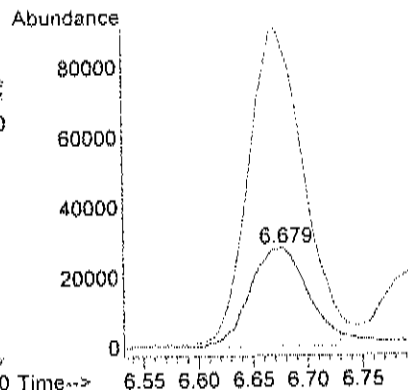
Quant Time: Jul 07 05:01:52 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 Qlast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





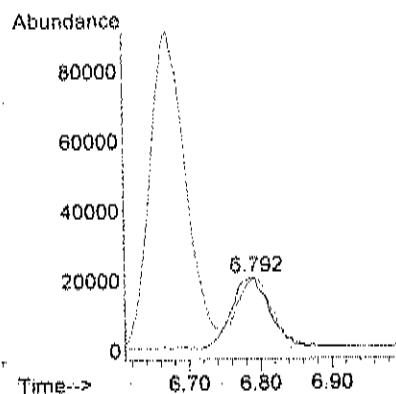
#15
Acetone
Concen: 1.50 ppb m
RT: 6.678 min Scan# 413
Delta R.T. 0.011 min
Lab File: AU070623.D
Acq: 6 Jul 2023 9:46 pm

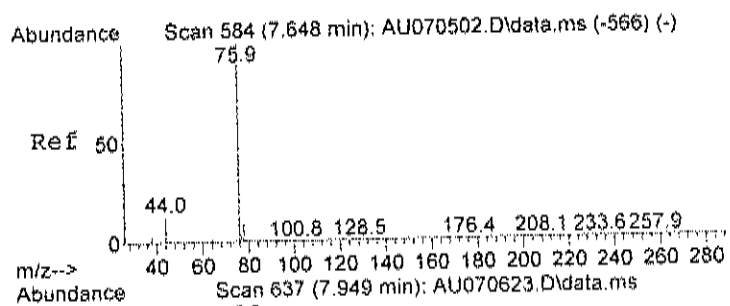
Tgt Ion: 58 Resp: 103325
Ion Ratio Lower Upper
58 100
43 313.9 224.5 284.5#



#17
Isopropyl alcohol
Concen: 0.43 ppb
RT: 6.792 min Scan# 433
Delta R.T. 0.006 min
Lab File: AU070623.D
Acq: 6 Jul 2023 9:46 pm

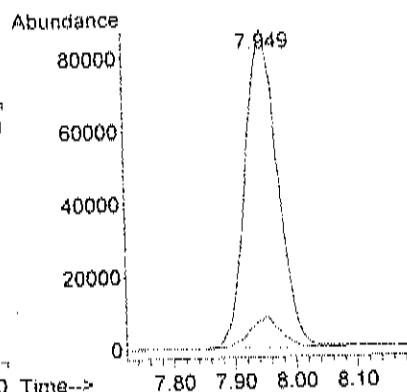
Tgt Ion: 45 Resp: 76803
Ion Ratio Lower Upper
45 100
43 84.0 110.3 150.3#





#23
Carbon disulfide
Concen: 1.05 ppb
RT: 7.949 min Scan# 637
Delta R.T. 0.000 min
Lab File: AU070623.D
Acq: 6 Jul 2023 9:46 pm

Tgt Ion	76	78	Ion Ratio	100	9.6	Resp	322909	Lower	Upper
								0.0	29.3



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-006A

Client Sample ID: SVW-5 MS/MSD
 Tag Number: 218,1447
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST						
			GC			Analyst: RJP
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 5:46:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Acetone	8.3	1.5		ppbV	5	7/6/2023 5:29:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Benzene	0.28	0.15		ppbV	1	7/5/2023 5:46:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Carbon disulfide	1.5	0.15		ppbV	1	7/5/2023 5:46:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Chloroform	0.24	0.15		ppbV	1	7/5/2023 5:46:00 PM
Chloromethane	0.17	0.15		ppbV	1	7/5/2023 5:46:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 11 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-006A

Client Sample ID: SVW-5 MS/MSD
 Tag Number: 218.1447
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Ethyl acetate	0.16	0.15		ppbV	1	7/5/2023 5:46:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Freon 11	0.80	0.15		ppbV	1	7/5/2023 5:46:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Freon 114	0.18	0.15		ppbV	1	7/5/2023 5:46:00 PM
Freon 12	0.69	0.15		ppbV	1	7/5/2023 5:46:00 PM
Heptane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Hexane	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Isopropyl alcohol	2.8	0.75		ppbV	5	7/6/2023 5:29:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	7/5/2023 5:46:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 5:46:00 PM
Methyl Ethyl Ketone	0.33	0.30		ppbV	1	7/5/2023 5:46:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 5:46:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Methylene chloride	0.30	0.15		ppbV	1	7/5/2023 5:46:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Tetrachloroethylene	0.19	0.15		ppbV	1	7/5/2023 5:46:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Toluene	0.34	0.15		ppbV	1	7/5/2023 5:46:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:46:00 PM
Surr: Bromofluorobenzene	82.0	70-130		%REC	1	7/5/2023 5:46:00 PM

Qualifiers: Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 12 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-006A

Client Sample ID: SVW-5 MS/MSD
 Tag Number: 218.1447
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 5:46:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 5:46:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 5:46:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 5:46:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:46:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 5:46:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 5:46:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 5:46:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:46:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 5:46:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 5:46:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 5:46:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 5:46:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:46:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:46:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 5:46:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 5:46:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 5:46:00 PM
Acetone	20	3.6		ug/m3	5	7/6/2023 5:29:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 5:46:00 PM
Benzene	0.89	0.48		ug/m3	1	7/5/2023 5:46:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 5:46:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 5:46:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 5:46:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 5:46:00 PM
Carbon disulfide	4.6	0.47		ug/m3	1	7/5/2023 5:46:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 5:46:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 5:46:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 5:46:00 PM
Chloroform	1.2	0.73		ug/m3	1	7/5/2023 5:46:00 PM
Chloromethane	0.35	0.31		ug/m3	1	7/5/2023 5:46:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:46:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 5:46:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 5:46:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 5:46:00 PM
Ethyl acetate	0.58	0.54		ug/m3	1	7/5/2023 5:46:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 5:46:00 PM
Freon 11	4.5	0.84		ug/m3	1	7/5/2023 5:46:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 5:46:00 PM
Freon 114	1.3	1.0		ug/m3	1	7/5/2023 5:46:00 PM

Qualifiers: , Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 N Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 11 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-006A

Client Sample ID: SVW-5 MS/MSD
 Tag Number: 218,1447
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	3.4	0.74		ug/m3	1	7/5/2023 5:46:00 PM
Heptane	< 0.61	0.61		ug/m3	1	7/5/2023 5:46:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 5:46:00 PM
Hexane	< 0.53	0.53		ug/m3	1	7/5/2023 5:46:00 PM
Isopropyl alcohol	6.9	1.8		ug/m3	5	7/6/2023 5:29:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	7/5/2023 5:46:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 5:46:00 PM
Methyl Ethyl Ketone	0.97	0.88		ug/m3	1	7/5/2023 5:46:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 5:46:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 5:46:00 PM
Methylene chloride	1.0	0.52		ug/m3	1	7/5/2023 5:46:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 5:46:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 5:46:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 5:46:00 PM
Tetrachloroethylene	1.3	1.0		ug/m3	1	7/5/2023 5:46:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 5:46:00 PM
Toluene	1.3	0.57		ug/m3	1	7/5/2023 5:46:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:46:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 5:46:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 5:46:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 5:46:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 5:46:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 5:46:00 PM

Qualifiers: - Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 12 of 40

Data Path : C:\msdchem\1\data\
 Data File : AU070516.D
 Acq On : 5 Jul 2023 5:46 pm
 Operator : RJP
 Sample : C2307002-006A
 Misc : A629_1UG
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 06 07:55:21 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

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

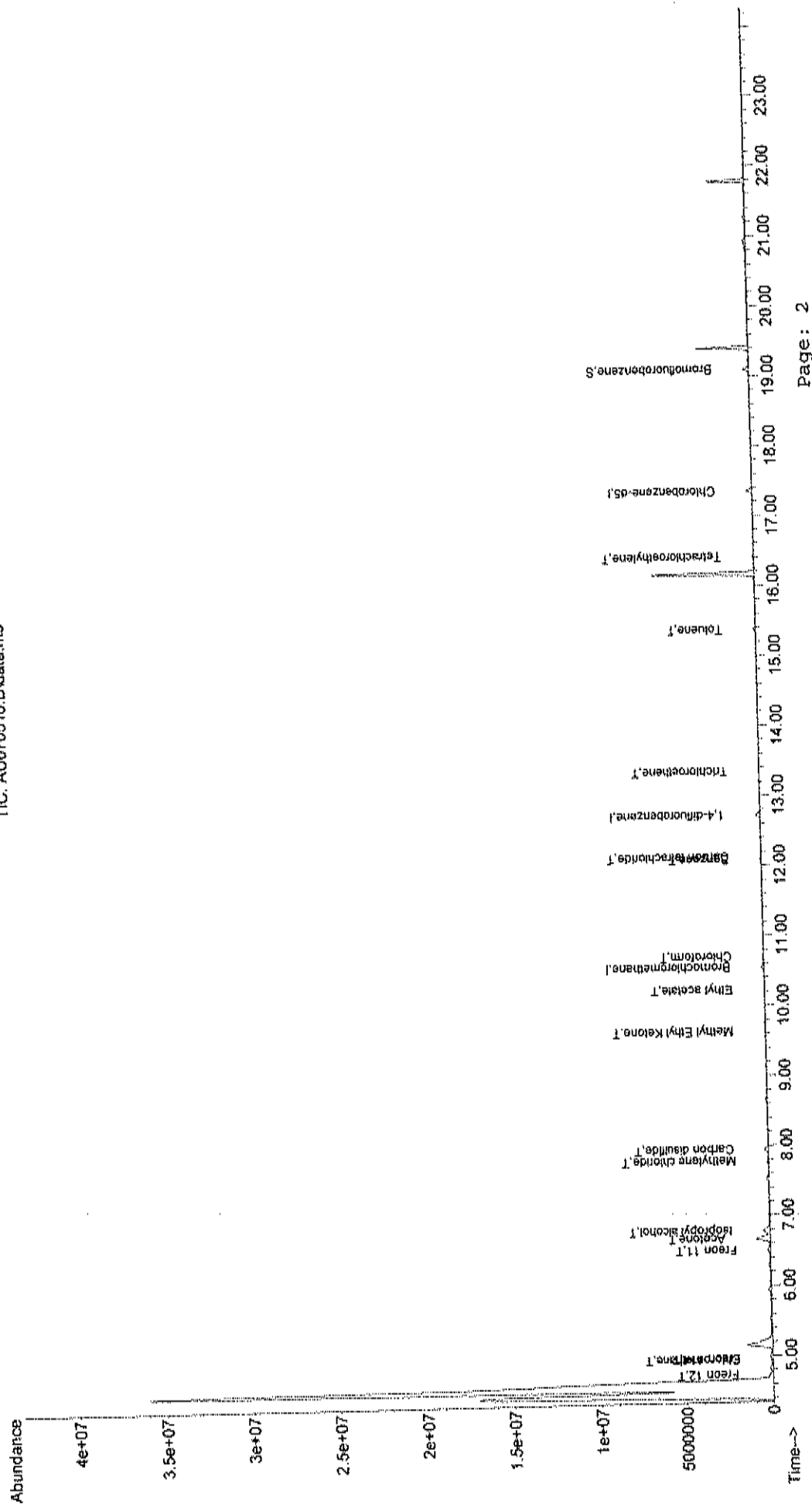
Internal Standards						
1) Bromochloromethane	10.545	128	60151	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	287326	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	259793	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	159967	0.82	ppb	0.05
Spiked Amount 1.000	Range 70 - 130		Recovery	=	82.00%	
Target Compounds					Qvalue	
3) Freon 12	4.728	85	170650	0.69	ppb	99
4) Chloromethane	4.944	50	13109	0.17	ppb	96
5) Freon 114	4.955	85	36628	0.18	ppb	92
14) Freon 11	6.503	101	199367	0.80	ppb	97
15) Acetone	6.667	58	566458m	7.98	ppb	
17) Isopropyl alcohol	6.781	45	633305	3.44	ppb	# 1
21) Methylene chloride	7.784	84	45725	0.30	ppb	94
23) Carbon disulfide	7.943	76	467694	1.48	ppb	100
28) Methyl Ethyl Ketone	9.632	72	18769m	0.33	ppb	
31) Ethyl acetate	10.222	43	41147	0.16	ppb	93
32) Chloroform	10.698	83	47622	0.24	ppb	97
38) Carbon tetrachloride	12.121	117	12307	0.07	ppb	96
39) Benzene	12.087	78	68961	0.28	ppb	98
44) Trichloroethene	13.346	130	7376	0.07	ppb	92
51) Toluene	15.370	92	61752	0.34	ppb	93
56) Tetrachloroethylene	16.413	164	20050	0.19	ppb	99

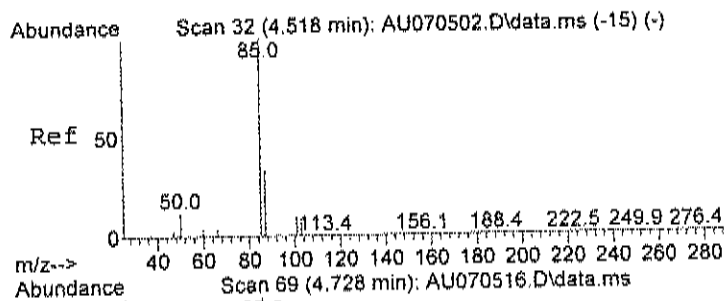
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\
Data File : AU070516.D
Acq On : 5 Jul 2023 5:46 pm
Operator : RJP
Sample : C2307002-006A
Misc : A629 iUG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 06 07:55:21 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
Qlast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

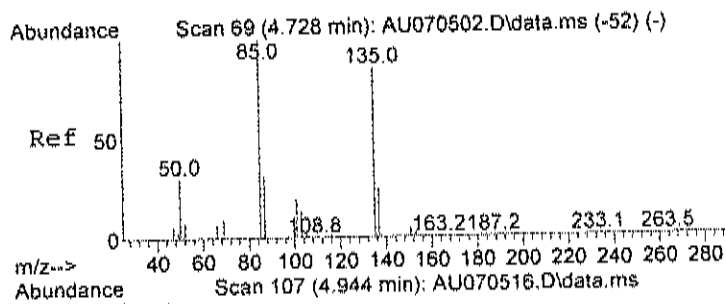
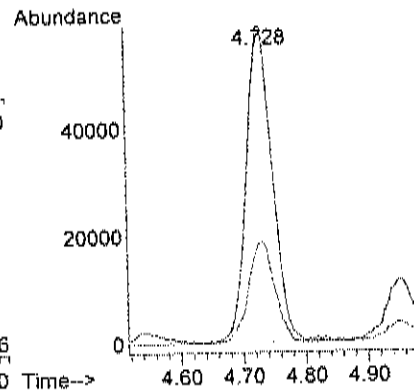
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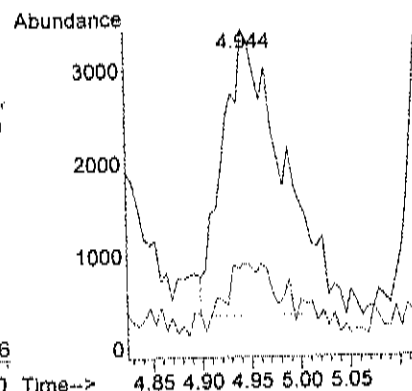
#3
Freon 12
Concen: 0.69 ppb
RT: 4.728 min Scan# 69
Delta R.T. -0.006 min
Lab File: AU070516.D
Acq: 5 Jul 2023 5:46 pm

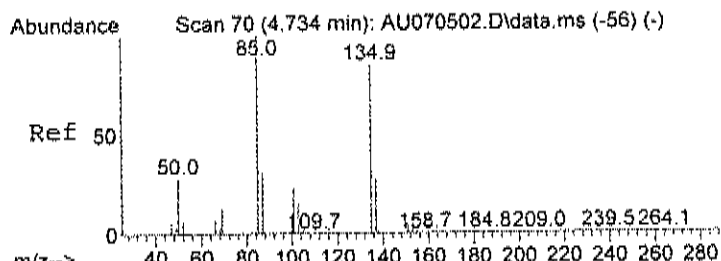
Tgt Ion: 85 Resp: 170650
Ion Ratio Lower Upper
85 100
87 32.6 13.4 53.4



#4
Chloromethane
Concen: 0.17 ppb
RT: 4.944 min Scan# 107
Delta R.T. -0.011 min
Lab File: AU070516.D
Acq: 5 Jul 2023 5:46 pm

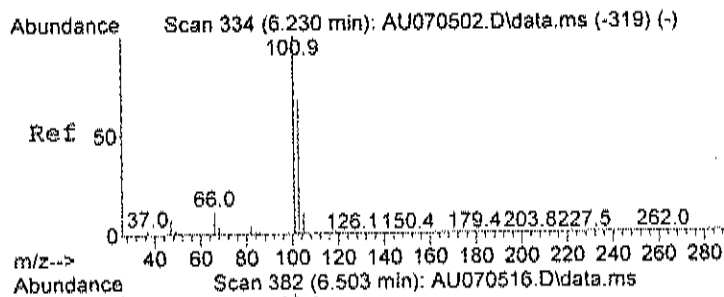
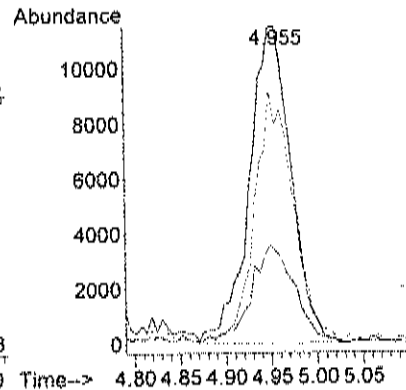
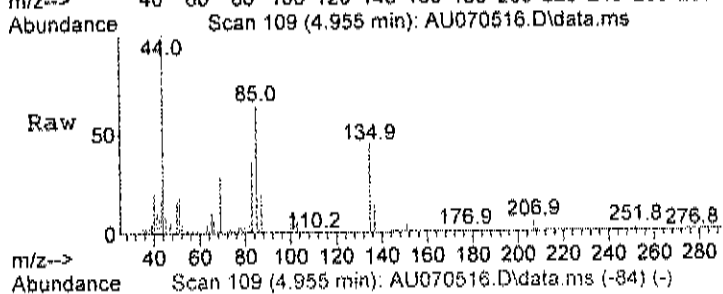
Tgt Ion: 50 Resp: 13109
Ion Ratio Lower Upper
50 100
52 24.7 6.9 46.9





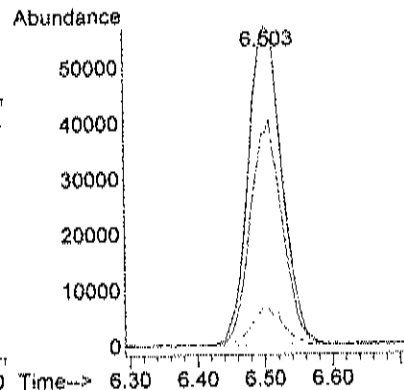
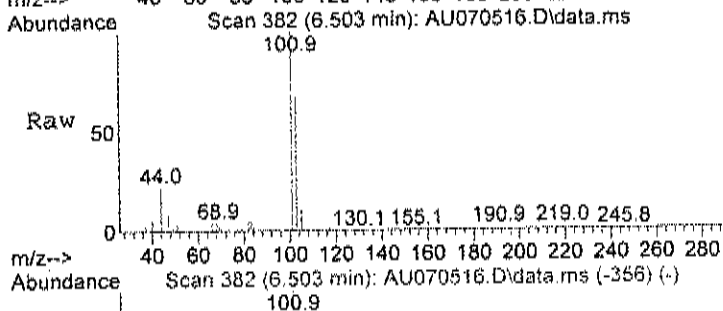
#5
Freon 114
Concen: 0.18 ppb
RT: 4.955 min Scan# 109
Delta R.T. -0.006 min
Lab File: AU070516.D
Acq: 5 Jul 2023 5:46 pm

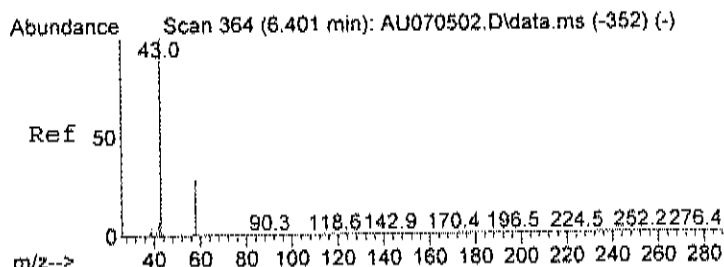
Tgt Ion	85	Resp	36628
Ion	Ratio	Lower	Upper
85	100		
87	32.1	2.3	62.3
135	72.7	53.1	113.1



#14
Freon 11
Concen: 0.80 ppb
RT: 6.503 min Scan# 382
Delta R.T. 0.000 min
Lab File: AU070516.D
Acq: 5 Jul 2023 5:46 pm

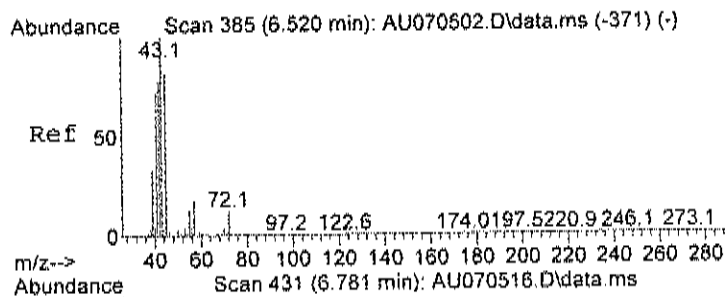
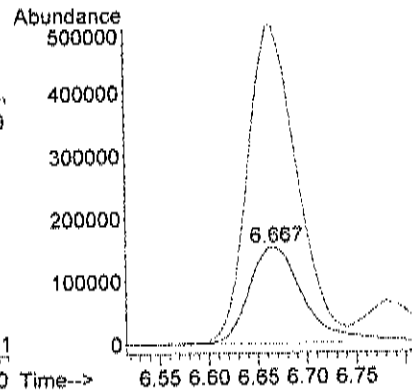
Tgt Ion	101	Resp	199367
Ion	Ratio	Lower	Upper
101	100		
103	66.6	44.0	84.0
105	11.2	0.0	31.4





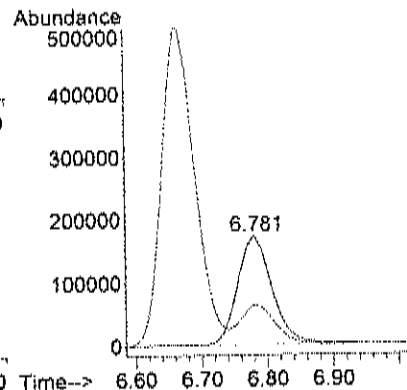
#15
Acetone
Concen: 7.98 ppb m
RT: 6.667 min Scan# 411
Delta R.T. 0.000 min
Lab File: AU070516.D
Acq: 5 Jul 2023 5:46 pm

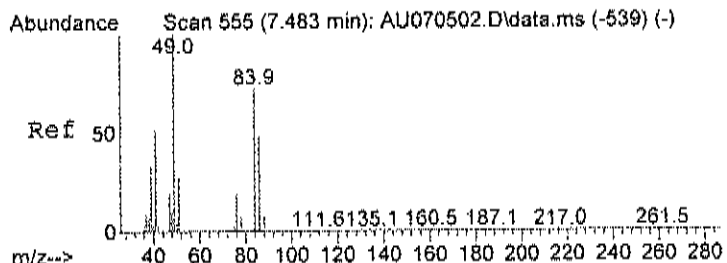
Tgt Ion: 58 Resp: 566458
Ion Ratio Lower Upper
58 100
43 342.4 224.5 284.5#



#17
Isopropyl alcohol
Concen: 3.44 ppb
RT: 6.781 min Scan# 431
Delta R.T. -0.006 min
Lab File: AU070516.D
Acq: 5 Jul 2023 5:46 pm

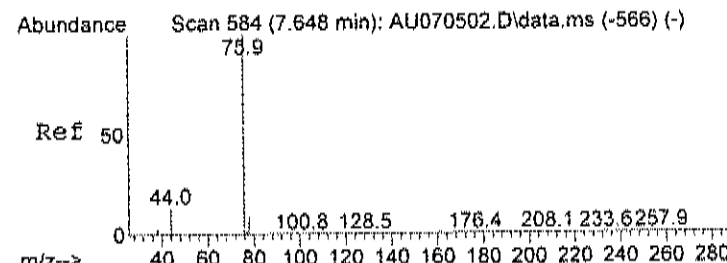
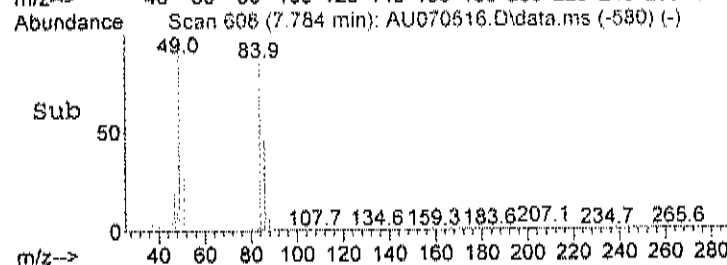
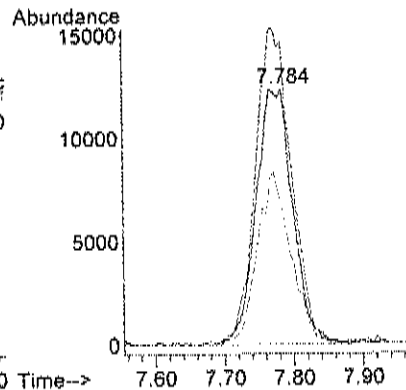
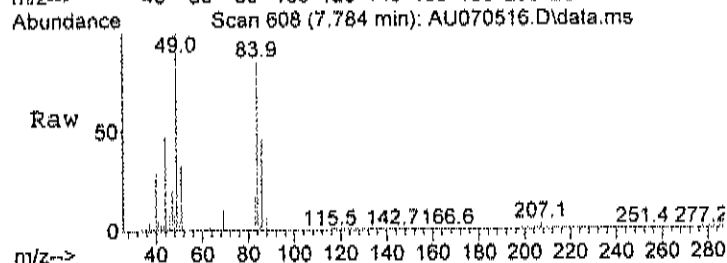
Tgt Ion: 45 Resp: 633305
Ion Ratio Lower Upper
45 100
43 0.0 110.3 150.3#





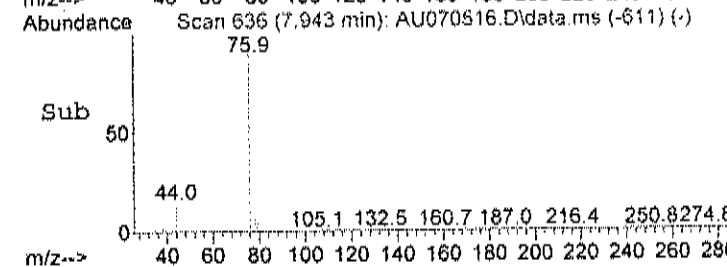
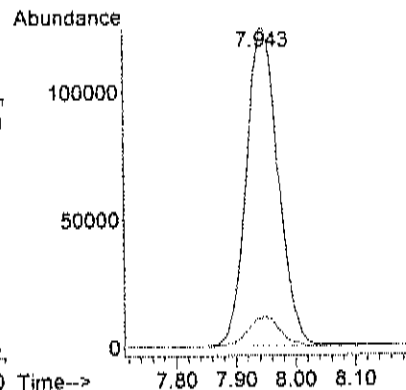
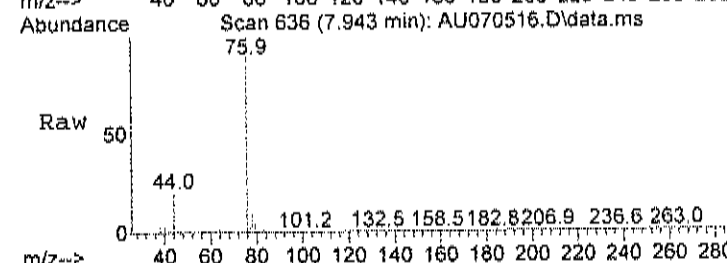
#21
Methylene chloride
Concen: 0.30 ppb
RT: 7.784 min Scan# 608
Delta R.T. 0.011 min
Lab File: AU070516.D
Acq: 5 Jul 2023 5:46 pm

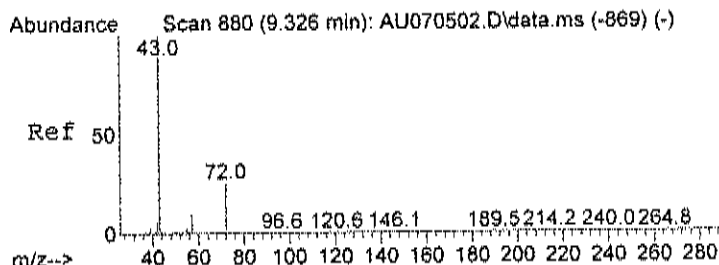
Tgt Ion	84	Resp	45725
Ion	Ratio	Lower	Upper
84	100		
49	121.4	93.0	133.0
86	61.5	43.7	83.7



#23
Carbon disulfide
Concen: 1.48 ppb
RT: 7.943 min Scan# 636
Delta R.T. -0.006 min
Lab File: AU070516.D
Acq: 5 Jul 2023 5:46 pm

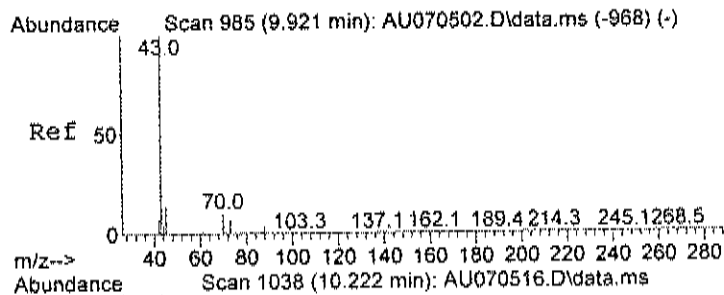
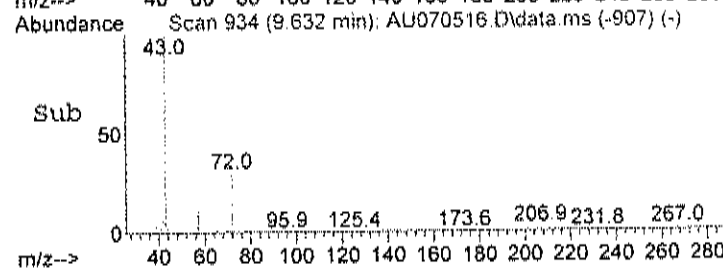
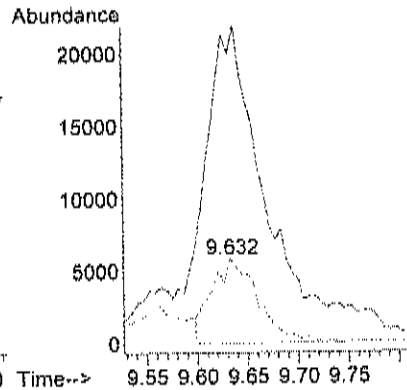
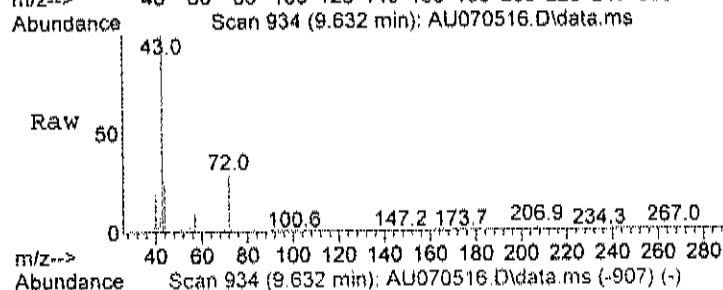
Tgt Ion	76	Resp	467694
Ion	Ratio	Lower	Upper
76	100		
78	9.4	0.0	29.3





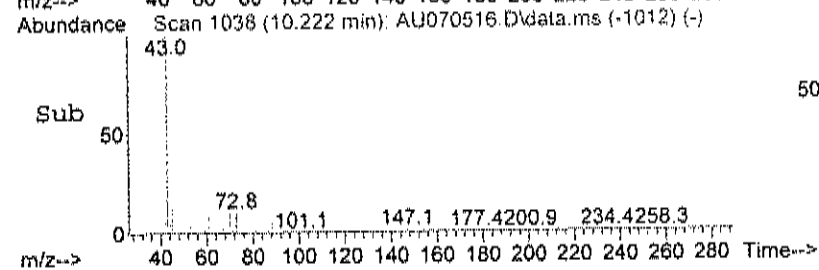
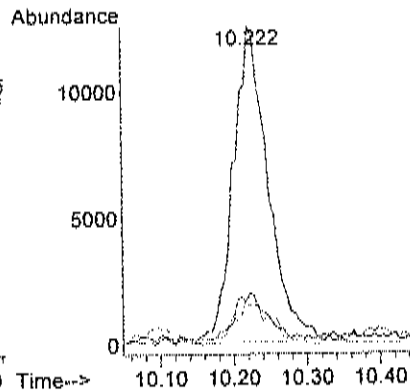
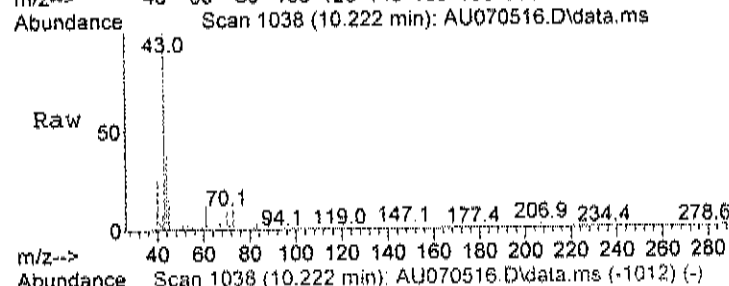
#28
Methyl Ethyl Ketone
Concen: 0.33 ppb m
RT: 9.632 min Scan# 934
Delta R.T. 0.006 min
Lab File: AU070516.D
Acq: 5 Jul 2023 5:46 pm

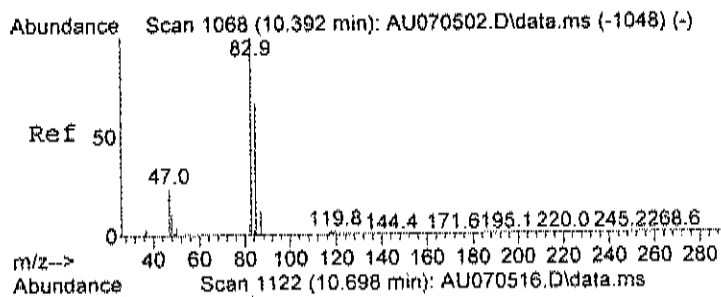
Tgt Ion	72	Resp	18769
Ion	Ratio	Lower	Upper
72	100		
43	0.0	389.0	429.0#
72	149.3	80.0	120.0#



#31
Ethyl acetate
Concen: 0.16 ppb
RT: 10.222 min Scan# 1038
Delta R.T. 0.000 min
Lab File: AU070516.D
Acq: 5 Jul 2023 5:46 pm

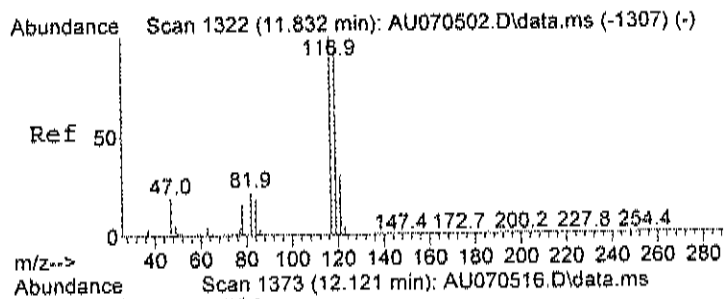
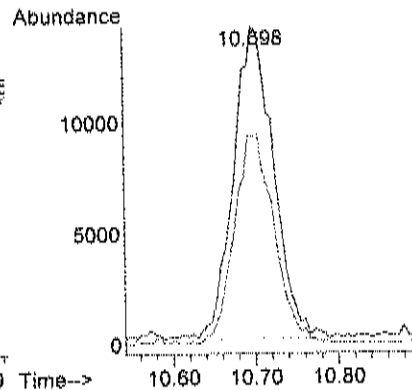
Tgt Ion	43	Resp	41147
Ion	Ratio	Lower	Upper
43	100		
45	18.3	0.0	35.3
61	14.4	0.0	37.0





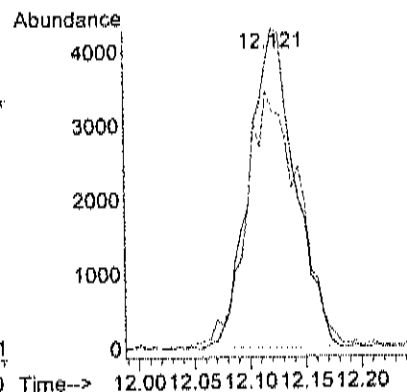
#32
Chloroform
Concen: 0.24 ppb
RT: 10.698 min Scan# 1122
Delta R.T. 0.000 min
Lab File: AU070516.D
Acq: 5 Jul 2023 5:46 pm

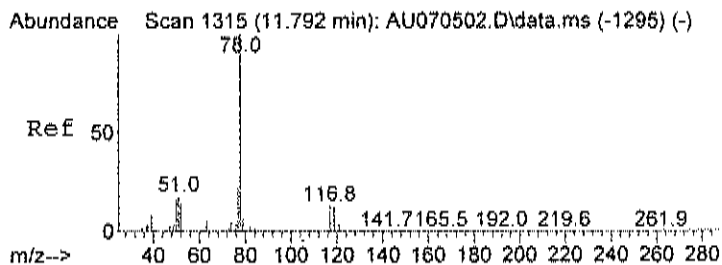
Tgt Ion:	83	Resp:	47622
Ion Ratio	Lower	Upper	
83	100		
85	67.0	44.6	84.6



#38
Carbon tetrachloride
Concen: 0.07 ppb
RT: 12.121 min Scan# 1373
Delta R.T. -0.006 min
Lab File: AU070516.D
Acq: 5 Jul 2023 5:46 pm

Tgt Ion:	117	Resp:	12307
Ion Ratio	Lower	Upper	
117	100		
119	92.6	76.7	116.7





#39

Benzene

Concen: 0.28 ppb

RT: 12.087 min Scan# 1367

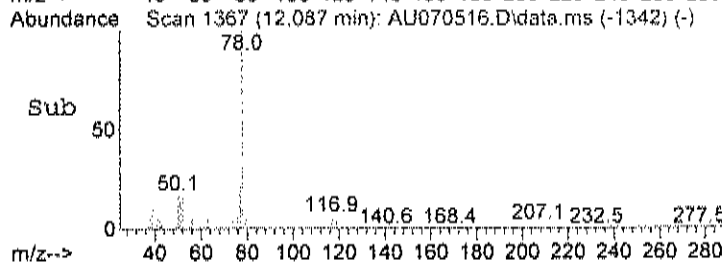
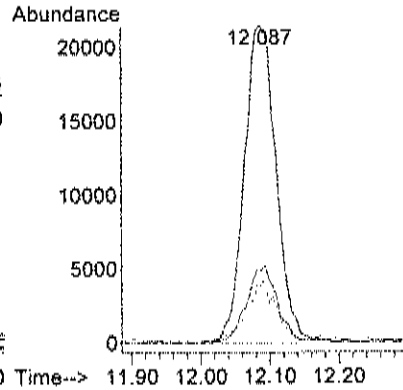
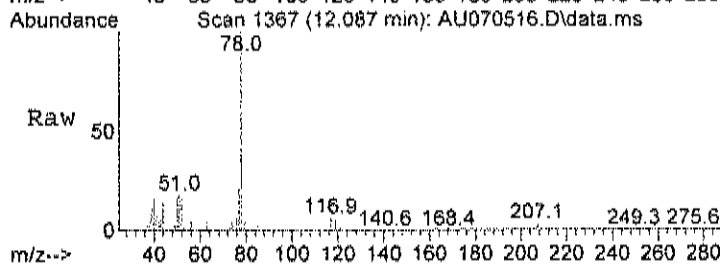
Delta R.T. -0.006 min

Lab File: AU070516.D

Acq: 5 Jul 2023 5:46 pm

Tgt Ion: 78 Resp: 68961

Ion	Ratio	Lower	Upper
78	100		
77	24.1	3.8	43.8
51	17.6	0.0	35.4



#44

Trichloroethene

Concen: 0.07 ppb

RT: 13.346 min Scan# 1589

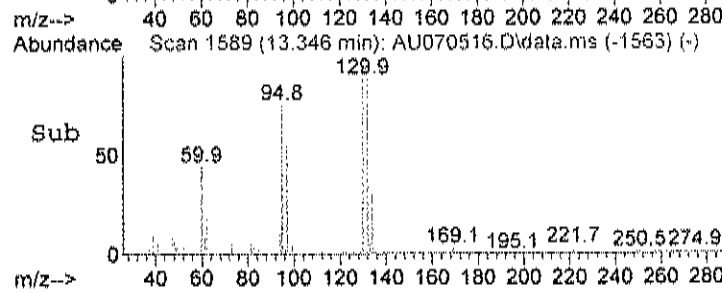
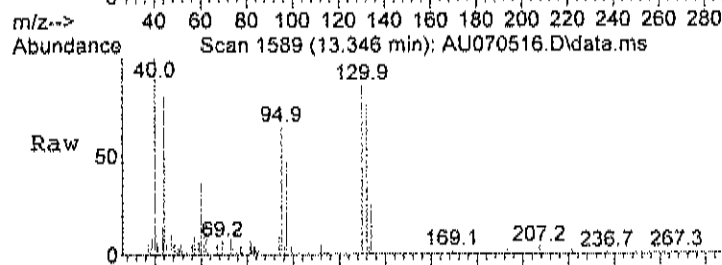
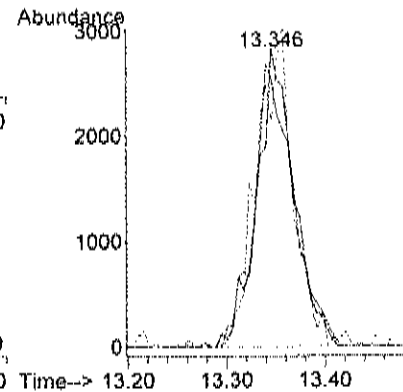
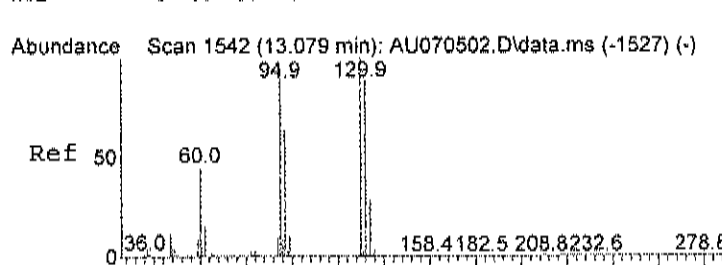
Delta R.T. 0.000 min

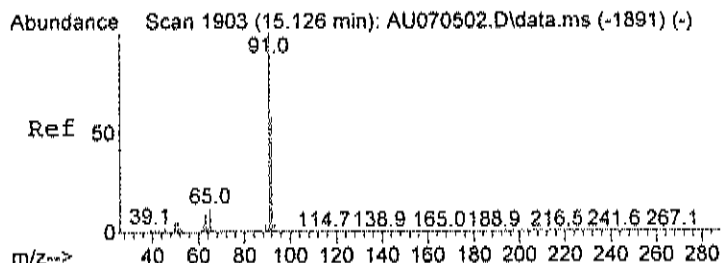
Lab File: AU070516.D

Acq: 5 Jul 2023 5:46 pm

Tgt Ion: 130 Resp: 7376

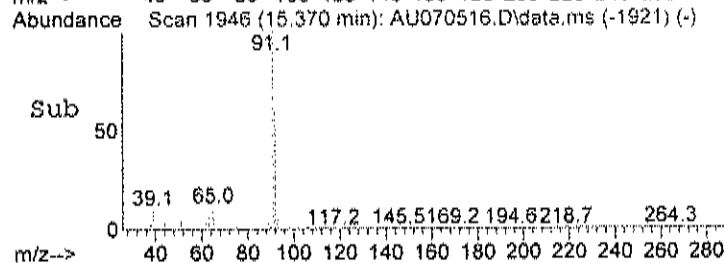
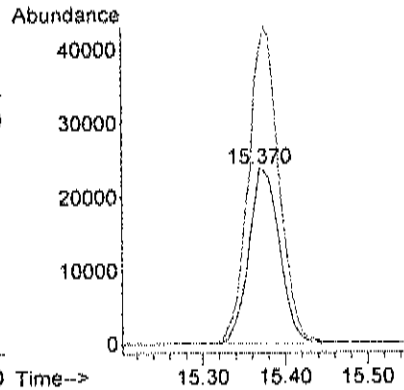
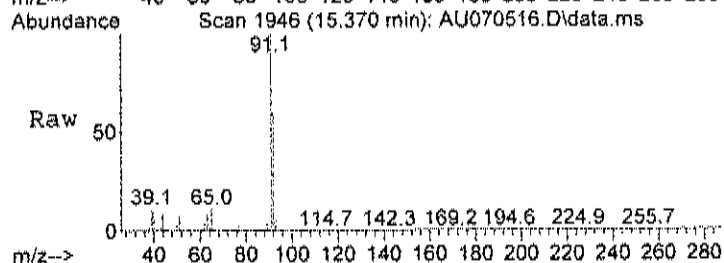
Ion	Ratio	Lower	Upper
130	100		
132	100.1	76.3	116.3
95	104.9	72.9	112.9





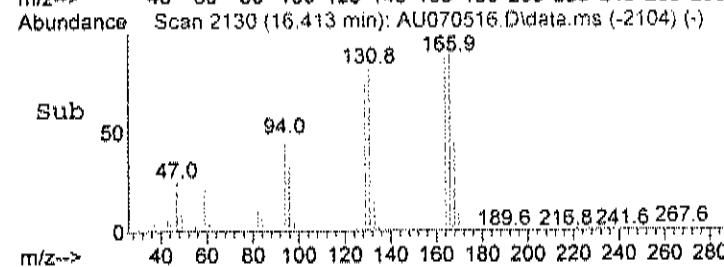
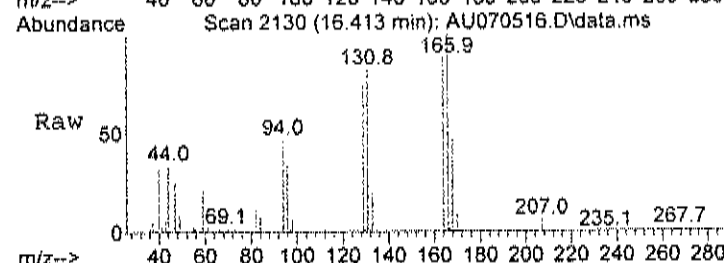
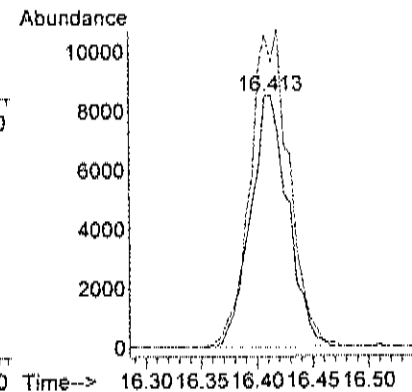
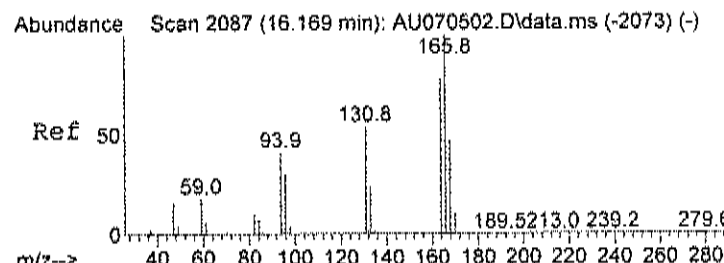
#51
Toluene
Concen: 0.34 ppb
RT: 15.370 min Scan# 1946
Delta R.T. -0.006 min
Lab File: AU070516.D
Acq: 5 Jul 2023 5:46 pm

Tgt Ion: 92 Resp: 61752
Ion Ratio Lower Upper
92 100
91 180.4 150.4 190.4



#56
Tetrachloroethylene
Concen: 0.19 ppb
RT: 16.413 min Scan# 2130
Delta R.T. 0.000 min
Lab File: AU070516.D
Acq: 5 Jul 2023 5:46 pm

Tgt Ion: 164 Resp: 20050
Ion Ratio Lower Upper
164 100
166 129.4 107.9 147.9



Data Path : C:\msdchem\1\data\
Data File : AU070617.D
Acq On : 6 Jul 2023 5:29 pm
Operator : RJP
Sample : C2307002-006A 5X
Misc : A629_1UG
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 06 19:32:45 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

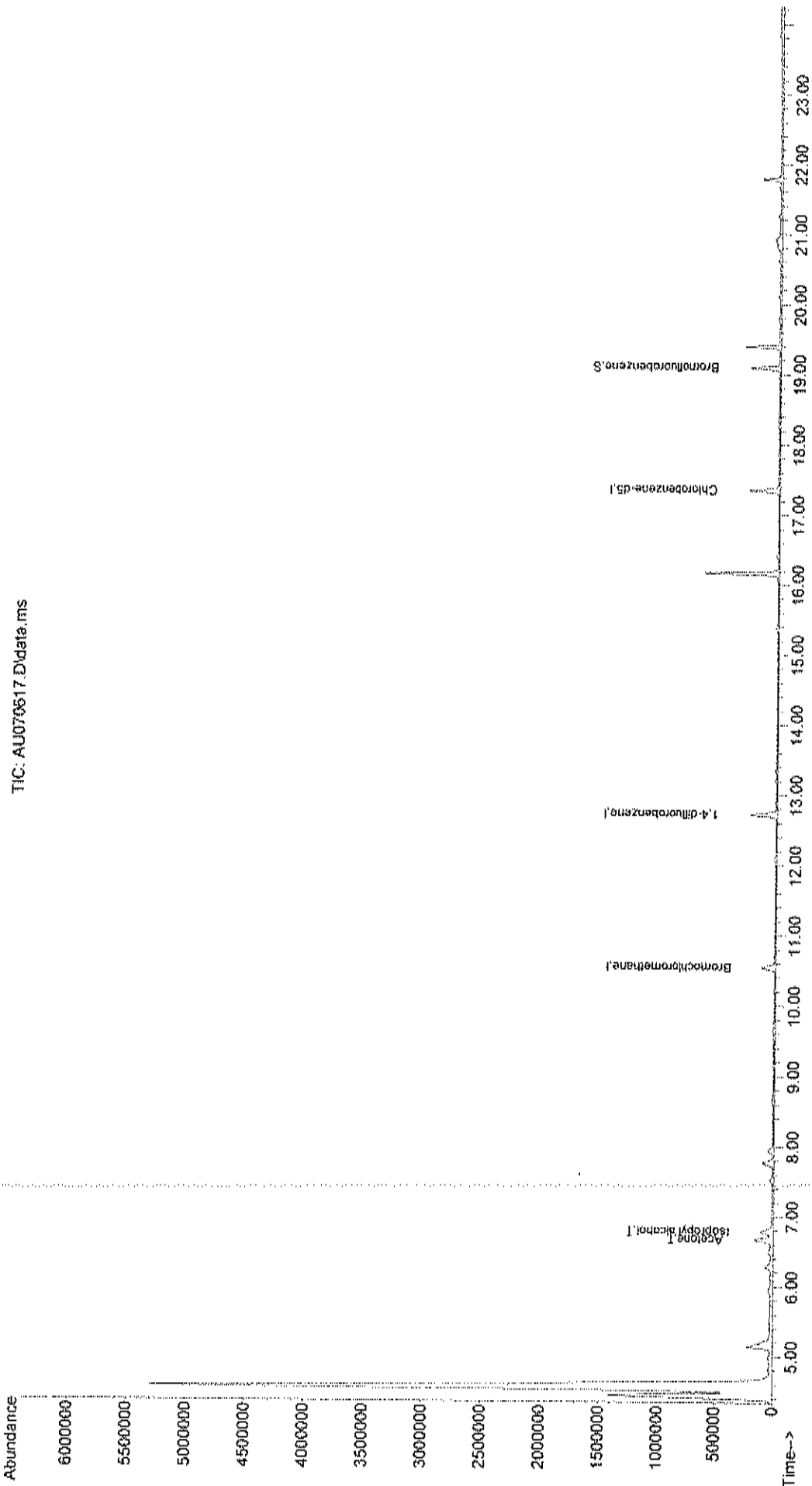
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

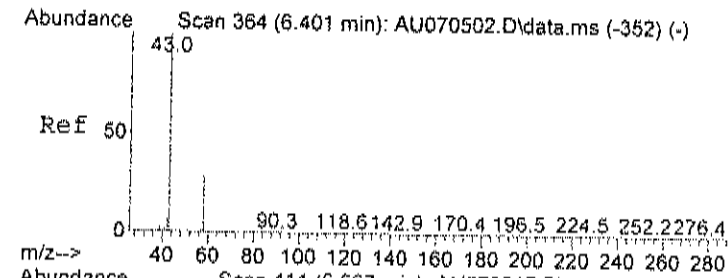
Internal Standards						
1) Bromochloromethane	10.540	128	55687	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	268472	1.00	ppb	0.00
50) Chlorobenzene-d5	17.355	117	215180	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	129696	0.80	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	80.00%
Target Compounds						
15) Acetone	6.667	58	108863m	1.66	ppb	Qvalue
17) Isopropyl alcohol	6.781	45	96070	0.56	ppb	# 1

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

Quantitation Report (QT Reviewed)

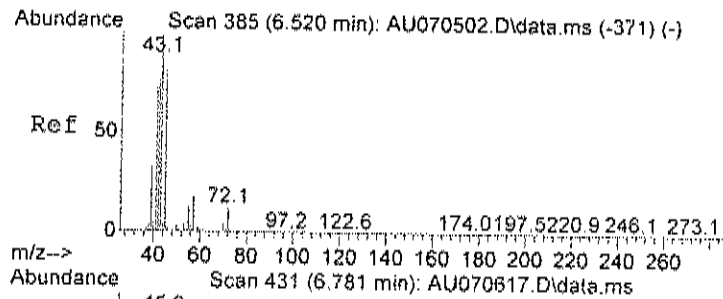
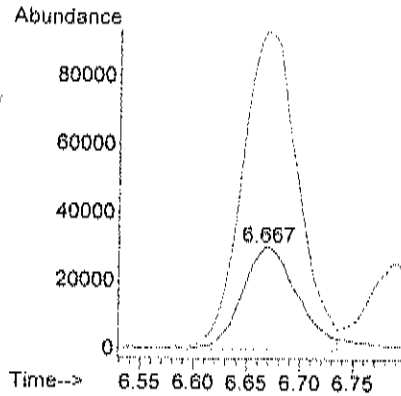
Data Path : C:\msdchem\1\data\
 Data File : AU070617.D
 Acq On : 6 Jul 2023 5:29 pm
 Operator : RJP
 Sample : C2307002-006A 5X
 Misc : A629_IUG
 ALS Vial : 13 Sample Multiplier: 1
 Quant Time: Jul 06 19:32:45 2023
 Quant Method : C:\msdchem\1\methods\A629_IUG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





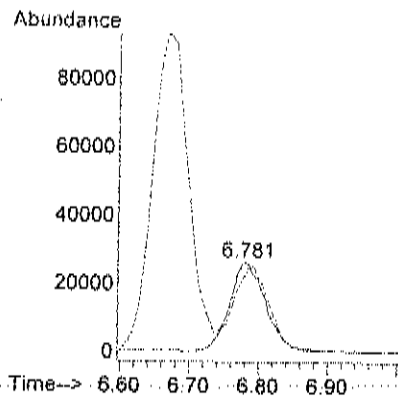
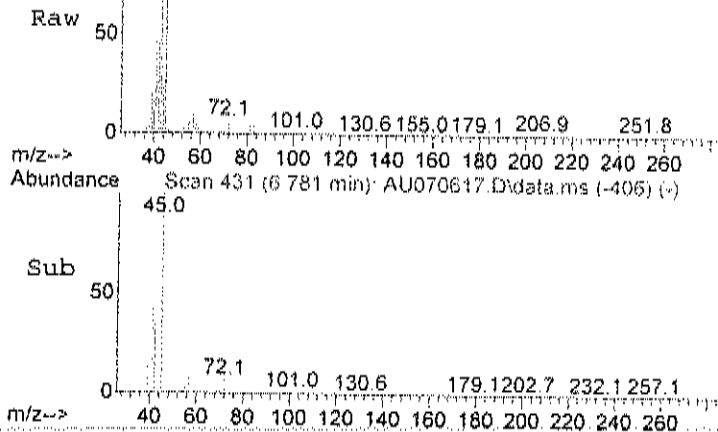
#15
Acetone
Concen: 1.66 ppb m
RT: 6.667 min Scan# 411
Delta R.T. 0.000 min
Lab File: AU070617.D
Acq: 6 Jul 2023 5:29 pm

Tgt Ion: 58 Resp: 108863
Ion Ratio Lower Upper
58 100
43 348.8 224.5 284.5#



#17
Isopropyl alcohol
Concen: 0.56 ppb
RT: 6.781 min Scan# 431
Delta R.T. -0.006 min
Lab File: AU070617.D
Acq: 6 Jul 2023 5:29 pm

Tgt Ion: 45 Resp: 96070
Ion Ratio Lower Upper
45 100
43 0.0 110.3 150.3#



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-6

Lab Order: C2307002

Tag Number: 1184,173

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-007A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	0			"Hg		Analyst: 7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST						
Helium	< 0.75	0.75		%	1	Analyst: RJP 7/10/2023
1UG/M3 BY METHOD TO15						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 11:53:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Acetone	9.0	3.0		ppbV	10	7/6/2023 10:28:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Benzene	0.55	0.15		ppbV	1	7/5/2023 11:53:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Carbon disulfide	0.68	0.15		ppbV	1	7/5/2023 11:53:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Chloroform	0.14	0.15	J	ppbV	1	7/5/2023 11:53:00 PM
Chloromethane	0.59	0.15		ppbV	1	7/5/2023 11:53:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM

Qualifiers: Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte, Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 13 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-6

Lab Order: C2307002

Tag Number: 1184,173

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-007A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Ethyl acetate	0.16	0.15		ppbV	1	7/5/2023 11:53:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Freon 11	0.26	0.15		ppbV	1	7/5/2023 11:53:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Freon 12	0.52	0.15		ppbV	1	7/5/2023 11:53:00 PM
Heptane	0.11	0.15	J	ppbV	1	7/5/2023 11:53:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Hexane	0.41	0.15		ppbV	1	7/5/2023 11:53:00 PM
Isopropyl alcohol	1.9	0.15		ppbV	1	7/5/2023 11:53:00 PM
m&p-Xylene	0.13	0.30	J	ppbV	1	7/5/2023 11:53:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 11:53:00 PM
Methyl Ethyl Ketone	0.57	0.30		ppbV	1	7/5/2023 11:53:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 11:53:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Methylene chloride	0.26	0.15		ppbV	1	7/5/2023 11:53:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Tetrachloroethylene	0.19	0.15		ppbV	1	7/5/2023 11:53:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Toluene	0.46	0.15		ppbV	1	7/5/2023 11:53:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 11:53:00 PM
Surr: Bromofluorobenzene	86.0	70-130		%REC	1	7/5/2023 11:53:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte, Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 14 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-007A

Client Sample ID: SVW-6
 Tag Number: 1184,173
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 11:53:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 11:53:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 11:53:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 11:53:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:53:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 11:53:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 11:53:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 11:53:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 11:53:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 11:53:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 11:53:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 11:53:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 11:53:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 11:53:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 11:53:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 11:53:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 11:53:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 11:53:00 PM
Acetone	21	7.1		ug/m3	10	7/6/2023 10:28:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 11:53:00 PM
Benzene	1.8	0.48		ug/m3	1	7/5/2023 11:53:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 11:53:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 11:53:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 11:53:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 11:53:00 PM
Carbon disulfide	2.1	0.47		ug/m3	1	7/5/2023 11:53:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 11:53:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 11:53:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 11:53:00 PM
Chloroform	0.68	0.73	J	ug/m3	1	7/5/2023 11:53:00 PM
Chloromethane	1.2	0.31		ug/m3	1	7/5/2023 11:53:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:53:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 11:53:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 11:53:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 11:53:00 PM
Ethyl acetate	0.58	0.54		ug/m3	1	7/5/2023 11:53:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 11:53:00 PM
Freon 11	1.5	0.84		ug/m3	1	7/5/2023 11:53:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 11:53:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 11:53:00 PM

Qualifiers: Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 13 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-6

Lab Order: C2307002

Tag Number: 1184,173

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-007A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.6	0.74		ug/m3	1	7/5/2023 11:53:00 PM
Heptane	0.45	0.61	J	ug/m3	1	7/5/2023 11:53:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 11:53:00 PM
Hexane	1.4	0.53		ug/m3	1	7/5/2023 11:53:00 PM
Isopropyl alcohol	4.7	0.37		ug/m3	1	7/5/2023 11:53:00 PM
m&p-Xylene	0.56	1.3	J	ug/m3	1	7/5/2023 11:53:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 11:53:00 PM
Methyl Ethyl Ketone	1.7	0.88		ug/m3	1	7/5/2023 11:53:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 11:53:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 11:53:00 PM
Methylene chloride	0.90	0.52		ug/m3	1	7/5/2023 11:53:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 11:53:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 11:53:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 11:53:00 PM
Tetrachloroethylene	1.3	1.0		ug/m3	1	7/5/2023 11:53:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 11:53:00 PM
Toluene	1.7	0.57		ug/m3	1	7/5/2023 11:53:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 11:53:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 11:53:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 11:53:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 11:53:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 11:53:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 11:53:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 14 of 40

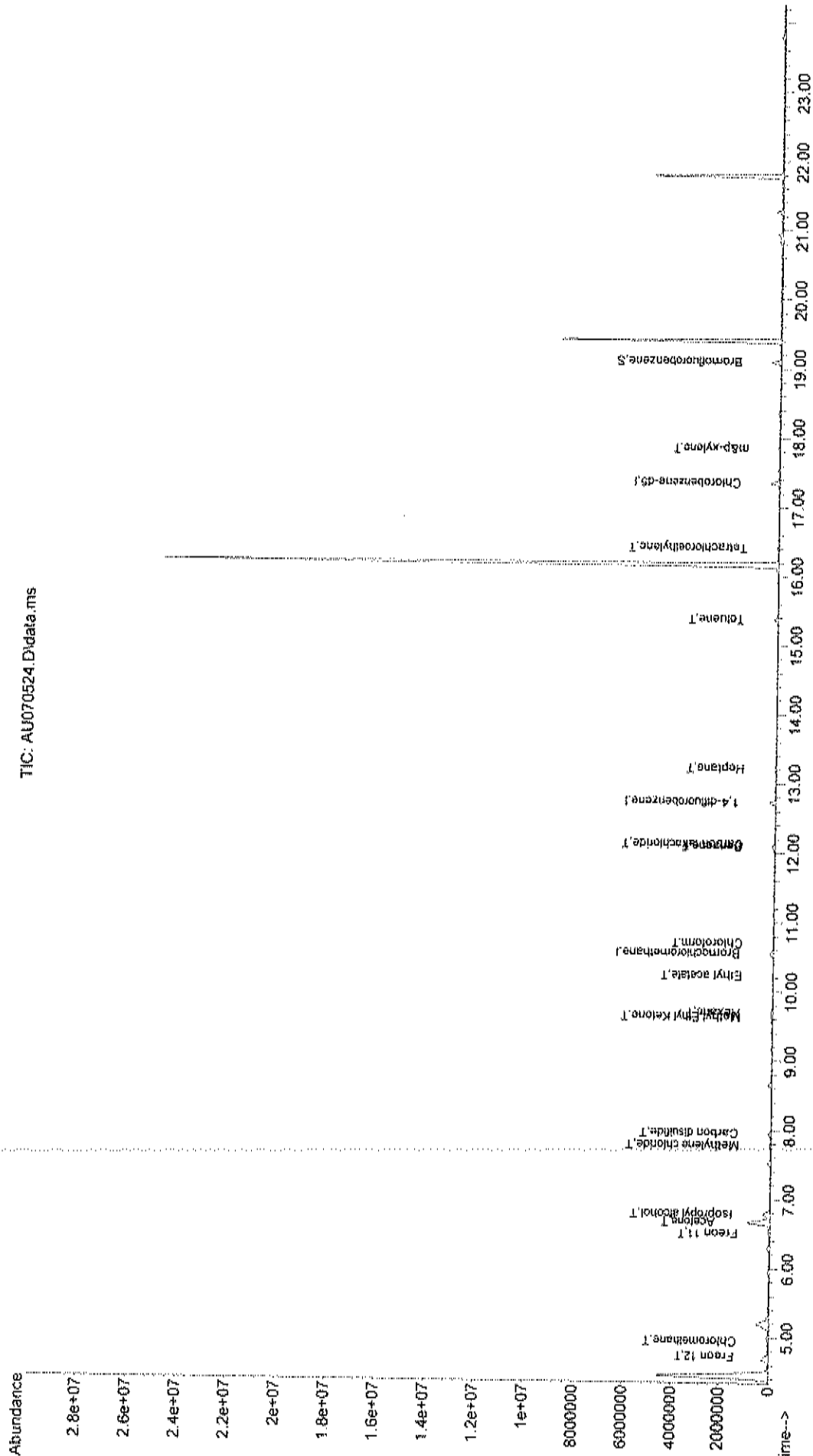
Data Path : C:\msdchem\1\data\
 Data File : AU070524.D
 Acq On : 5 Jul 2023 11:53 pm
 Operator : RJP
 Sample : C2307002-007A
 Misc : A629_1UG
 ALS Vial : 12 Sample Multiplier: 1

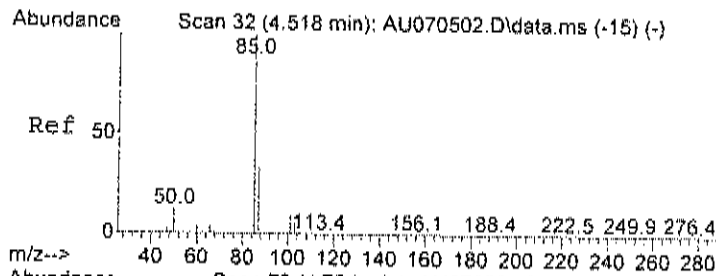
Quant Time: Jul 06 07:55:37 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.551	128	66805	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.728	114	308573	1.00	ppb	0.00
50) Chlorobenzene-d5	17.355	117	282504	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	183105	0.86	ppb	0.05
Spiked Amount	1.000	Range 70 - 130	Recovery	=	86.00%	
Target Compounds						
3) Freon 12	4.734	85	143977	0.52	ppb	Qvalue 97
4) Chloromethane	4.949	50	52003m	0.59	ppb	
14) Freon 11	6.508	101	70603	0.26	ppb	96
15) Acetone	6.673	58	715877	9.08	ppb	# 62
17) Isopropyl alcohol	6.781	45	392949	1.92	ppb	# 1
21) Methylene chloride	7.778	84	43459	0.26	ppb	89
23) Carbon disulfide	7.954	76	238778	0.68	ppb	98
28) Methyl Ethyl Ketone	9.632	72	36116m	0.57	ppb	
30) Hexane	9.695	57	81270m	0.41	ppb	
31) Ethyl acetate	10.228	43	43834	0.16	ppb	95
32) Chloroform	10.698	83	30571	0.14	ppb	96
38) Carbon tetrachloride	12.121	117	15376	0.09	ppb	98
39) Benzene	12.093	78	142724	0.55	ppb	96
43) Heptane	13.216	43	18342m	0.11	ppb	
51) Toluene	15.376	92	91056	0.46	ppb	96
56) Tetrachloroethylene	16.413	164	21644	0.19	ppb	94
59) m&p-xylene	17.848	91	44934	0.13	ppb	95

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

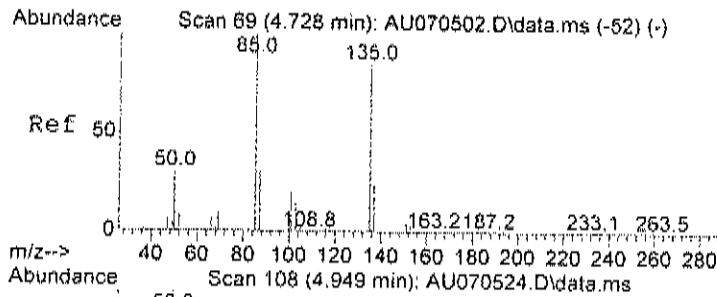
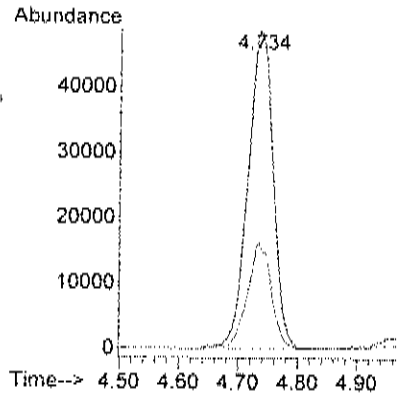
Data Path : C:\msdchem\1\data\
Data File : AU070524.D
Acq On : 5 Jul 2023 11:53 pm
Operator : RJP
Sample : C2307002-007A
Misc : A629 IUG
ALS Vial : 12 Sample Multiplier: 1
Quant Time: Jul 06 07:55:37 2023
Quant Method : C:\msdchem\1\methods\A629 IUG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration





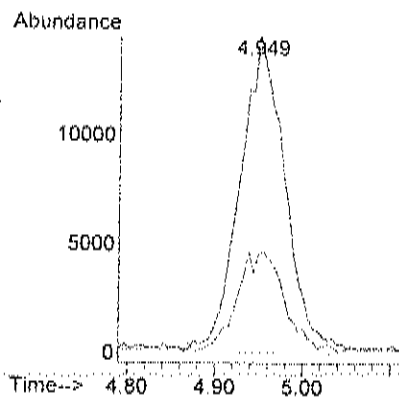
#3
Freon 12
Concen: 0.52 ppb
RT: 4.734 min Scan# 70
Delta R.T. 0.000 min
Lab File: AU070524.D
Acq: 5 Jul 2023 11:53 pm

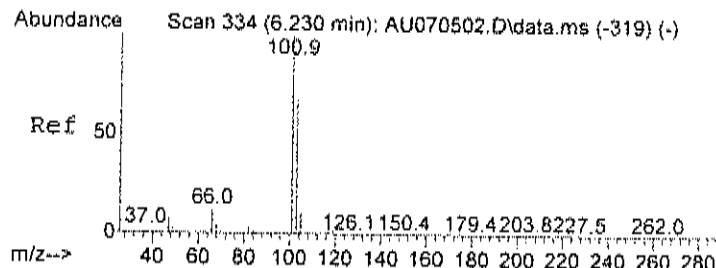
Tgt Ion	85	87	Ratio	100	31.8	Lower	13.4	Upper	53.4
Resp	143977								



#4
Chloromethane
Concen: 0.59 ppb m
RT: 4.949 min Scan# 108
Delta R.T. -0.006 min
Lab File: AU070524.D
Acq: 5 Jul 2023 11:53 pm

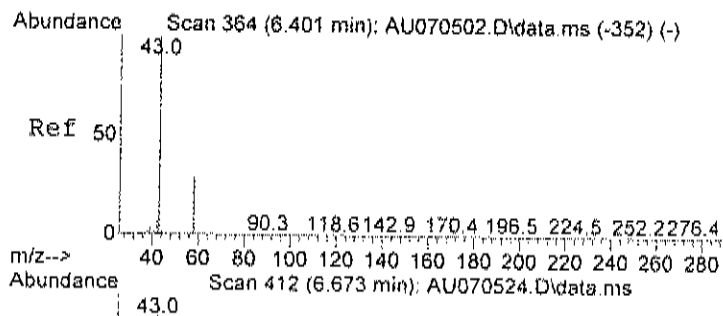
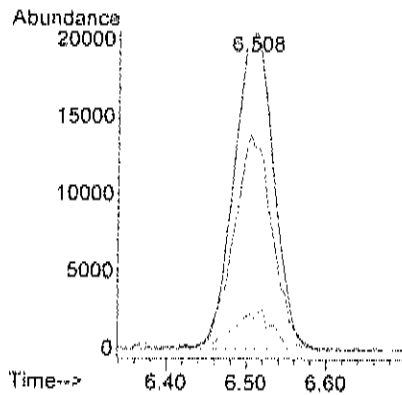
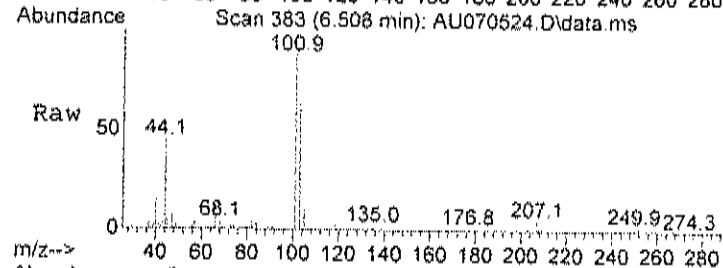
Tgt Ion	50	52	Ratio	100	0.0	Lower	6.9	Upper	46.9#
Resp	52003								





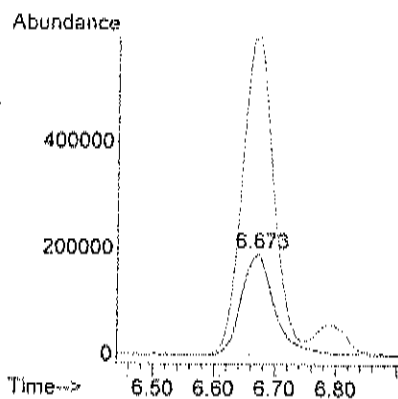
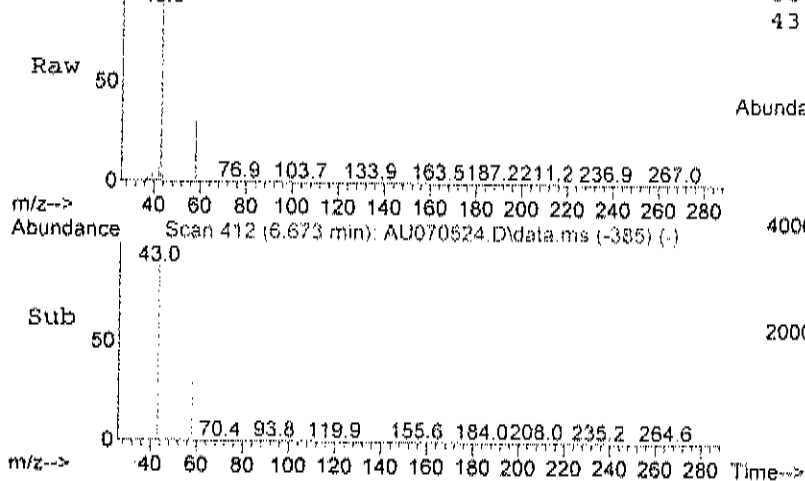
#14
 Freon 11
 Concen: 0.26 ppb
 RT: 6.508 min Scan# 383
 Delta R.T. 0.006 min
 Lab File: AU070524.D
 Acq: 5 Jul 2023 11:53 pm

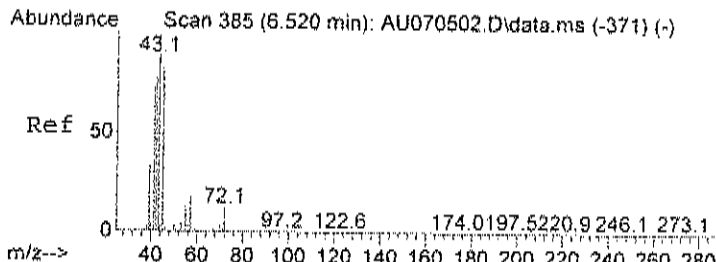
Tgt Ion:	101	Resp:	70603
Ion	Ratio	Lower	Upper
101	100		
103	67.0	44.0	84.0
105	12.5	0.0	31.4



#15
 Acetone
 Concen: 9.08 ppb
 RT: 6.673 min Scan# 412
 Delta R.T. 0.006 min
 Lab File: AU070524.D
 Acq: 5 Jul 2023 11:53 pm

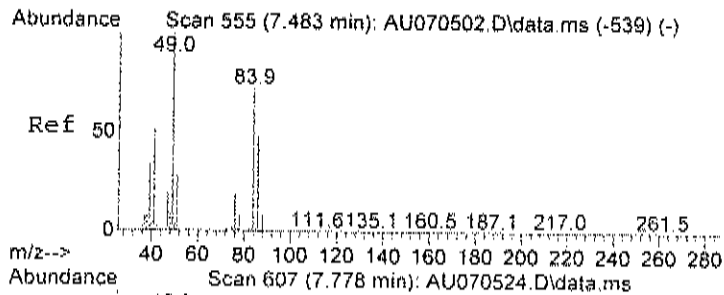
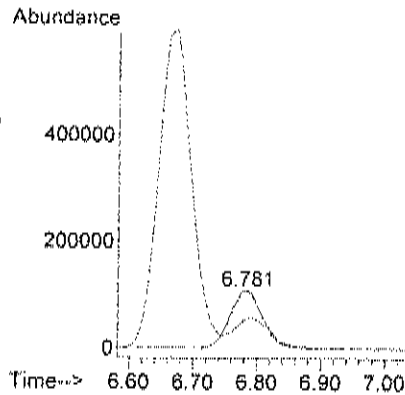
Tgt Ion:	58	Resp:	715877
Ion	Ratio	Lower	Upper
58	100		
43	321.9	224.5	284.5#





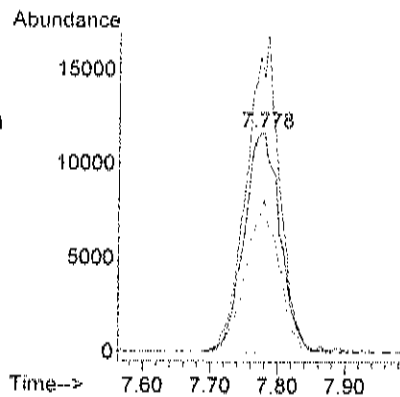
#17
Isopropyl alcohol
Concen: 1.92 ppb
RT: 6.781 min Scan# 431
Delta R.T. -0.006 min
Lab File: AU070524.D
Acq: 5 Jul 2023 11:53 pm

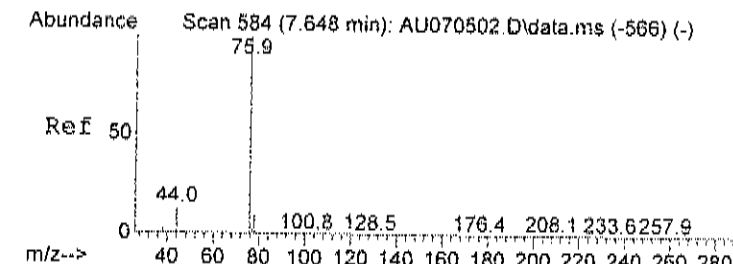
Tgt Ion:	45	Resp:	392949
Ion	Ratio	Lower	Upper
45	100		
43	0.0	110.3	150.3#



#21
Methylene chloride
Concen: 0.26 ppb
RT: 7.778 min Scan# 607
Delta R.T. 0.006 min
Lab File: AU070524.D
Acq: 5 Jul 2023 11:53 pm

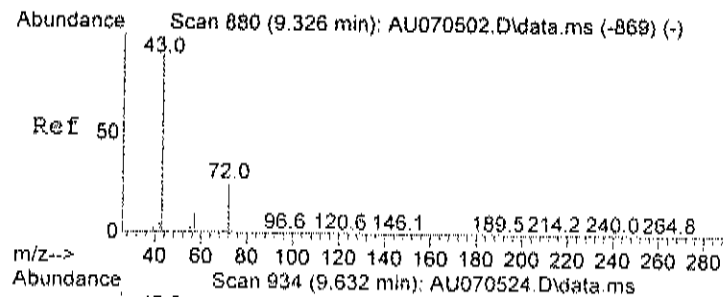
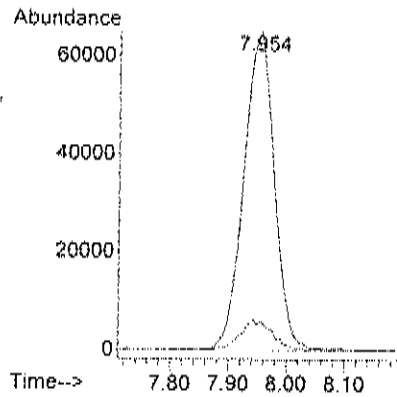
Tgt Ion:	84	Resp:	43459
Ion	Ratio	Lower	Upper
84	100		
49	132.1	93.0	133.0
86	64.0	43.7	83.7





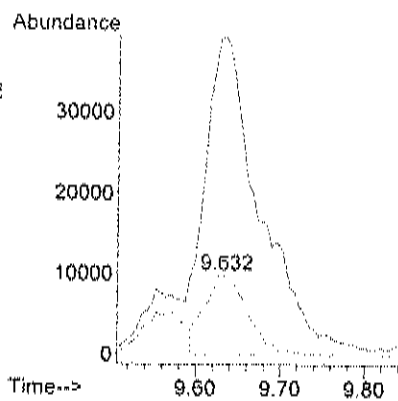
#23
Carbon disulfide
Concen: 0.68 ppb
RT: 7.954 min Scan# 638
Delta R.T. 0.006 min
Lab File: AU070524.D
Acq: 5 Jul 2023 11:53 pm

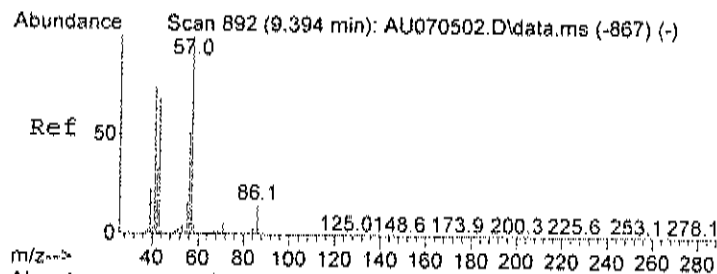
Tgt Ion:	76	Resp:	238778
Ion	Ratio	Lower	Upper
76	100		
78	10.0	0.0	29.3



#28
Methyl Ethyl Ketone
Concen: 0.57 ppb m
RT: 9.632 min Scan# 934
Delta R.T. 0.006 min
Lab File: AU070524.D
Acq: 5 Jul 2023 11:53 pm

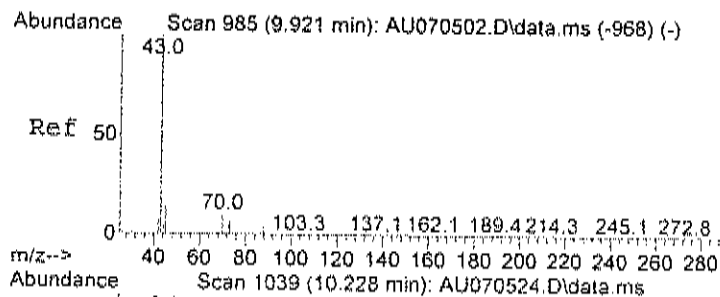
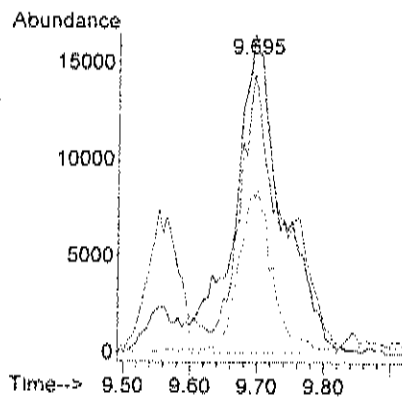
Tgt Ion:	72	Resp:	36116
Ion	Ratio	Lower	Upper
72	100		
43	0.0	389.0	429.0#
72	148.0	80.0	120.0#





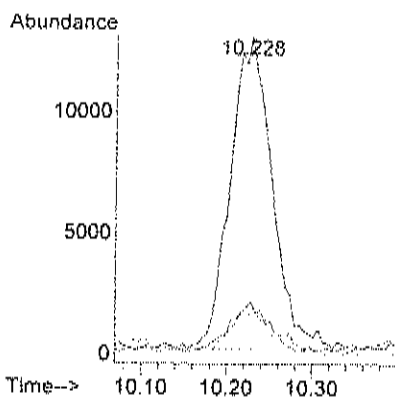
#30
Hexane
Concen: 0.41 ppb m
RT: 9.695 min Scan# 945
Delta R.T. 0.000 min
Lab File: AU070524.D
Acq: 5 Jul 2023 11:53 pm

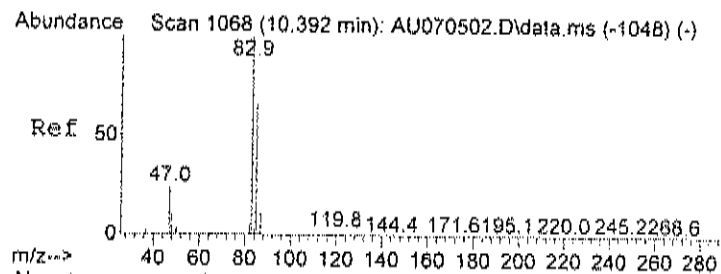
Tgt Ion	57	Resp	81270
Ion	Ratio	Lower	Upper
57	100		
41	78.2	37.3	77.3#
56	36.5	24.8	64.8



#31
Ethyl acetate
Concen: 0.16 ppb
RT: 10.228 min Scan# 1039
Delta R.T. 0.006 min
Lab File: AU070524.D
Acq: 5 Jul 2023 11:53 pm

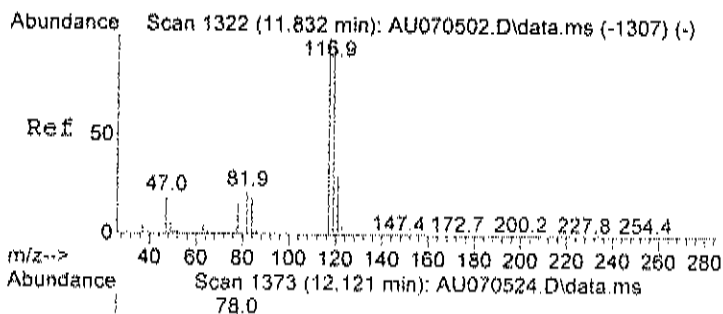
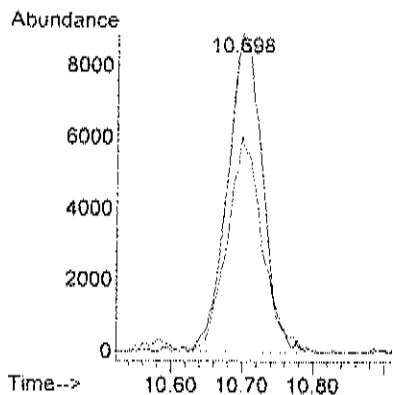
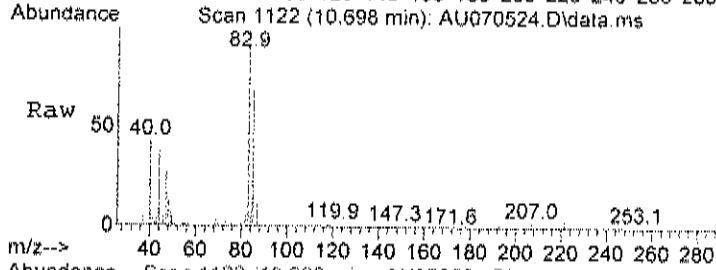
Tgt Ion	43	Resp	43834
Ion	Ratio	Lower	Upper
43	100		
45	16.8	0.0	35.3
61	14.0	0.0	37.0





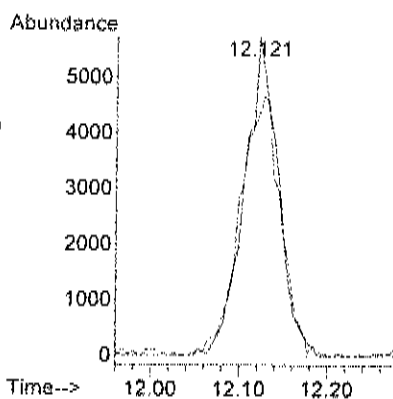
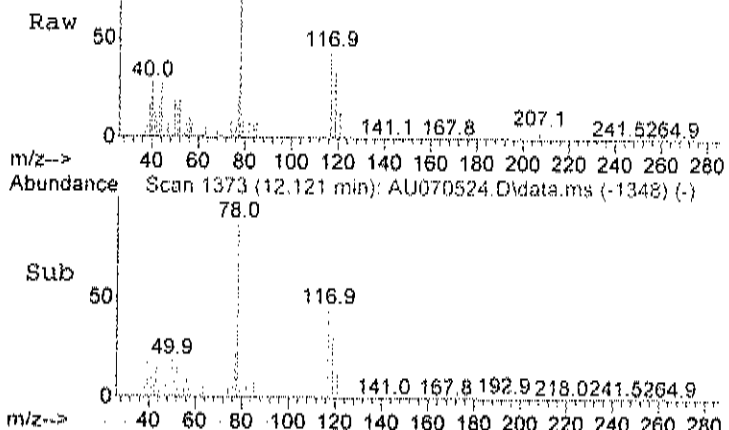
#32
Chloroform
Concen: 0.14 ppb
RT: 10.698 min Scan# 1122
Delta R.T. 0.000 min
Lab File: AU070524.D
Acq: 5 Jul 2023 11:53 pm

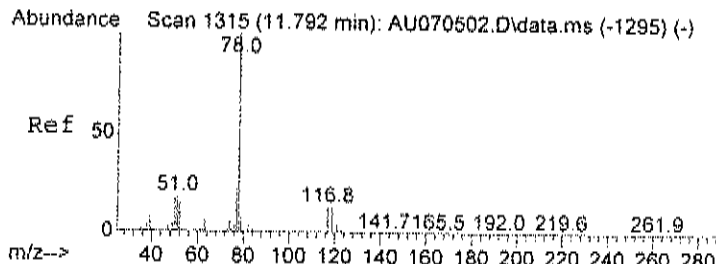
Tgt Ion	83	Resp	30571
Ion	Ratio	Lower	Upper
83	100		
85	67.9	44.6	84.6



#38
Carbon tetrachloride
Concen: 0.09 ppb
RT: 12.121 min Scan# 1373
Delta R.T. -0.006 min
Lab File: AU070524.D
Acq: 5 Jul 2023 11:53 pm

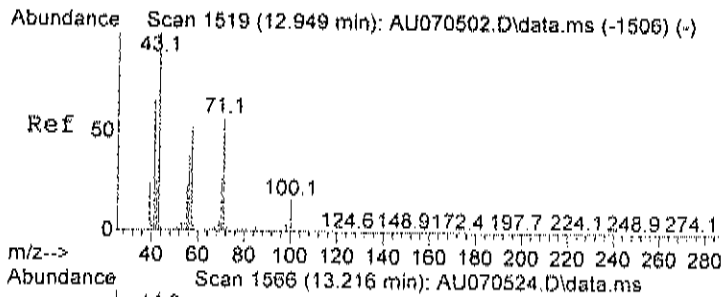
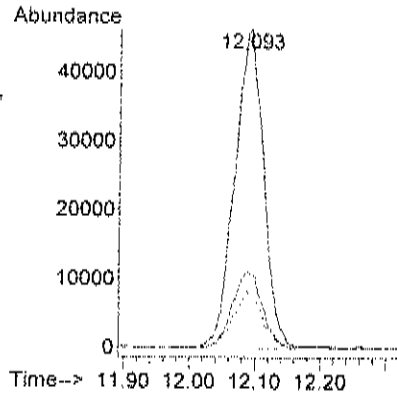
Tgt Ion	117	Resp	15376
Ion	Ratio	Lower	Upper
117	100		
119	98.5	76.7	116.7





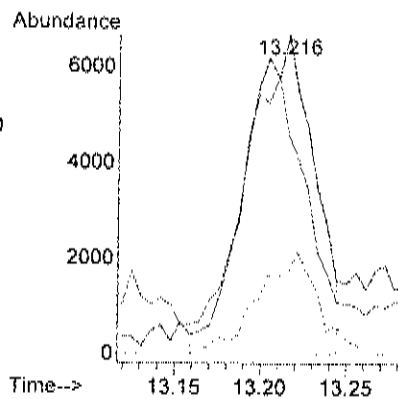
#39
Benzene
Concen: 0.55 ppb
RT: 12.093 min Scan# 1368
Delta R.T. 0.000 min
Lab File: AU070524.D
Acq: 5 Jul 2023 11:53 pm

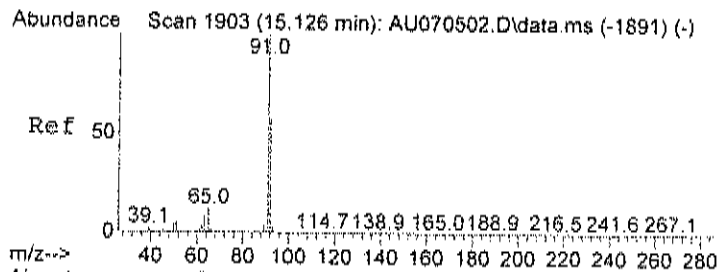
Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.8	3.8	43.8
51	18.2	0.0	35.4



#43
Heptane
Concen: 0.11 ppb m
RT: 13.216 min Scan# 1566
Delta R.T. 0.000 min
Lab File: AU070524.D
Acq: 5 Jul 2023 11:53 pm

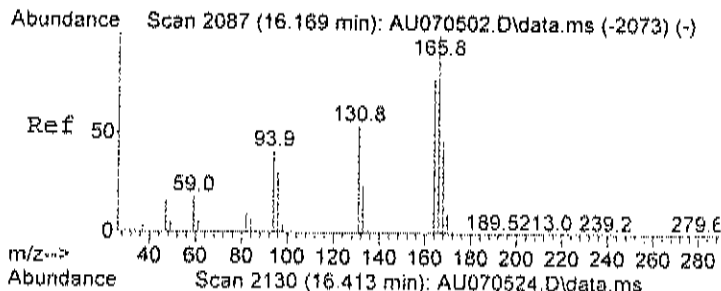
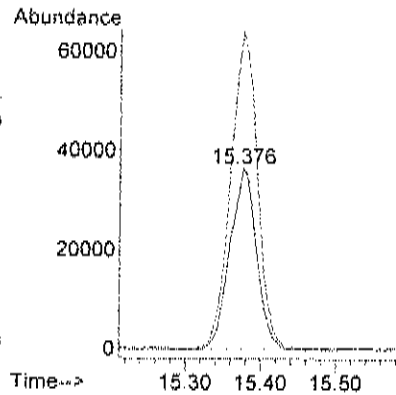
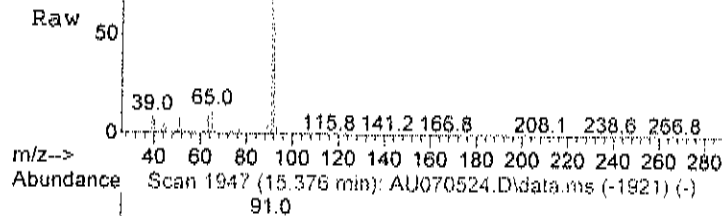
Tgt Ion	Ratio	Lower	Upper
43	100		
57	98.9	40.9	80.9#
71	28.2	51.1	91.1#





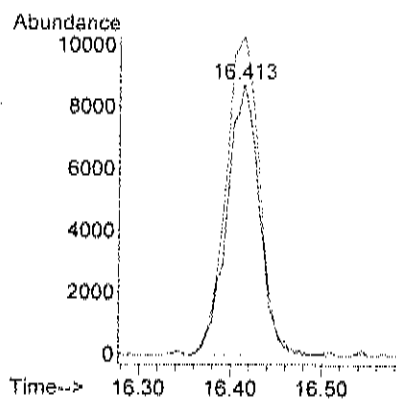
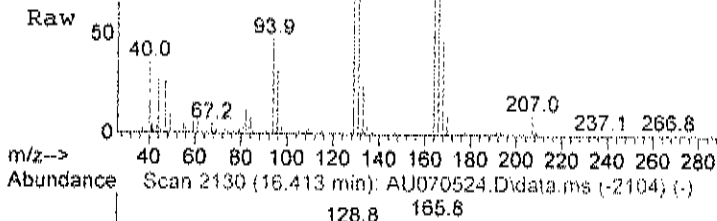
#51
Toluene
Concen: 0.46 ppb
RT: 15.376 min Scan# 1947
Delta R.T. 0.000 min
Lab File: AU070524.D
Acq: 5 Jul 2023 11:53 pm

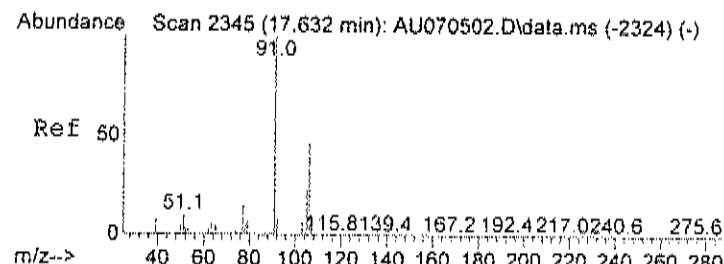
Tgt Ion	Ratio	Lower	Upper
92	100		
91	176.0	150.4	190.4



#56
Tetrachloroethylene
Concen: 0.19 ppb
RT: 16.413 min Scan# 2130
Delta R.T. 0.000 min
Lab File: AU070524.D
Acq: 5 Jul 2023 11:53 pm

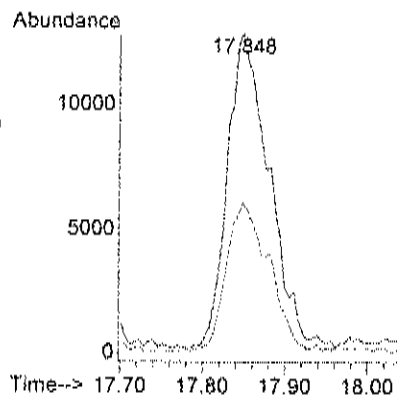
Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.0	107.9	147.9





#59
m&p-xylene
Concen: 0.13 ppb
RT: 17.848 min Scan# 2383
Delta R.T. -0.017 min
Lab File: AU070524.D
Acq: 5 Jul 2023 11:53 pm

Tgt Ion: 91 Resp: 44934
Ion Ratio Lower Upper
91 100
106 48.5 32.1 72.1



Data Path : C:\msdchem\1\data\
Data File : AU070624.D
Acq On : 6 Jul 2023 10:28 pm
Operator : RJP
Sample : C2307002-007A 10X
Misc : A629_1UG
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 07 05:02:08 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

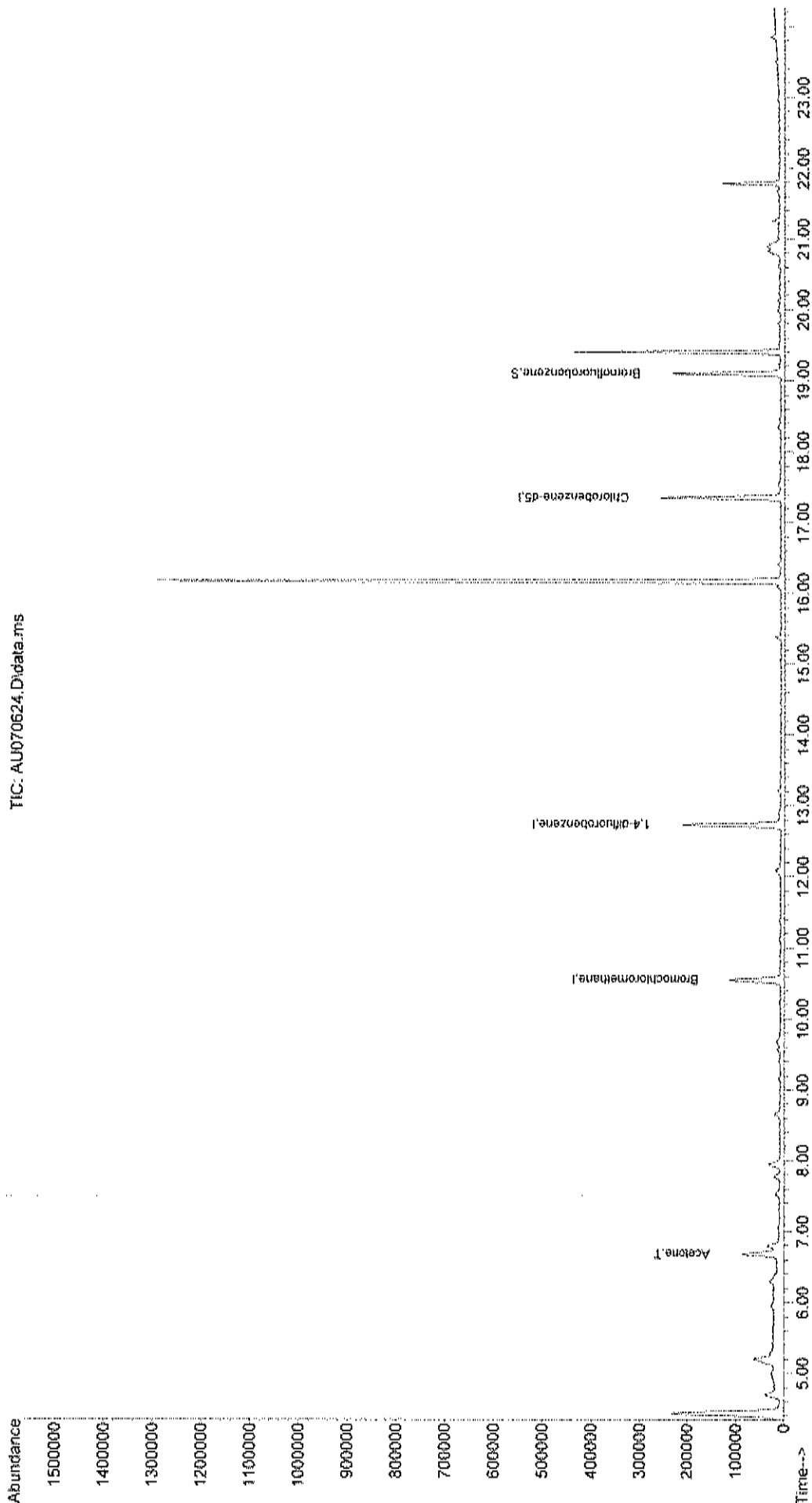
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

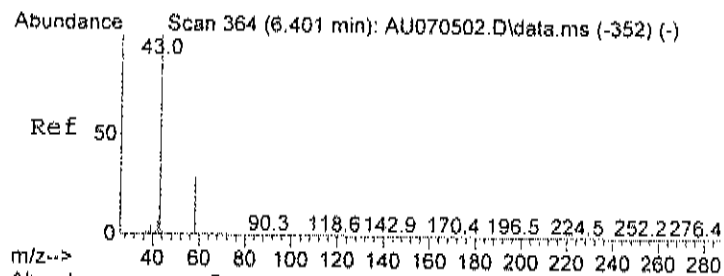
Internal Standards						
1) Bromochloromethane	10.551	128	52962	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.728	114	245814	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	208656	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	113844	0.72	ppb	0.05
Spiked Amount	1.000	Range 70 - 130	Recovery	=	72.00%	
Target Compounds						
15) Acetone	6.678	58	56401m	0.90	ppb	Qvalue

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

Data Path : C:\msdchem\1\data\
Data File : AU070624.D
Acq On : 6 Jul 2023 10:28 pm
Operator : RJP
Sample : C2307002-007A 10X
Misc : A629_1UG
ALS Vial : 20 Sample Multiplier: 1

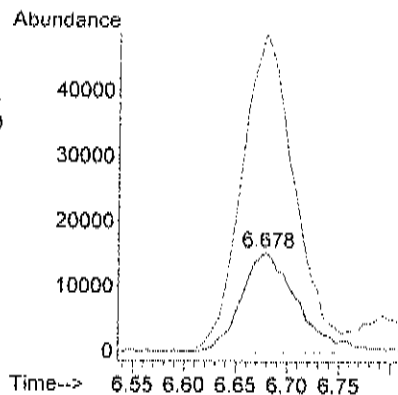
Quant Time: Jul 07 05:02:08 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration





#15
Acetone
Concen: 0.90 ppb m
RT: 6.678 min Scan# 413
Delta R.T. 0.011 min
Lab File: AU070624.D
Acq: 6 Jul 2023 10:28 pm

Tgt Ion: 58 Resp: 56401
Ion Ratio Lower Upper
58 100
43 330.8 224.5 284.5#



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-7

Lab Order: C2307002

Tag Number: 83,184

Project: IKEA Rcd Hook

Collection Date: 6/29/2023

Lab ID: C2307002-008A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-4			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC				Analyst: RJP
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2,4-Trimethylbenzene	0.33	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,3,5-Trimethylbenzene	0.10	0.15	J	ppbV	1	7/6/2023 12:37:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,3-Dichlorobenzene	0.14	0.15	J	ppbV	1	7/6/2023 12:37:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 12:37:00 AM
2,2,4-trimethylpentane	0.12	0.15	J	ppbV	1	7/6/2023 12:37:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Acetone	16	3.0		ppbV	10	7/6/2023 11:11:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Benzene	0.72	0.15		ppbV	1	7/6/2023 12:37:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Carbon disulfide	30	6.0		ppbV	40	7/6/2023 11:54:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Chloroform	2.2	1.5		ppbV	10	7/6/2023 11:11:00 PM
Chloromethane	0.71	0.15		ppbV	1	7/6/2023 12:37:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM

Qualifiers: Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 15 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-008A

Client Sample ID: SVW-7
 Tag Number: 83,184
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Ethyl acetate	0.33	0.15		ppbV	1	7/6/2023 12:37:00 AM
Ethylbenzene	0.14	0.15	J	ppbV	1	7/6/2023 12:37:00 AM
Freon 11	0.44	0.15		ppbV	1	7/6/2023 12:37:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Freon 12	0.55	0.15		ppbV	1	7/6/2023 12:37:00 AM
Heptane	0.16	0.15		ppbV	1	7/6/2023 12:37:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Hexane	0.25	0.15		ppbV	1	7/6/2023 12:37:00 AM
Isopropyl alcohol	1.8	0.15		ppbV	1	7/6/2023 12:37:00 AM
m&p-Xylene	0.30	0.30		ppbV	1	7/6/2023 12:37:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 12:37:00 AM
Methyl Ethyl Ketone	0.70	0.30		ppbV	1	7/6/2023 12:37:00 AM
Methyl Isobutyl Ketone	0.90	0.30		ppbV	1	7/6/2023 12:37:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Methylene chloride	0.26	0.15		ppbV	1	7/6/2023 12:37:00 AM
o-Xylene	0.24	0.15		ppbV	1	7/6/2023 12:37:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Styrene	0.13	0.15	J	ppbV	1	7/6/2023 12:37:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Tetrahydrofuran	0.68	0.15		ppbV	1	7/6/2023 12:37:00 AM
Toluene	1.4	0.15		ppbV	1	7/6/2023 12:37:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:37:00 AM
Surr: Bromofluorobenzene	96.0	70-130		%REC	1	7/6/2023 12:37:00 AM

Qualifiers: . Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 16 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-7

Lab Order: C2307002

Tag Number: 83,184

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-008A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 12:37:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 12:37:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 12:37:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 12:37:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 12:37:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 12:37:00 AM
1,2,4-Trimethylbenzene	1.6	0.74		ug/m3	1	7/6/2023 12:37:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 12:37:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 12:37:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 12:37:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 12:37:00 AM
1,3,5-Trimethylbenzene	0.49	0.74	J	ug/m3	1	7/6/2023 12:37:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 12:37:00 AM
1,3-Dichlorobenzene	0.84	0.90	J	ug/m3	1	7/6/2023 12:37:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 12:37:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 12:37:00 AM
2,2,4-trimethylpentane	0.56	0.70	J	ug/m3	1	7/6/2023 12:37:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 12:37:00 AM
Acetone	38	7.1		ug/m3	10	7/6/2023 11:11:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 12:37:00 AM
Benzene	2.3	0.48		ug/m3	1	7/6/2023 12:37:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 12:37:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 12:37:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 12:37:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 12:37:00 AM
Carbon disulfide	95	19		ug/m3	40	7/6/2023 11:54:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 12:37:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 12:37:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	7/6/2023 12:37:00 AM
Chloroform	11	7.3		ug/m3	10	7/6/2023 11:11:00 PM
Chloromethane	1.5	0.31		ug/m3	1	7/6/2023 12:37:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 12:37:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 12:37:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/6/2023 12:37:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 12:37:00 AM
Ethyl acetate	1.2	0.54		ug/m3	1	7/6/2023 12:37:00 AM
Ethylbenzene	0.61	0.65	J	ug/m3	1	7/6/2023 12:37:00 AM
Freon 11	2.5	0.84		ug/m3	1	7/6/2023 12:37:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 12:37:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 12:37:00 AM

Qualifiers: - Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 15 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-7

Lab Order: C2307002

Tag Number: 83.184

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-008A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.7	0.74		ug/m3	1	7/6/2023 12:37:00 AM
Heptane	0.66	0.61		ug/m3	1	7/6/2023 12:37:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 12:37:00 AM
Hexane	0.88	0.53		ug/m3	1	7/6/2023 12:37:00 AM
Isopropyl alcohol	4.5	0.37		ug/m3	1	7/6/2023 12:37:00 AM
m&p-Xylene	1.3	1.3		ug/m3	1	7/6/2023 12:37:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 12:37:00 AM
Methyl Ethyl Ketone	2.1	0.88		ug/m3	1	7/6/2023 12:37:00 AM
Methyl Isobutyl Ketone	3.7	1.2		ug/m3	1	7/6/2023 12:37:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 12:37:00 AM
Methylene chloride	0.90	0.52		ug/m3	1	7/6/2023 12:37:00 AM
o-Xylene	1.0	0.65		ug/m3	1	7/6/2023 12:37:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 12:37:00 AM
Styrene	0.55	0.64	J	ug/m3	1	7/6/2023 12:37:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	7/6/2023 12:37:00 AM
Tetrahydrofuran	2.0	0.44		ug/m3	1	7/6/2023 12:37:00 AM
Toluene	5.3	0.57		ug/m3	1	7/6/2023 12:37:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 12:37:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 12:37:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/6/2023 12:37:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 12:37:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 12:37:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 12:37:00 AM

Qualifiers: / Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 16 of 40

Data Path : C:\msdchem\1\data\
 Data File : AU070525.D
 Acq On : 6 Jul 2023 12:37 am
 Operator : RJP
 Sample : C2307002-008A
 Misc : A629_1UG
 ALS Vial : 13 Sample Multiplier: 1

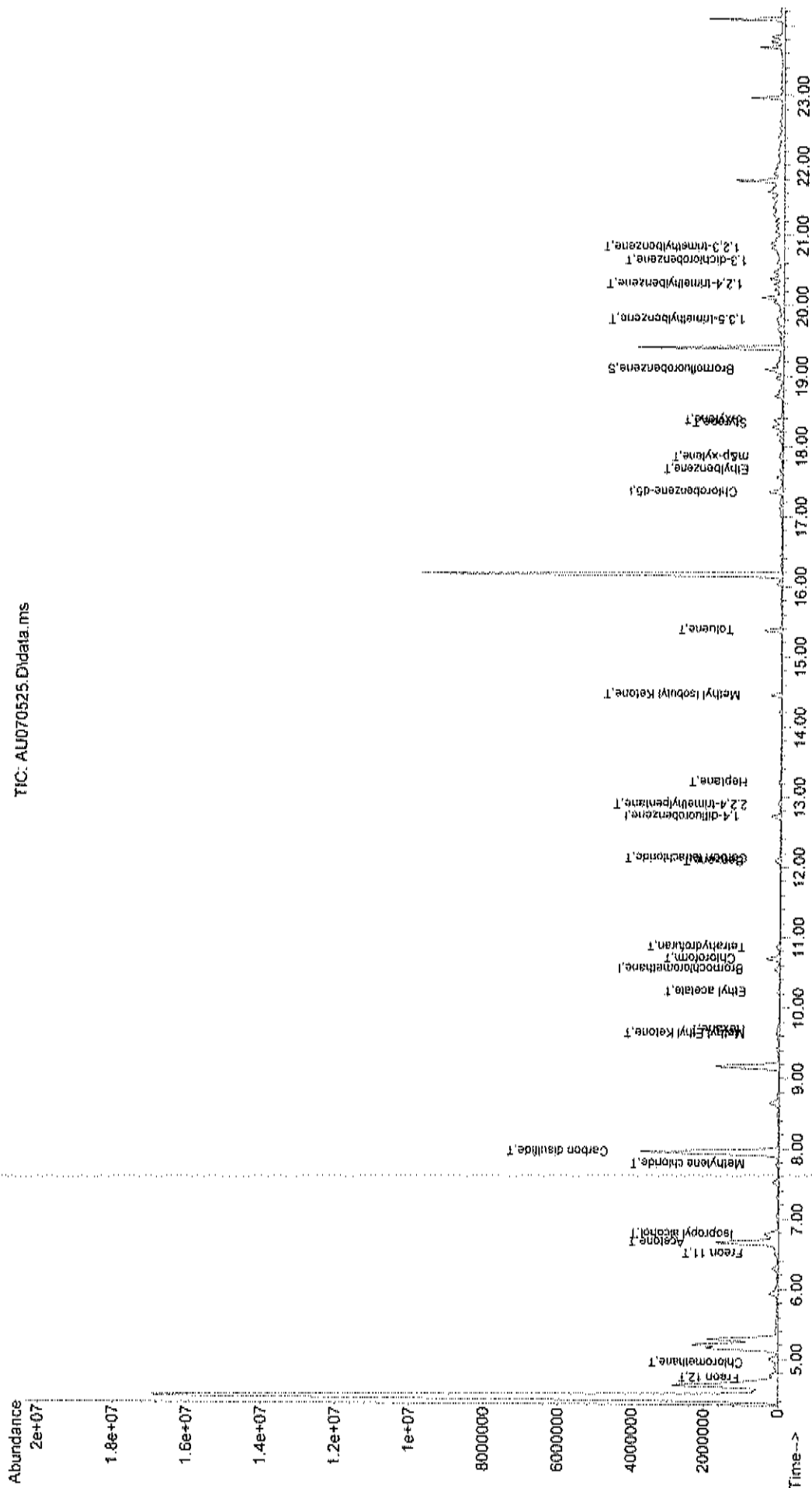
Quant Time: Jul 06 07:55:39 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

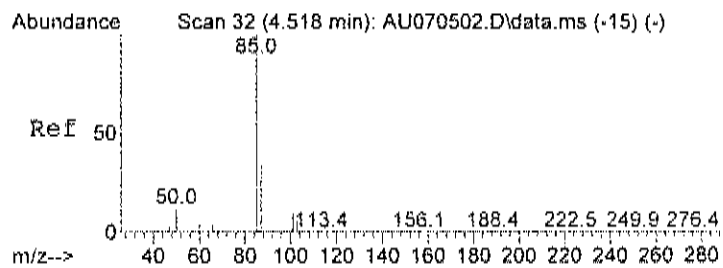
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.551	128	66019	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.722	114	307667	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	282522	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.089	95	203961	0.96	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	96.00%
Target Compounds						
						Qvalue
3) Freon 12	4.734	85	148984	0.55	ppb	99
4) Chloromethane	4.949	50	61229m	0.71	ppb	
14) Freon 11	6.508	101	121208	0.44	ppb	98
15) Acetone	6.662	58	1307958	16.78	ppb	# 69
17) Isopropyl alcohol	6.781	45	371396	1.84	ppb	# 55
21) Methylene chloride	7.784	84	42830	0.26	ppb	91
23) Carbon disulfide	7.949	76	10596178	30.49	ppb	99
28) Methyl Ethyl Ketone	9.632	72	43311m	0.70	ppb	
30) Hexane	9.689	57	49655m	0.25	ppb	
31) Ethyl acetate	10.228	43	91346	0.33	ppb	95
32) Chloroform	10.698	83	490186	2.25	ppb	100
33) Tetrahydrofuran	10.863	42	89195	0.68	ppb	86
38) Carbon tetrachloride	12.127	117	15426	0.09	ppb	96
39) Benzene	12.087	78	188246	0.72	ppb	97
42) 2,2,4-trimethylpentane	12.893	57	53074	0.12	ppb	# 43
43) Heptane	13.216	43	27920m	0.16	ppb	
51) Toluene	15.382	92	277277	1.40	ppb	96
52) Methyl Isobutyl Ketone	14.452	43	250223	0.90	ppb	90
58) Ethylbenzene	17.666	91	59301	0.14	ppb	99
59) m&p-xylene	17.848	91	103311	0.30	ppb	96
61) Styrene	18.335	104	34189	0.13	ppb	77
63) o-xylene	18.375	91	82987	0.24	ppb	91
70) 1,3,5-trimethylbenzene	19.798	105	40708m	0.10	ppb	
71) 1,2,4-trimethylbenzene	20.303	105	128291m	0.33	ppb	
72) 1,3-dichlorobenzene	20.637	146	28284m	0.14	ppb	
75) 1,2,3-trimethylbenzene	20.824	105	90288m	0.23	ppb	

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

Data Path : C:\msdchem\1\data\
 Data File : AU070525.D
 Acq On : 6 Jul 2023 12:37 am
 Operator : RJP
 Sample : C2307002-008A
 Misc : A629_1UG
 ALS Vial : 13 Sample Multiplier: 1
 Quant Time: Jul 06 07:55:39 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 Qlast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

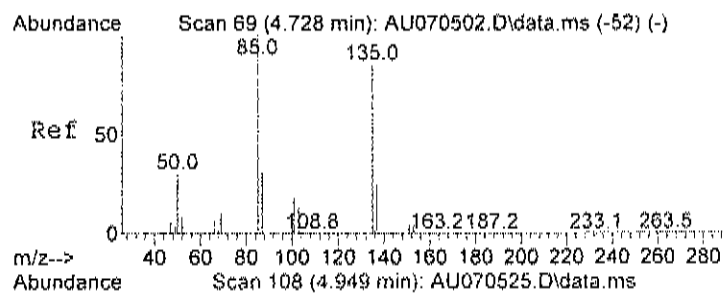
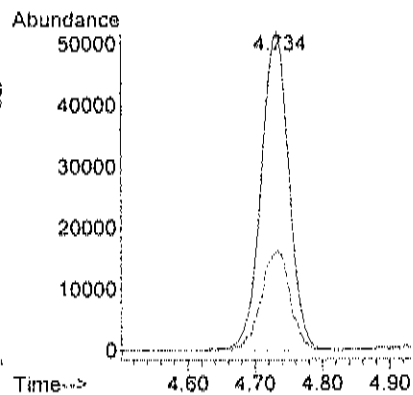
TIC: AU070525.D\data.ms





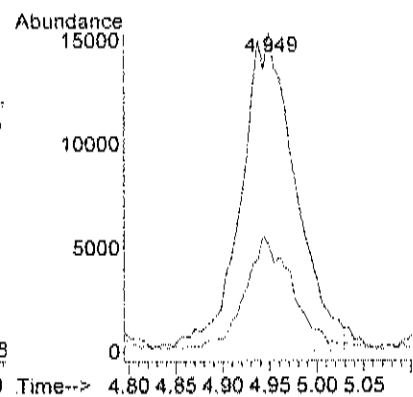
#3
Freon 12
Concen: 0.55 ppb
RT: 4.734 min Scan# 70
Delta R.T. 0.000 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

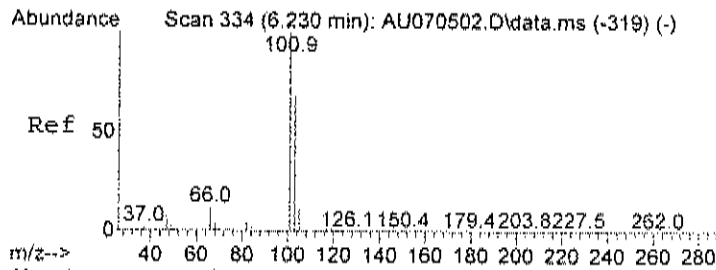
Tgt Ion	85	87	Ratio	100	32.8	Lower	13.4	Upper	53.4
Resp	148984								



#4
Chloromethane
Concen: 0.71 ppb m
RT: 4.949 min Scan# 108
Delta R.T. -0.006 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

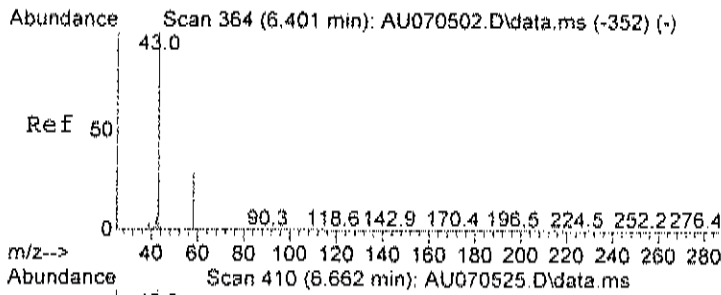
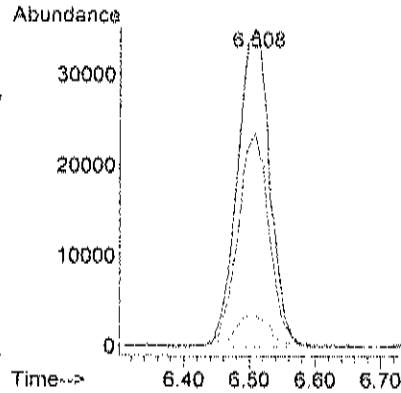
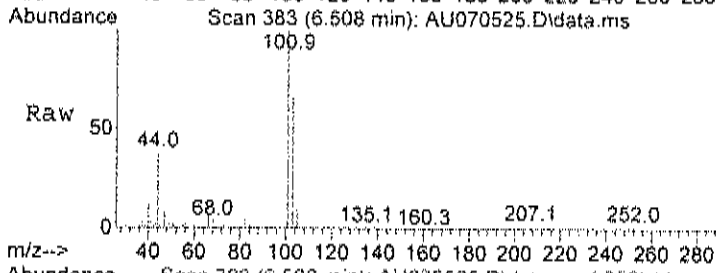
Tgt Ion	50	52	Ratio	100	0.0	Lower	6.9	Upper	46.9#
Resp	61229								





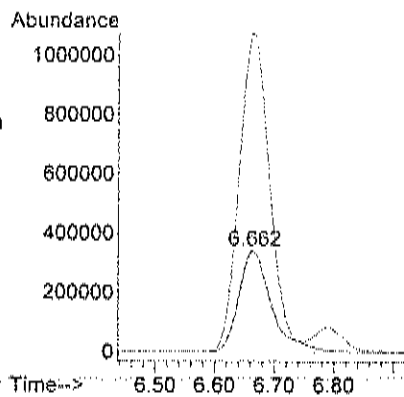
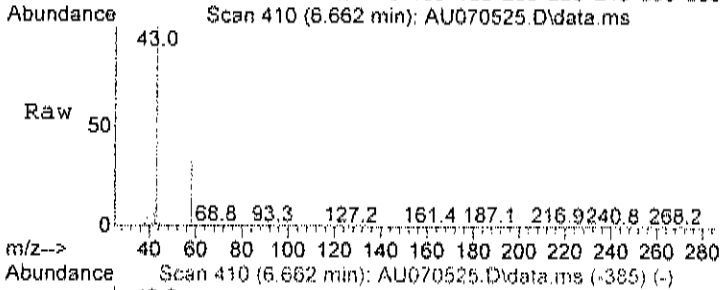
#14
Freon 11
Concen: 0.44 ppb
RT: 6.508 min Scan# 383
Delta R.T. 0.006 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

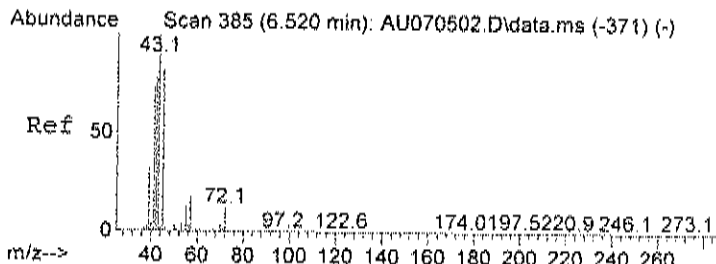
Tgt Ion	Ratio	Lower	Upper
101	100		
103	66.1	44.0	84.0
105	11.4	0.0	31.4



#15
Acetone
Concen: 16.78 ppb
RT: 6.662 min Scan# 410
Delta R.T. -0.006 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

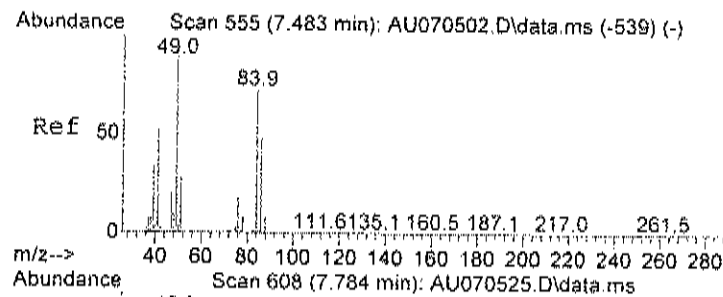
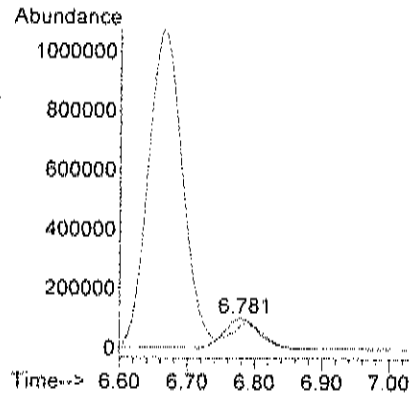
Tgt Ion	Ratio	Lower	Upper
58	100		
43	308.6	224.5	284.5#





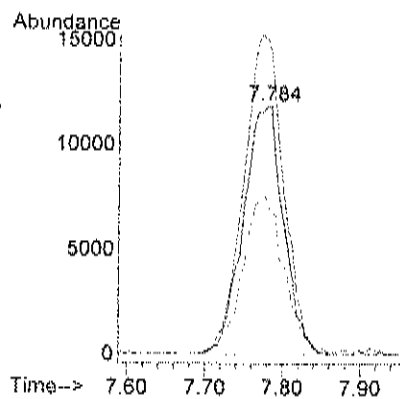
#17
Isopropyl alcohol
Concen: 1.84 ppb
RT: 6.781 min Scan# 431
Delta R.T. -0.006 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

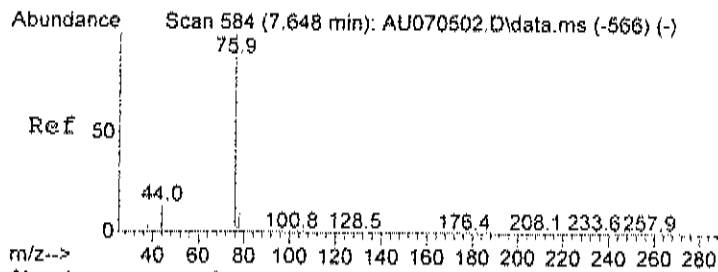
Tgt Ion: 45 Resp: 371396
Ion Ratio Lower Upper
45 100
43 77.2 110.3 150.3#



#21
Methylene chloride
Concen: 0.26 ppb
RT: 7.784 min Scan# 608
Delta R.T. 0.011 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

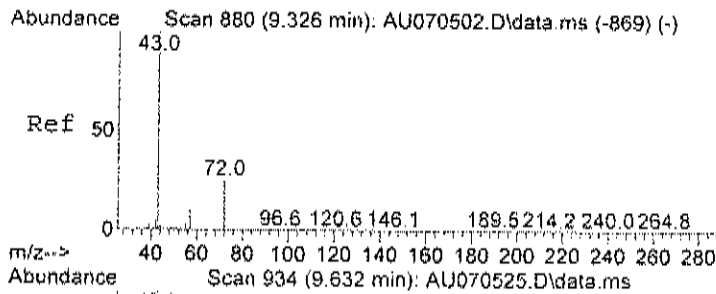
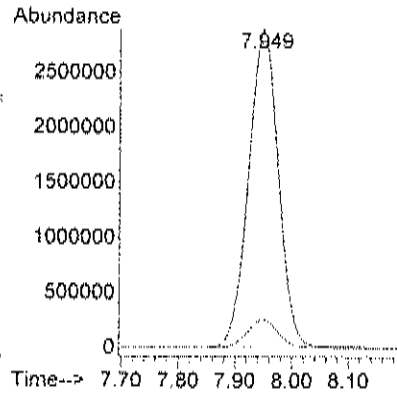
Tgt Ion: 84 Resp: 42830
Ion Ratio Lower Upper
84 100
49 127.4 93.0 133.0
86 64.8 43.7 83.7





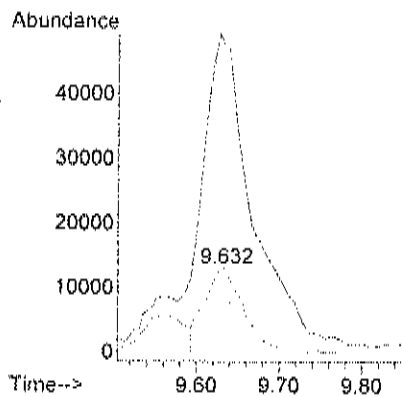
#23
Carbon disulfide
Concen: 30.49 ppb
RT: 7.949 min Scan# 637
Delta R.T. 0.000 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

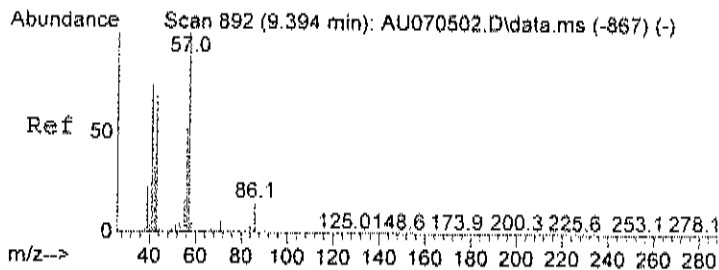
Tgt Ion: 76 Resp: 10596178
Ion Ratio Lower Upper
76 100
78 9.0 0.0 29.3



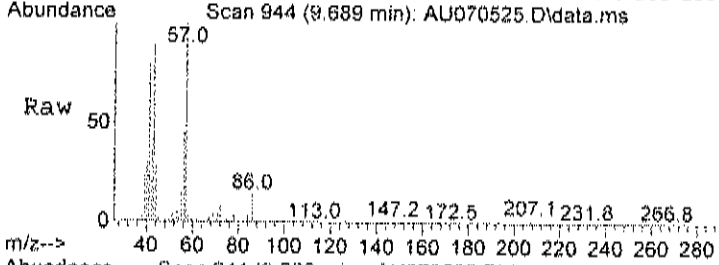
#28
Methyl Ethyl Ketone
Concen: 0.70 ppb m
RT: 9.632 min Scan# 934
Delta R.T. 0.006 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

Tgt Ion: 72 Resp: 43311
Ion Ratio Lower Upper
72 100
43 0.0 389.0 429.0#
72 143.1 80.0 120.0#

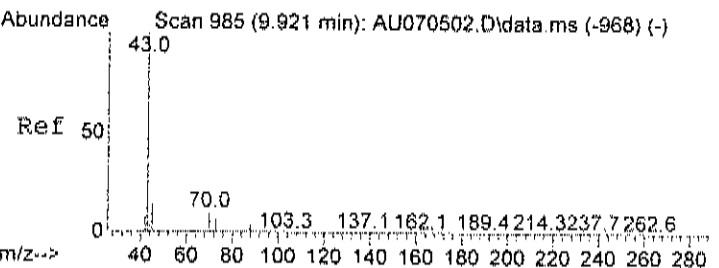
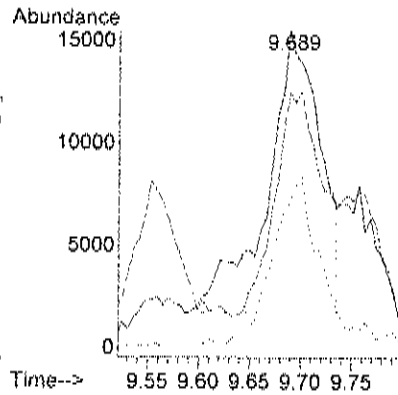
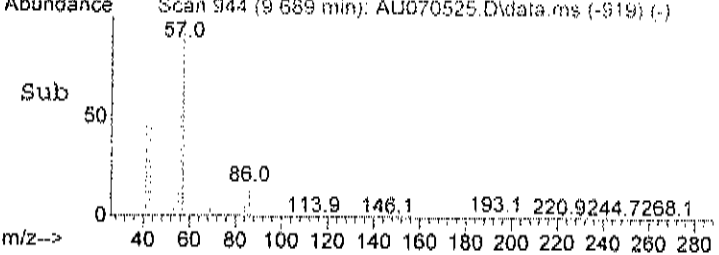




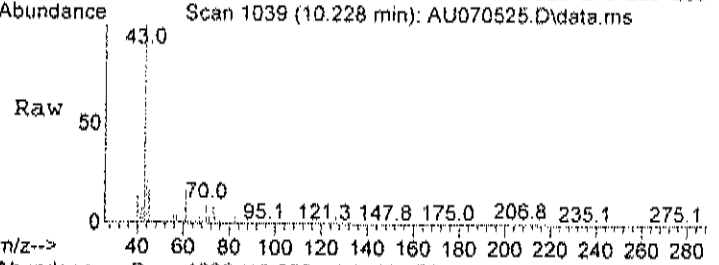
#30
Hexane
Concen: 0.25 ppb m
RT: 9.689 min Scan# 944
Delta R.T. -0.006 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am



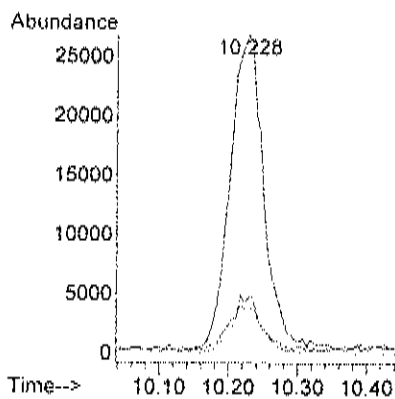
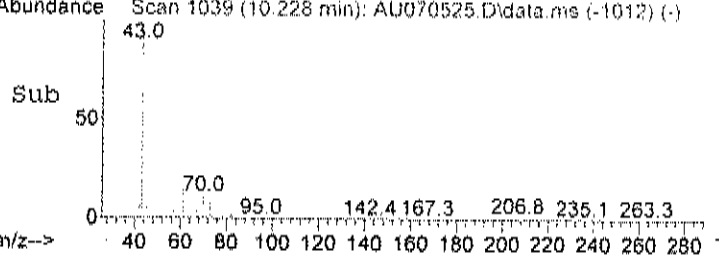
Tgt Ion: 57 Resp: 49655
Ion Ratio Lower Upper
57 100
41 123.3 37.3 77.3#
56 56.3 24.8 64.8

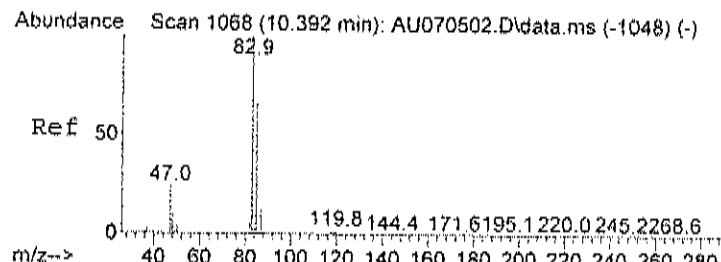


#31
Ethyl acetate
Concen: 0.33 ppb
RT: 10.228 min Scan# 1039
Delta R.T. 0.006 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am



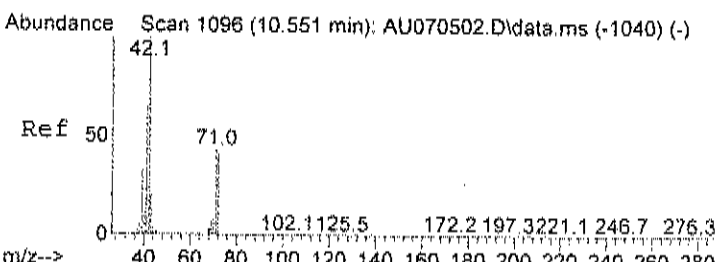
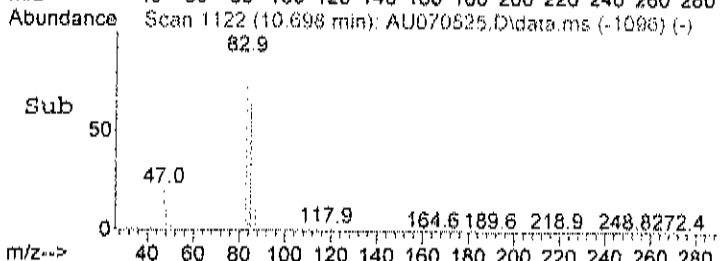
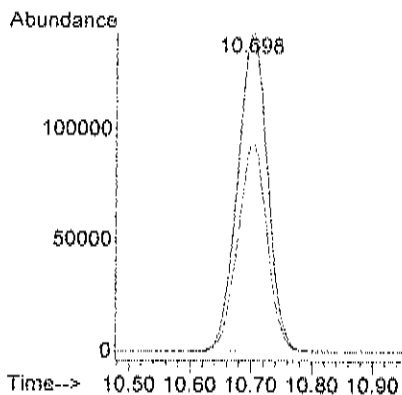
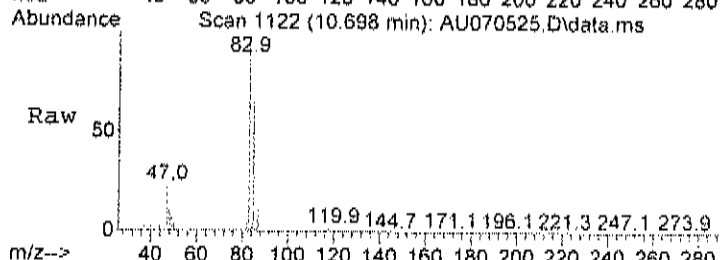
Tgt Ion: 43 Resp: 91346
Ion Ratio Lower Upper
43 100
45 16.7 0.0 35.3
61 14.6 0.0 37.0





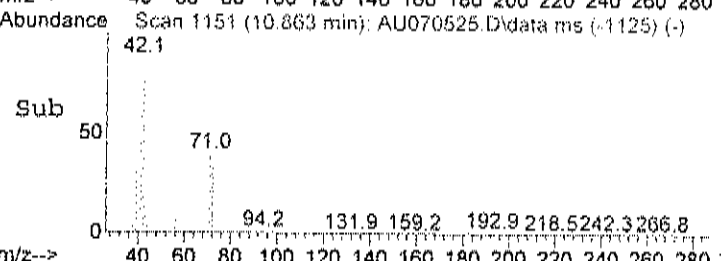
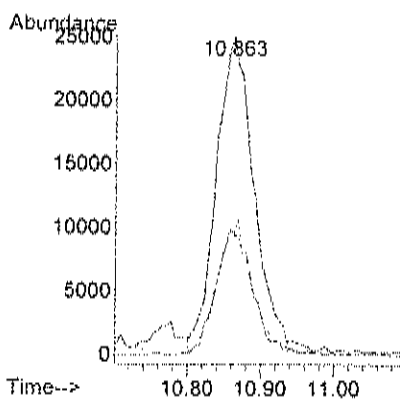
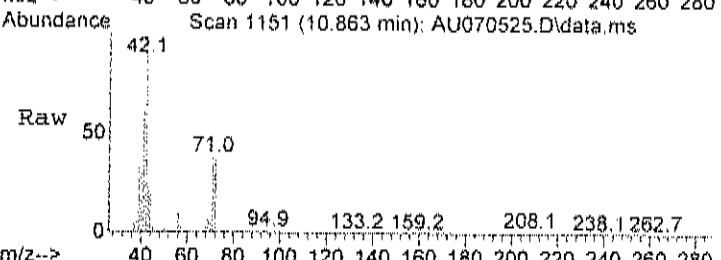
#32
Chloroform
Concen: 2.25 ppb
RT: 10.698 min Scan# 1122
Delta R.T. 0.000 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

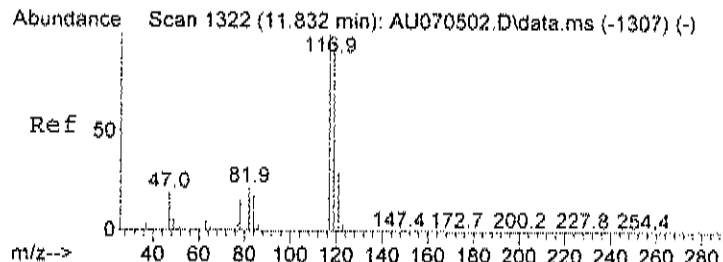
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	44.6	84.6



#33
Tetrahydrofuran
Concen: 0.68 ppb
RT: 10.863 min Scan# 1151
Delta R.T. 0.000 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

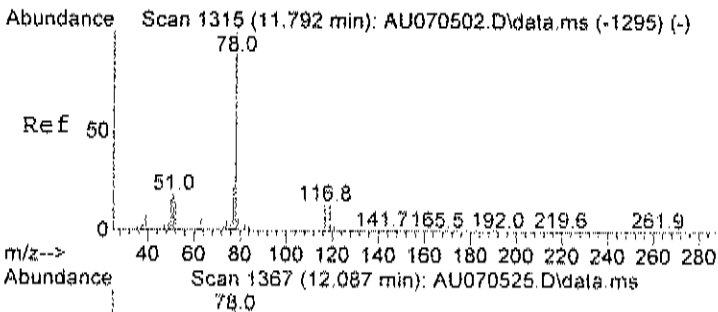
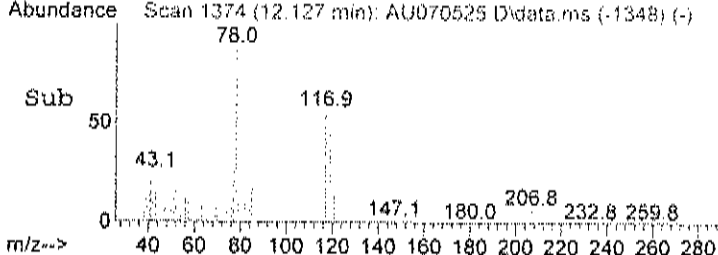
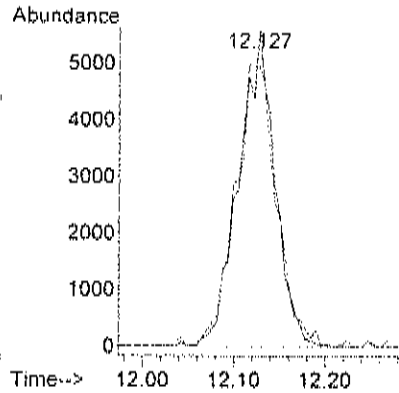
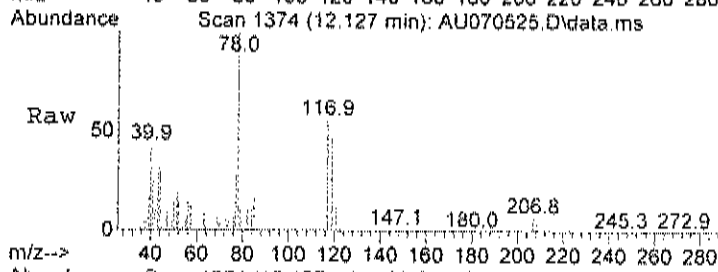
Tgt Ion	Ratio	Lower	Upper
42	100		
71	39.2	27.1	67.1
72	40.1	30.8	70.8





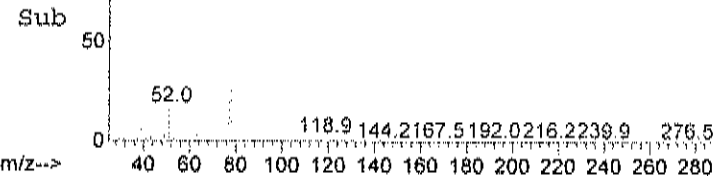
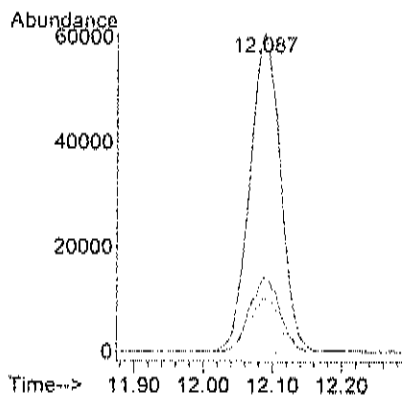
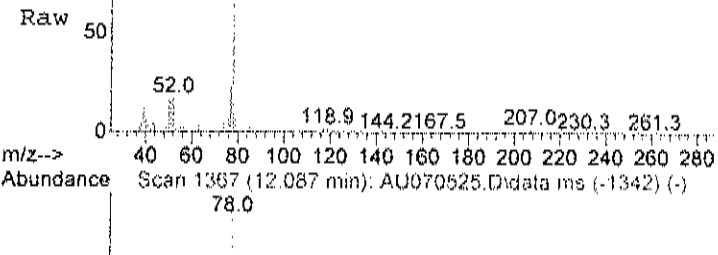
#38
Carbon tetrachloride
Concen: 0.09 ppb
RT: 12.127 min Scan# 1374
Delta R.T. 0.000 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

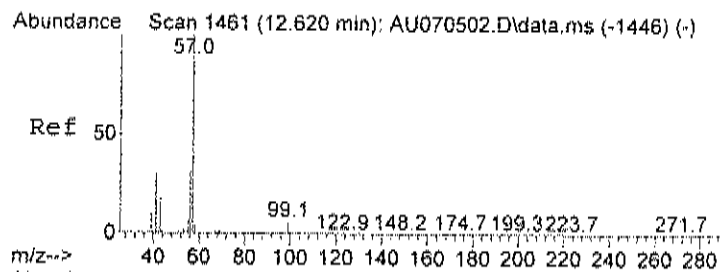
Tgt Ion	117	Resp	15426
Ion Ratio	Lower	Upper	
117	100		
119	100.2	76.7	116.7



#39
Benzene
Concen: 0.72 ppb
RT: 12.087 min Scan# 1367
Delta R.T. -0.006 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

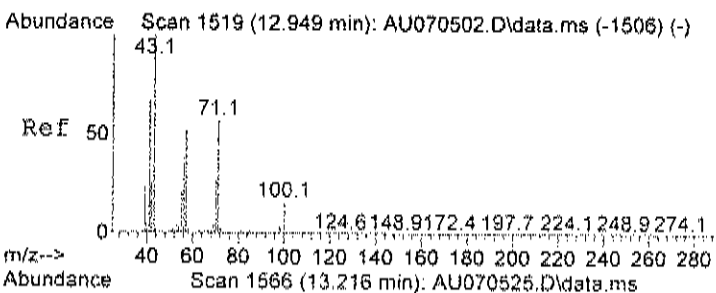
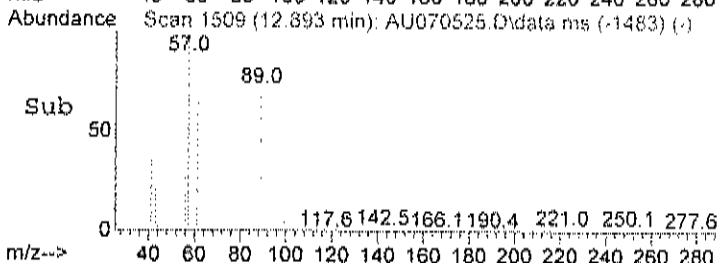
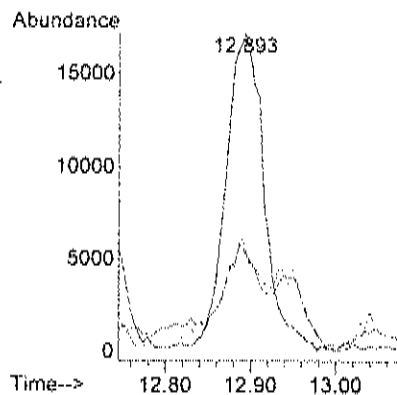
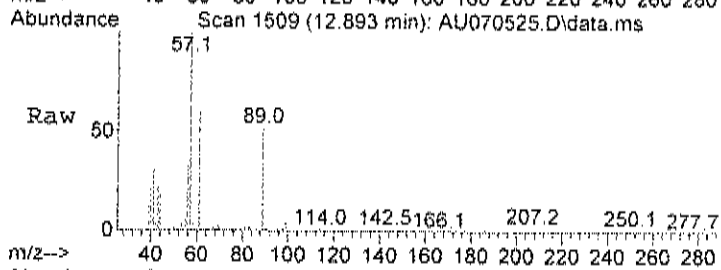
Tgt Ion	78	Resp	188246
Ion Ratio	Lower	Upper	
78	100		
77	23.8	3.8	43.8
51	18.1	0.0	35.4





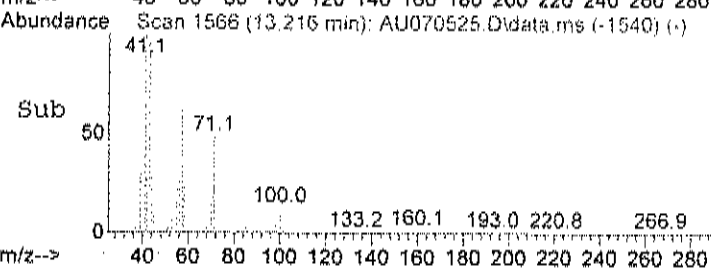
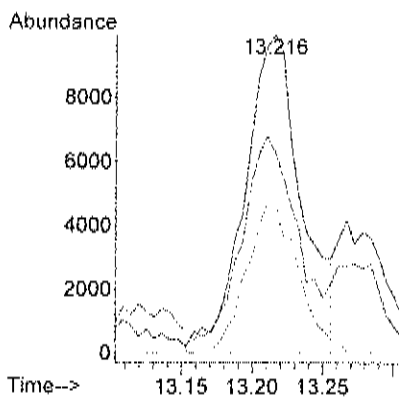
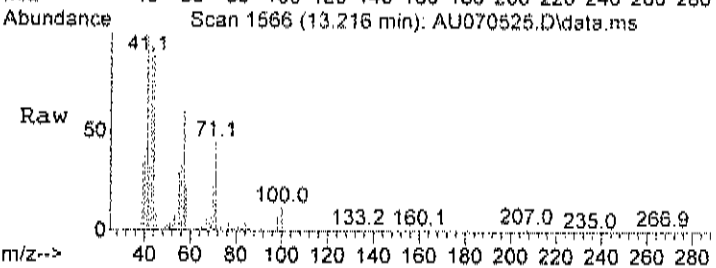
#42
2,2,4-trimethylpentane
Concen: 0.12 ppb
RT: 12.893 min Scan# 1509
Delta R.T. 0.000 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

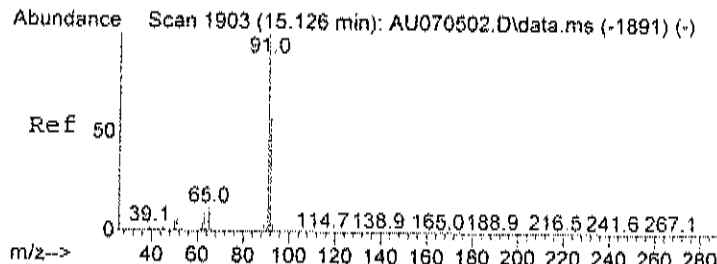
Tgt Ion	Ratio	Lower	Upper
57	100		
41	54.6	1.7	41.7#
56	57.2	10.7	50.7#



#43
Heptane
Concen: 0.16 ppb m
RT: 13.216 min Scan# 1566
Delta R.T. 0.000 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

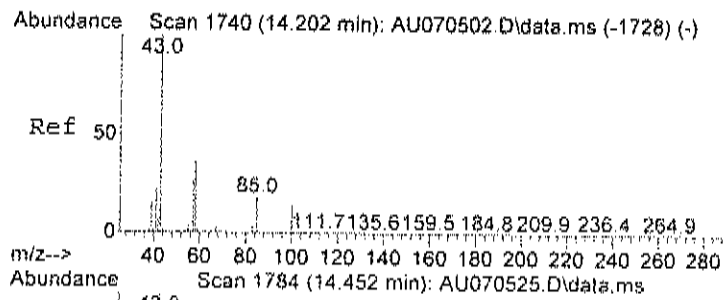
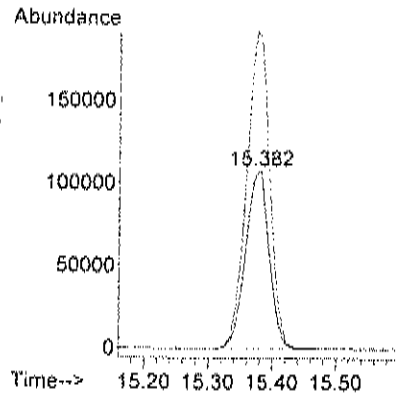
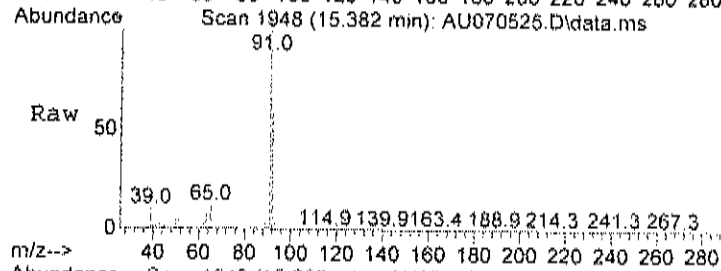
Tgt Ion	Ratio	Lower	Upper
43	100		
57	89.4	40.9	80.9#
71	43.5	51.1	91.1#





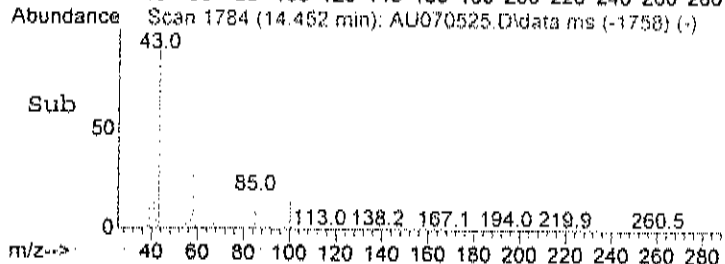
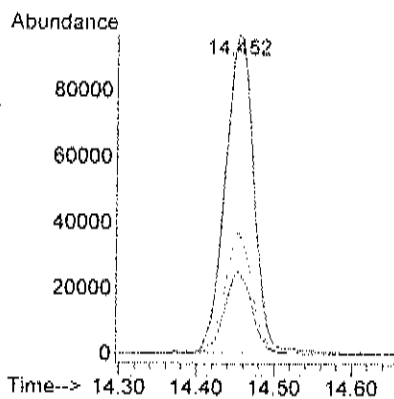
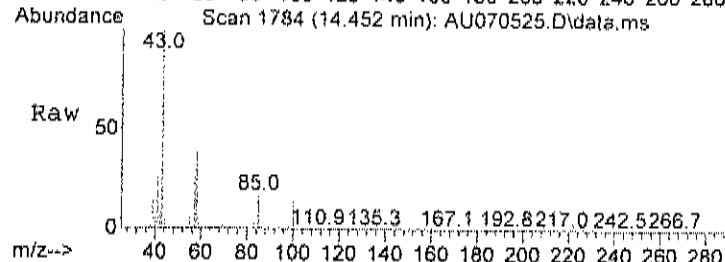
#51
Toluene
Concen: 1.40 ppb
RT: 15.382 min Scan# 1948
Delta R.T. 0.006 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

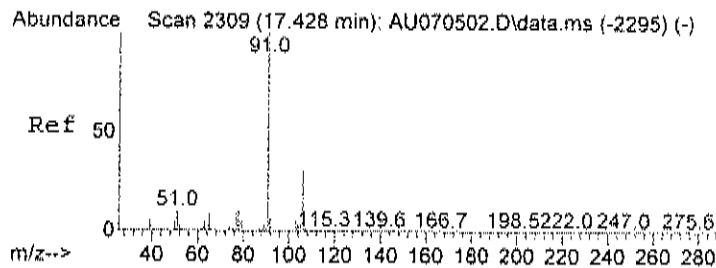
Tgt Ion	Ratio	Lower	Upper
92	100		
91	175.2	150.4	190.4



#52
Methyl Isobutyl Ketone
Concen: 0.90 ppb
RT: 14.452 min Scan# 1784
Delta R.T. 0.000 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

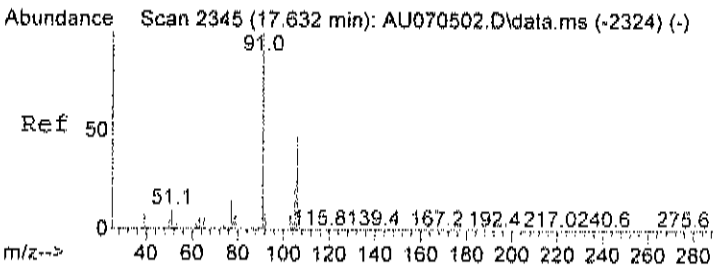
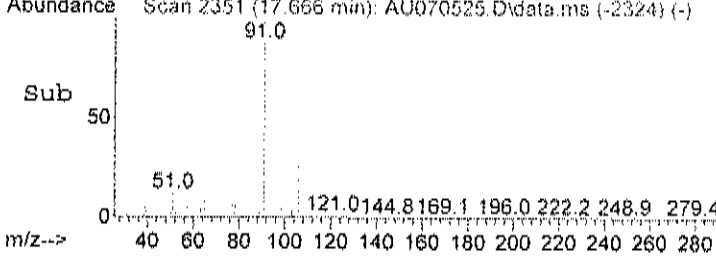
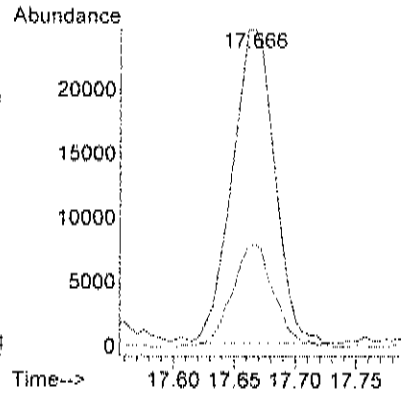
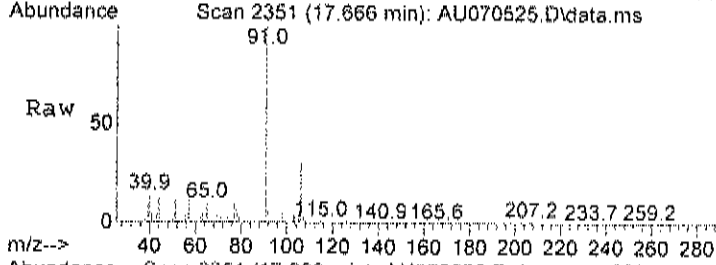
Tgt Ion	Ratio	Lower	Upper
43	100		
57	24.8	7.9	47.9
58	36.9	24.7	64.7





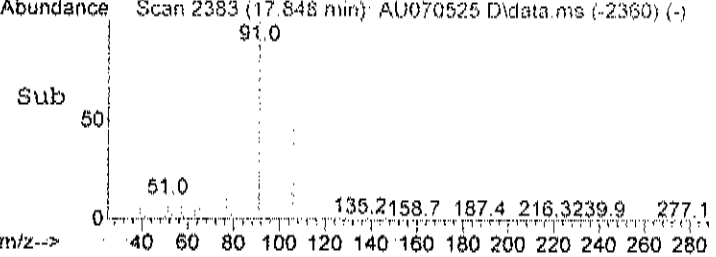
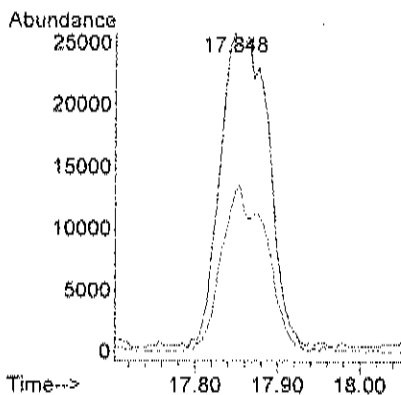
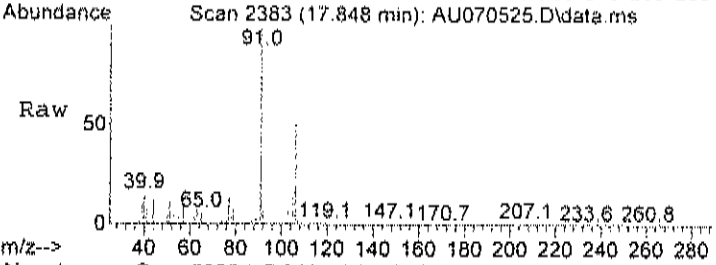
#58
Ethylbenzene
Concen: 0.14 ppb
RT: 17.666 min Scan# 2351
Delta R.T. 0.006 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

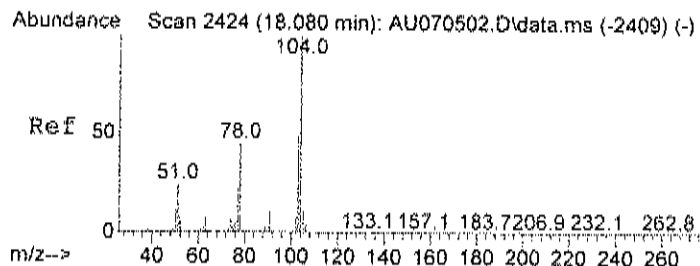
Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.4	13.1	53.1



#59
m&p-xylene
Concen: 0.30 ppb
RT: 17.848 min Scan# 2383
Delta R.T. -0.017 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

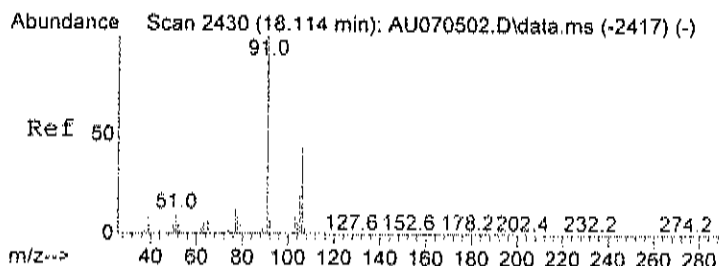
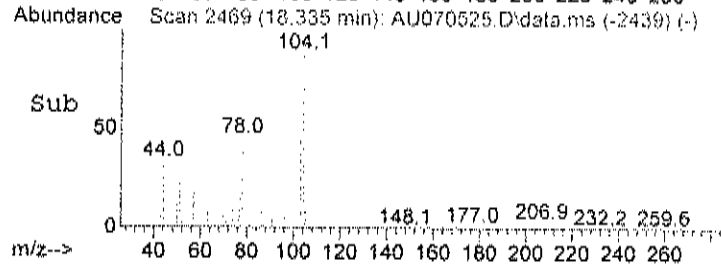
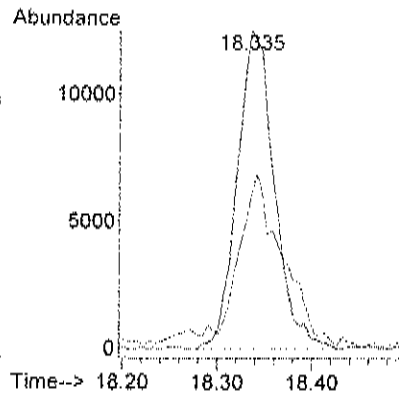
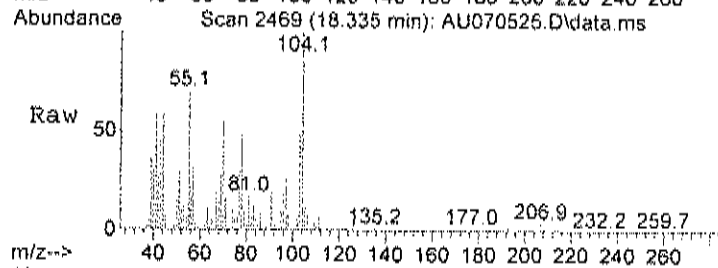
Tgt Ion	Ratio	Lower	Upper
91	100		
106	49.1	32.1	72.1





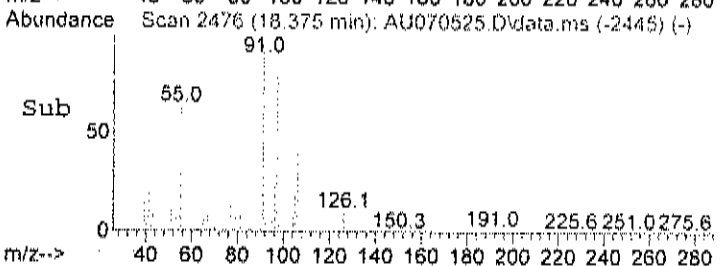
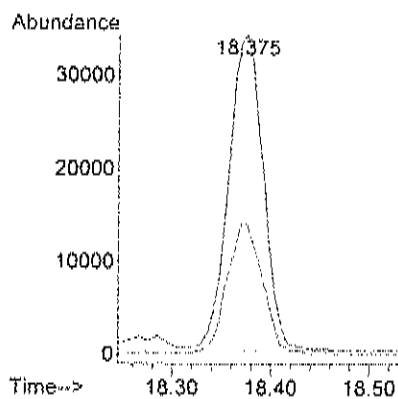
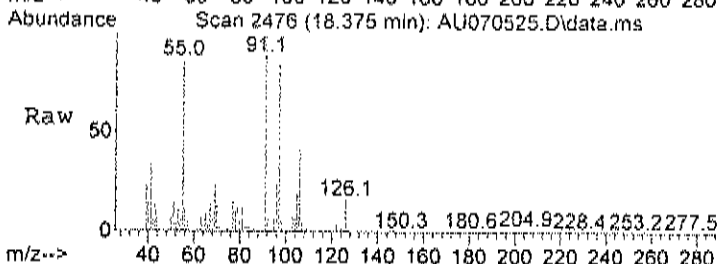
#61
Styrene
Concen: 0.13 ppb
RT: 18.335 min Scan# 2469
Delta R.T. 0.023 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

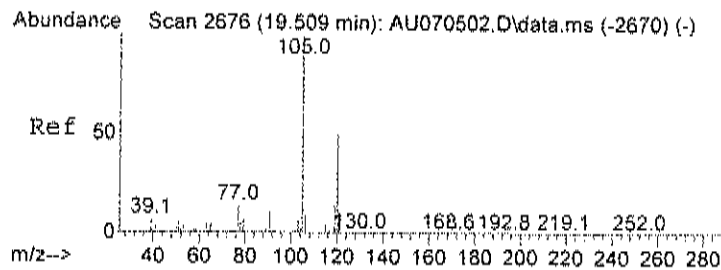
Tgt Ion	104	Resp	34189
Ion Ratio	100	Lower	Upper
78	61.2	25.8	65.8



#63
o-xylene
Concen: 0.24 ppb
RT: 18.375 min Scan# 2476
Delta R.T. 0.028 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

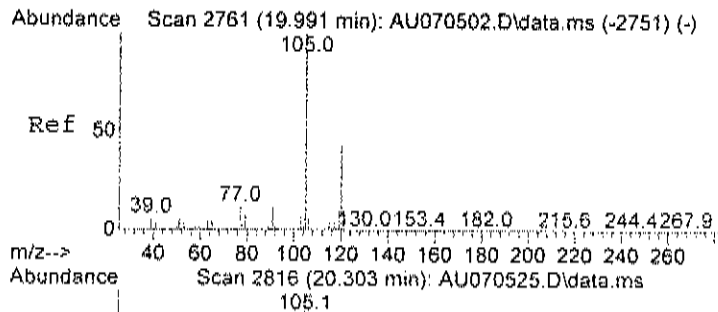
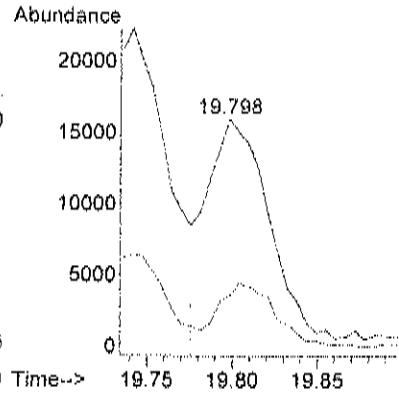
Tgt Ion	91	Resp	82987
Ion Ratio <th>100</th> <th>Lower</th> <th>Upper</th>	100	Lower	Upper
106	42.5	29.0	69.0





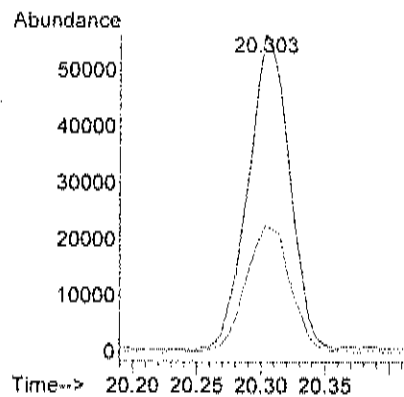
#70
1,3,5-trimethylbenzene
Concen: 0.10 ppb m
RT: 19.798 min Scan# 2727
Delta R.T. 0.062 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

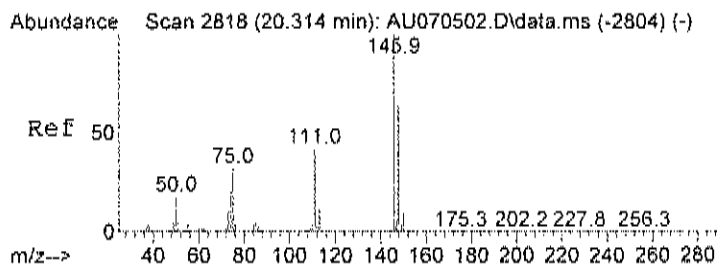
Tgt Ion	105	Resp	40708
Ion Ratio	Lower	Upper	
105	100		
120	33.9	28.3	68.3



#71
1,2,4-trimethylbenzene
Concen: 0.33 ppb m
RT: 20.303 min Scan# 2816
Delta R.T. 0.085 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

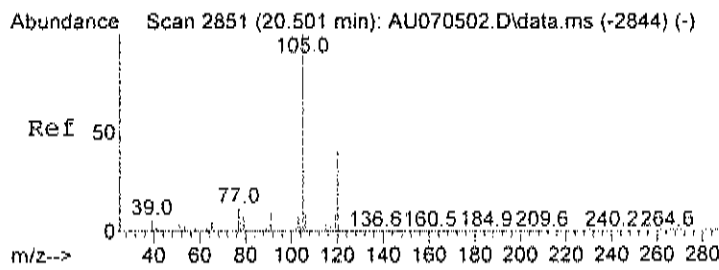
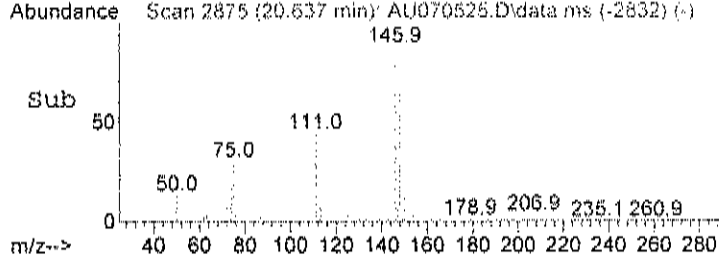
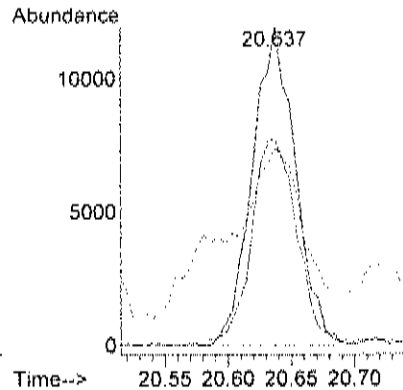
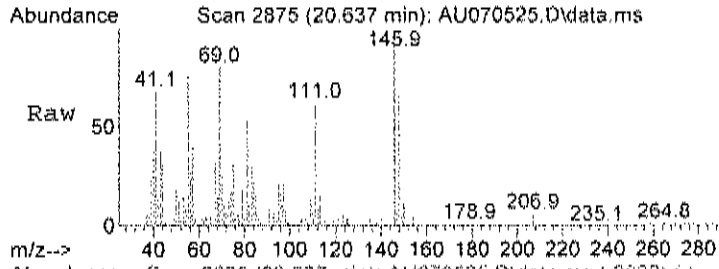
Tgt Ion	105	Resp	128291
Ion Ratio	Lower	Upper	
105	100		
120	42.0	25.8	65.8





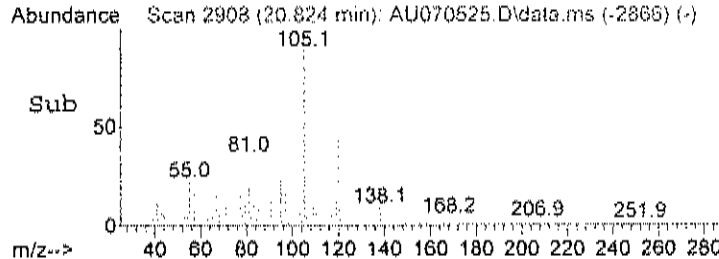
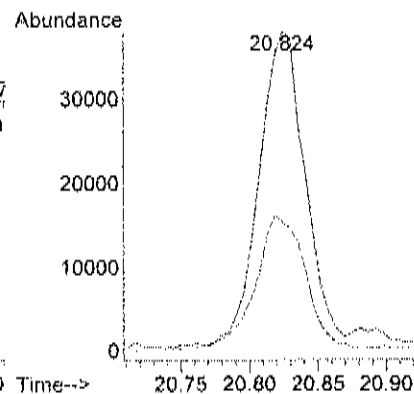
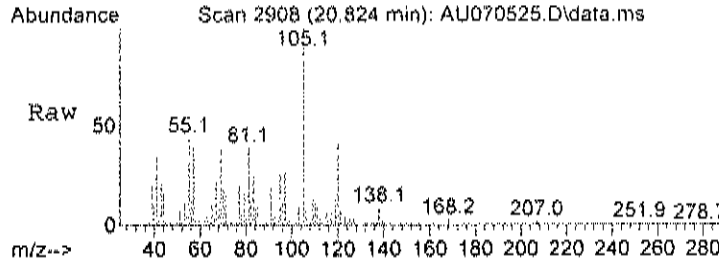
#72
1,3-dichlorobenzene
Concen: 0.14 ppb m
RT: 20.637 min Scan# 2875
Delta R.T. 0.096 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

Tgt Ion	146	Resp:	28284
Ion	Ratio	Lower	Upper
146	100		
148	64.6	40.1	80.1
111	85.4	18.8	58.8#



#75
1,2,3-trimethylbenzene
Concen: 0.23 ppb m
RT: 20.824 min Scan# 2908
Delta R.T. 0.091 min
Lab File: AU070525.D
Acq: 6 Jul 2023 12:37 am

Tgt Ion	105	Resp:	90288
Ion	Ratio	Lower	Upper
105	100		
120	44.2	31.9	53.1



Data Path : C:\msdchem\1\data\
Data File : AU070625.D
Acq On : 6 Jul 2023 11:11 pm
Operator : RJP
Sample : C2307002-008A 10X
Misc : A629_1UG
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 07 05:02:23 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

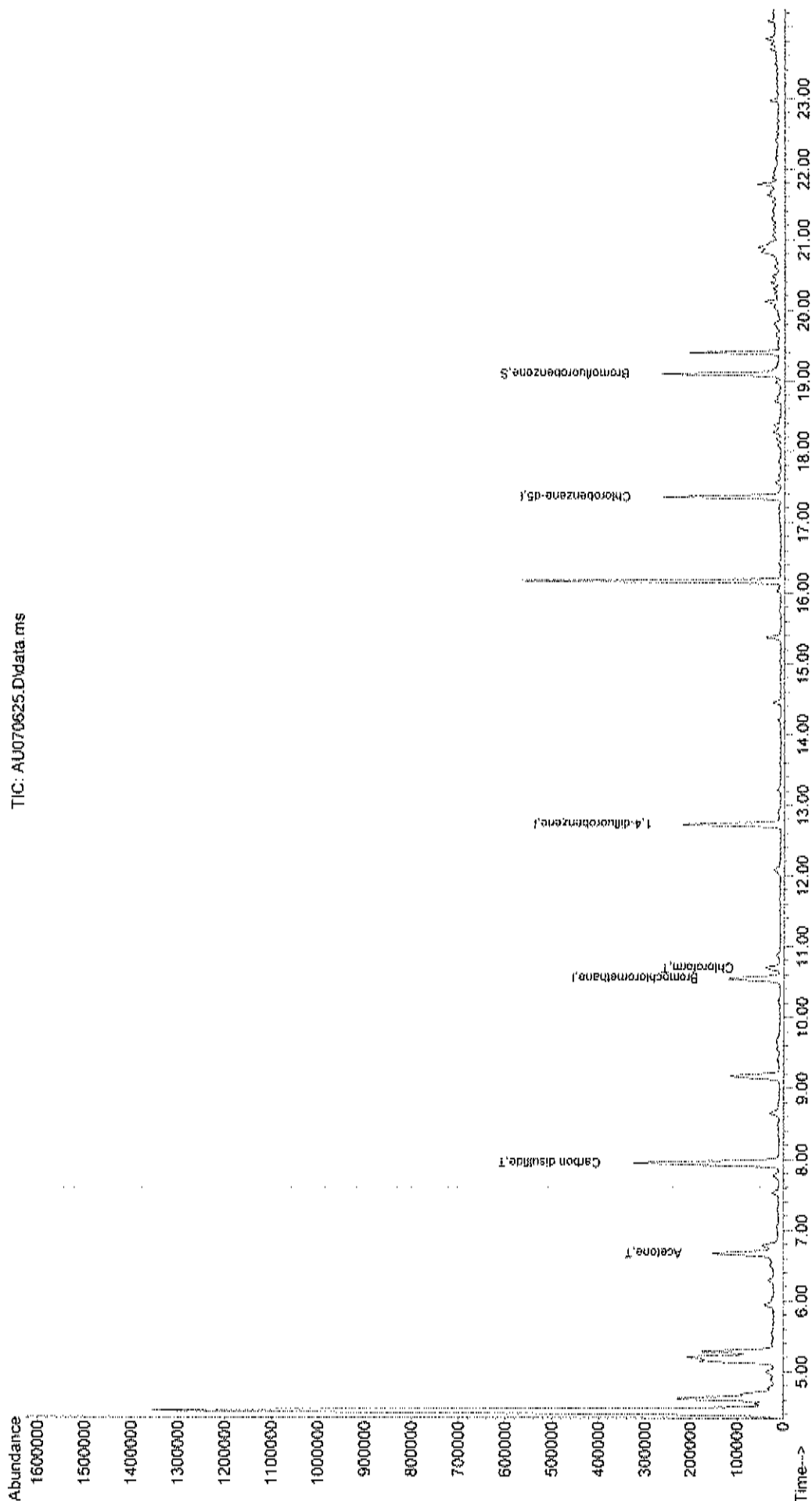
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

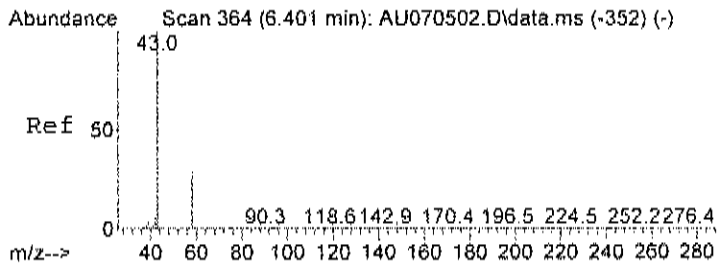
Internal Standards						
1) Bromochloromethane	10.551	128	56040	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.728	114	249277	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	209259	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	125803	0.80	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	80.00%
Target Compounds						Qvalue
15) Acetone	6.673	58	106479	1.61	ppb	# 72
23) Carbon disulfide	7.948	76	889007	3.01	ppb	100
32) Chloroform	10.698	83	40790	0.22	ppb	98

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

Data Path : C:\msdchem\1\data\
Data File : AU070625.D
Acq On : 6 Jul 2023 11:11 pm
Operator : RJP
Sample : C2307002-008A 10X
Misc : A629_1UG
ALS Vial : 21 Sample Multiplier: 1

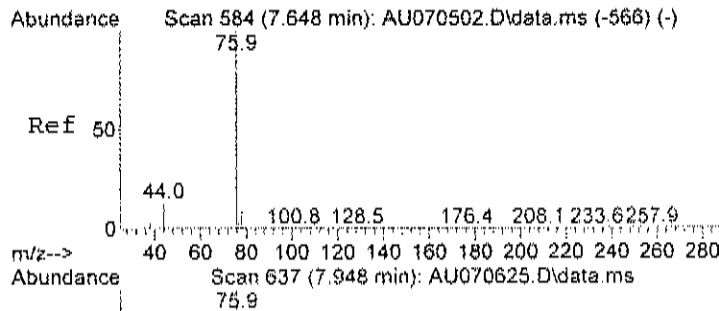
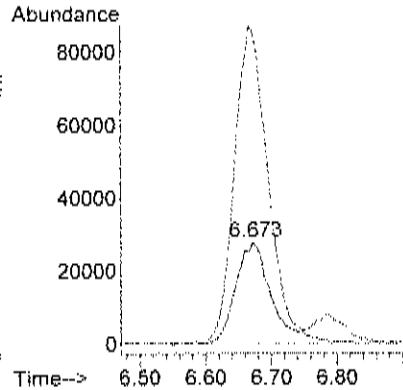
Quant Time: Jul 07 05:02:23 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
Qlast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration





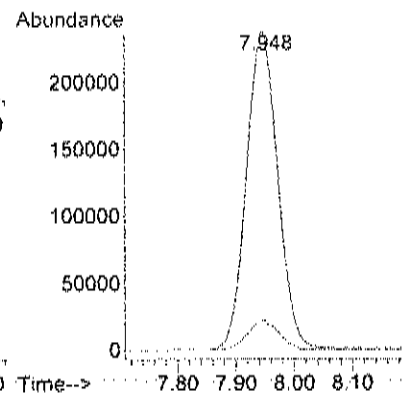
#15
Acetone
Concen: 1.61 ppb
RT: 6.673 min Scan# 412
Delta R.T. 0.006 min
Lab File: AU070625.D
Acq: 6 Jul 2023 11:11 pm

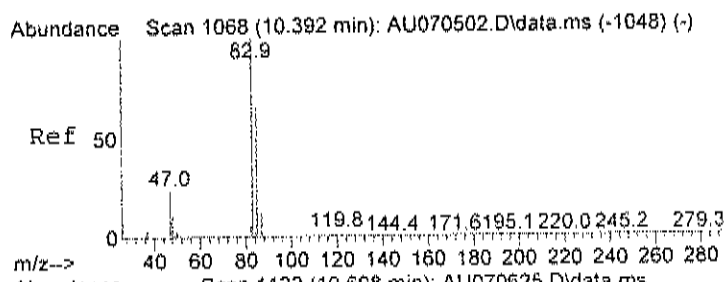
Tgt Ion	58	Resp	106479
Ion	Ratio	Lower	Upper
58	100		
43	303.3	224.5	284.5#



#23
Carbon disulfide
Concen: 3.01 ppb
RT: 7.948 min Scan# 637
Delta R.T. -0.000 min
Lab File: AU070625.D
Acq: 6 Jul 2023 11:11 pm

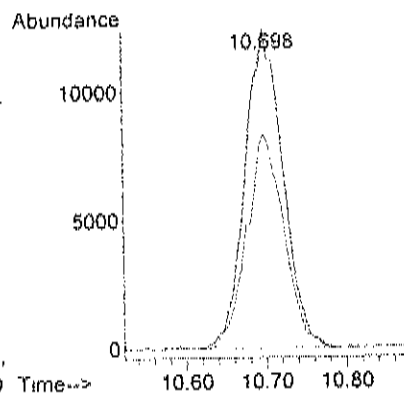
Tgt Ion	76	Resp	889007
Ion	Ratio	Lower	Upper
76	100		
78	9.3	0.0	29.3





#32
Chloroform
Concen: 0.22 ppb
RT: 10.698 min Scan# 1122
Delta R.T. -0.000 min
Lab File: AU070625.D
Acq: 6 Jul 2023 11:11 pm

Tgt Ion: 83	Resp: 40790
Ion Ratio	Lower Upper
83	100
85	66.3 44.6 84.6



Data Path : C:\msdchem\1\data\
Data File : AU070626.D
Acq On : 6 Jul 2023 11:54 pm
Operator : RJP
Sample : C2307002-008A 40X
Misc : A629_1UG
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 07 05:02:41 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

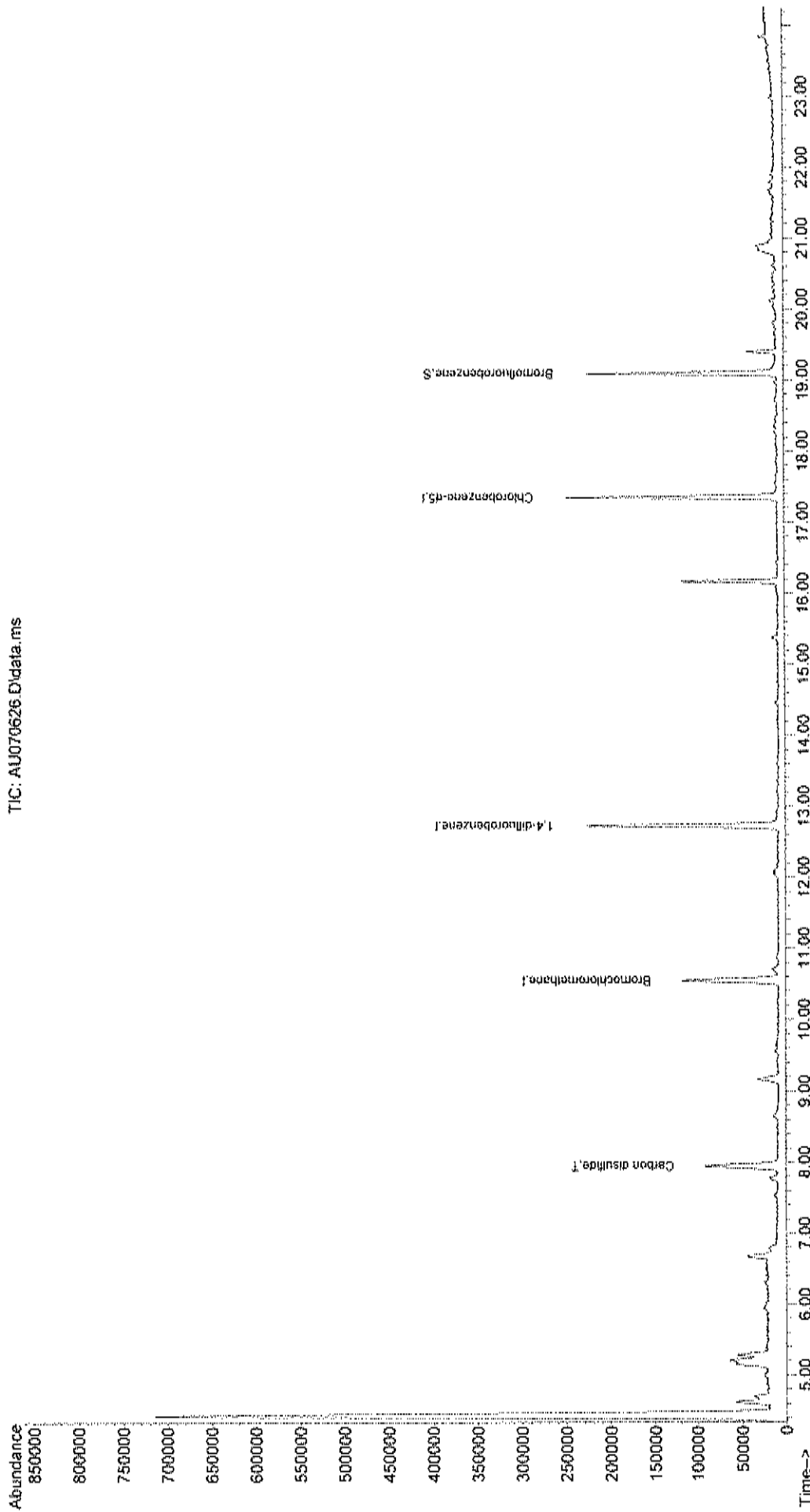
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

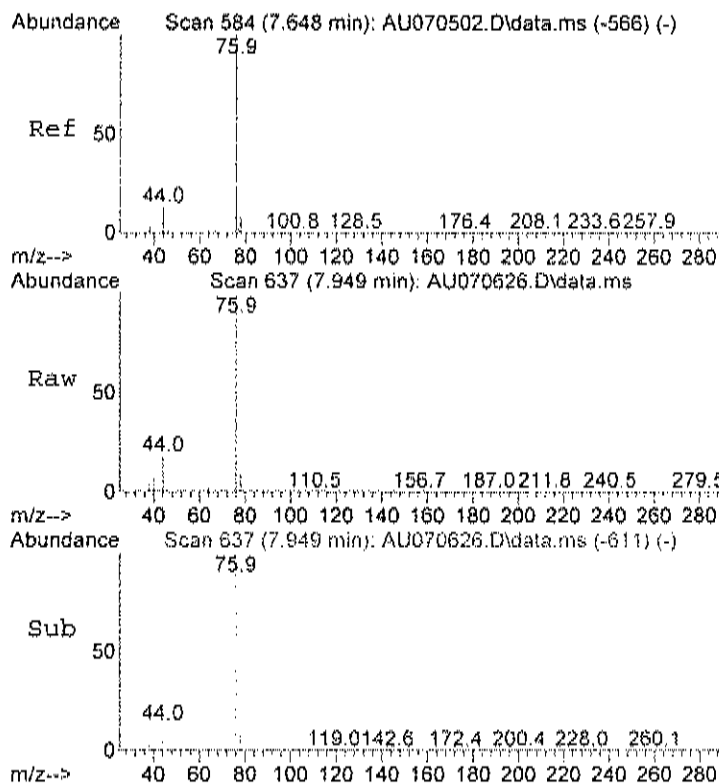
Internal Standards						
1) Bromochloromethane	10.545	128	56599	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.728	114	257670	1.00	ppb	0.00
50) Chlorobenzene-d5	17.355	117	194224	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	110866	0.76	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	76.00%
Target Compounds						
23) Carbon disulfide	7.949	76	225559	0.76	ppb	99

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

Data Path : C:\msdchem\1\data\
Data File : AU070626.D
Acq On : 6 Jul 2023 11:54 pm
Operator : RJP
Sample : C2307002-008A 40X
Misc : A629_1UG
ALS Vial : 22 Sample Multiplier: 1

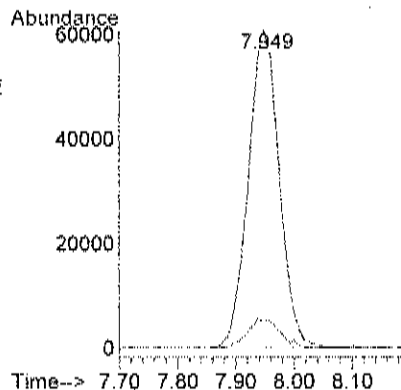
Quant Time: Jul 07 05:02:41 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration





#23
Carbon disulfide
Concen: 0.76 ppb
RT: 7.949 min Scan# 637
Delta R.T. 0.000 min
Lab File: AU070626.D
Acq: 6 Jul 2023 11:54 pm

Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.8	0.0	29.3



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-009A

Client Sample ID: SVW-8
 Tag Number: 561,1163
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
		FLD				Analyst:
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST						
		GC				Analyst: RJP
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15						
		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbV	1	7/6/2023 1:21:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,3-Dichlorobenzene	0.14	0.15	J	ppbV	1	7/6/2023 1:21:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 1:21:00 AM
2,2,4-trimethylpentane	0.24	0.15		ppbV	1	7/6/2023 1:21:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Acetone	22	12		ppbV	40	7/7/2023 1:19:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Benzene	0.64	0.15		ppbV	1	7/6/2023 1:21:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Carbon disulfide	12	1.5		ppbV	10	7/7/2023 12:37:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Chloroform	0.17	0.15		ppbV	1	7/6/2023 1:21:00 AM
Chloromethane	0.80	0.15		ppbV	1	7/6/2023 1:21:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Cyclohexane	0.31	0.15		ppbV	1	7/6/2023 1:21:00 AM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 17 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-009A

Client Sample ID: SVW-8
 Tag Number: 561,1163
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Ethyl acetate	2.1	1.5		ppbV	10	7/7/2023 12:37:00 AM
Ethylbenzene	0.12	0.15	J	ppbV	1	7/6/2023 1:21:00 AM
Freon 11	0.30	0.15		ppbV	1	7/6/2023 1:21:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Freon 12	0.56	0.15		ppbV	1	7/6/2023 1:21:00 AM
Heptane	0.38	0.15		ppbV	1	7/6/2023 1:21:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Hexane	1.4	0.15		ppbV	1	7/6/2023 1:21:00 AM
Isopropyl alcohol	20	1.5		ppbV	10	7/7/2023 12:37:00 AM
m&p-Xylene	0.33	0.30		ppbV	1	7/6/2023 1:21:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 1:21:00 AM
Methyl Ethyl Ketone	1.7	0.30		ppbV	1	7/6/2023 1:21:00 AM
Methyl Isobutyl Ketone	0.38	0.30		ppbV	1	7/6/2023 1:21:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Methylene chloride	0.88	0.15		ppbV	1	7/6/2023 1:21:00 AM
o-Xylene	0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Styrene	0.11	0.15	J	ppbV	1	7/6/2023 1:21:00 AM
Tetrachloroethylene	0.43	0.15		ppbV	1	7/6/2023 1:21:00 AM
Tetrahydrofuran	1.6	1.5		ppbV	10	7/7/2023 12:37:00 AM
Toluene	2.1	1.5		ppbV	10	7/7/2023 12:37:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Trichloroethene	0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 1:21:00 AM
Surr: Bromofluorobenzene	93.0	70-130		%REC	1	7/6/2023 1:21:00 AM

Qualifiers: . Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 18 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-009A

Client Sample ID: SVW-8
 Tag Number: 561,1163
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 1:21:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 1:21:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 1:21:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 1:21:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 1:21:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 1:21:00 AM
1,2,4-Trimethylbenzene	0.59	0.74	J	ug/m3	1	7/6/2023 1:21:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 1:21:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 1:21:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 1:21:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 1:21:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 1:21:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 1:21:00 AM
1,3-Dichlorobenzene	0.84	0.90	J	ug/m3	1	7/6/2023 1:21:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 1:21:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 1:21:00 AM
2,2,4-trimethylpentane	1.1	0.70		ug/m3	1	7/6/2023 1:21:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 1:21:00 AM
Acetone	52	28		ug/m3	40	7/7/2023 1:19:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 1:21:00 AM
Benzene	2.0	0.48		ug/m3	1	7/6/2023 1:21:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 1:21:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 1:21:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 1:21:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 1:21:00 AM
Carbon disulfide	36	4.7		ug/m3	10	7/7/2023 12:37:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 1:21:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 1:21:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	7/6/2023 1:21:00 AM
Chloroform	0.83	0.73		ug/m3	1	7/6/2023 1:21:00 AM
Chloromethane	1.7	0.31		ug/m3	1	7/6/2023 1:21:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 1:21:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 1:21:00 AM
Cyclohexane	1.1	0.52		ug/m3	1	7/6/2023 1:21:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 1:21:00 AM
Ethyl acetate	7.6	5.4		ug/m3	10	7/7/2023 12:37:00 AM
Ethylbenzene	0.52	0.65	J	ug/m3	1	7/6/2023 1:21:00 AM
Freon 11	1.7	0.84		ug/m3	1	7/6/2023 1:21:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 1:21:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 1:21:00 AM

Qualifiers:
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 17 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-8

Lab Order: C2307002

Tag Number: 561,1163

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-009A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.8	0.74		ug/m3	1	7/6/2023 1:21:00 AM
Heptane	1.6	0.61		ug/m3	1	7/6/2023 1:21:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 1:21:00 AM
Hexane	4.9	0.53		ug/m3	1	7/6/2023 1:21:00 AM
Isopropyl alcohol	49	3.7		ug/m3	10	7/7/2023 12:37:00 AM
m&p-Xylene	1.4	1.3		ug/m3	1	7/6/2023 1:21:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 1:21:00 AM
Methyl Ethyl Ketone	4.9	0.88		ug/m3	1	7/6/2023 1:21:00 AM
Methyl Isobutyl Ketone	1.6	1.2		ug/m3	1	7/6/2023 1:21:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 1:21:00 AM
Methylene chloride	3.1	0.52		ug/m3	1	7/6/2023 1:21:00 AM
o-Xylene	0.65	0.65		ug/m3	1	7/6/2023 1:21:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 1:21:00 AM
Styrene	0.47	0.64	J	ug/m3	1	7/6/2023 1:21:00 AM
Tetrachloroethylene	2.9	1.0		ug/m3	1	7/6/2023 1:21:00 AM
Tetrahydrofuran	4.7	4.4		ug/m3	10	7/7/2023 12:37:00 AM
Toluene	7.9	5.7		ug/m3	10	7/7/2023 12:37:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 1:21:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 1:21:00 AM
Trichloroethene	0.81	0.81		ug/m3	1	7/6/2023 1:21:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 1:21:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 1:21:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 1:21:00 AM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte, Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 18 of 40

Data Path : C:\msdchem\1\data\
 Data File : AU070526.D
 Acq On : 6 Jul 2023 1:21 am
 Operator : RJP
 Sample : C2307002-009A
 Misc : A629_1UG
 ALS Vial : 14 Sample Multiplier: 1

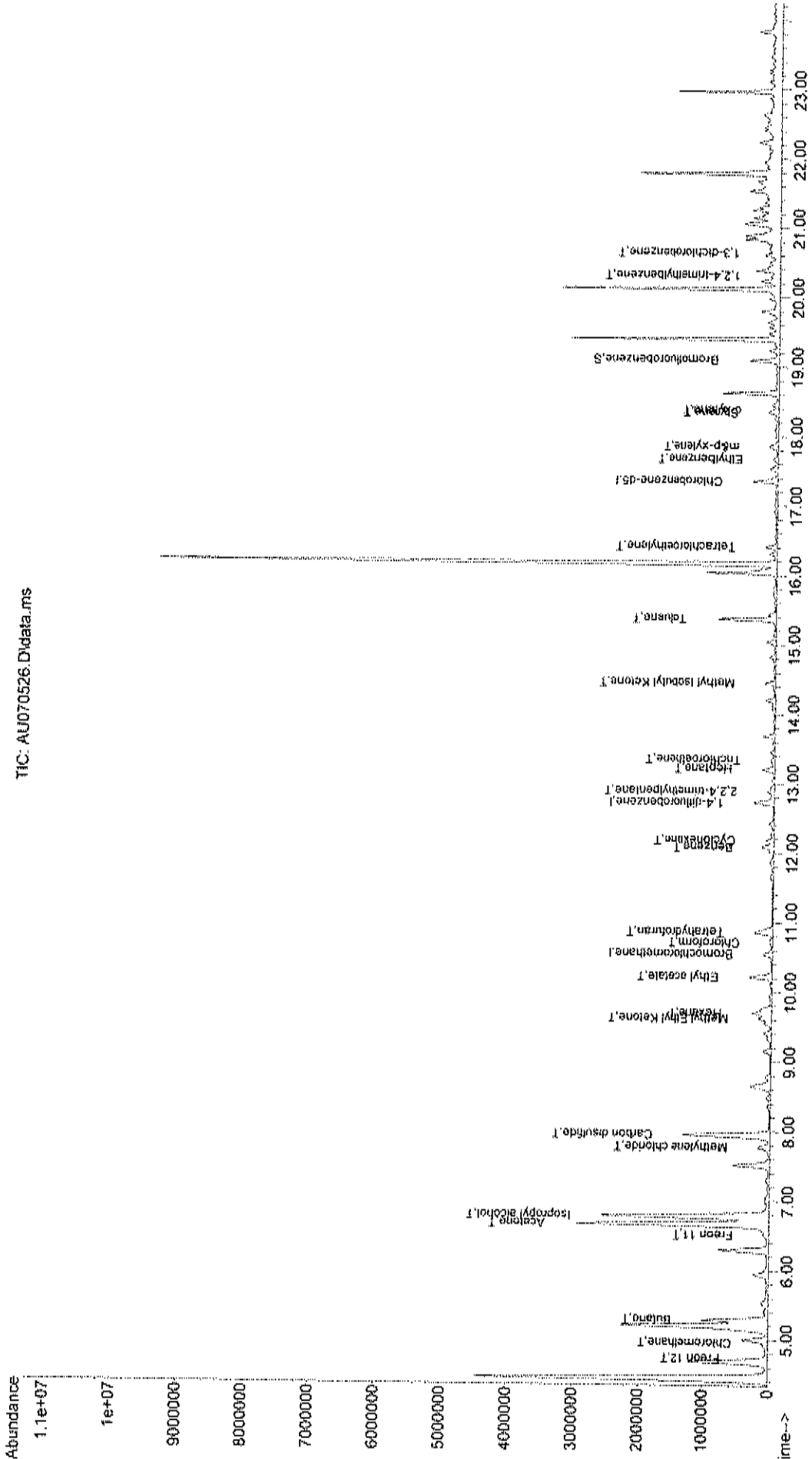
Quant Time: Jul 06 07:55:41 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

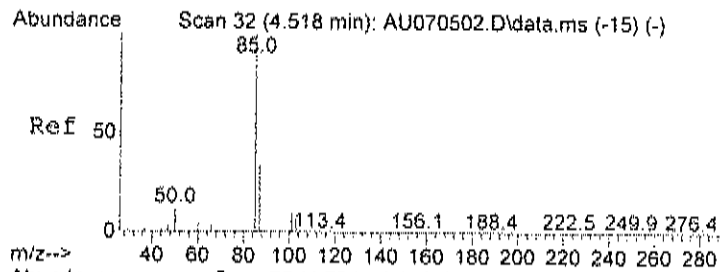
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.545	128	61960	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	315949	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	288568	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	202978	0.93	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	93.00%
Target Compounds						
						Qvalue
3) Freon 12	4.734	85	142482	0.56	ppb	99
4) Chloromethane	4.955	50	64680m	0.80	ppb	
7) Butane	5.284	43	1499914	14.58	ppb	# 56
14) Freon 11	6.508	101	76076	0.30	ppb	98
15) Acetone	6.661	58	2232360	30.51	ppb	# 43
17) Isopropyl alcohol	6.775	45	4560845	24.07	ppb	# 1
21) Methylene chloride	7.773	84	137499	0.88	ppb	90
23) Carbon disulfide	7.948	76	3677079	11.27	ppb	99
28) Methyl Ethyl Ketone	9.621	72	97125m	1.67	ppb	
30) Hexane	9.695	57	254276m	1.38	ppb	
31) Ethyl acetate	10.216	43	640515	2.47	ppb	96
32) Chloroform	10.704	83	35317	0.17	ppb	92
33) Tetrahydrofuran	10.857	42	269988	2.18	ppb	85
37) Cyclohexane	12.178	56	46057m	0.31	ppb	
39) Benzene	12.082	78	171589	0.64	ppb	95
42) 2,2,4-trimethylpentane	12.887	57	110571	0.24	ppb	# 44
43) Heptane	13.216	43	66991m	0.38	ppb	
44) Trichloroethene	13.346	130	17136	0.15	ppb	91
51) Toluene	15.376	92	488937	2.41	ppb	96
52) Methyl Isobutyl Ketone	14.452	43	106881	0.38	ppb	88
56) Tetrachloroethylene	16.408	164	49176	0.43	ppb	99
58) Ethylbenzene	17.666	91	52337	0.12	ppb	99
59) m&p-xylene	17.848	91	116368	0.33	ppb	95
61) Styrene	18.341	104	28253	0.11	ppb	80
63) o-xylene	18.375	91	53809	0.15	ppb	93
71) 1,2,4-trimethylbenzene	20.308	105	48264m	0.12	ppb	
72) 1,3-dichlorobenzene	20.637	146	29571m	0.14	ppb	

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

Data Path : C:\msdchem\1\data\
Data File : AU070526.D
Acq On : 6 Jul 2023 1:21 am
Operator : RJP
Sample : C2307002-009A
Misc : A629 1UG
ALS Vial : 14 Sample Multiplier: 1

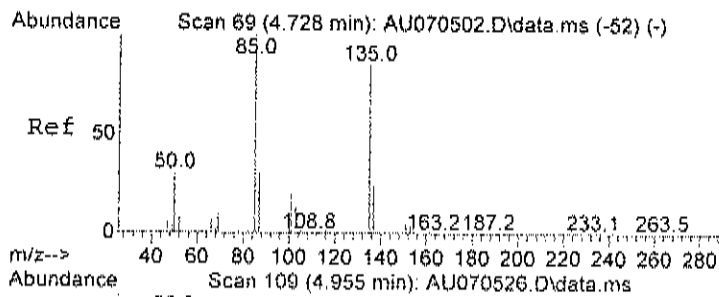
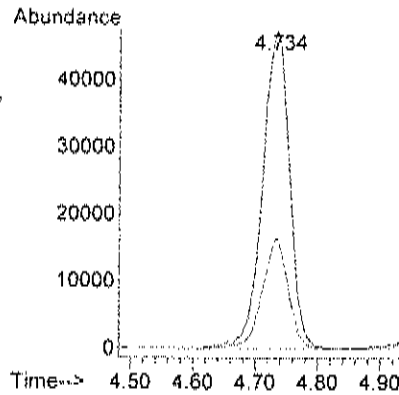
Quant Time: Jul 06 07:55:41 2023
Quant Method : C:\msdchem\1\methods\A629 1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration





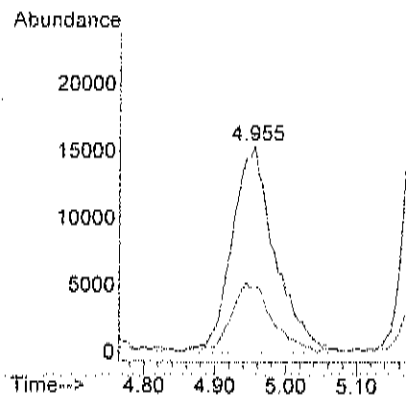
#3
Freon 12
Concen: 0.56 ppb
RT: 4.734 min Scan# 70
Delta R.T. 0.000 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

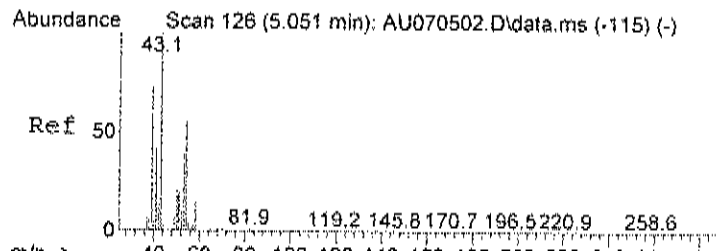
Tgt Ion: 85 Resp: 142482
Ion Ratio Lower Upper
85 100
87 33.1 13.4 53.4



#4
Chloromethane
Concen: 0.80 ppb m
RT: 4.955 min Scan# 109
Delta R.T. 0.000 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

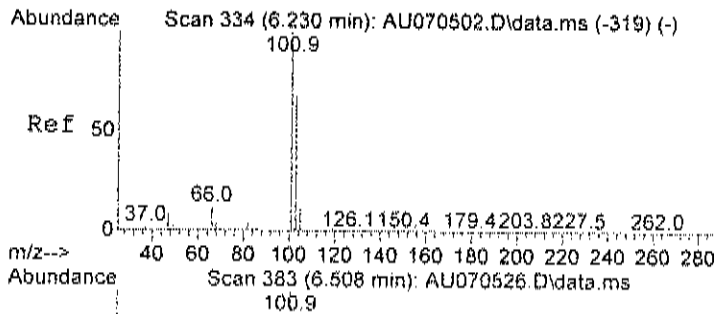
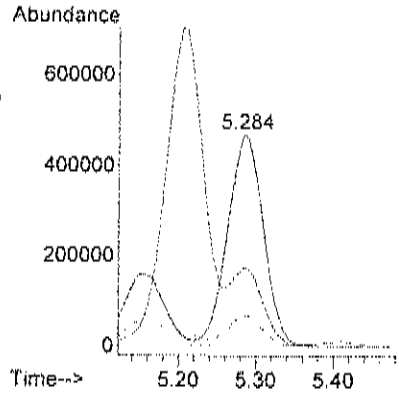
Tgt Ion: 50 Resp: 64680
Ion Ratio Lower Upper
50 100
52 0.0 6.9 46.9#





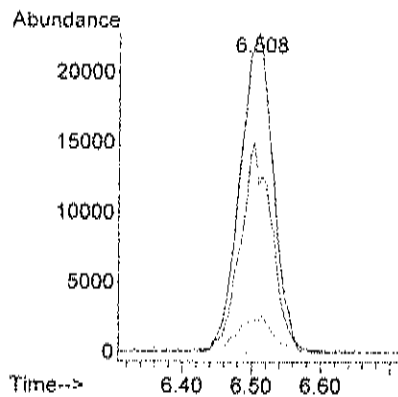
#7
Butane
Concen: 14.58 ppb
RT: 5.284 min Scan# 167
Delta R.T. 0.000 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

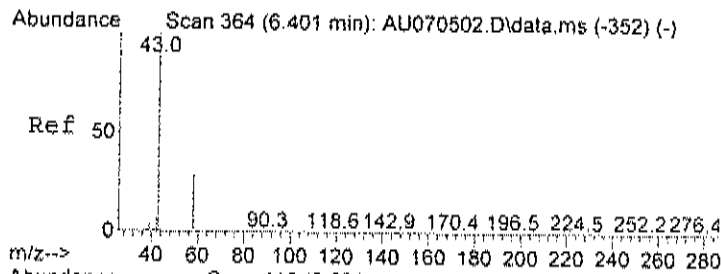
Tgt Ion	43	Ratio	100	Lower	Upper
41	0.0	25.0	46.4		
42	14.0	10.3	19.1		



#14
Freon 11
Concen: 0.30 ppb
RT: 6.508 min Scan# 383
Delta R.T. 0.006 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

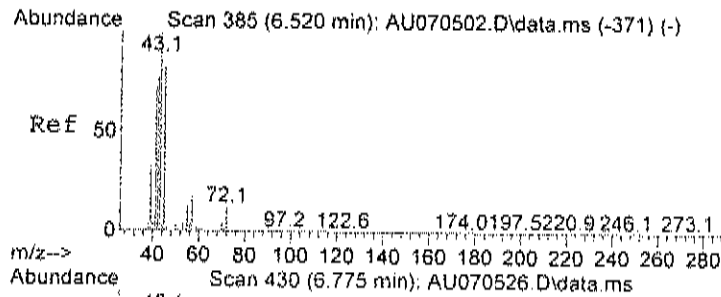
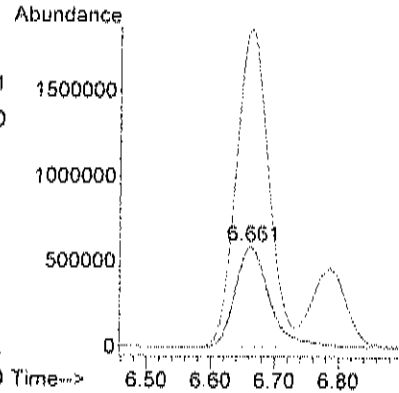
Tgt Ion	101	Ratio	76	Lower	Upper
101	100				
103	62.6	44.0	84.0		
105	11.8	0.0	31.4		





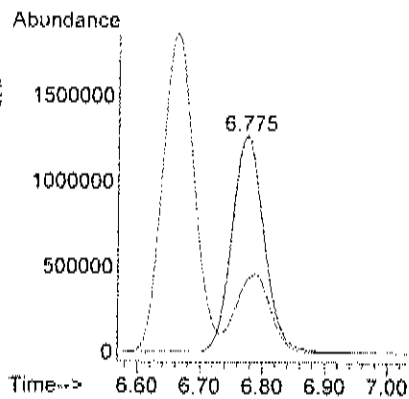
#15
Acetone
Concen: 30.51 ppb
RT: 6.661 min Scan# 410
Delta R.T. -0.006 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

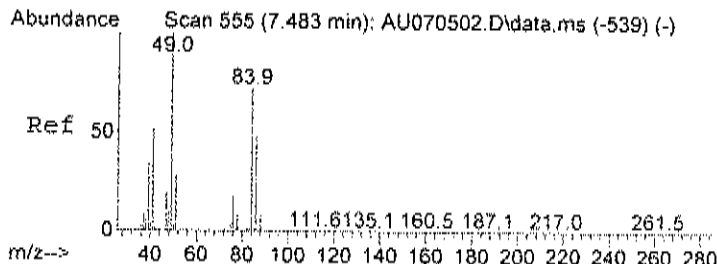
Tgt Ion: 58 Resp: 2232360
Ion Ratio Lower Upper
58 100
43 354.5 224.5 284.5#



#17
Isopropyl alcohol
Concen: 24.07 ppb
RT: 6.775 min Scan# 430
Delta R.T. -0.011 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

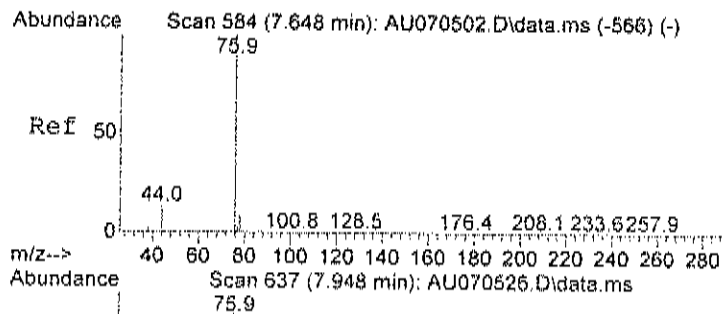
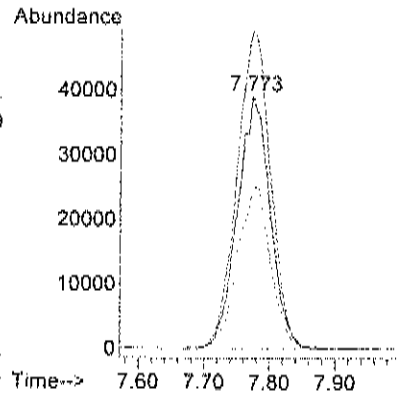
Tgt Ion: 45 Resp: 4560845
Ion Ratio Lower Upper
45 100
43 0.0 110.3 150.3#





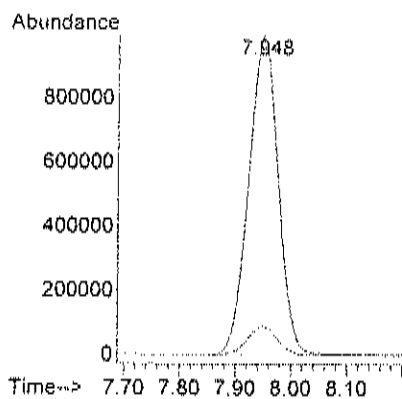
#21
Methylene chloride
Concen: 0.88 ppb
RT: 7.773 min Scan# 606
Delta R.T. 0.000 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

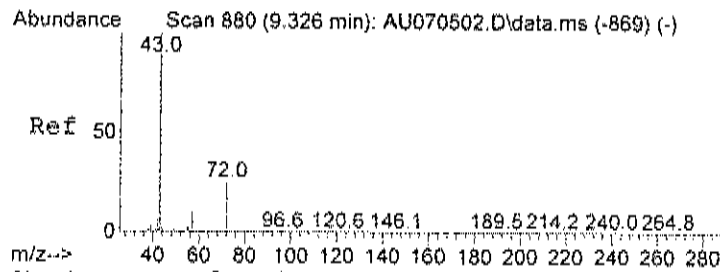
Tgt Ion:	84	Resp:	137499
Ion	Ratio	Lower	Upper
84	100		
49	128.6	93.0	133.0
86	64.4	43.7	83.7



#23
Carbon disulfide
Concen: 11.27 ppb
RT: 7.948 min Scan# 637
Delta R.T. 0.000 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

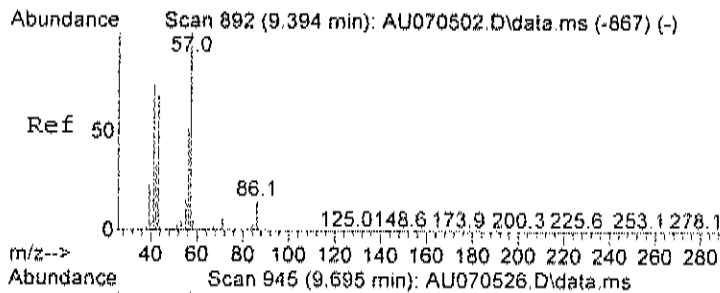
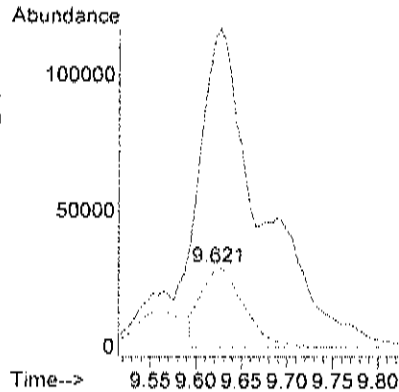
Tgt Ion:	76	Resp:	3677079
Ion	Ratio	Lower	Upper
76	100		
78	9.0	0.0	29.3





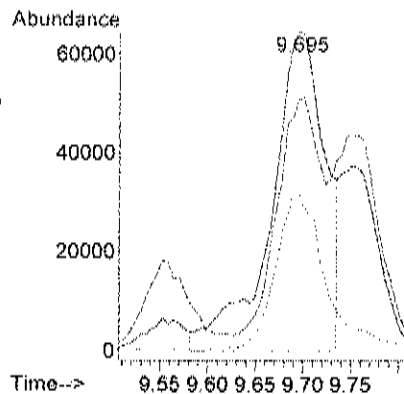
#28
Methyl Ethyl Ketone
Concen: 1.67 ppb m
RT: 9.621 min Scan# 932
Delta R.T. -0.006 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

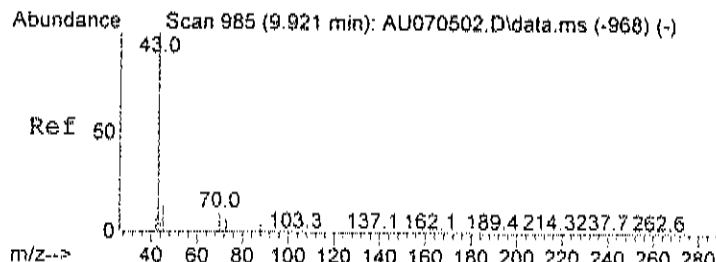
Tgt Ion:	72	Resp:	97125
Ion Ratio	Lower	Upper	
72	100		
43	456.9	389.0	429.0#
72	148.2	80.0	120.0#



#30
Hexane
Concen: 1.38 ppb m
RT: 9.695 min Scan# 945
Delta R.T. 0.000 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

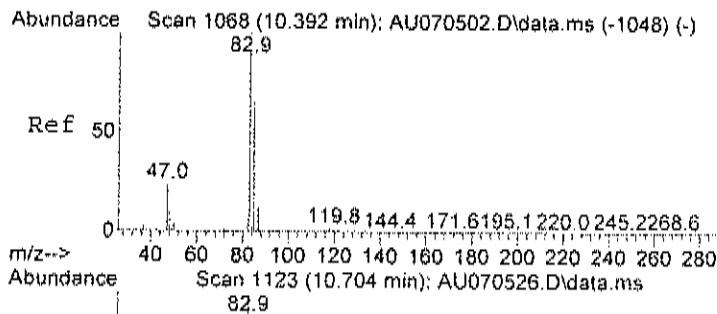
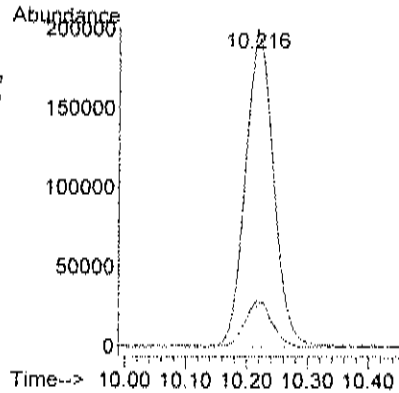
Tgt Ion:	57	Resp:	254276
Ion Ratio	Lower	Upper	
57	100		
41	117.2	37.3	77.3#
56	45.6	24.8	64.8





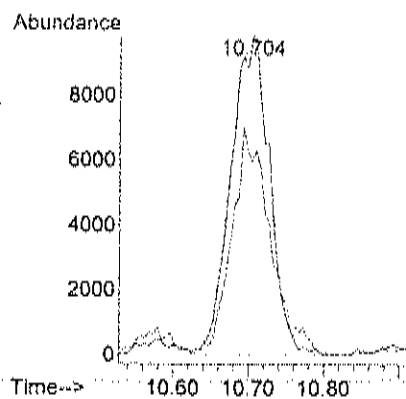
#31
Ethyl acetate
Concen: 2.47 ppb
RT: 10.216 min Scan# 1037
Delta R.T. -0.006 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

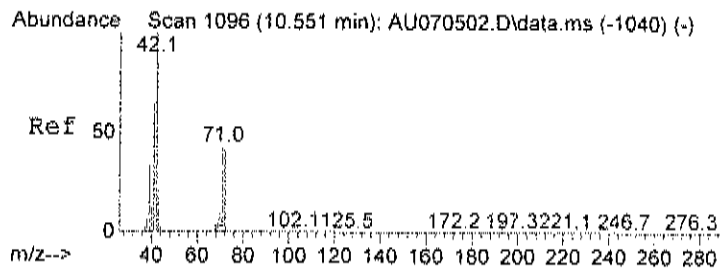
Tgt Ion	43	Resp	640515
Ion Ratio	Lower	Upper	
43	100		
45	14.7	0.0	35.3
61	14.1	0.0	37.0



#32
Chloroform
Concen: 0.17 ppb
RT: 10.704 min Scan# 1123
Delta R.T. 0.006 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

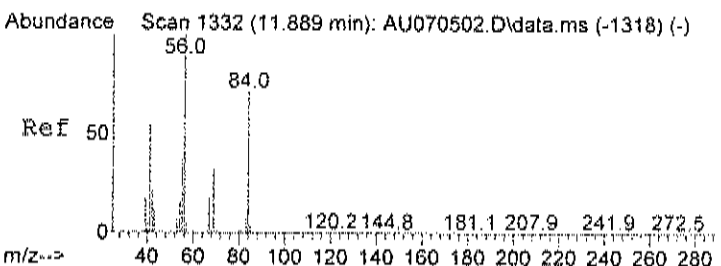
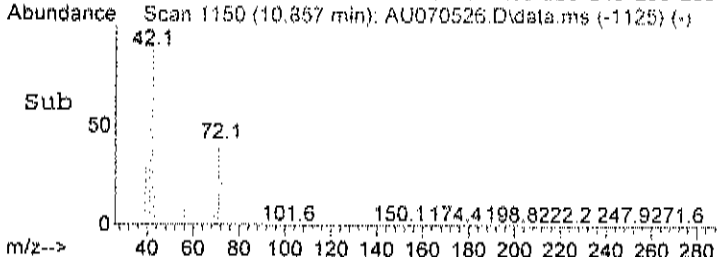
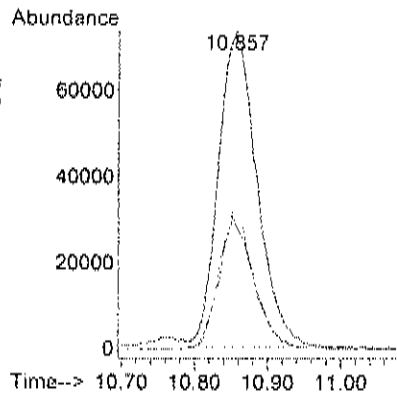
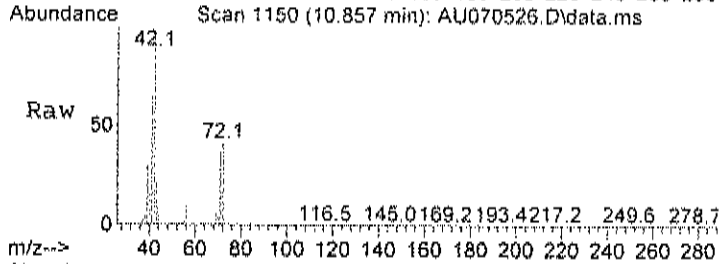
Tgt Ion	83	Resp	35317
Ion Ratio	Lower	Upper	
83	100		
85	70.7	44.6	84.6





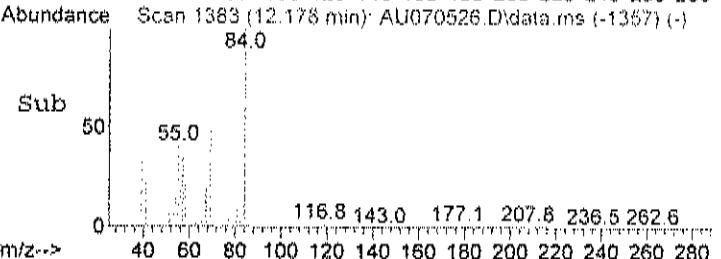
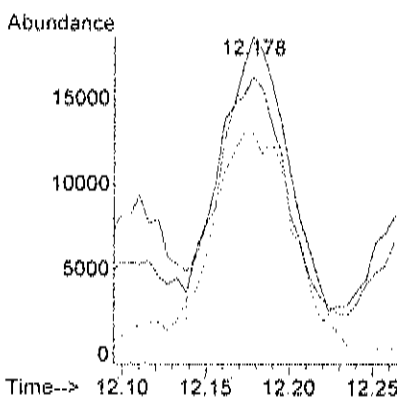
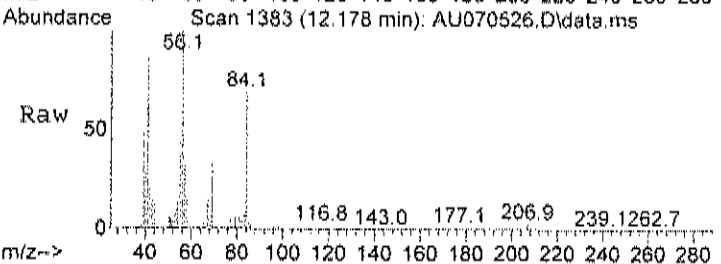
#33
Tetrahydrofuran
Concen: 2.18 ppb
RT: 10.857 min Scan# 1150
Delta R.T. -0.006 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

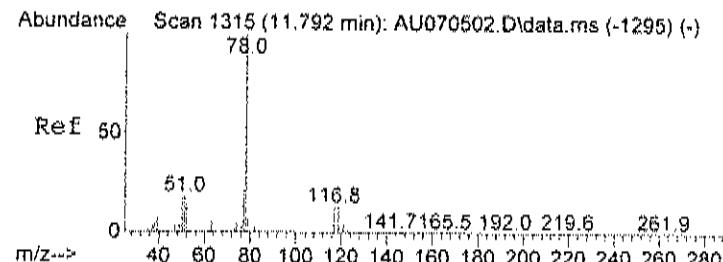
Tgt Ion	42	71	72
Ion	42	71	72
Ratio	100	38.3	39.8
Lower		27.1	30.8
Upper		67.1	70.8



#37
Cyclohexane
Concen: 0.31 ppb m
RT: 12.178 min Scan# 1383
Delta R.T. 0.000 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

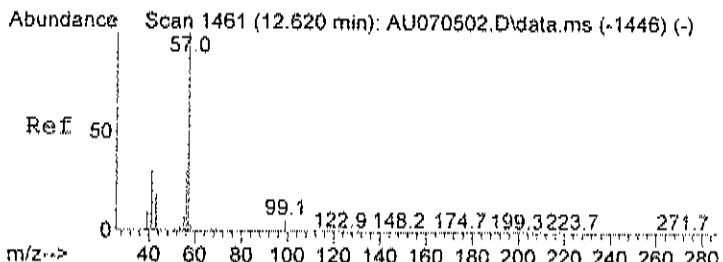
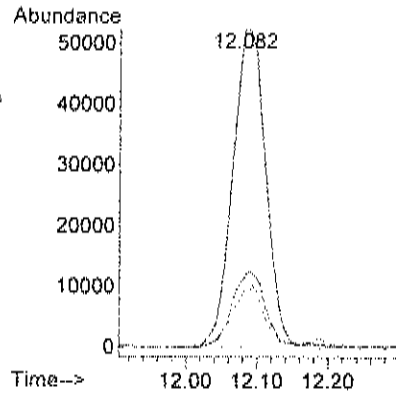
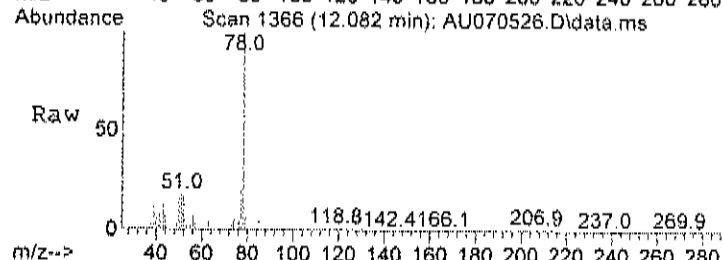
Tgt Ion	56	41	84
Ion	56	41	84
Ratio	100	120.9	92.7
Lower		28.1	85.3
Upper		68.1#	125.3





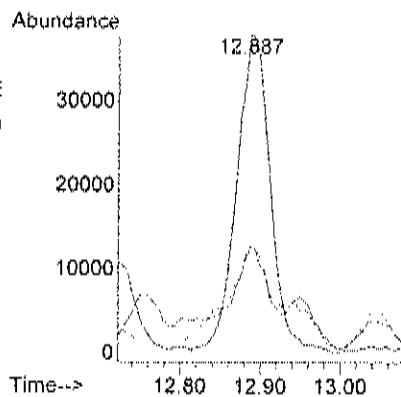
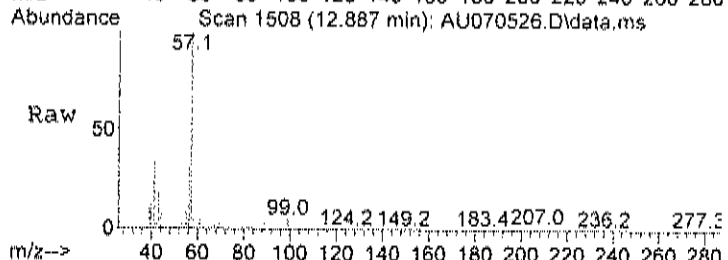
#39
Benzene
Concen: 0.64 ppb
RT: 12.082 min Scan# 1366
Delta R.T. -0.011 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

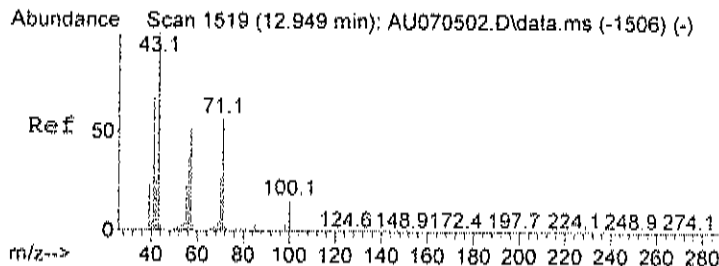
Tgt Ion	78	Resp	171589
Ion	Ratio	Lower	Upper
78	100		
77	24.1	3.8	43.8
51	20.0	0.0	35.4



#42
2,2,4-trimethylpentane
Concen: 0.24 ppb
RT: 12.887 min Scan# 1508
Delta R.T. -0.006 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

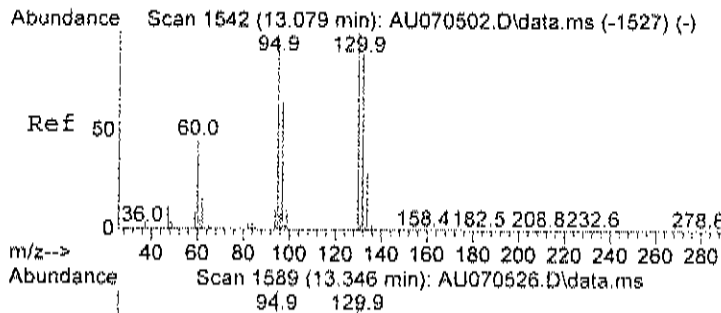
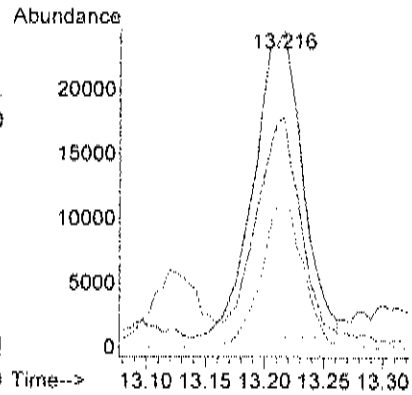
Tgt Ion	57	Resp	110571
Ion	Ratio	Lower	Upper
57	100		
41	57.6	1.7	41.7#
56	53.8	10.7	50.7#





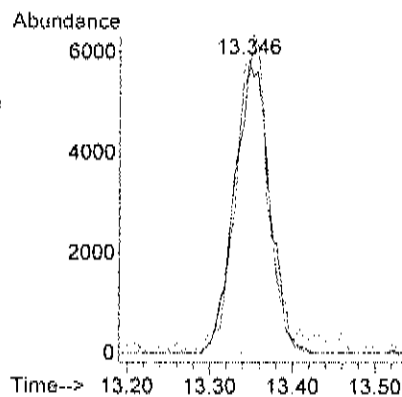
#43
Heptane
Concen: 0.38 ppb m
RT: 13.216 min Scan# 1566
Delta R.T. 0.000 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

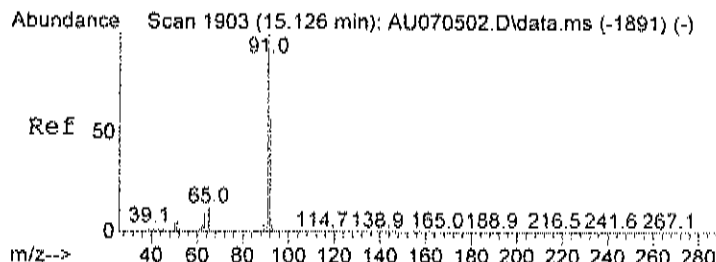
Tgt Ion	43	Resp	66991
Ion	Ratio	Lower	Upper
43	100		
57	69.8	40.9	80.9
71	42.1	51.1	91.1#



#44
Trichloroethene
Concen: 0.15 ppb
RT: 13.346 min Scan# 1589
Delta R.T. 0.000 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

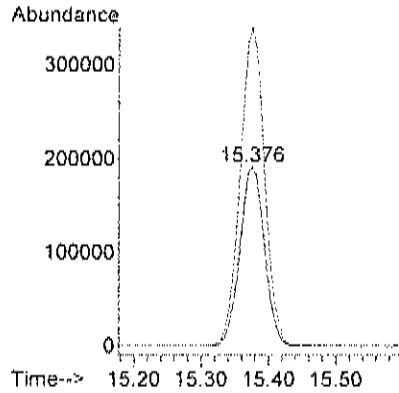
Tgt Ion	130	Resp	17136
Ion	Ratio	Lower	Upper
130	100		
132	99.9	76.3	116.3
95	107.2	72.9	112.9





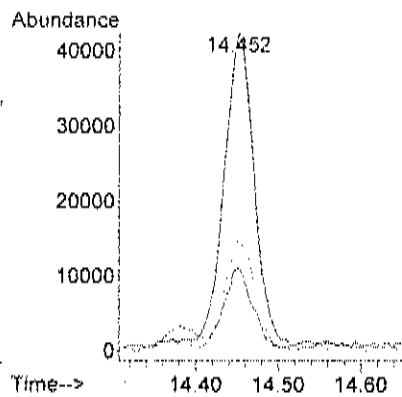
#51
Toluene
Concen: 2.41 ppb
RT: 15.376 min Scan# 1947
Delta R.T. 0.000 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

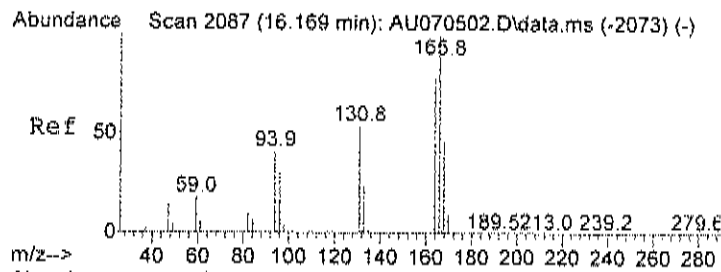
Tgt Ion	Resp	Lower	Upper
92	488937		
91	175.6	150.4	190.4



#52
Methyl Isobutyl Ketone
Concen: 0.38 ppb
RT: 14.452 min Scan# 1784
Delta R.T. 0.000 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

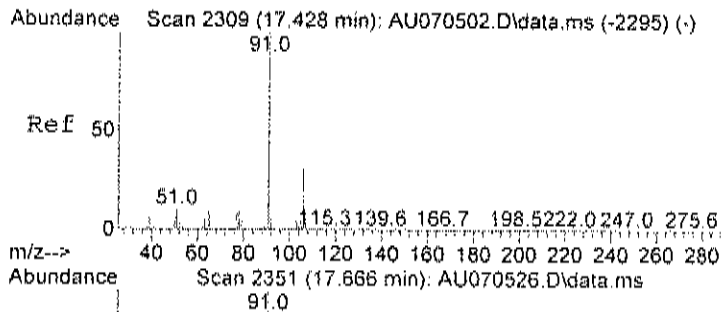
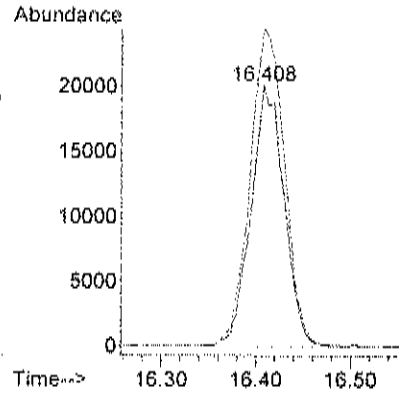
Tgt Ion	Resp	Lower	Upper
43	106881		
57	23.3	7.9	47.9
58	35.2	24.7	64.7





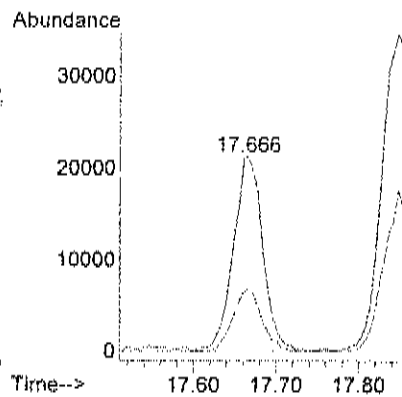
#56
Tetrachloroethylene
Concen: 0.43 ppb
RT: 16.408 min Scan# 2129
Delta R.T. -0.006 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

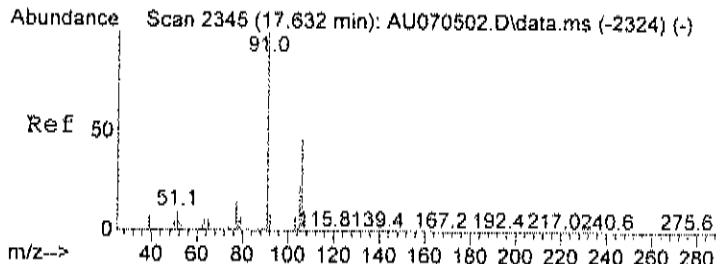
Tgt Ion: 164 Resp: 49176
Ion Ratio Lower Upper
164 100
166 126.8 107.9 147.9



#58
Ethylbenzene
Concen: 0.12 ppb
RT: 17.666 min Scan# 2351
Delta R.T. 0.006 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

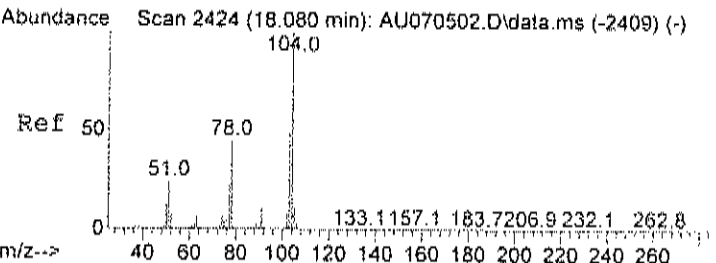
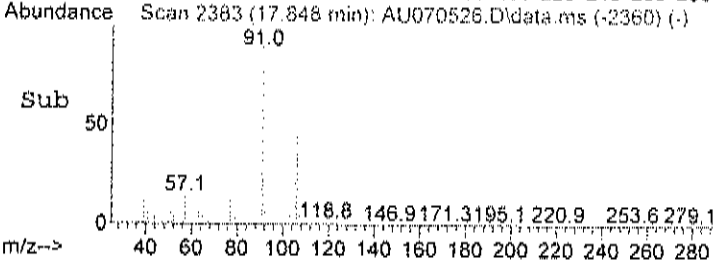
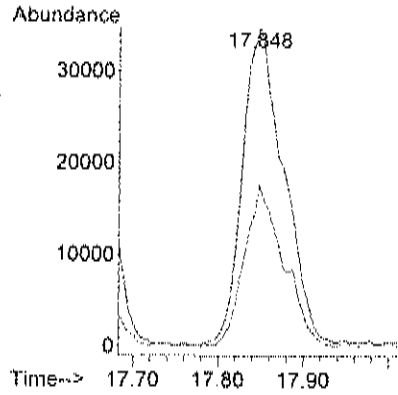
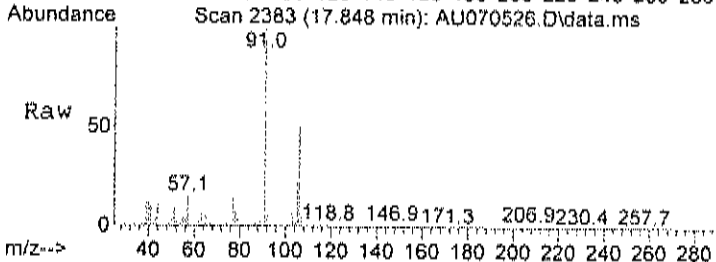
Tgt Ion: 91 Resp: 52337
Ion Ratio Lower Upper
91 100
106 32.3 13.1 53.1





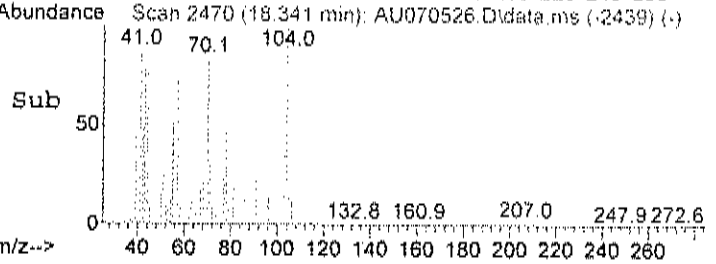
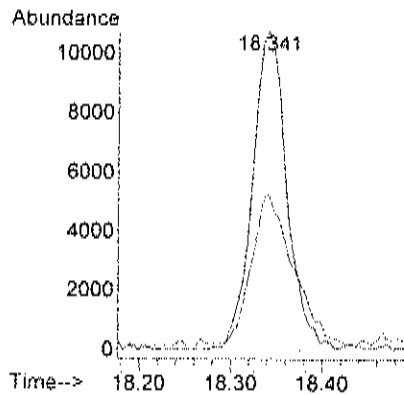
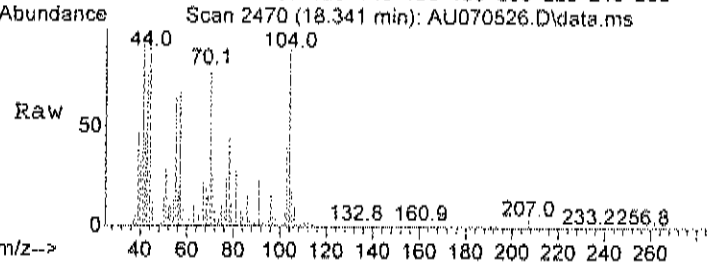
#59
m&p-xylene
Concen: 0.33 ppb
RT: 17.848 min Scan# 2383
Delta R.T. -0.017 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

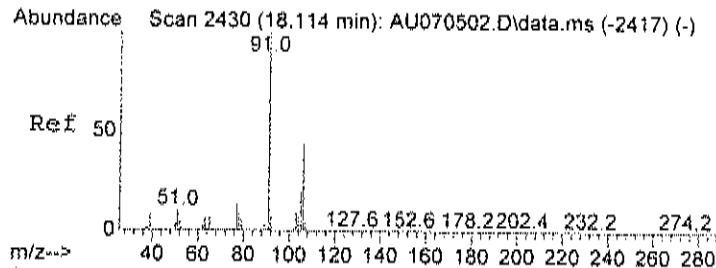
Tgt Ion: 91 Resp: 116368
Ion Ratio Lower Upper
91 100
106 48.7 32.1 72.1



#61
Styrene
Concen: 0.11 ppb
RT: 18.341 min Scan# 2470
Delta R.T. 0.028 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

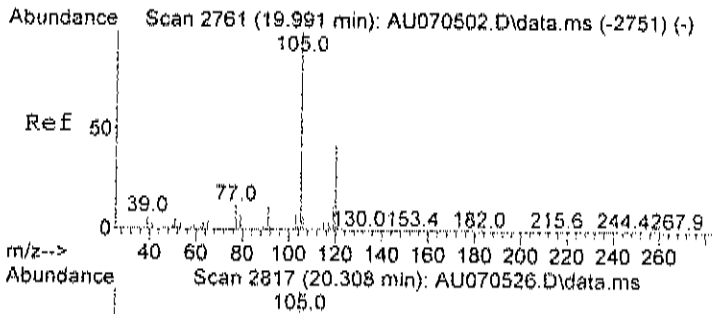
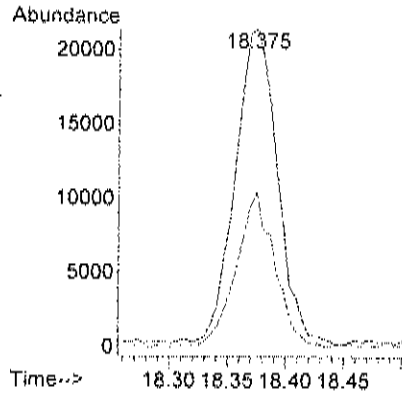
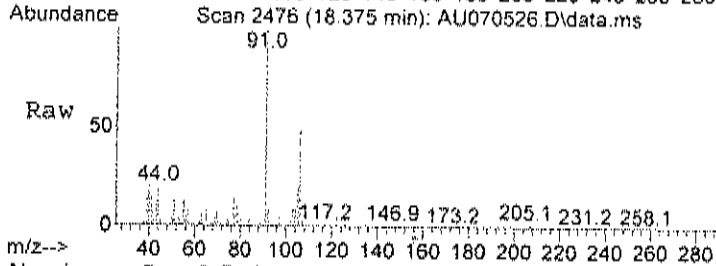
Tgt Ion: 104 Resp: 28253
Ion Ratio Lower Upper
104 100
78 59.1 25.8 65.8





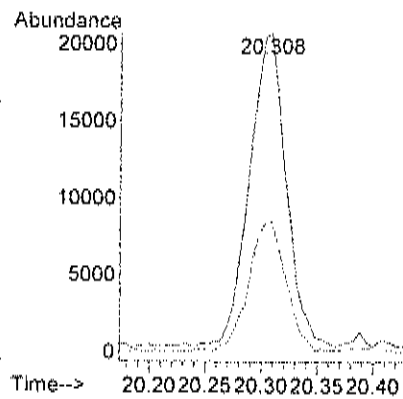
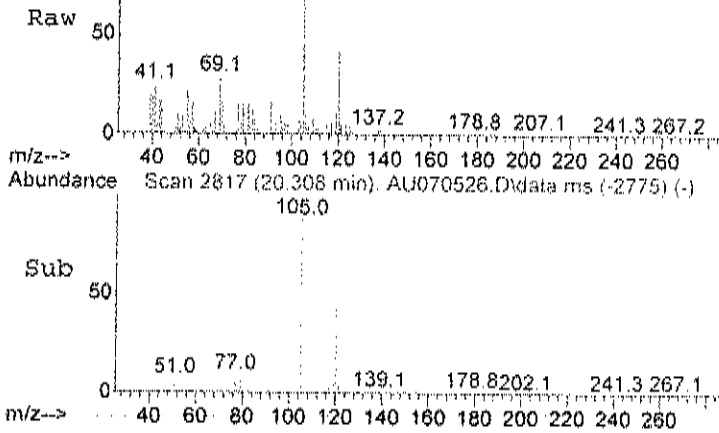
#63
o-xylene
Concen: 0.15 ppb
RT: 18.375 min Scan# 2476
Delta R.T. 0.028 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

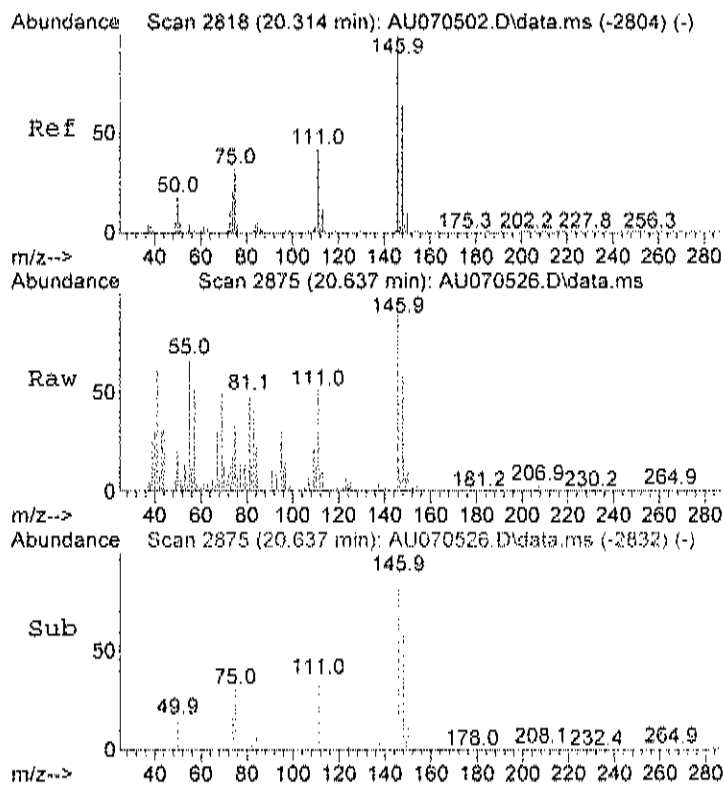
Tgt Ion	Ratio	Lower	Upper
91	100		
106	44.5	29.0	69.0



#71
1,2,4-trimethylbenzene
Concen: 0.12 ppb m
RT: 20.308 min Scan# 2817
Delta R.T. 0.091 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

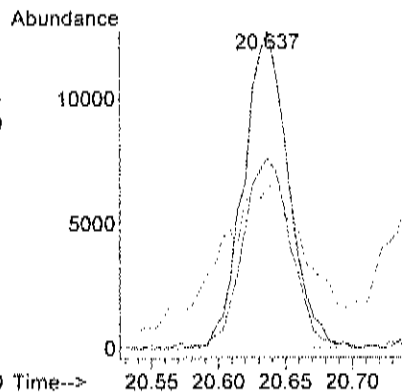
Tgt Ion	Ratio	Lower	Upper
105	100		
120	41.0	25.8	65.8





#72
1,3-dichlorobenzene
Concen: 0.14 ppb m
RT: 20.637 min Scan# 2875
Delta R.T. 0.096 min
Lab File: AU070526.D
Acq: 6 Jul 2023 1:21 am

Tgt Ion	146	Resp	29571
Ion Ratio	Lower	Upper	
146	100		
148	59.6	40.1	80.1
111	71.6	18.8	58.8#



Data Path : C:\msdchem\1\data\
 Data File : AU070627.D
 Acq On : 7 Jul 2023 12:37 am
 Operator : RJP
 Sample : C2307002-009A 10X
 Misc : A629_1UG
 ALS Vial : 23 Sample Multiplier: 1

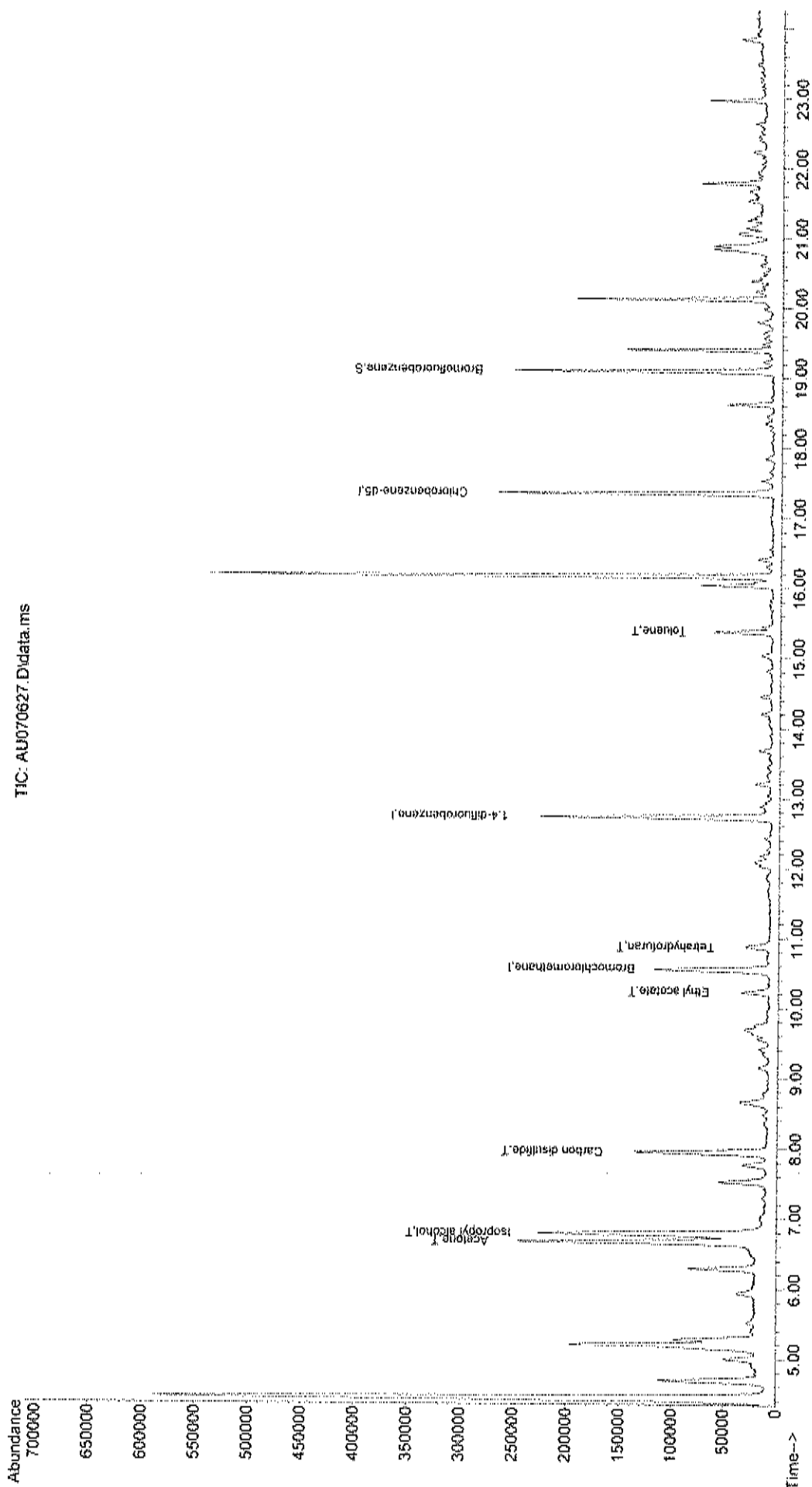
Quant Time: Jul 07 05:03:00 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

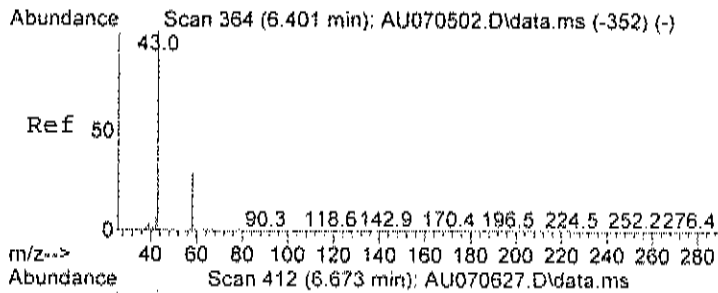
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	10.557	128	57407	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.728	114	258600	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	211864	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	121206	0.76	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	76.00%
Target Compounds						
15) Acetone	6.673	58	166230m <i>P</i>	2.45	ppb	Qvalue
17) Isopropyl alcohol	6.781	45	347815	1.98	ppb	# 1
23) Carbon disulfide	7.948	76	350527	1.16	ppb	100
31) Ethyl acetate	10.228	43	51360	0.21	ppb	94
33) Tetrahydrofuran	10.868	42	18890m <i>P</i>	0.16	ppb	
51) Toluene	15.381	92	30812	0.21	ppb	96

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

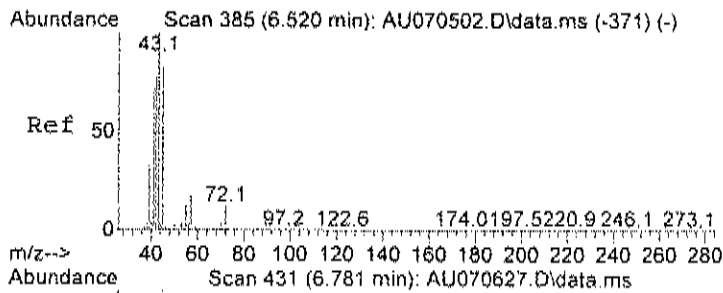
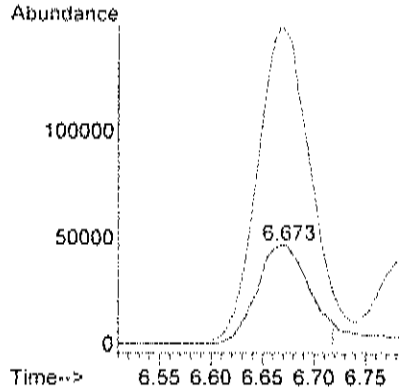
Data Path : C:\msdchem\1\data\
 Data File : AU070627.D
 Acq On : 7 Jul 2023 12:37 am
 Operator : RJP
 Sample : C2307002-009A 10X
 Misc : A629_1UG
 ALS Vial : 23 Sample Multiplier: 1
 Quant Time: Jul 07 05:03:00 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





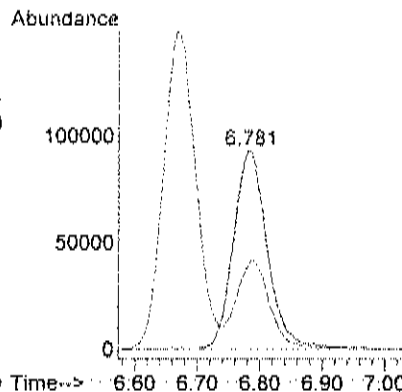
#15
Acetone
Concen: 2.45 ppb m
RT: 6.673 min Scan# 412
Delta R.T. 0.006 min
Lab File: AU070627.D
Acq: 7 Jul 2023 12:37 am

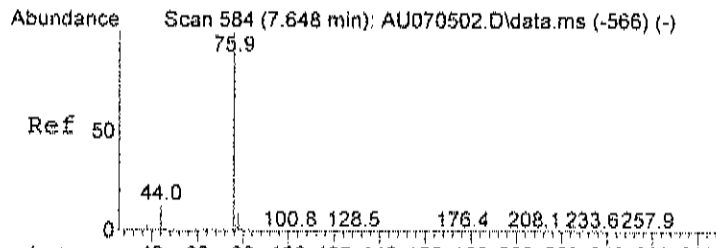
Tgt Ion: 58 Resp: 166230
Ion Ratio Lower Upper
58 100
43 391.3 224.5 284.5#



#17
Isopropyl alcohol
Concen: 1.98 ppb
RT: 6.781 min Scan# 431
Delta R.T. -0.006 min
Lab File: AU070627.D
Acq: 7 Jul 2023 12:37 am

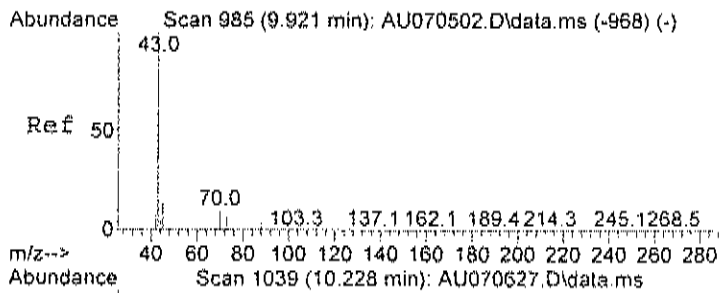
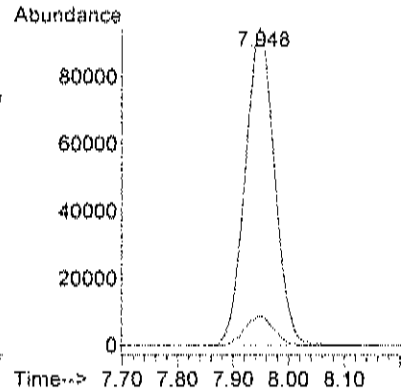
Tgt Ion: 45 Resp: 347815
Ion Ratio Lower Upper
45 100
43 0.0 110.3 150.3#





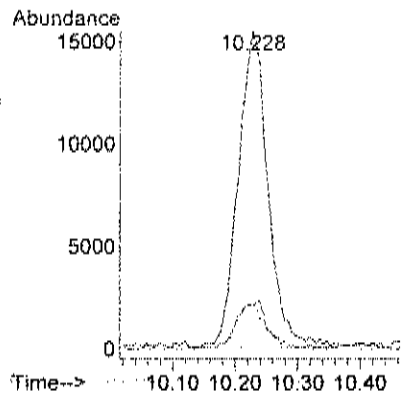
#23
Carbon disulfide
Concen: 1.16 ppb
RT: 7.948 min Scan# 637
Delta R.T. 0.000 min
Lab File: AU070627.D
Acq: 7 Jul 2023 12:37 am

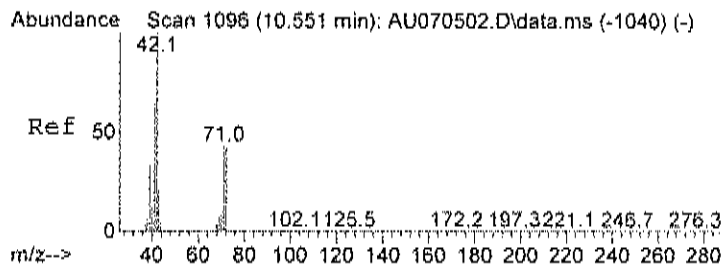
Tgt Ion	76	Resp	350527
Ion Ratio	Lower	Upper	
76	100		
78	9.3	0.0	29.3



#31
Ethyl acetate
Concen: 0.21 ppb
RT: 10.228 min Scan# 1039
Delta R.T. 0.006 min
Lab File: AU070627.D
Acq: 7 Jul 2023 12:37 am

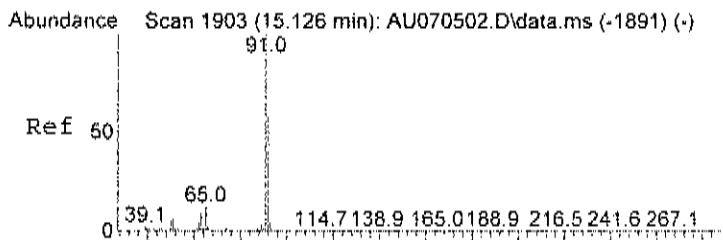
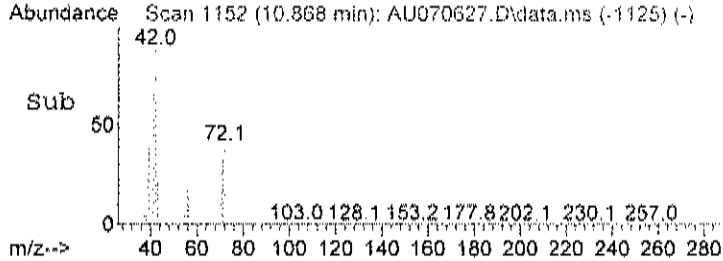
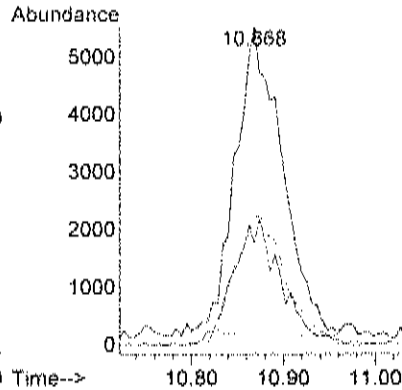
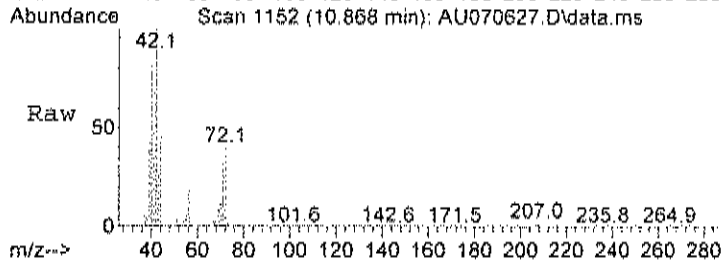
Tgt Ion	43	Resp	51360
Ion Ratio	Lower	Upper	
43	100		
45	17.4	0.0	35.3
61	14.2	0.0	37.0





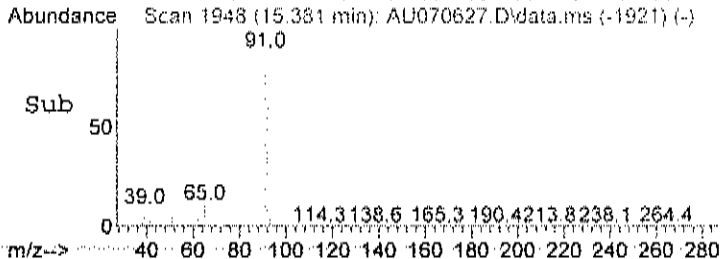
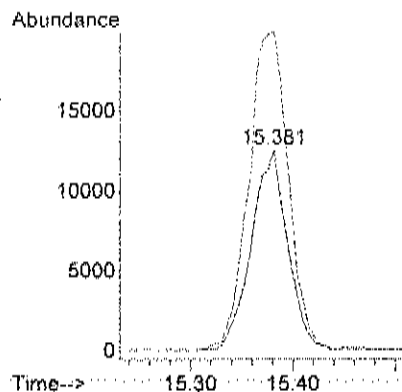
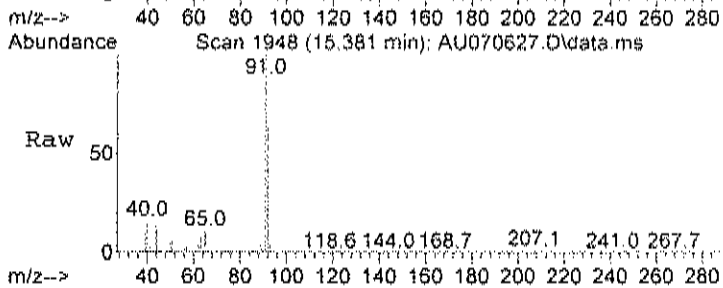
#33
Tetrahydrofuran
Concen: 0.16 ppb m
RT: 10.868 min Scan# 1152
Delta R.T. 0.006 min
Lab File: AU070627.D
Acq: 7 Jul 2023 12:37 am

Tgt Ion:	42	Resp:	18890
Ion	Ratio	Lower	Upper
42	100		
71	41.3	27.1	67.1
72	45.1	30.8	70.8



#51
Toluene
Concen: 0.21 ppb
RT: 15.381 min Scan# 1948
Delta R.T. 0.006 min
Lab File: AU070627.D
Acq: 7 Jul 2023 12:37 am

Tgt Ion:	92	Resp:	30812
Ion	Ratio	Lower	Upper
92	100		
91	175.2	150.4	190.4



Data Path : C:\msdchem\1\data\
Data File : AU070628.D
Acq On : 7 Jul 2023 1:19 am
Operator : RJP
Sample : C2307002-009A 40X
Misc : A629_1UG
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 07 05:03:16 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

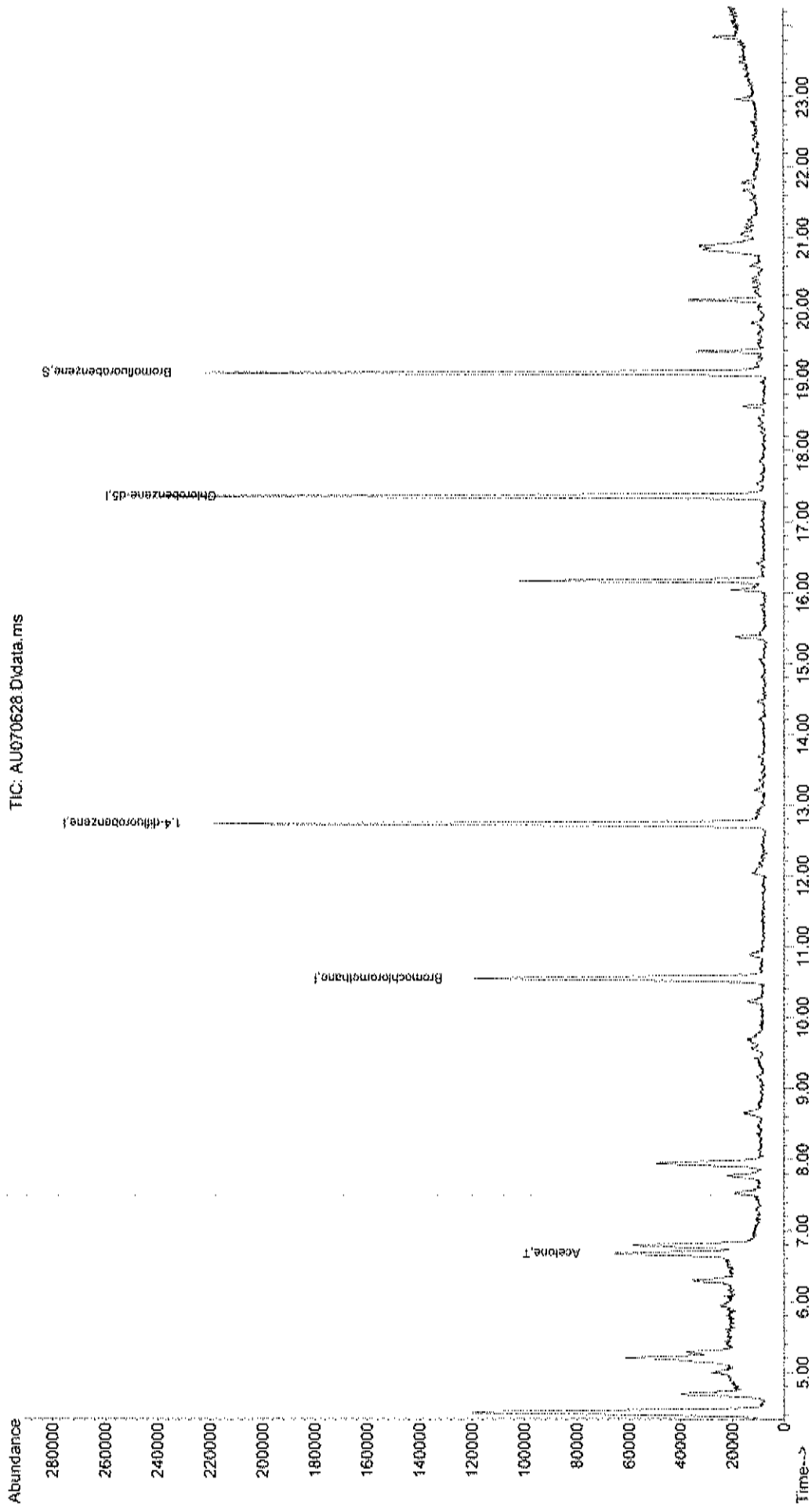
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

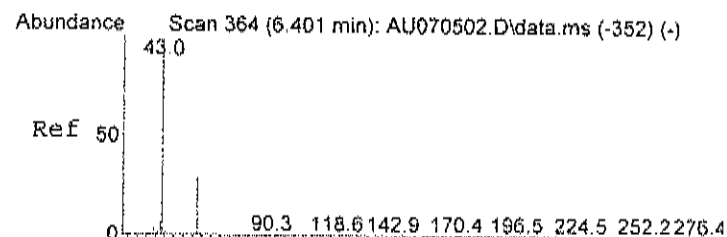
Internal Standards						
1) Bromochloromethane	10.545	128	54945	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.728	114	248391	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	195636	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	105703	0.72	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	72.00%
Target Compounds						
15) Acetone	6.678	58	35398m ^A	0.55	ppb	Qvalue

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

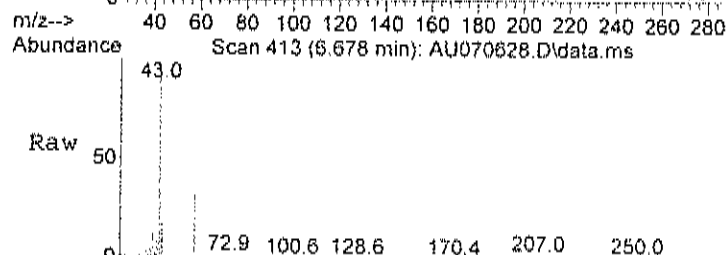
Data Path : C:\msdchem\1\data\
Data File : AU070628.D
Acq On : 7 Jul 2023 1:19 am
Operator : RJP
Sample : C2307002-009A 40X
Misc : A629_1UG
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 07 05:03:16 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

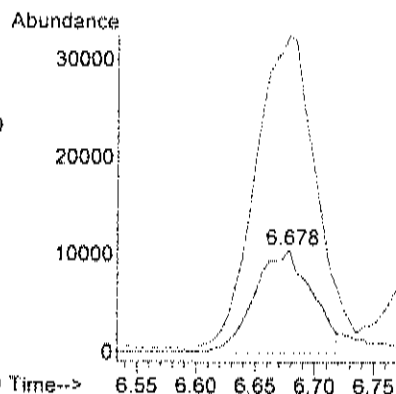
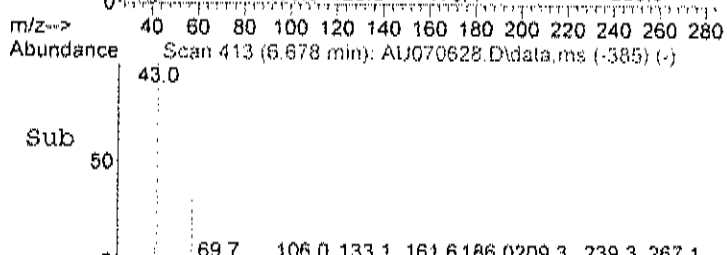




#15
 Acetone
 Concen: 0.55 ppb m
 RT: 6.678 min Scan# 413
 Delta R.T. 0.011 min
 Lab File: AU070628.D
 Acq: 7 Jul 2023 1:19 am



Tgt Ion: 58 Resp: 35398
 Ion Ratio Lower Upper
 58 100
 43 382.1 224.5 284.5#



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-010A

Client Sample ID: SVW-9
Tag Number: 96.175
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
		FLD				Analyst:
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST						
		GC				Analyst: RJP
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15						
		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 2:05:00 AM
2,2,4-trimethylpentane	0.13	0.15	J	ppbV	1	7/6/2023 2:05:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Acetone	7.3	3.0		ppbV	10	7/7/2023 2:02:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Benzene	0.76	0.15		ppbV	1	7/6/2023 2:05:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Carbon disulfide	0.35	0.15		ppbV	1	7/6/2023 2:05:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Chloroethane	0.14	0.15	J	ppbV	1	7/6/2023 2:05:00 AM
Chloroform	0.17	0.15		ppbV	1	7/6/2023 2:05:00 AM
Chloromethane	0.65	0.15		ppbV	1	7/6/2023 2:05:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte, Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 19 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-010A

Client Sample ID: SVW-9
 Tag Number: 96,175
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Ethyl acetate	0.43	0.15		ppbV	1	7/6/2023 2:05:00 AM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Freon 11	0.25	0.15		ppbV	1	7/6/2023 2:05:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Freon 12	0.52	0.15		ppbV	1	7/6/2023 2:05:00 AM
Heptane	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Hexane	0.43	0.15		ppbV	1	7/6/2023 2:05:00 AM
Isopropyl alcohol	3.8	1.5		ppbV	10	7/7/2023 2:02:00 AM
m&p-Xylene	0.19	0.30	J	ppbV	1	7/6/2023 2:05:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 2:05:00 AM
Methyl Ethyl Ketone	0.80	0.30		ppbV	1	7/6/2023 2:05:00 AM
Methyl Isobutyl Ketone	0.15	0.30	J	ppbV	1	7/6/2023 2:05:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Methylene chloride	0.35	0.15		ppbV	1	7/6/2023 2:05:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Styrene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Tetrachloroethylene	0.81	0.15		ppbV	1	7/6/2023 2:05:00 AM
Tetrahydrofuran	0.11	0.15	J	ppbV	1	7/6/2023 2:05:00 AM
Toluene	1.3	0.15		ppbV	1	7/6/2023 2:05:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:05:00 AM
Surr: Bromofluorobenzene	89.0	70-130		%REC	1	7/6/2023 2:05:00 AM

Qualifiers: . Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 20 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-9

Lab Order: C2307002

Tag Number: 96.175

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-010A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 2:05:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 2:05:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 2:05:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 2:05:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:05:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 2:05:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 2:05:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 2:05:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:05:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 2:05:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 2:05:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 2:05:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 2:05:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:05:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:05:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 2:05:00 AM
2,2,4-trimethylpentane	0.61	0.70	J	ug/m3	1	7/6/2023 2:05:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 2:05:00 AM
Acetone	17	7.1		ug/m3	10	7/7/2023 2:02:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 2:05:00 AM
Benzene	2.4	0.48		ug/m3	1	7/6/2023 2:05:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 2:05:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 2:05:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 2:05:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 2:05:00 AM
Carbon disulfide	1.1	0.47		ug/m3	1	7/6/2023 2:05:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 2:05:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 2:05:00 AM
Chloroethane	0.37	0.40	J	ug/m3	1	7/6/2023 2:05:00 AM
Chloroform	0.83	0.73		ug/m3	1	7/6/2023 2:05:00 AM
Chloromethane	1.3	0.31		ug/m3	1	7/6/2023 2:05:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:05:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 2:05:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/6/2023 2:05:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 2:05:00 AM
Ethyl acetate	1.5	0.54		ug/m3	1	7/6/2023 2:05:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/6/2023 2:05:00 AM
Freon 11	1.4	0.84		ug/m3	1	7/6/2023 2:05:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 2:05:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 2:05:00 AM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 19 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-9

Lab Order: C2307002

Tag Number: 96,175

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-010A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.6	0.74		ug/m3	1	7/6/2023 2:05:00 AM
Heptane	< 0.61	0.61		ug/m3	1	7/6/2023 2:05:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 2:05:00 AM
Hexane	1.5	0.53		ug/m3	1	7/6/2023 2:05:00 AM
Isopropyl alcohol	9.3	3.7		ug/m3	10	7/7/2023 2:02:00 AM
m&p-Xylene	0.82	1.3	J	ug/m3	1	7/6/2023 2:05:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 2:05:00 AM
Methyl Ethyl Ketone	2.4	0.88		ug/m3	1	7/6/2023 2:05:00 AM
Methyl Isobutyl Ketone	0.61	1.2	J	ug/m3	1	7/6/2023 2:05:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 2:05:00 AM
Methylene chloride	1.2	0.52		ug/m3	1	7/6/2023 2:05:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	7/6/2023 2:05:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 2:05:00 AM
Styrene	< 0.64	0.64		ug/m3	1	7/6/2023 2:05:00 AM
Tetrachloroethylene	5.5	1.0		ug/m3	1	7/6/2023 2:05:00 AM
Tetrahydrofuran	0.32	0.44	J	ug/m3	1	7/6/2023 2:05:00 AM
Toluene	4.9	0.57		ug/m3	1	7/6/2023 2:05:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:05:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 2:05:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/6/2023 2:05:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 2:05:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 2:05:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 2:05:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 20 of 40

Data Path : C:\msdchem\1\data\
 Data File : AU070527.D
 Acq On : 6 Jul 2023 2:05 am
 Operator : RJP
 Sample : C2307002-010A
 Misc : A629_1UG
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 06 07:55:43 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

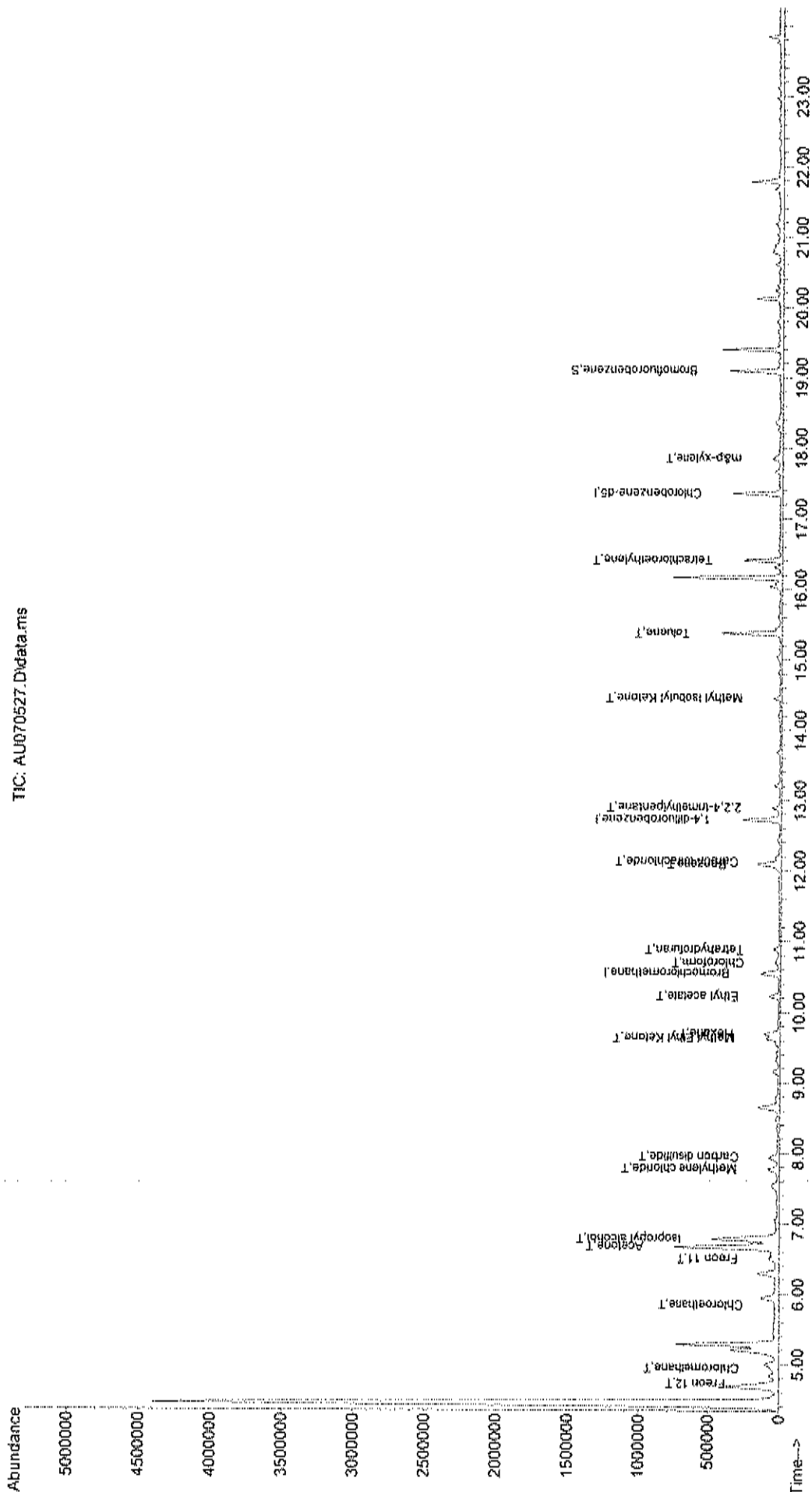
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

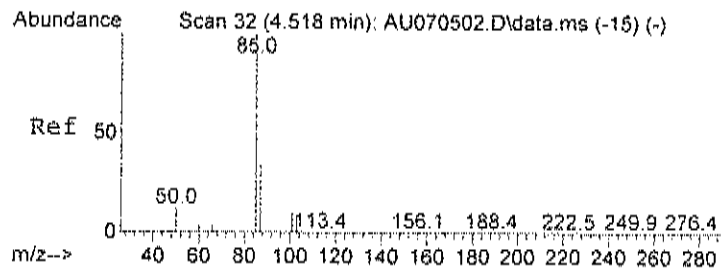
Internal Standards						
1) Bromochloromethane	10.551	128	65994	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.722	114	308305	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	267660	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	178978	0.89	ppb	0.05
Spiked Amount 1.000	Range 70 - 130		Recovery	=	89.00%	
Target Compounds						
						Qvalue
3) Freon 12	4.728	85	141102	0.52	ppb	100
4) Chloromethane	4.943	50	56155m	0.65	ppb	
10) Chloroethane	5.845	64	6369	0.14	ppb	# 87
14) Freon 11	6.503	101	68211	0.25	ppb	97
15) Acetone	6.667	58	555868	7.13	ppb	# 55
17) Isopropyl alcohol	6.780	45	828908	4.11	ppb	# 1
21) Methylene chloride	7.778	84	58851	0.35	ppb	92
23) Carbon disulfide	7.948	76	122082	0.35	ppb	93
28) Methyl Ethyl Ketone	9.632	72	49612	0.80	ppb	# 1
30) Hexane	9.695	57	84718	0.43	ppb	94
31) Ethyl acetate	10.222	43	120134	0.43	ppb	97
32) Chloroform	10.698	83	36298	0.17	ppb	100
33) Tetrahydrofuran	10.880	42	14929	0.11	ppb	# 66
38) Carbon tetrachloride	12.121	117	15363	0.09	ppb	95
39) Benzene	12.087	78	197815	0.76	ppb	96
42) 2,2,4-trimethylpentane	12.892	57	58644	0.13	ppb	78
51) Toluene	15.376	92	242785	1.29	ppb	96
52) Methyl Isobutyl Ketone	14.452	43	40521	0.15	ppb	85
56) Tetrachloroethylene	16.408	164	86050	0.81	ppb	100
59) m&p-xylene	17.848	91	62009	0.19	ppb	95

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

Data Path : C:\msdchem\1\data\
Data File : AU070527.D
Acq On : 6 Jul 2023 2:05 am
Operator : RJP
Sample : C2307002-010A
Misc : A629_IUG
ALS Vial : 15 Sample Multiplier: 1

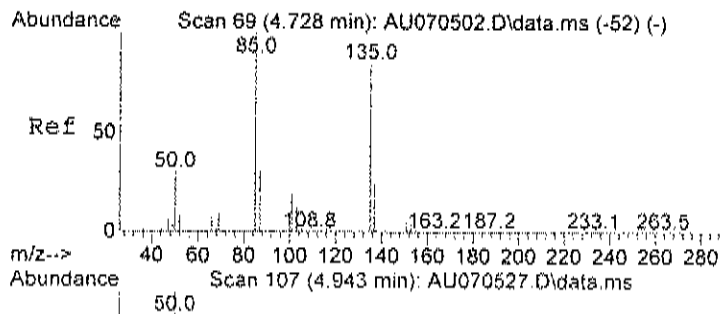
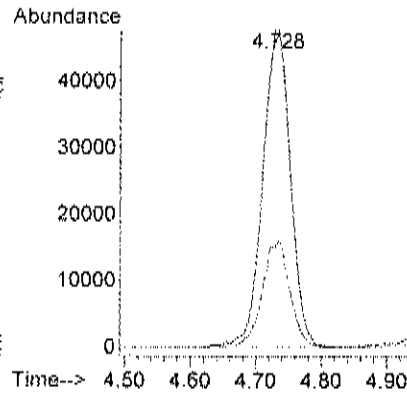
Quant Time: Jul 06 07:55:43 2023
Quant Method : C:\msdchem\1\methods\A629_IUG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration





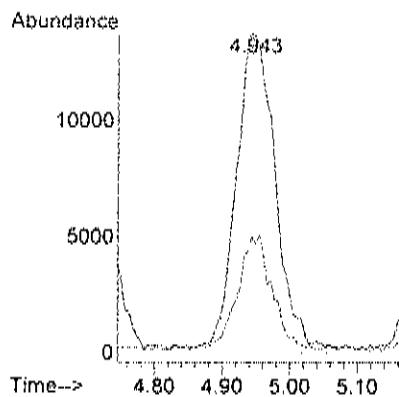
#3
Freon 12
Concen: 0.52 ppb
RT: 4.728 min Scan# 69
Delta R.T. -0.006 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

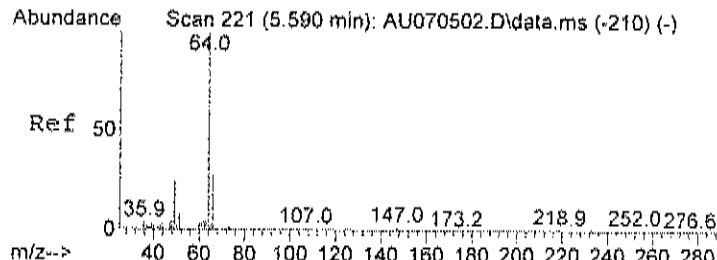
Tgt Ion:	85	Resp:	141102
Ion Ratio	Lower	Upper	
85	100		
87	33.3	13.4	53.4



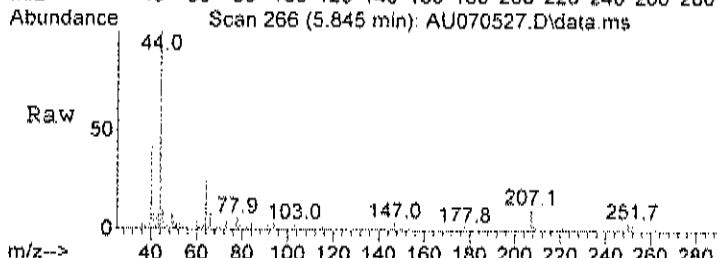
#4
Chloromethane
Concen: 0.65 ppb m
RT: 4.943 min Scan# 107
Delta R.T. -0.011 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

Tgt Ion:	50	Resp:	56155
Ion Ratio	Lower	Upper	
50	100		
52	0.0	6.9	46.9#

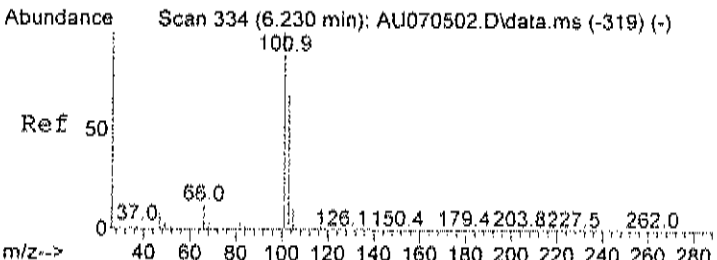
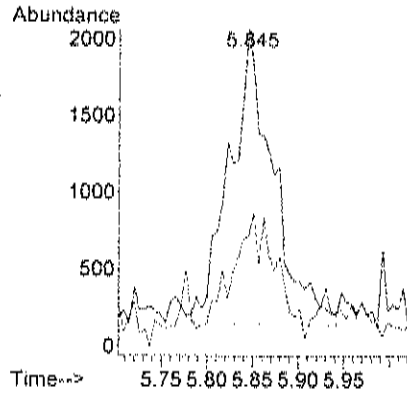
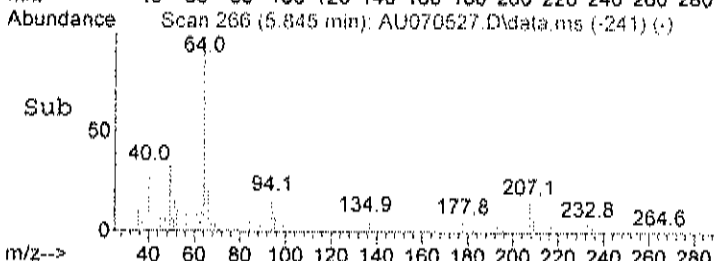




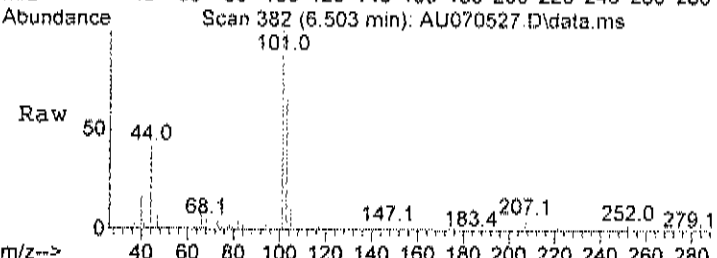
#10
Chloroethane
Concen: 0.14 ppb
RT: 5.845 min Scan# 266
Delta R.T. -0.006 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am



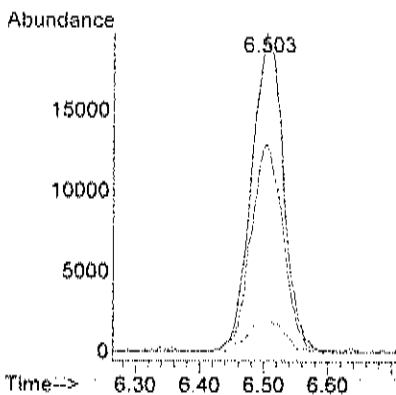
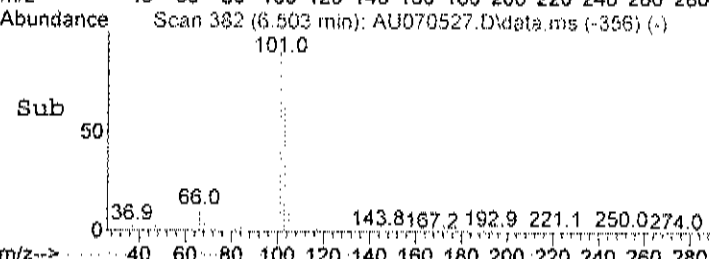
Tgt Ion: 64 Resp: 6369
Ion Ratio Lower Upper
64 100
66 43.0 28.2 42.2#

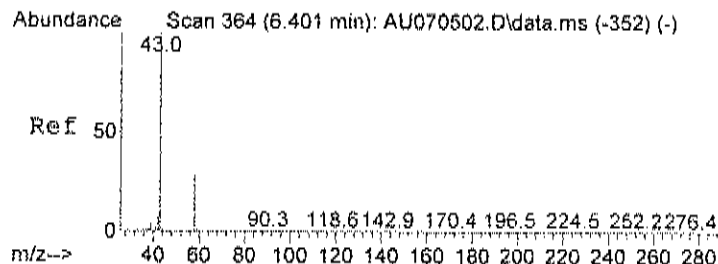


#14
Freon 11
Concen: 0.25 ppb
RT: 6.503 min Scan# 382
Delta R.T. -0.000 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am



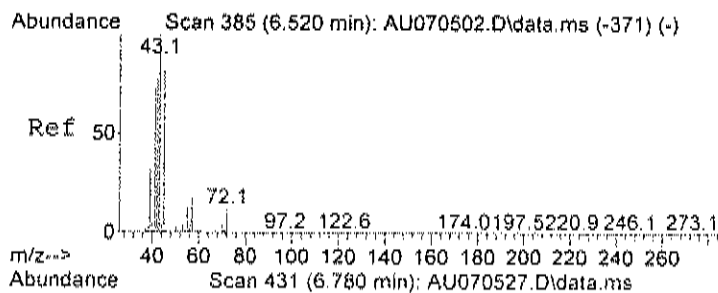
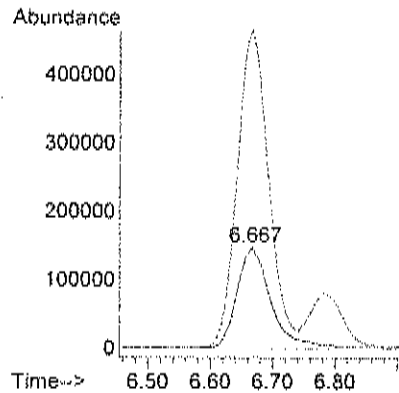
Tgt Ion: 101 Resp: 68211
Ion Ratio Lower Upper
101 100
103 66.8 44.0 84.0
105 11.6 0.0 31.4





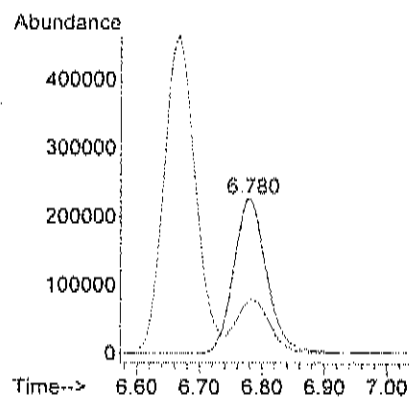
#15
Acetone
Concen: 7.13 ppb
RT: 6.667 min Scan# 411
Delta R.T. -0.000 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

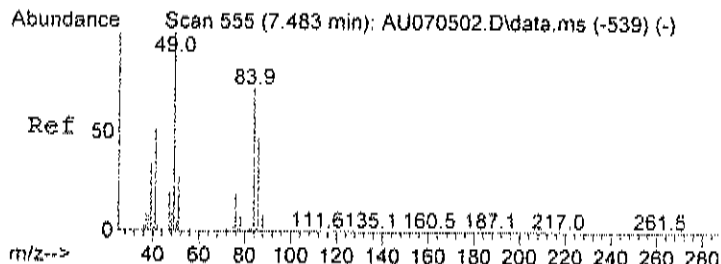
Tgt Ion: 58 Resp: 555868
Ion Ratio Lower Upper
58 100
43 334.6 224.5 284.5#



#17
Isopropyl alcohol
Concen: 4.11 ppb
RT: 6.780 min Scan# 431
Delta R.T. -0.006 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

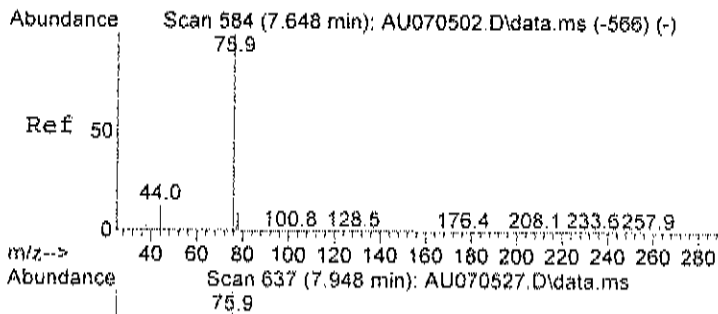
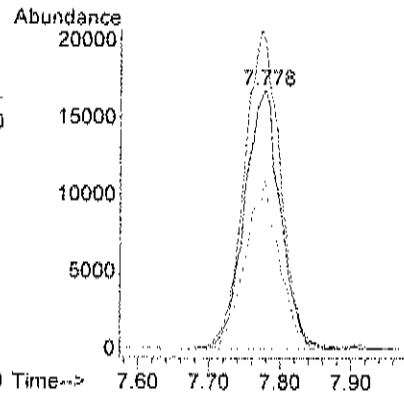
Tgt Ion: 45 Resp: 828908
Ion Ratio Lower Upper
45 100
43 0.0 110.3 150.3#





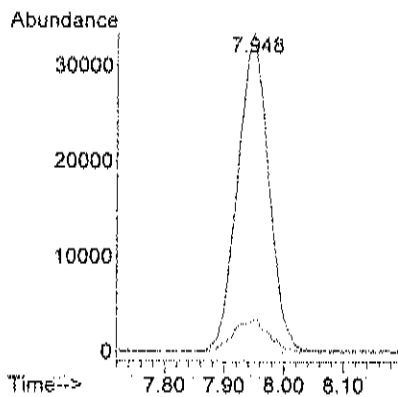
#21
Methylene chloride
Concen: 0.35 ppb
RT: 7.778 min Scan# 607
Delta R.T. 0.006 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

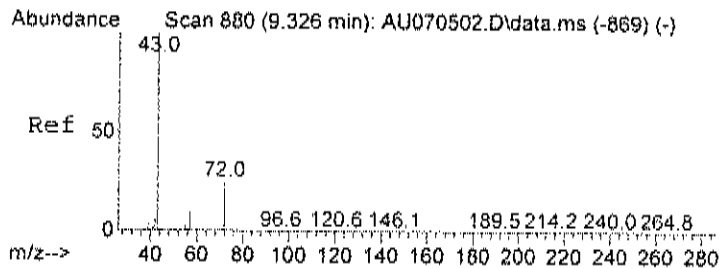
Tgt Ion:	84	Resp:	58851
Ion	Ratio	Lower	Upper
84	100		
49	125.0	93.0	133.0
86	61.6	43.7	83.7



#23
Carbon disulfide
Concen: 0.35 ppb
RT: 7.948 min Scan# 637
Delta R.T. -0.000 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

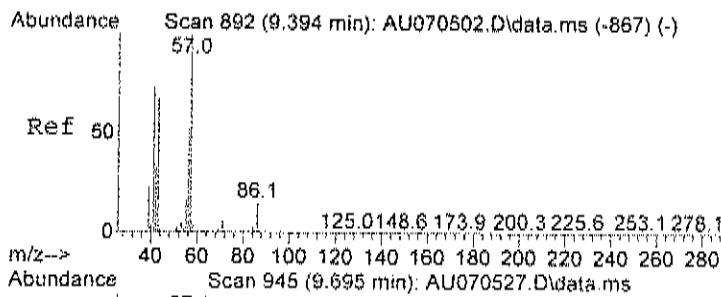
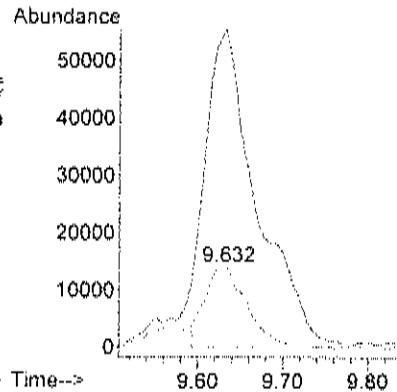
Tgt Ion:	76	Resp:	122082
Ion	Ratio	Lower	Upper
76	100		
78	11.9	0.0	29.3





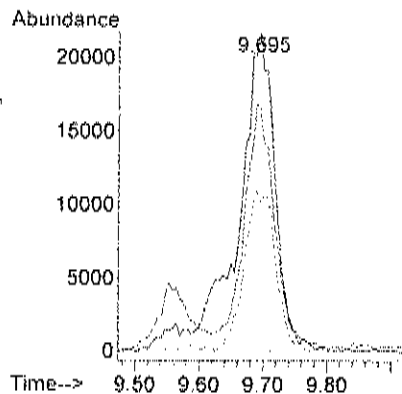
#28
Methyl Ethyl Ketone
Concen: 0.80 ppb
RT: 9.632 min Scan# 934
Delta R.T. 0.006 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

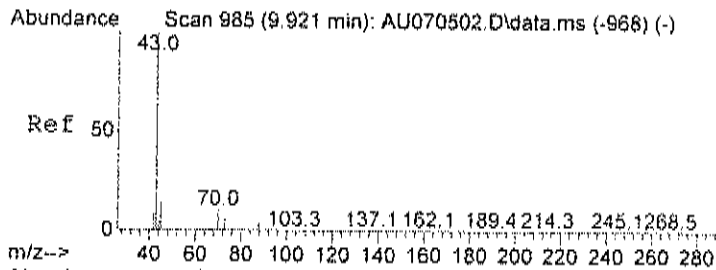
Tgt Ion	72	Resp	49612
Ion Ratio	Lower	Upper	
72	100		
43	0.0	389.0	429.0#
72	100.0	80.0	120.0



#30
Hexane
Concen: 0.43 ppb
RT: 9.695 min Scan# 945
Delta R.T. -0.000 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

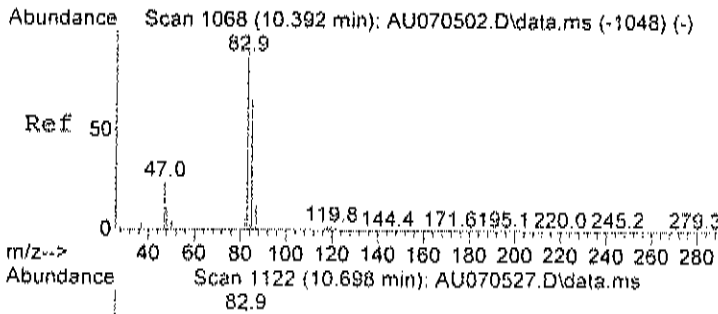
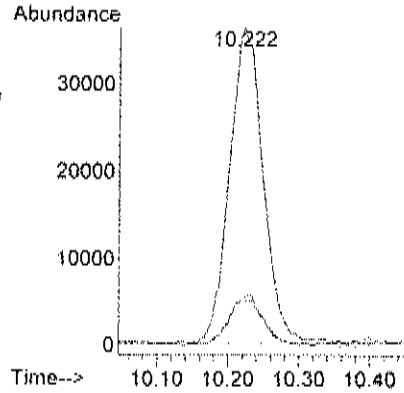
Tgt Ion	57	Resp	84718
Ion Ratio	Lower	Upper	
57	100		
41	64.9	37.3	77.3
56	44.7	24.8	64.8





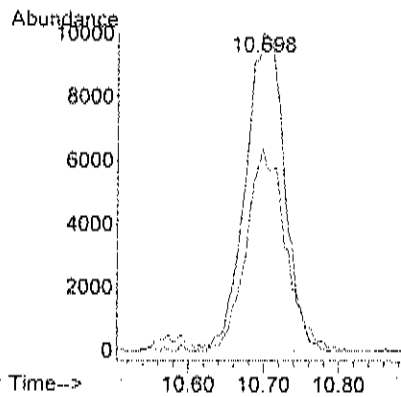
#31
Ethyl acetate
Concen: 0.43 ppb
RT: 10.222 min Scan# 1038
Delta R.T. -0.000 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

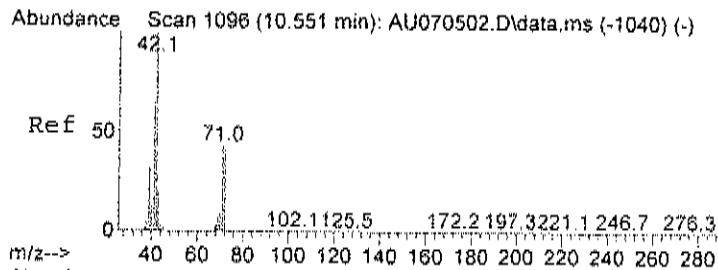
Tgt Ion:	43	Resp:	120134
Ion	Ratio	Lower	Upper
43	100		
45	16.4	0.0	35.3
61	15.6	0.0	37.0



#32
Chloroform
Concen: 0.17 ppb
RT: 10.698 min Scan# 1122
Delta R.T. -0.000 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

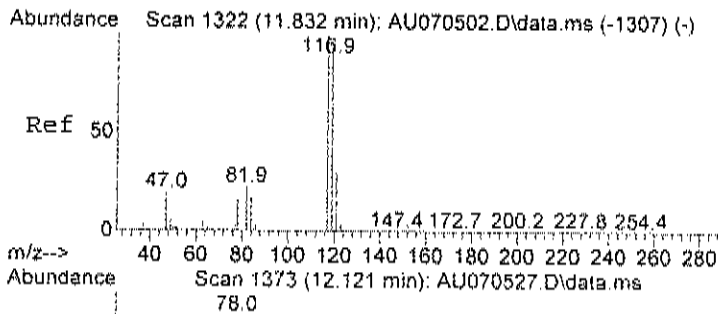
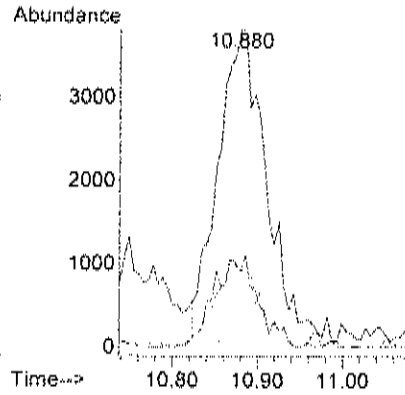
Tgt Ion:	83	Resp:	36298
Ion	Ratio	Lower	Upper
83	100		
85	64.5	44.6	84.6





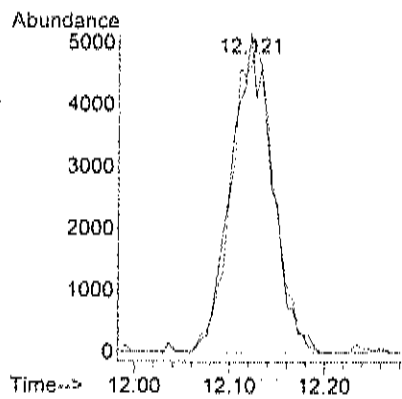
#33
Tetrahydrofuran
Concen: 0.11 ppb
RT: 10.880 min Scan# 1154
Delta R.T. 0.017 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

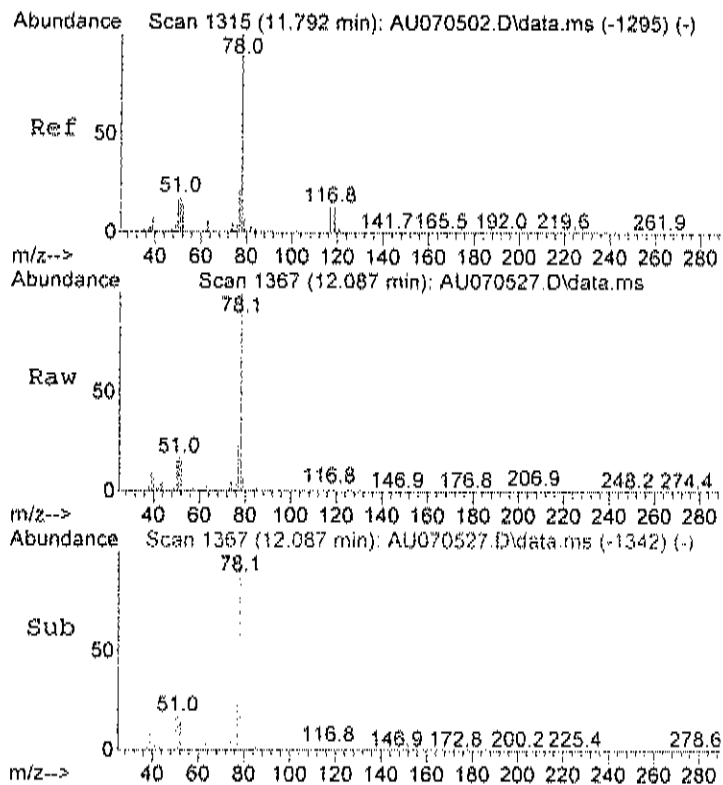
Tgt Ion	Ratio	Lower	Upper
42	100		
71	26.3	27.1	67.1#
72	25.6	30.8	70.8#



#38
Carbon tetrachloride
Concen: 0.09 ppb
RT: 12.121 min Scan# 1373
Delta R.T. -0.006 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

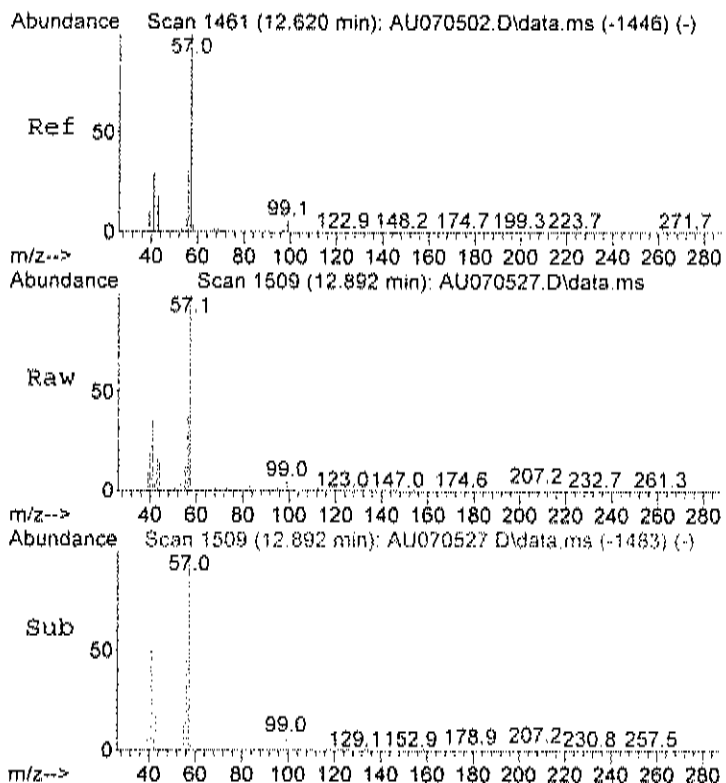
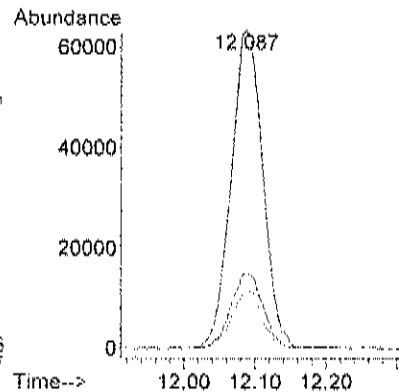
Tgt Ion	Ratio	Lower	Upper
117	100		
119	101.7	76.7	116.7





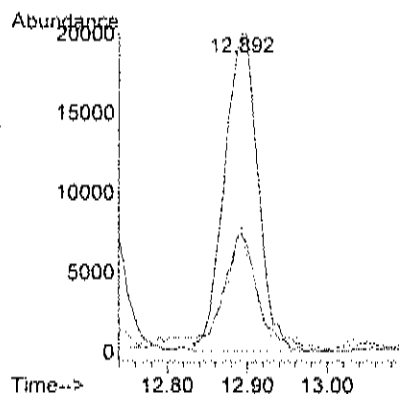
#39
Benzene
Concen: 0.76 ppb
RT: 12.087 min Scan# 1367
Delta R.T. -0.006 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

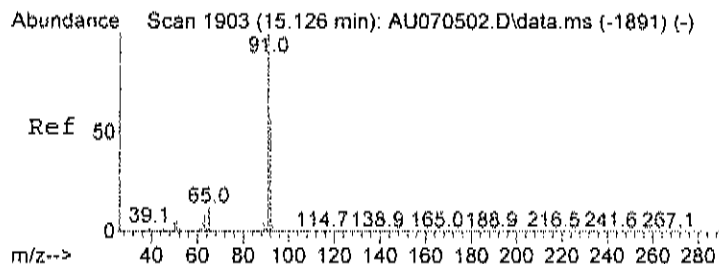
Tgt Ion:	78	Resp:	197815
Ion Ratio	Lower	Upper	
78	100		
77	24.7	3.8	43.8
51	18.9	0.0	35.4



#42
2,2,4-trimethylpentane
Concen: 0.13 ppb
RT: 12.892 min Scan# 1509
Delta R.T. -0.000 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

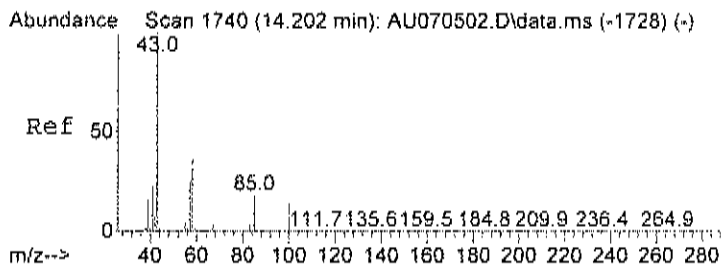
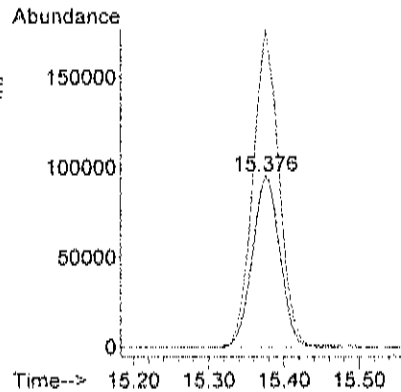
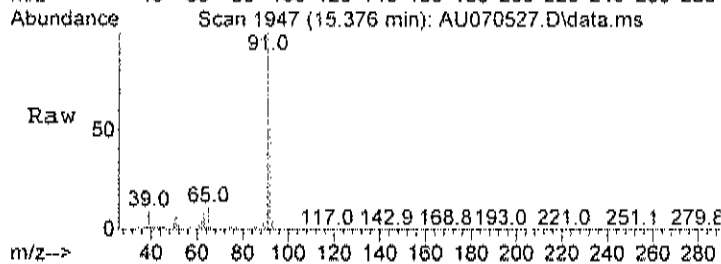
Tgt Ion:	57	Resp:	58644
Ion Ratio	Lower	Upper	
57	100		
41	37.0	1.7	41.7
56	38.5	10.7	50.7





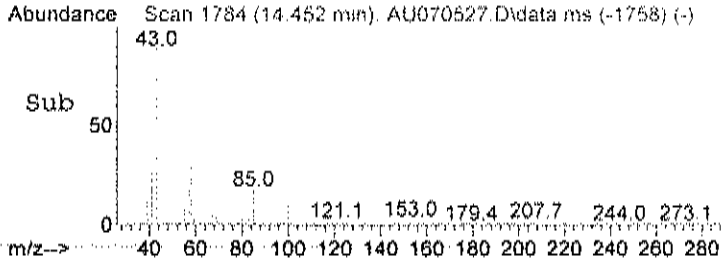
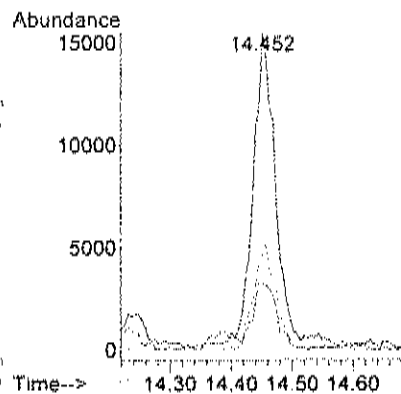
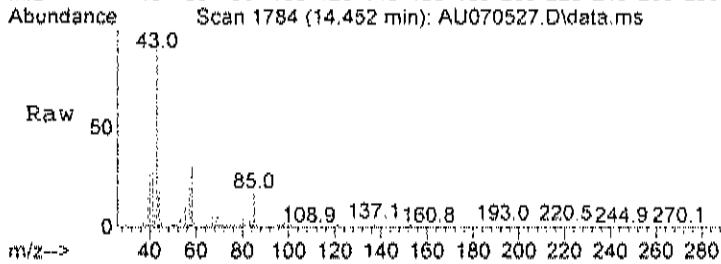
#51
Toluene
Concen: 1.29 ppb
RT: 15.376 min Scan# 1947
Delta R.T. -0.000 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

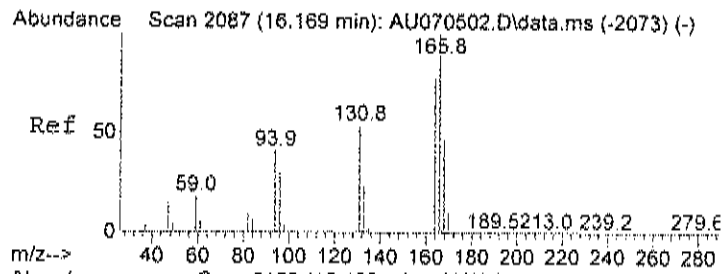
Tgt Ion	92	Resp	242785
Ion	Ratio	Lower	Upper
92	100		
91	175.2	150.4	190.4



#52
Methyl Isobutyl Ketone
Concen: 0.15 ppb
RT: 14.452 min Scan# 1784
Delta R.T. -0.000 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

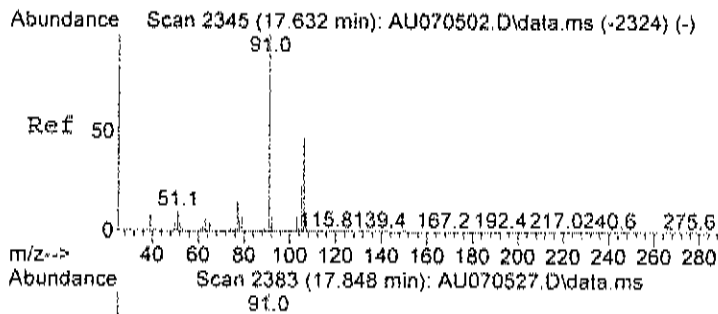
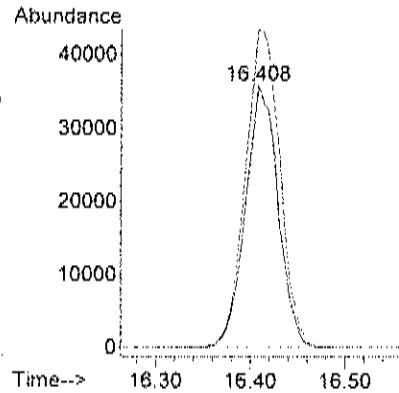
Tgt Ion	43	Resp	40521
Ion	Ratio	Lower	Upper
43	100		
57	21.9	7.9	47.9
58	33.0	24.7	64.7





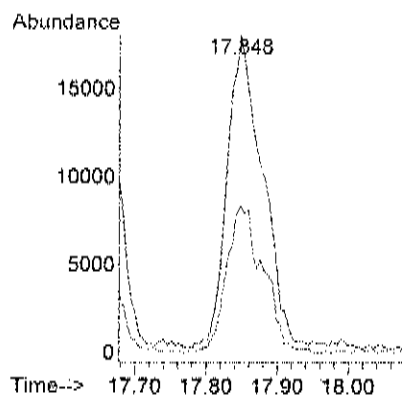
#56
Tetrachloroethylene
Concen: 0.81 ppb
RT: 16.408 min Scan# 2129
Delta R.T. -0.006 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

Tgt Ion	164	Resp	86050
Ion Ratio	Lower	Upper	
164	100		
166	128.2	107.9	147.9



#59
m&p-xylene
Concen: 0.19 ppb
RT: 17.848 min Scan# 2383
Delta R.T. -0.017 min
Lab File: AU070527.D
Acq: 6 Jul 2023 2:05 am

Tgt Ion	91	Resp	62009
Ion Ratio	Lower	Upper	
91	100		
106	48.3	32.1	72.1



Data Path : C:\msdchem\1\data\
Data File : AU070629.D
Acq On : 7 Jul 2023 2:02 am
Operator : RJP
Sample : C2307002-010A 10X
Misc : A629_1UG
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 07 05:03:32 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

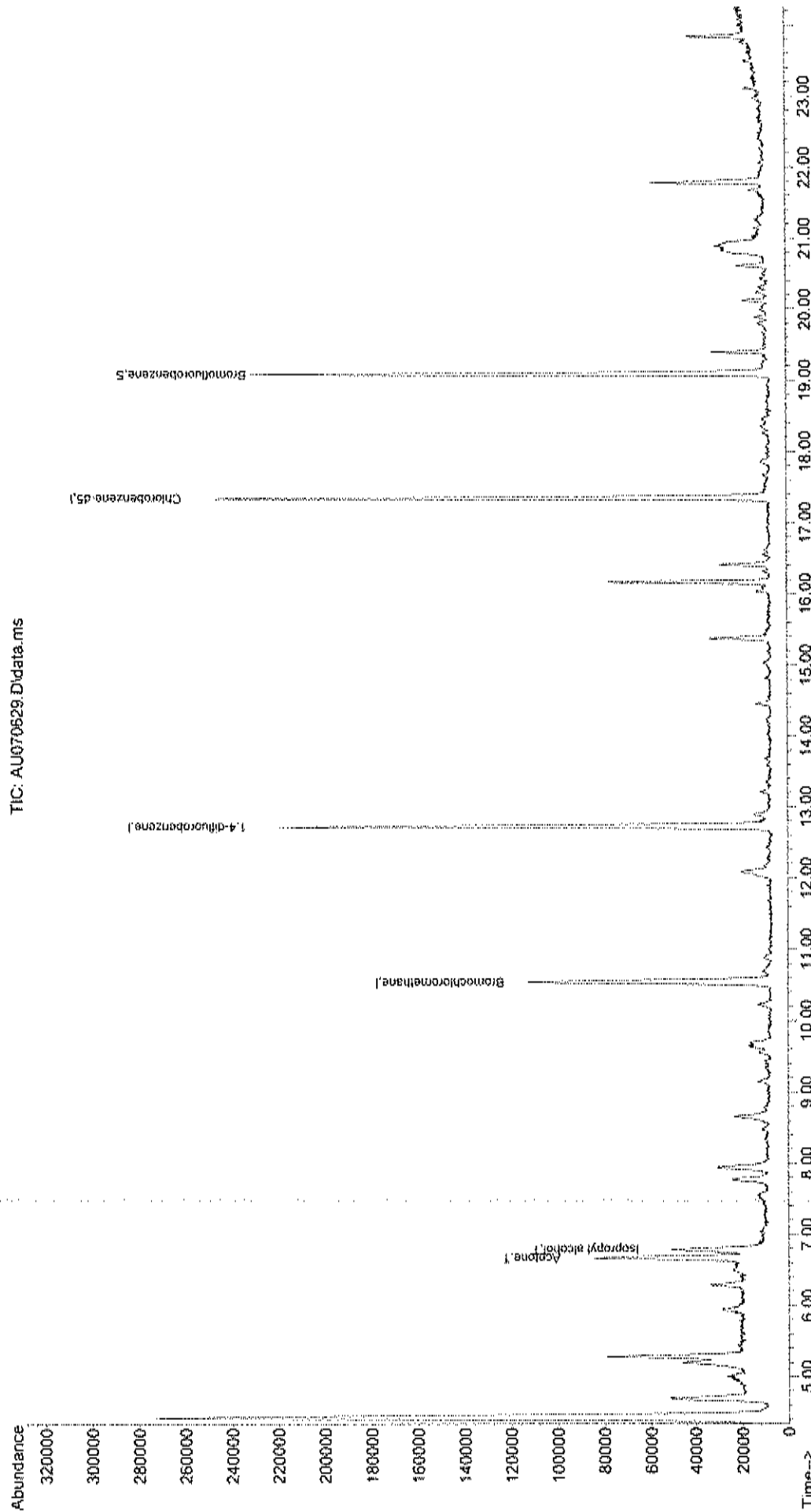
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

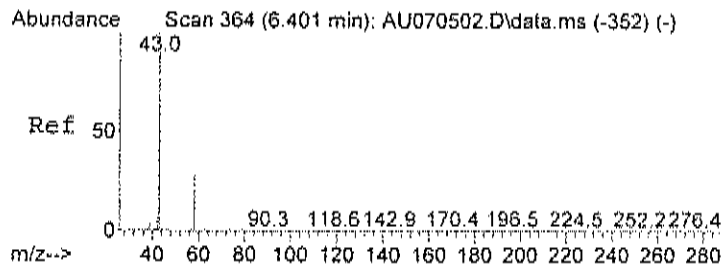
Internal Standards						
1) Bromochloromethane	10.540	128	53701	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	243606	1.00	ppb	0.00
50) Chlorobenzene-d5	17.355	117	199046	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.089	95	110883	0.74	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	74.00%
Target Compounds						
15) Acetone	6.667	58	46163m	0.73	ppb	Qvalue
17) Isopropyl alcohol	6.786	45	61624	0.38	ppb	# 1

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

Data Path : C:\msdchem\1\data\
 Data File : AU070629.D
 Acq On : 7 Jul 2023 2:02 am
 Operator : RJP
 Sample : C2307002-010A 10X
 Misc : A629 1UG
 ALS Vial : 25 Sample Multiplier: 1

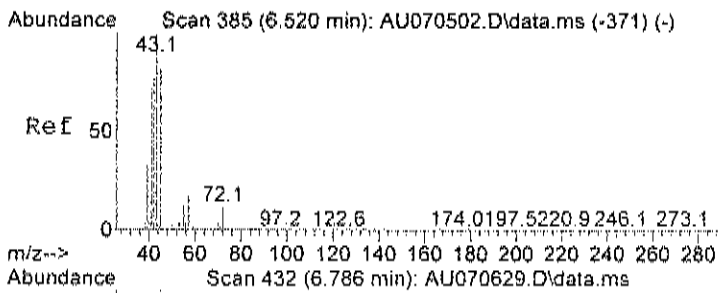
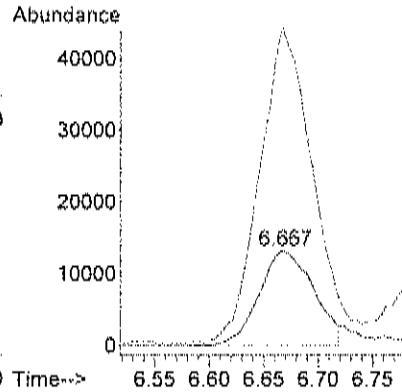
Quant Time: Jul 07 05:03:32 2023
 Quant Method : C:\msdchem\1\methods\A629 1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QIast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





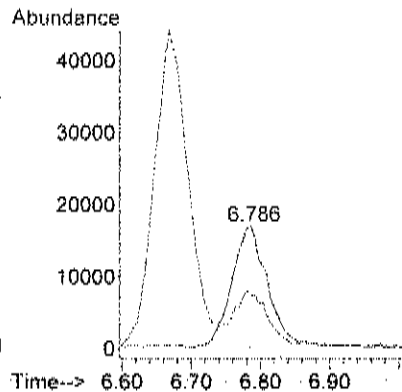
#15
Acetone
Concen: 0.73 ppb m
RT: 6.667 min Scan# 411
Delta R.T. 0.000 min
Lab File: AU070629.D
Acq: 7 Jul 2023 2:02 am

Tgt Ion: 58 Resp: 46163
Ion Ratio Lower Upper
58 100
43 353.9 224.5 284.5#



#17
Isopropyl alcohol
Concen: 0.38 ppb
RT: 6.786 min Scan# 432
Delta R.T. 0.000 min
Lab File: AU070629.D
Acq: 7 Jul 2023 2:02 am

Tgt Ion: 45 Resp: 61624
Ion Ratio Lower Upper
45 100
43 0.0 110.3 150.3#



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-10

Lab Order: C2307002

Tag Number: 205,180

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-011A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC				Analyst: RJP
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 2:50:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Acetone	18	3.0		ppbV	10	7/7/2023 2:45:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Benzene	0.58	0.15		ppbV	1	7/6/2023 2:50:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Carbon disulfide	3.4	1.5		ppbV	10	7/7/2023 2:45:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Chloroform	3.6	1.5		ppbV	10	7/7/2023 2:45:00 AM
Chloromethane	0.57	0.15		ppbV	1	7/6/2023 2:50:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM

Qualifiers:

- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-011A

Client Sample ID: SVW-10
 Tag Number: 205,180
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Ethyl acetate	0.47	0.15		ppbV	1	7/6/2023 2:50:00 AM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Freon 11	0.44	0.15		ppbV	1	7/6/2023 2:50:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Freon 12	0.61	0.15		ppbV	1	7/6/2023 2:50:00 AM
Heptane	0.11	0.15	J	ppbV	1	7/6/2023 2:50:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Hexane	0.30	0.15		ppbV	1	7/6/2023 2:50:00 AM
Isopropyl alcohol	4.4	1.5		ppbV	10	7/7/2023 2:45:00 AM
m&p-Xylene	0.13	0.30	J	ppbV	1	7/6/2023 2:50:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 2:50:00 AM
Methyl Ethyl Ketone	0.71	0.30		ppbV	1	7/6/2023 2:50:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 2:50:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Methylene chloride	0.33	0.15		ppbV	1	7/6/2023 2:50:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Styrene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Tetrachloroethylene	0.35	0.15		ppbV	1	7/6/2023 2:50:00 AM
Tetrahydrofuran	0.30	0.15		ppbV	1	7/6/2023 2:50:00 AM
Toluene	0.74	0.15		ppbV	1	7/6/2023 2:50:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 2:50:00 AM
Surr: Bromofluorobenzene	89.0	70-130		%REC	1	7/6/2023 2:50:00 AM

Qualifiers: - Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 22 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-011A

Client Sample ID: SVW-10
 Tag Number: 205,180
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 2:50:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 2:50:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 2:50:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 2:50:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:50:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 2:50:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 2:50:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 2:50:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:50:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 2:50:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 2:50:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 2:50:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 2:50:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:50:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 2:50:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 2:50:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/6/2023 2:50:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 2:50:00 AM
Acetone	44	7.1		ug/m3	10	7/7/2023 2:45:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 2:50:00 AM
Benzene	1.9	0.48		ug/m3	1	7/6/2023 2:50:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 2:50:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 2:50:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 2:50:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 2:50:00 AM
Carbon disulfide	11	4.7		ug/m3	10	7/7/2023 2:45:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 2:50:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 2:50:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	7/6/2023 2:50:00 AM
Chloroform	18	7.3		ug/m3	10	7/7/2023 2:45:00 AM
Chloromethane	1.2	0.31		ug/m3	1	7/6/2023 2:50:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:50:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 2:50:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/6/2023 2:50:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 2:50:00 AM
Ethyl acetate	1.7	0.54		ug/m3	1	7/6/2023 2:50:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/6/2023 2:50:00 AM
Freon 11	2.5	0.84		ug/m3	1	7/6/2023 2:50:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 2:50:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 2:50:00 AM

Qualifiers: . Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 21 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-011A

Client Sample ID: SVW-10
 Tag Number: 205,180
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	3.0	0.74		ug/m3	1	7/6/2023 2:50:00 AM
Heptane	0.45	0.61	J	ug/m3	1	7/6/2023 2:50:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 2:50:00 AM
Hexane	1.1	0.53		ug/m3	1	7/6/2023 2:50:00 AM
Isopropyl alcohol	11	3.7		ug/m3	10	7/7/2023 2:45:00 AM
m&p-Xylene	0.56	1.3	J	ug/m3	1	7/6/2023 2:50:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 2:50:00 AM
Methyl Ethyl Ketone	2.1	0.88		ug/m3	1	7/6/2023 2:50:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 2:50:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 2:50:00 AM
Methylene chloride	1.1	0.52		ug/m3	1	7/6/2023 2:50:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	7/6/2023 2:50:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 2:50:00 AM
Styrene	< 0.64	0.64		ug/m3	1	7/6/2023 2:50:00 AM
Tetrachloroethylene	2.4	1.0		ug/m3	1	7/6/2023 2:50:00 AM
Tetrahydrofuran	0.88	0.44		ug/m3	1	7/6/2023 2:50:00 AM
Toluene	2.8	0.57		ug/m3	1	7/6/2023 2:50:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 2:50:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 2:50:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/6/2023 2:50:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 2:50:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 2:50:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 2:50:00 AM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 22 of 40

Data Path : C:\msdchem\1\data\
 Data File : AU070528.D
 Acq On : 6 Jul 2023 2:50 am
 Operator : RJP
 Sample : C2307002-011A
 Misc : A629_1UG
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 06 07:55:45 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

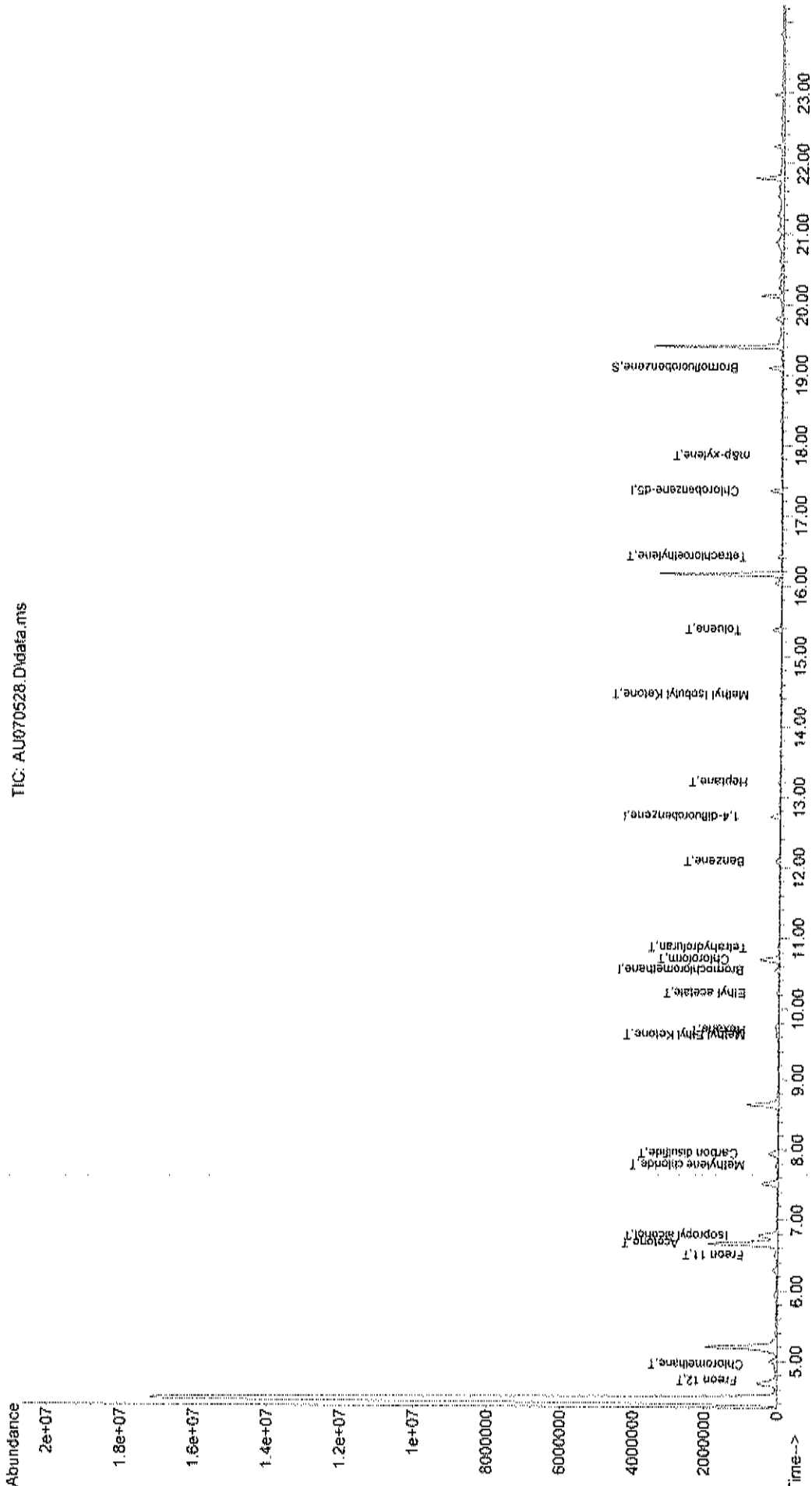
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

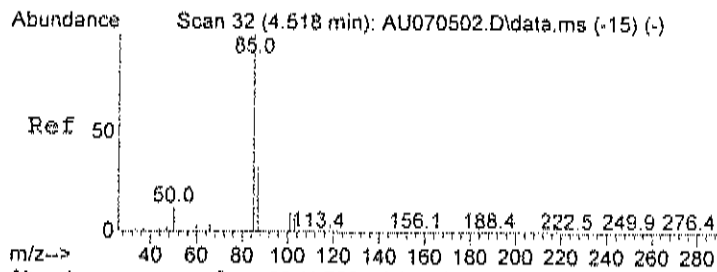
Internal Standards						
1) Bromochloromethane	10.545	128	60019	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	300511	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	267857	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	179693	0.89	ppb	0.05
Spiked Amount	1.000	Range 70 - 130	Recovery	=	89.00%	
Target Compounds						
						Qvalue
3) Freon 12	4.728	85	149723	0.61	ppb	98
4) Chloromethane	4.955	50	44448m	0.57	ppb	
14) Freon 11	6.503	101	108538	0.44	ppb	100
15) Acetone	6.667	58	1425553	20.11	ppb	# 60
17) Isopropyl alcohol	6.775	45	868722	4.73	ppb	# 1
21) Methylene chloride	7.778	84	50524	0.33	ppb	90
23) Carbon disulfide	7.943	76	693675	2.20	ppb	100
28) Methyl Ethyl Ketone	9.627	72	39993m	0.71	ppb	
30) Hexane	9.700	57	54064m	0.30	ppb	
31) Ethyl acetate	10.222	43	117446	0.47	ppb	97
32) Chloroform	10.698	83	724183	3.66	ppb	99
33) Tetrahydrofuran	10.863	42	36136	0.30	ppb	91
39) Benzene	12.087	78	146778	0.58	ppb	97
43) Heptane	13.216	43	18333m	0.11	ppb	
51) Toluene	15.376	92	139415	0.74	ppb	97
52) Methyl Isobutyl Ketone	14.452	43	26455	0.10	ppb	89
56) Tetrachloroethylene	16.413	164	37705	0.35	ppb	99
59) m&p-xylene	17.848	91	42506	0.13	ppb	94

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

Data Path : C:\msdchem\1\data\
Data File : AU070528.D
Acq On : 6 Jul 2023 2:50 am
Operator : RJP
Sample : C2307002-011A
Misc : A629_1UG
ALS Vial : 16 Sample Multiplier: 1

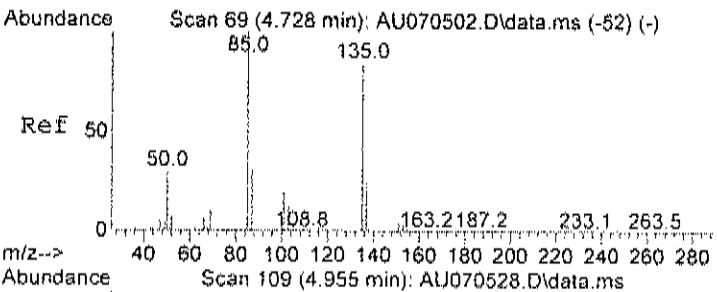
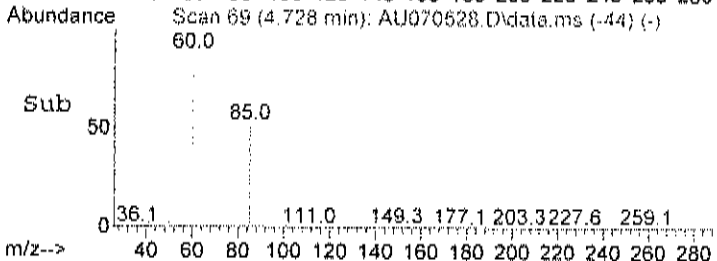
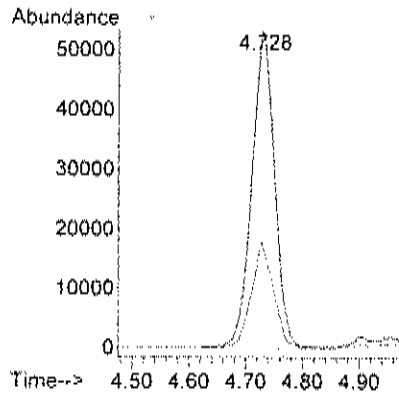
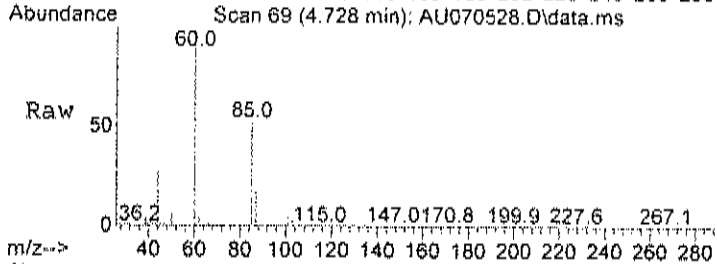
Quant Time: Jul 06 07:55:45 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration





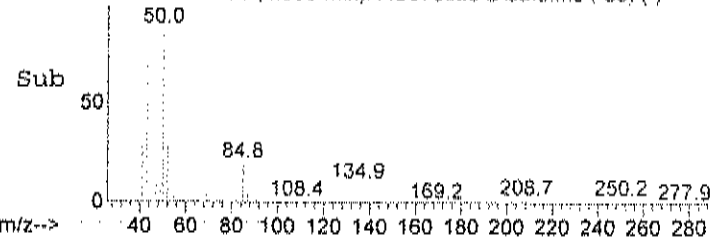
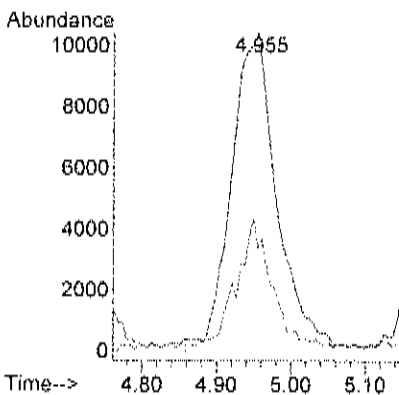
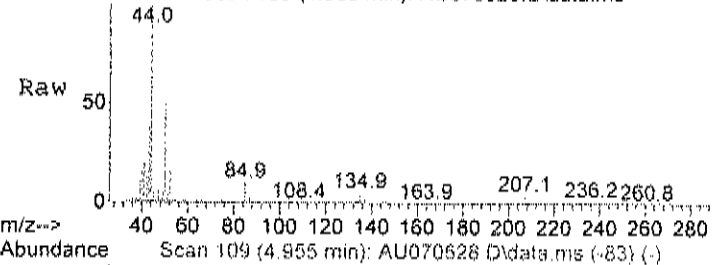
#3
Freon 12
Concen: 0.61 ppb
RT: 4.728 min Scan# 69
Delta R.T. -0.006 min
Lab File: AU070528.D
Acq: 6 Jul 2023 2:50 am

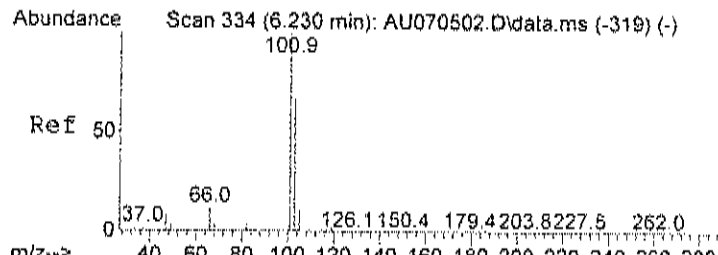
Tgt Ion: 85 Resp: 149723
Ion Ratio Lower Upper
85 100
87 32.3 13.4 53.4



#4
Chloromethane
Concen: 0.57 ppb m
RT: 4.955 min Scan# 109
Delta R.T. 0.000 min
Lab File: AU070528.D
Acq: 6 Jul 2023 2:50 am

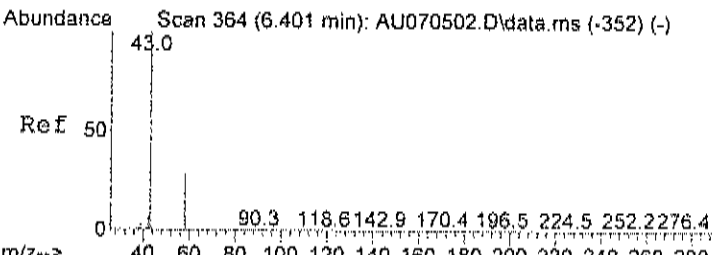
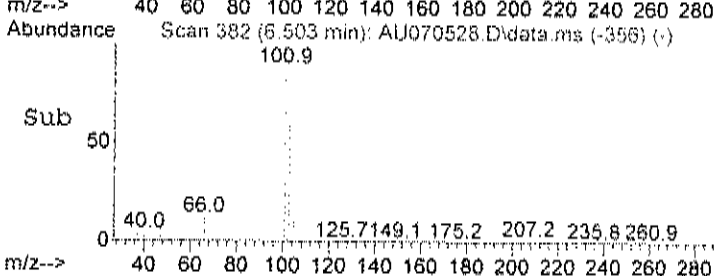
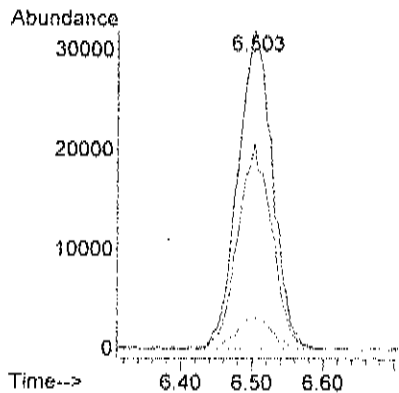
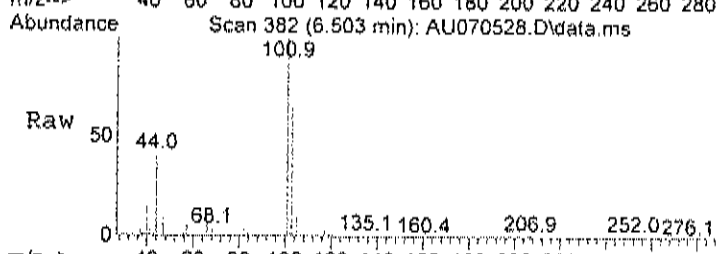
Tgt Ion: 50 Resp: 44448
Ion Ratio Lower Upper
50 100
52 0.0 6.9 46.9#





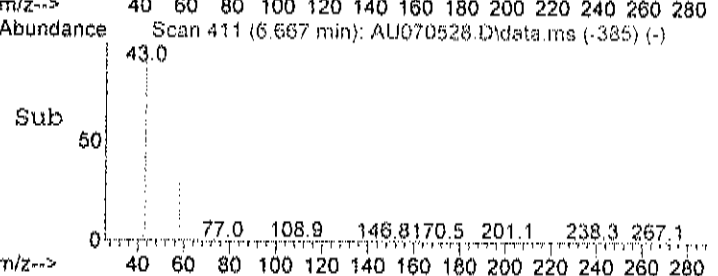
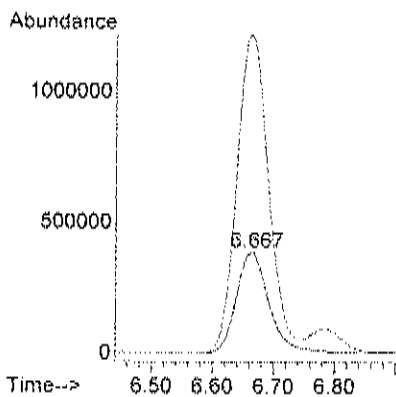
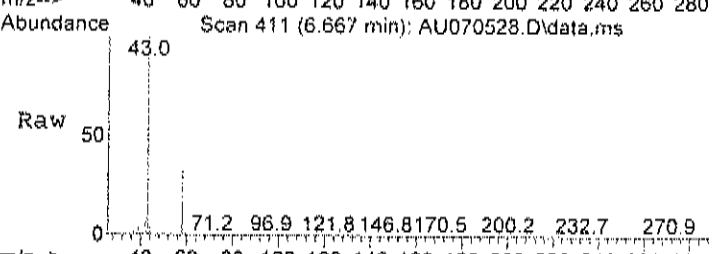
#14
 Freon 11
 Concen: 0.44 ppb
 RT: 6.503 min Scan# 382
 Delta R.T. 0.000 min
 Lab File: AU070528.D
 Acq: 6 Jul 2023 2:50 am

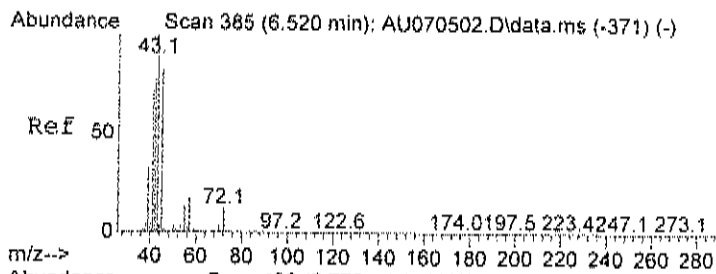
Tgt Ion:	101	Resp:	108538
Ion	Ratio	Lower	Upper
101	100		
103	63.9	44.0	84.0
105	10.8	0.0	31.4



#15
 Acetone
 Concen: 20.11 ppb
 RT: 6.667 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: AU070528.D
 Acq: 6 Jul 2023 2:50 am

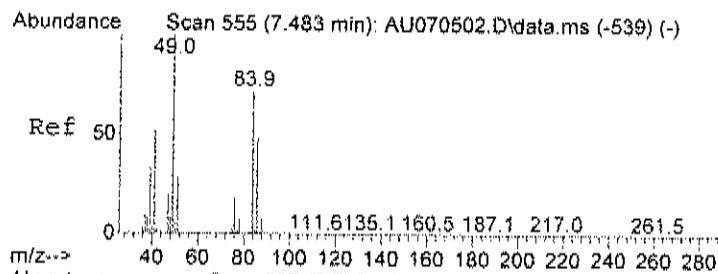
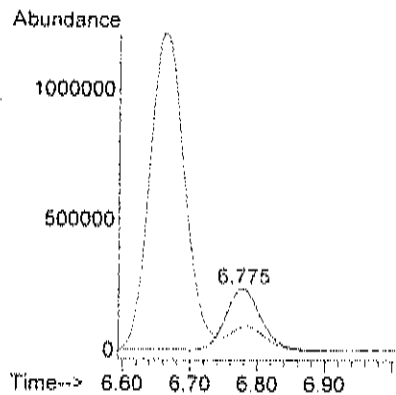
Tgt Ion:	58	Resp:	1425553
Ion	Ratio	Lower	Upper
58	100		
43	325.9	224.5	284.5#





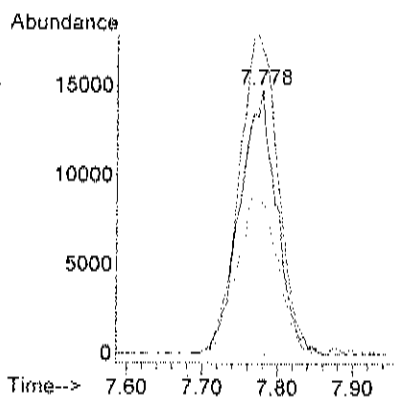
#17
Isopropyl alcohol
Concen: 4.73 ppb
RT: 6.775 min Scan# 430
Delta R.T. -0.011 min
Lab File: AU070528.D
Acq: 6 Jul 2023 2:50 am

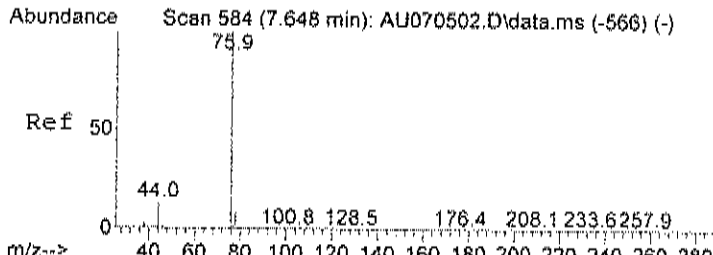
Tgt Ion: 45 Resp: 868722
Ion Ratio Lower Upper
45 100
43 0.0 110.3 150.3#



#21
Methylene chloride
Concen: 0.33 ppb
RT: 7.778 min Scan# 607
Delta R.T. 0.006 min
Lab File: AU070528.D
Acq: 6 Jul 2023 2:50 am

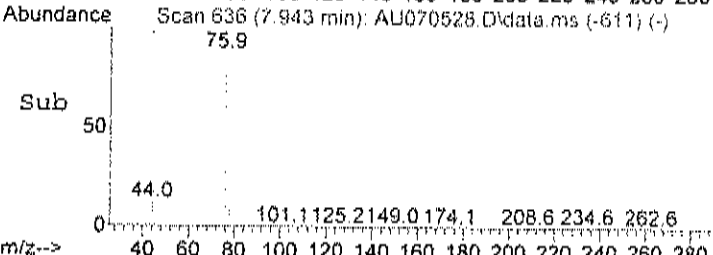
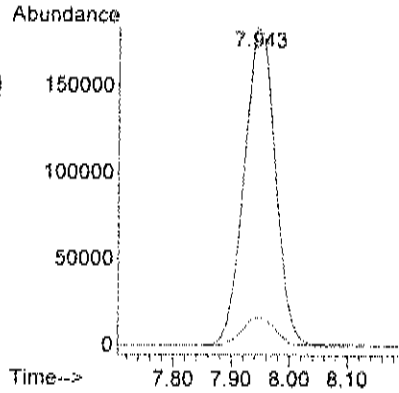
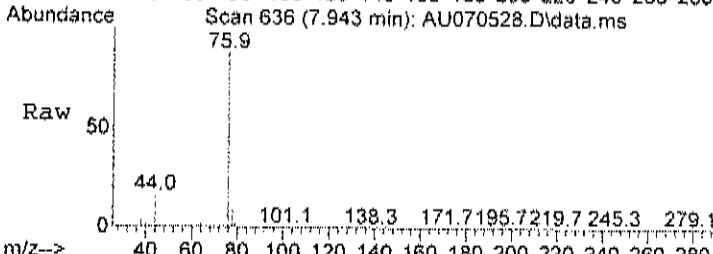
Tgt Ion: 84 Resp: 50524
Ion Ratio Lower Upper
84 100
49 129.5 93.0 133.0
86 64.6 43.7 83.7





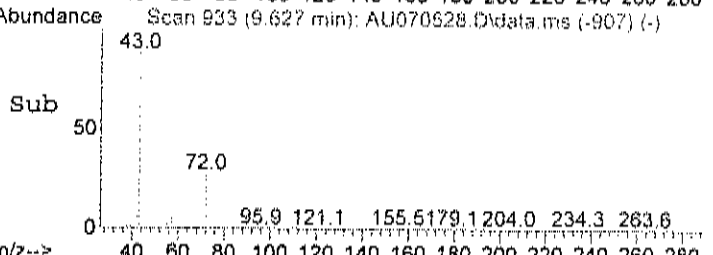
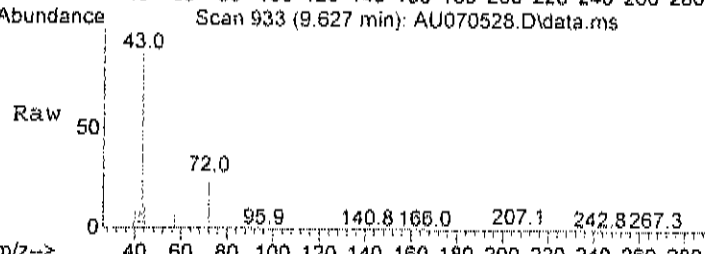
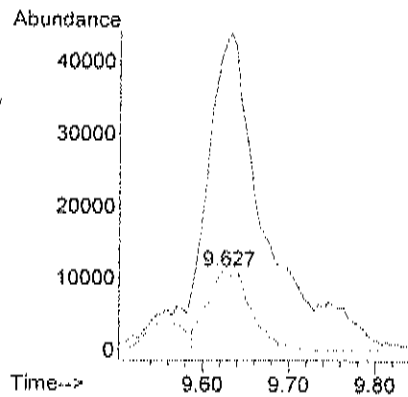
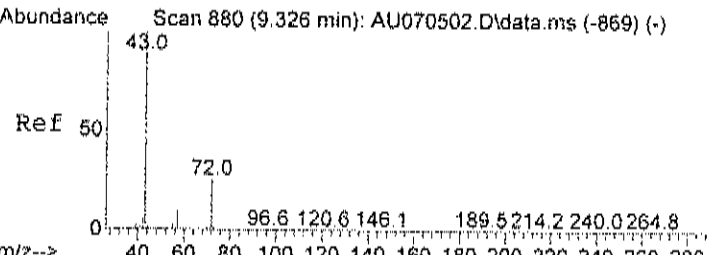
#23
Carbon disulfide
Concen: 2.20 ppb
RT: 7.943 min Scan# 636
Delta R.T. -0.006 min
Lab File: AU070528.D
Acq: 6 Jul 2023 2:50 am

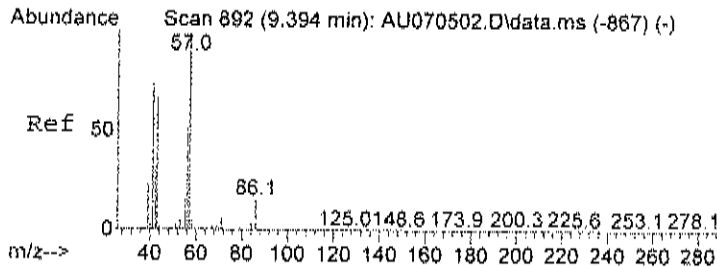
Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.3	0.0	29.3



#28
Methyl Ethyl Ketone
Concen: 0.71 ppb m
RT: 9.627 min Scan# 933
Delta R.T. 0.000 min
Lab File: AU070528.D
Acq: 6 Jul 2023 2:50 am

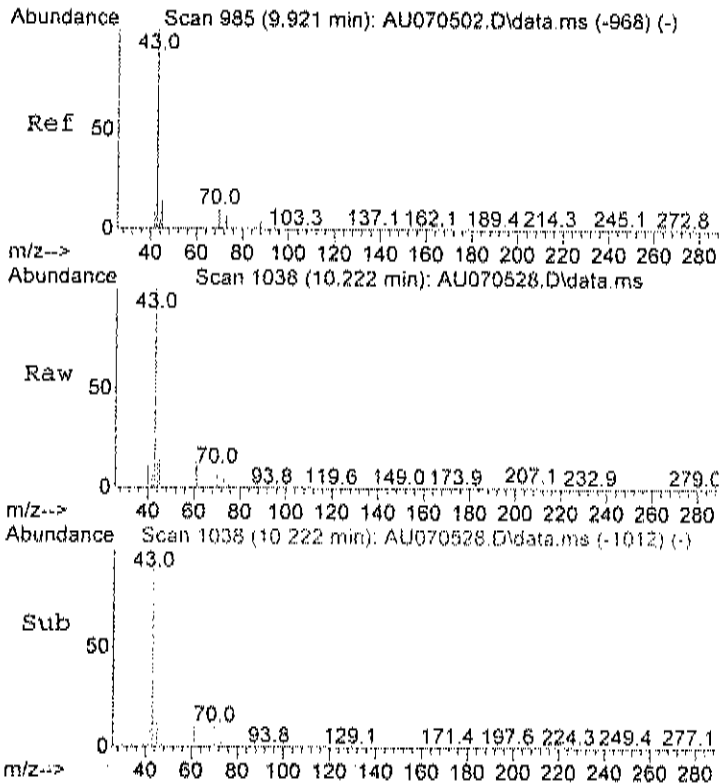
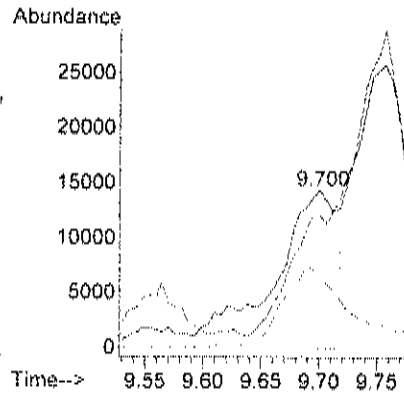
Tgt Ion	Ratio	Lower	Upper
72	100		
43	518.1	389.0	429.0#
72	131.6	80.0	120.0#





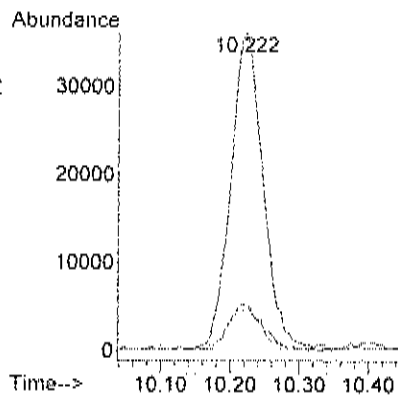
#30
Hexane
Concen: 0.30 ppb m
RT: 9.700 min Scan# 946
Delta R.T. 0.006 min
Lab File: AU070528.D
Acq: 6 Jul 2023 2:50 am

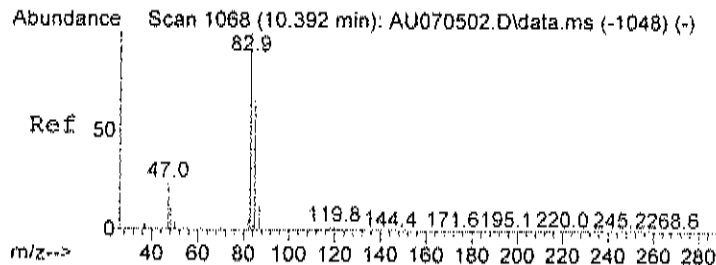
Tgt Ion: 57 Resp: 54064
Ion Ratio Lower Upper
57 100
41 217.7 37.3 77.3#
56 0.0 24.8 64.8#



#31
Ethyl acetate
Concen: 0.47 ppb
RT: 10.222 min Scan# 1038
Delta R.T. 0.000 min
Lab File: AU070528.D
Acq: 6 Jul 2023 2:50 am

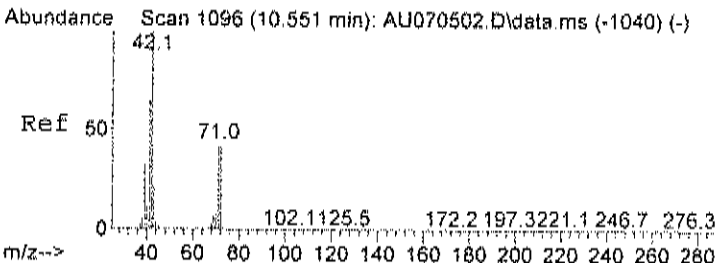
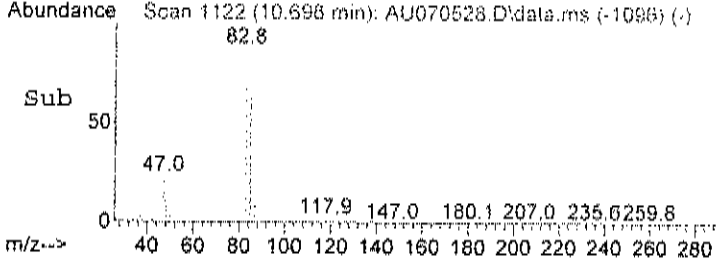
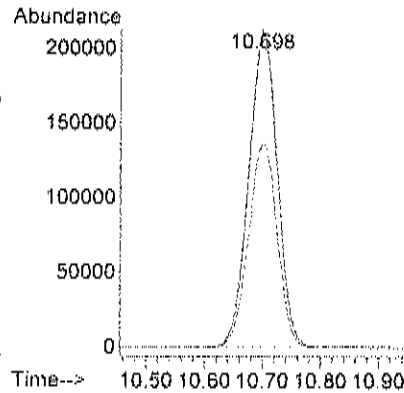
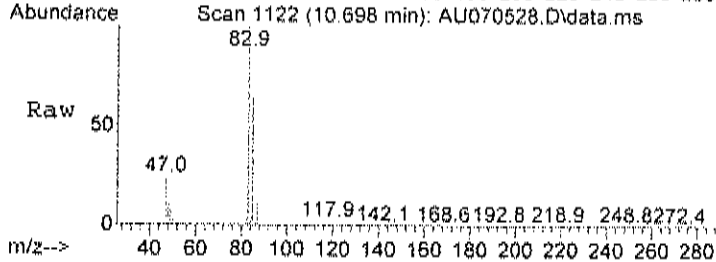
Tgt Ion: 43 Resp: 117446
Ion Ratio Lower Upper
43 100
45 15.4 0.0 35.3
61 14.2 0.0 37.0





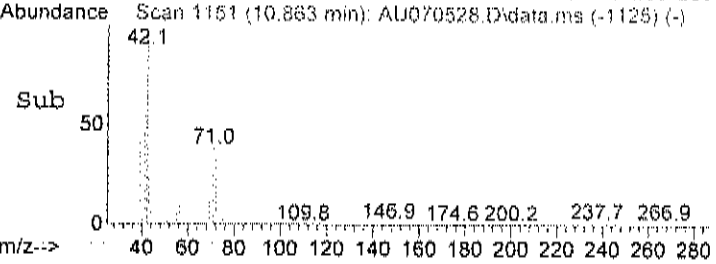
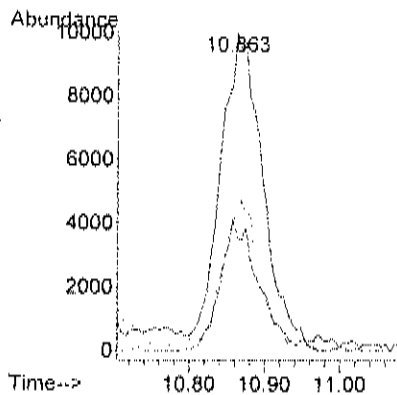
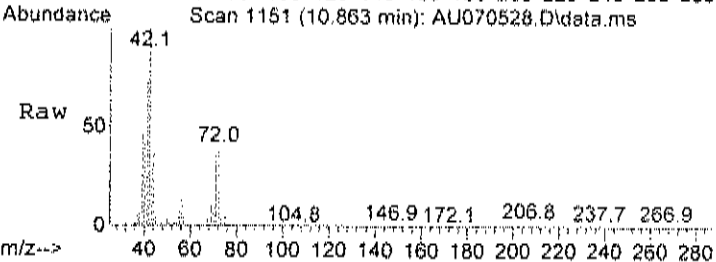
#32
Chloroform
Concen: 3.66 ppb
RT: 10.698 min Scan# 1122
Delta R.T. 0.000 min
Lab File: AU070528.D
Acq: 6 Jul 2023 2:50 am

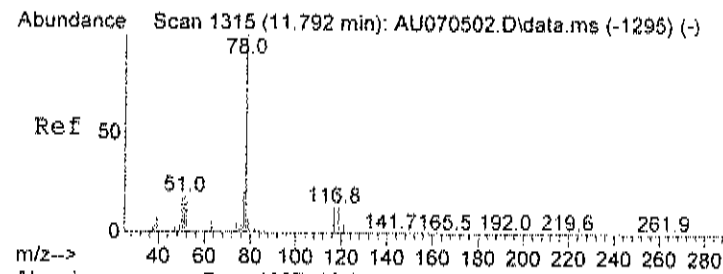
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	44.6	84.6



#33
Tetrahydrofuran
Concen: 0.30 ppb
RT: 10.863 min Scan# 1151
Delta R.T. 0.000 min
Lab File: AU070528.D
Acq: 6 Jul 2023 2:50 am

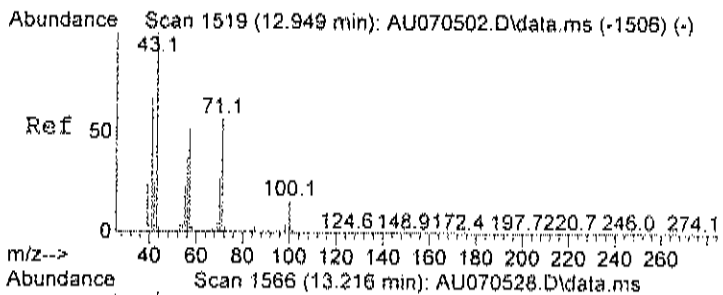
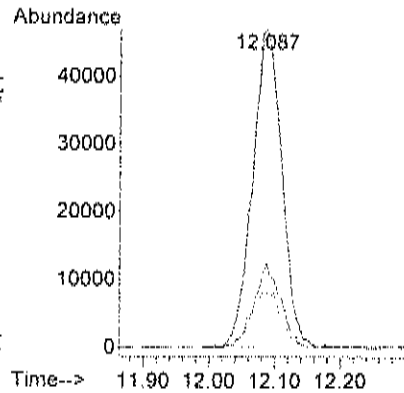
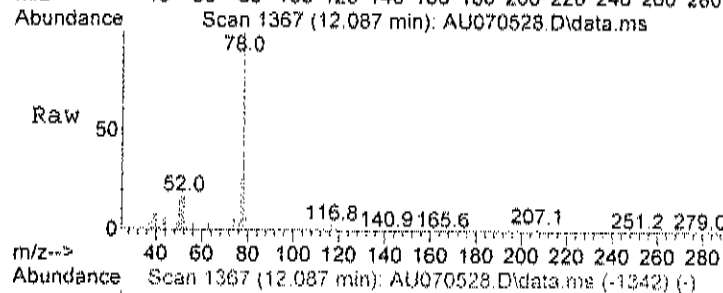
Tgt Ion	Ratio	Lower	Upper
42	100		
71	40.4	27.1	67.1
72	45.7	30.8	70.8





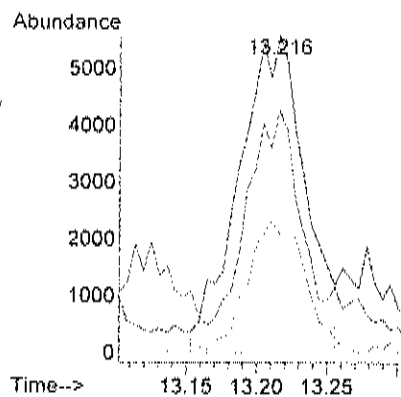
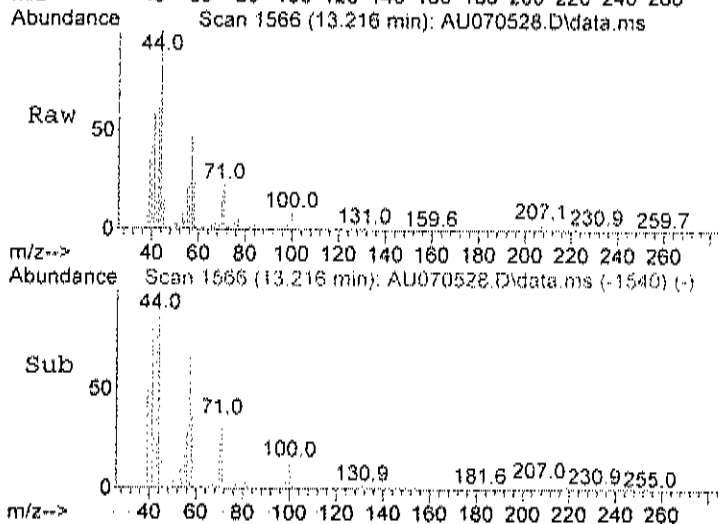
#39
Benzene
Concen: 0.58 ppb
RT: 12.087 min Scan# 1367
Delta R.T. -0.006 min
Lab File: AU070528.D
Acq: 6 Jul 2023 2:50 am

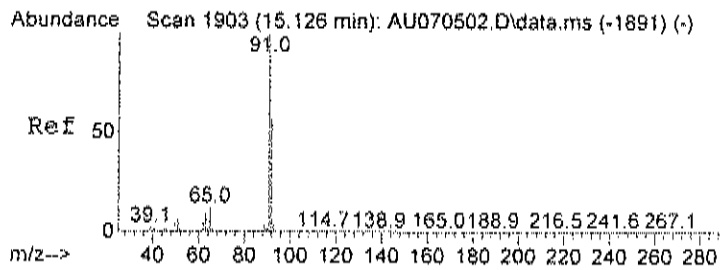
Tgt Ion	78	Ratio	100	Lower	Upper
78	100				
77	24.4		3.8	43.8	
51	18.3		0.0	35.4	



#43
Heptane
Concen: 0.11 ppb m
RT: 13.216 min Scan# 1566
Delta R.T. 0.000 min
Lab File: AU070528.D
Acq: 6 Jul 2023 2:50 am

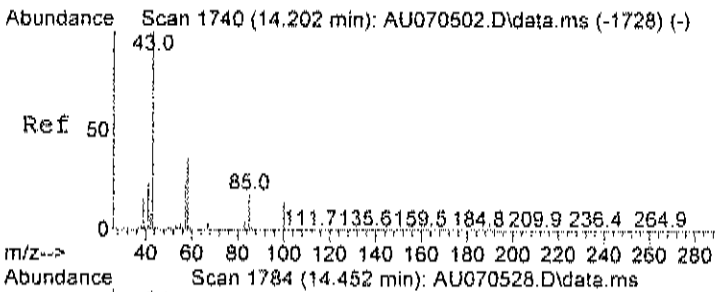
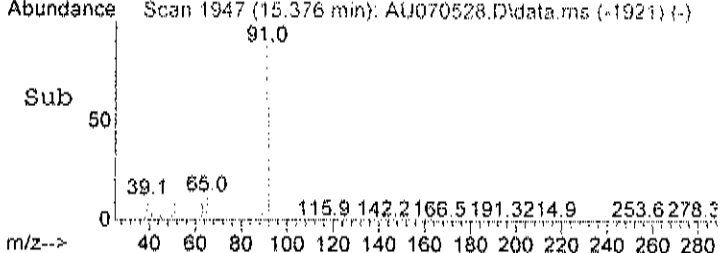
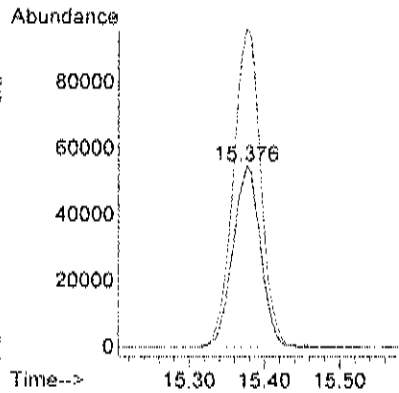
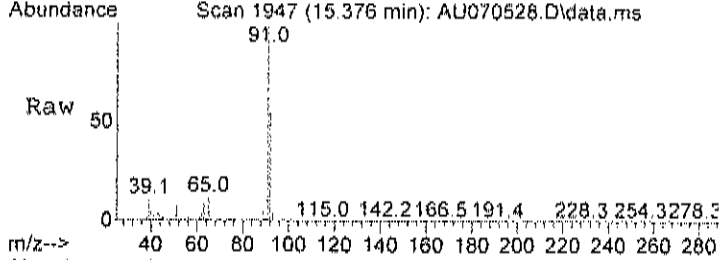
Tgt Ion	43	Ratio	100	Lower	Upper
43	100				
57	72.9		40.9	80.9	
71	36.8		51.1	91.1#	





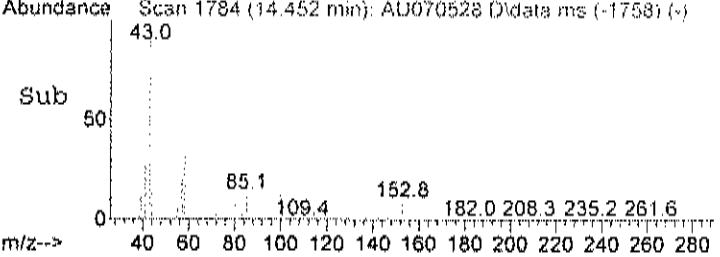
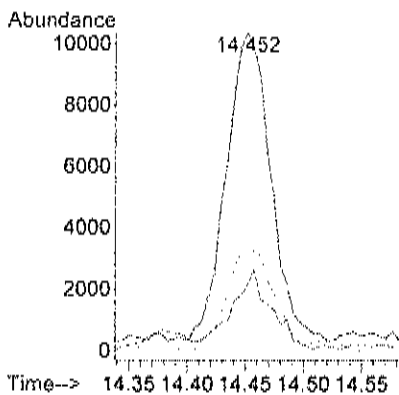
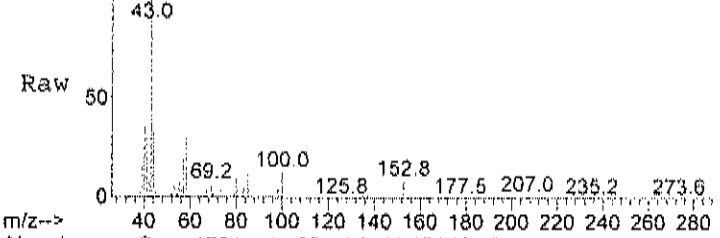
#51
Toluene
Concen: 0.74 ppb
RT: 15.376 min Scan# 1947
Delta R.T. 0.000 min
Lab File: AU070528.D
Acq: 6 Jul 2023 2:50 am

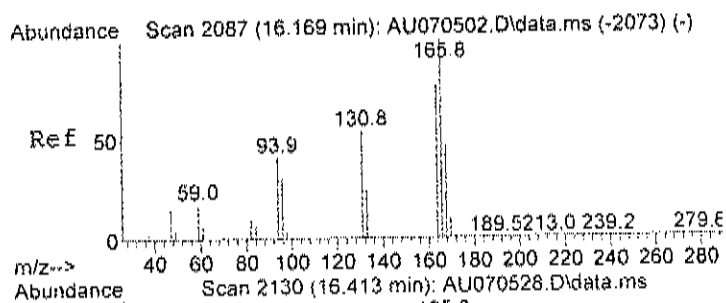
Tgt Ion	Ratio	Lower	Upper
92	100		
91	174.9	150.4	190.4



#52
Methyl Isobutyl Ketone
Concen: 0.10 ppb
RT: 14.452 min Scan# 1784
Delta R.T. 0.000 min
Lab File: AU070528.D
Acq: 6 Jul 2023 2:50 am

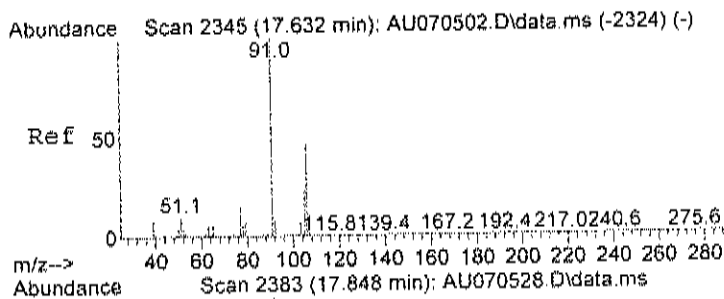
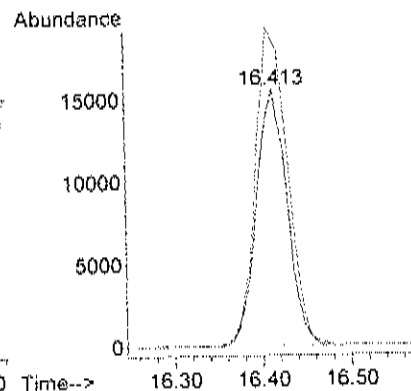
Tgt Ion	Ratio	Lower	Upper
43	100		
57	23.0	7.9	47.9
58	36.8	24.7	64.7





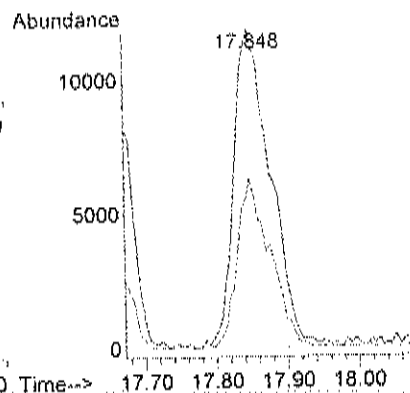
#56
Tetrachloroethylene
Concen: 0.35 ppb
RT: 16.413 min Scan# 2130
Delta R.T. 0.000 min
Lab File: AU070528.D
Acq: 6 Jul 2023 2:50 am

Tgt Ion: 164 Resp: 37705
Ion Ratio Lower Upper
164 100
166 128.8 107.9 147.9



#59
m&p-xylene
Concen: 0.13 ppb
RT: 17.848 min Scan# 2383
Delta R.T. -0.017 min
Lab File: AU070528.D
Acq: 6 Jul 2023 2:50 am

Tgt Ion: 91 Resp: 42506
Ion Ratio Lower Upper
91 100
106 47.5 32.1 72.1



Data Path : C:\msdchem\1\data\
Data File : AU070630.D
Acq On : 7 Jul 2023 2:45 am
Operator : RJP
Sample : C2307002-011A 10X
Misc : A629_1UG
ALS Vial : 26 Sample Multiplier: 1

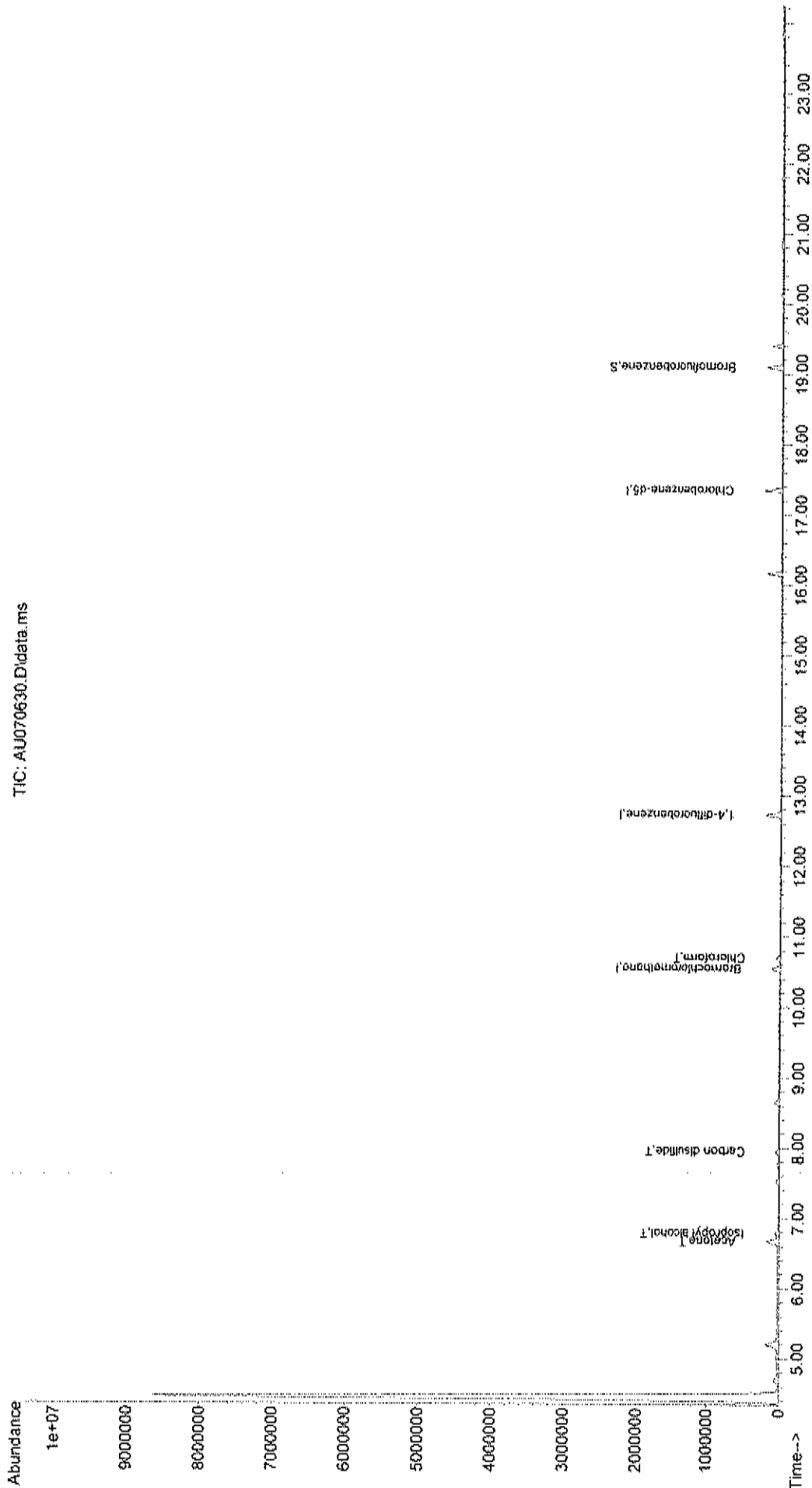
Quant Time: Jul 07 05:03:46 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

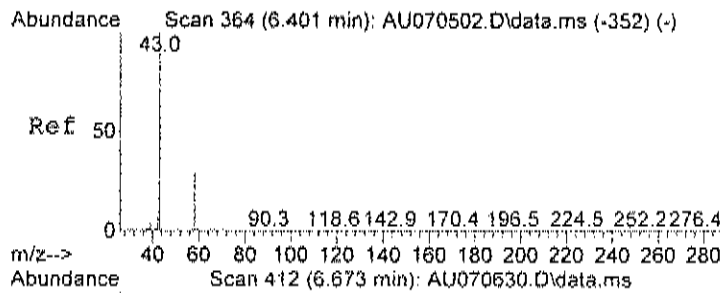
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.545	128	52921	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	243852	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	193989	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	107859	0.74	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	74.00%
Target Compounds						
15) Acetone	6.673	58	114676m	1.84	ppb	Qvalue
17) Isopropyl alcohol	6.781	45	71041	0.44	ppb	# 1
23) Carbon disulfide	7.948	76	96027	0.34	ppb	99
32) Chloroform	10.698	83	62826	0.36	ppb	99

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

Data Path : C:\msdchem\1\data\
 Data File : AU070630.D
 Acq On : 7 Jul 2023 2:45 am
 Operator : RJP
 Sample : C2307002-011A 10X
 Misc : A629_1UG
 ALS Vial : 26 Sample Multiplier: 1

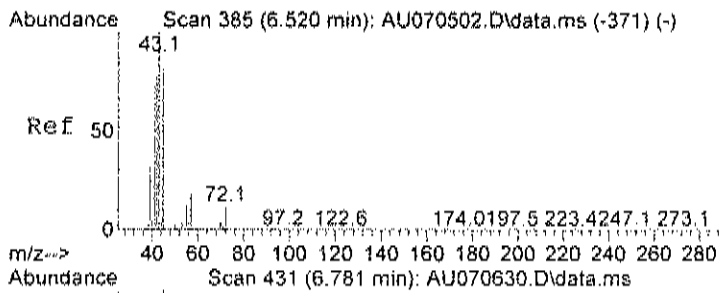
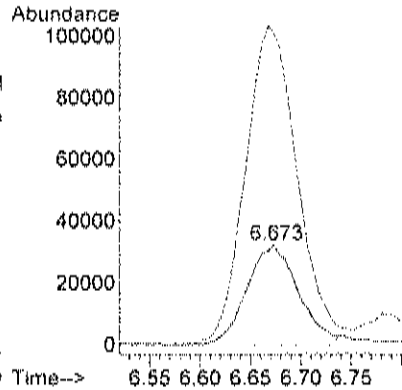
Quant Time: Jul 07 05:03:46 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





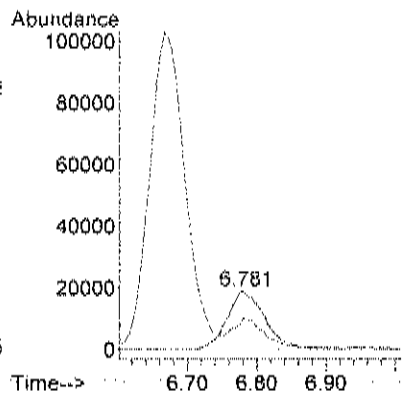
#15
Acetone
Concen: 1.84 ppb m
RT: 6.673 min Scan# 412
Delta R.T. 0.006 min
Lab File: AU070630.D
Acq: 7 Jul 2023 2:45 am

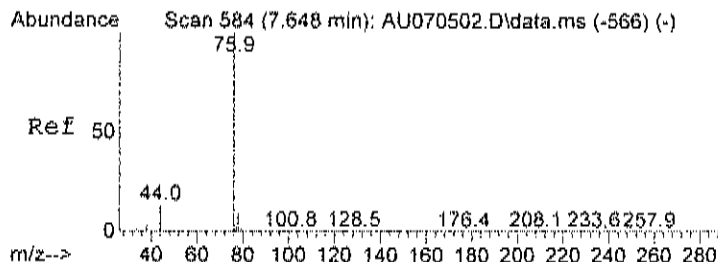
Tgt Ion: 58 Resp: 114676
Ion Ratio Lower Upper
58 100
43 339.8 224.5 284.5#



#17
Isopropyl alcohol
Concen: 0.44 ppb
RT: 6.781 min Scan# 431
Delta R.T. -0.006 min
Lab File: AU070630.D
Acq: 7 Jul 2023 2:45 am

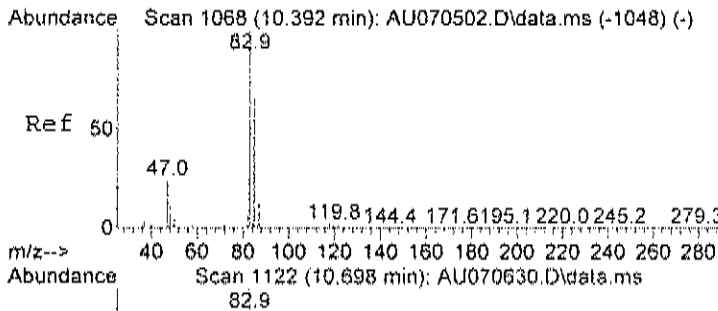
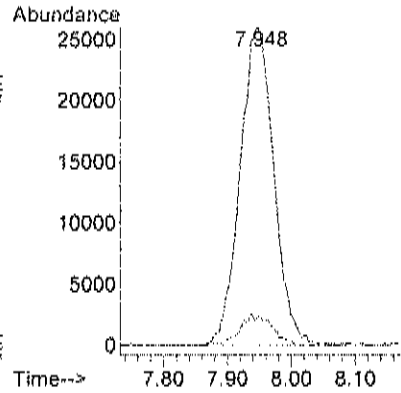
Tgt Ion: 45 Resp: 71041
Ion Ratio Lower Upper
45 100
43 0.0 110.3 150.3#





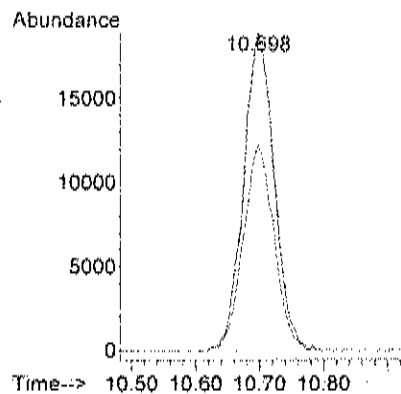
#23
Carbon disulfide
Concen: 0.34 ppb
RT: 7.948 min Scan# 637
Delta R.T. 0.000 min
Lab File: AU070630.D
Acq: 7 Jul 2023 2:45 am

Tgt Ion:	76	Resp:	96027
Ion	Ratio	Lower	Upper
76	100		
78	9.7	0.0	29.3



#32
Chloroform
Concen: 0.36 ppb
RT: 10.698 min Scan# 1122
Delta R.T. 0.000 min
Lab File: AU070630.D
Acq: 7 Jul 2023 2:45 am

Tgt Ion:	83	Resp:	62826
Ion	Ratio	Lower	Upper
83	100		
85	65.4	44.6	84.6



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-11

Lab Order: C2307002

Tag Number: 1190,381

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-012A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST						
			GC			Analyst: RJP
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	0.64	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	7/6/2023 3:34:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,4-Dichlorobenzene	0.23	0.15		ppbV	1	7/6/2023 3:34:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 3:34:00 AM
2,2,4-trimethylpentane	0.18	0.15		ppbV	1	7/6/2023 3:34:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Acetone	17	3.0		ppbV	10	7/7/2023 3:28:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Benzene	1.3	0.15		ppbV	1	7/6/2023 3:34:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Carbon disulfide	0.35	0.15		ppbV	1	7/6/2023 3:34:00 AM
Carbon tetrachloride	0.19	0.15		ppbV	1	7/6/2023 3:34:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Chloroethane	0.12	0.15	J	ppbV	1	7/6/2023 3:34:00 AM
Chloroform	1.5	0.15		ppbV	1	7/6/2023 3:34:00 AM
Chloromethane	0.34	0.15		ppbV	1	7/6/2023 3:34:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Cyclohexane	0.37	0.15		ppbV	1	7/6/2023 3:34:00 AM

Qualifiers:

- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 23 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-11

Lab Order: C2307002

Tag Number: 1190,381

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-012A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Ethyl acetate	0.34	0.15		ppbV	1	7/6/2023 3:34:00 AM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Freon 11	2.9	1.5		ppbV	10	7/7/2023 3:28:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Freon 12	0.55	0.15		ppbV	1	7/6/2023 3:34:00 AM
Heptane	0.14	0.15	J	ppbV	1	7/6/2023 3:34:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Hexane	0.77	0.15		ppbV	1	7/6/2023 3:34:00 AM
Isopropyl alcohol	5.1	1.5		ppbV	10	7/7/2023 3:28:00 AM
m&p-Xylene	0.25	0.30	J	ppbV	1	7/6/2023 3:34:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 3:34:00 AM
Methyl Ethyl Ketone	0.97	0.30		ppbV	1	7/6/2023 3:34:00 AM
Methyl Isobutyl Ketone	0.29	0.30	J	ppbV	1	7/6/2023 3:34:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Methylene chloride	0.17	0.15		ppbV	1	7/6/2023 3:34:00 AM
o-Xylene	0.11	0.15	J	ppbV	1	7/6/2023 3:34:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Styrene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Tetrachloroethylene	3.3	1.5		ppbV	10	7/7/2023 3:28:00 AM
Tetrahydrofuran	0.37	0.15		ppbV	1	7/6/2023 3:34:00 AM
Toluene	1.1	0.15		ppbV	1	7/6/2023 3:34:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Trichloroethene	0.50	0.15		ppbV	1	7/6/2023 3:34:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 3:34:00 AM
Surr: Bromofluorobenzene	91.0	70-130		%REC	1	7/6/2023 3:34:00 AM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 24 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-11

Lab Order: C2307002

Tag Number: 1190,381

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-012A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	3.5	0.82		ug/m3	1	7/6/2023 3:34:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 3:34:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 3:34:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 3:34:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 3:34:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 3:34:00 AM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	7/6/2023 3:34:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 3:34:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 3:34:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 3:34:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 3:34:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 3:34:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 3:34:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 3:34:00 AM
1,4-Dichlorobenzene	1.4	0.90		ug/m3	1	7/6/2023 3:34:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 3:34:00 AM
2,2,4-trimethylpentane	0.84	0.70		ug/m3	1	7/6/2023 3:34:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 3:34:00 AM
Acetone	41	7.1		ug/m3	10	7/7/2023 3:28:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 3:34:00 AM
Benzene	4.2	0.48		ug/m3	1	7/6/2023 3:34:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 3:34:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 3:34:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 3:34:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 3:34:00 AM
Carbon disulfide	1.1	0.47		ug/m3	1	7/6/2023 3:34:00 AM
Carbon tetrachloride	1.2	0.94		ug/m3	1	7/6/2023 3:34:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 3:34:00 AM
Chloroethane	0.32	0.40	J	ug/m3	1	7/6/2023 3:34:00 AM
Chloroform	7.2	0.73		ug/m3	1	7/6/2023 3:34:00 AM
Chloromethane	0.70	0.31		ug/m3	1	7/6/2023 3:34:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 3:34:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 3:34:00 AM
Cyclohexane	1.3	0.52		ug/m3	1	7/6/2023 3:34:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 3:34:00 AM
Ethyl acetate	1.2	0.54		ug/m3	1	7/6/2023 3:34:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/6/2023 3:34:00 AM
Freon 11	16	8.4		ug/m3	10	7/7/2023 3:28:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 3:34:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 3:34:00 AM

Qualifiers: Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank.
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 23 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-11

Lab Order: C2307002

Tag Number: 1190,381

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-012A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.7	0.74		ug/m3	1	7/6/2023 3:34:00 AM
Heptane	0.57	0.61	J	ug/m3	1	7/6/2023 3:34:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 3:34:00 AM
Hexane	2.7	0.53		ug/m3	1	7/6/2023 3:34:00 AM
Isopropyl alcohol	13	3.7		ug/m3	10	7/7/2023 3:28:00 AM
m&p-Xylene	1.1	1.3	J	ug/m3	1	7/6/2023 3:34:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 3:34:00 AM
Methyl Ethyl Ketone	2.9	0.88		ug/m3	1	7/6/2023 3:34:00 AM
Methyl Isobutyl Ketone	1.2	1.2	J	ug/m3	1	7/6/2023 3:34:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 3:34:00 AM
Methylene chloride	0.59	0.52		ug/m3	1	7/6/2023 3:34:00 AM
o-Xylene	0.48	0.65	J	ug/m3	1	7/6/2023 3:34:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 3:34:00 AM
Styrene	< 0.64	0.64		ug/m3	1	7/6/2023 3:34:00 AM
Tetrachloroethylene	22	10		ug/m3	10	7/7/2023 3:28:00 AM
Tetrahydrofuran	1.1	0.44		ug/m3	1	7/6/2023 3:34:00 AM
Toluene	4.2	0.57		ug/m3	1	7/6/2023 3:34:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 3:34:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 3:34:00 AM
Trichloroethene	2.7	0.81		ug/m3	1	7/6/2023 3:34:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 3:34:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 3:34:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 3:34:00 AM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 24 of 40

Data Path : C:\msdchem\1\data\
 Data File : AU070529.D
 Acq On : 6 Jul 2023 3:34 am
 Operator : RJP
 Sample : C2307002-012A
 Misc : A629_1UG
 ALS Vial : 17 Sample Multiplier: 1

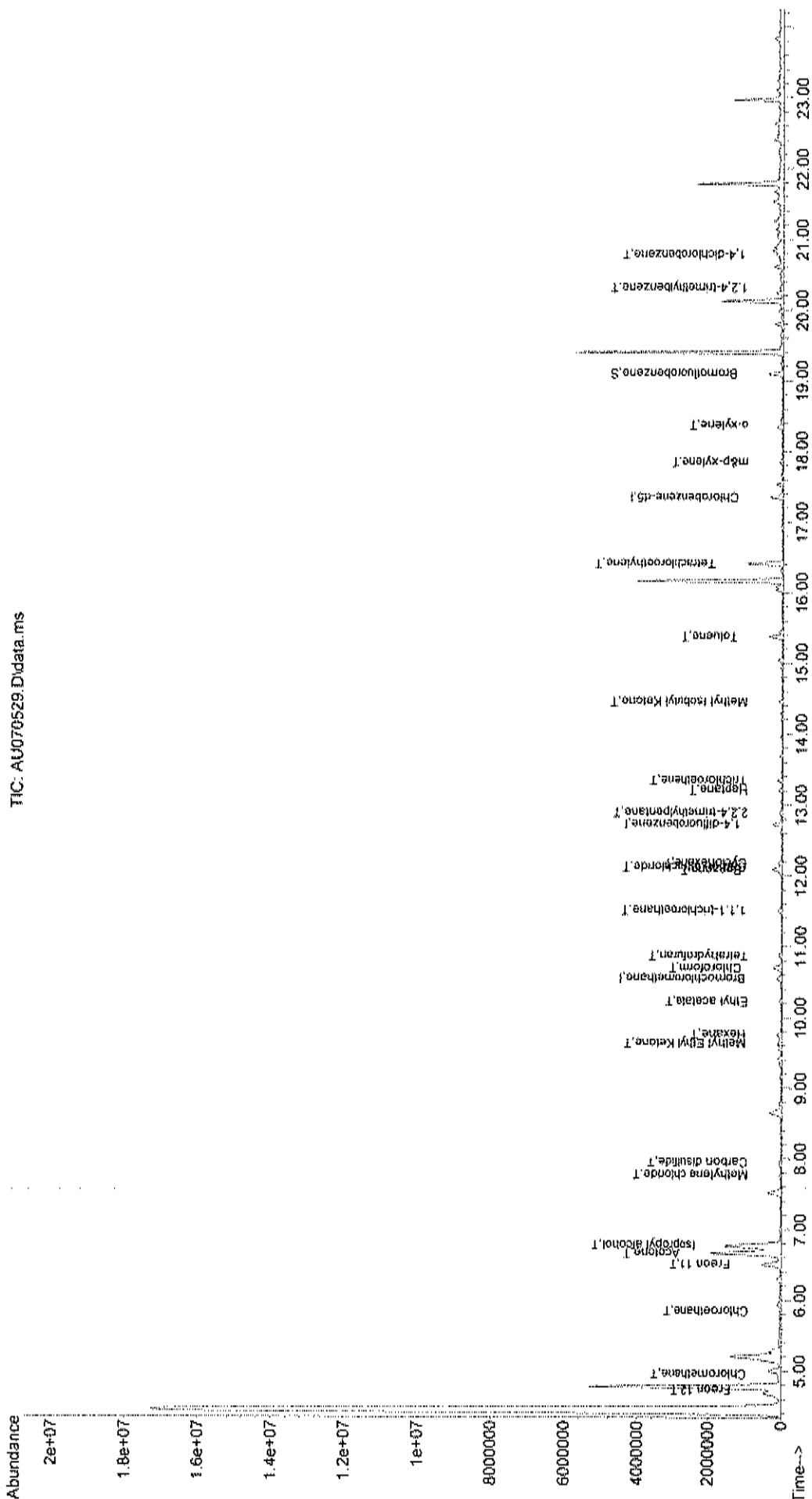
Quant Time: Jul 06 07:55:47 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

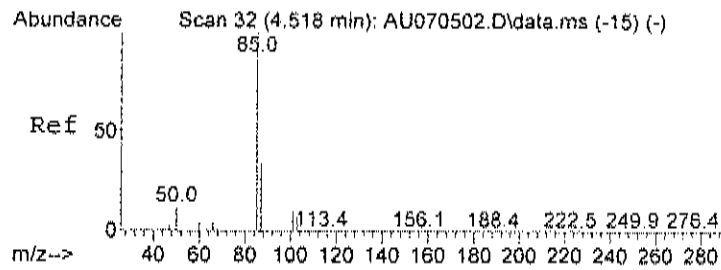
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.551	128	65954	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.728	114	309513	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	274917	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.096	95	188202	0.91	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	91.00%
Target Compounds						
						Qvalue
3) Freon 12	4.734	85	150236	0.55	ppb	99
4) Chloromethane	4.955	50	29203	0.34	ppb	89
10) Chloroethane	5.845	64	5386	0.12	ppb	96
14) Freon 11	6.508	101	788619	2.90	ppb	98
15) Acetone	6.661	58	1452451	18.65	ppb	# 69
17) Isopropyl alcohol	6.775	45	1099134	5.45	ppb	# 12
21) Methylene chloride	7.773	84	28206	0.17	ppb	90
23) Carbon disulfide	7.948	76	121221	0.35	ppb	96
28) Methyl Ethyl Ketone	9.632	72	60028m	0.97	ppb	
30) Hexane	9.763	57	150560m	0.77	ppb	
31) Ethyl acetate	10.222	43	94252	0.34	ppb	97
32) Chloroform	10.698	83	321743	1.48	ppb	98
33) Tetrahydrofuran	10.868	42	48313	0.37	ppb	76
36) 1,1,1-trichloroethane	11.509	97	116261	0.64	ppb	99
37) Cyclohexane	12.178	56	52718m	0.37	ppb	
38) Carbon tetrachloride	12.121	117	34414	0.19	ppb	94
39) Benzene	12.082	78	346239	1.32	ppb	97
42) 2,2,4-trimethylpentane	12.892	57	82494	0.18	ppb	# 65
43) Heptane	13.210	43	24334m	0.14	ppb	
44) Trichloroethene	13.346	130	57599	0.50	ppb	94
51) Toluene	15.376	92	216452	1.12	ppb	96
52) Methyl Isobutyl Ketone	14.452	43	78191	0.29	ppb	86
56) Tetrachloroethylene	16.413	164	326161	2.98	ppb	98
59) m&p-xylene	17.848	91	82441	0.25	ppb	95
63) o-xylene	18.369	91	37660	0.11	ppb	93
71) 1,2,4-trimethylbenzene	20.308	105	40381	0.11	ppb	100
74) 1,4-dichlorobenzene	20.779	146	42459m	0.23	ppb	

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

Data Path : C:\msdchem\1\data\
Data File : AU070529.D
Acq On : 6 Jul 2023 3:34 am
Operator : RJP
Sample : C2307002-012A
Misc : A629_1UG
ALS Vial : 17 Sample Multiplier: 1

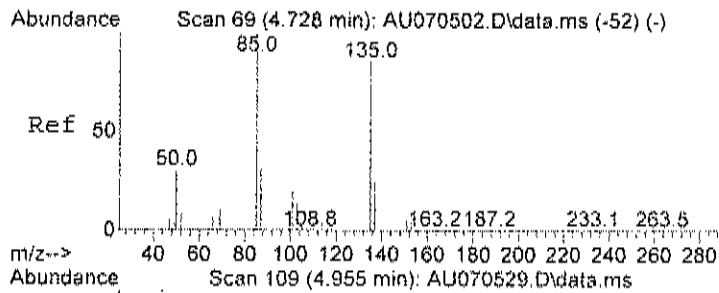
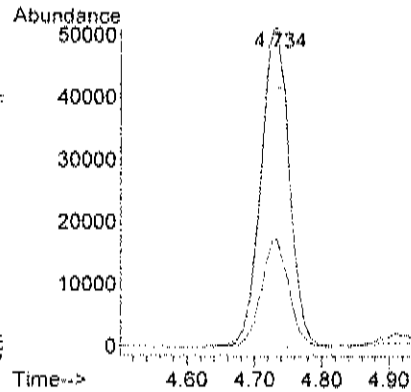
Quant Time: Jul 06 07:55:47 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
Qlast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration





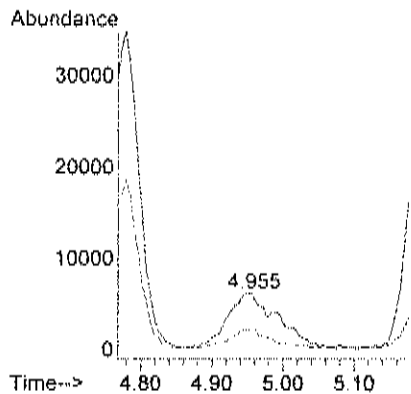
#3
Freon 12
Concen: 0.55 ppb
RT: 4.734 min Scan# 70
Delta R.T. -0.000 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

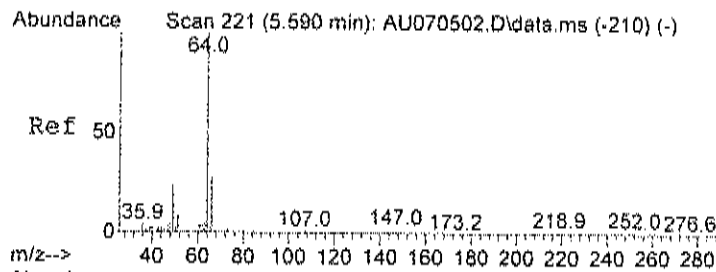
Tgt Ion: 85 Resp: 150236
Ion Ratio Lower Upper
85 100
87 32.7 13.4 53.4



#4
Chloromethane
Concen: 0.34 ppb
RT: 4.955 min Scan# 109
Delta R.T. -0.000 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

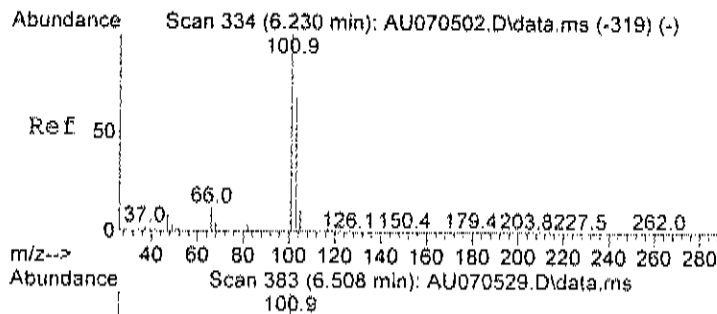
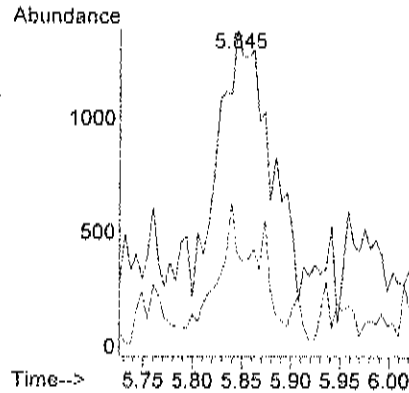
Tgt Ion: 50 Resp: 29203
Ion Ratio Lower Upper
50 100
52 32.7 6.9 46.9





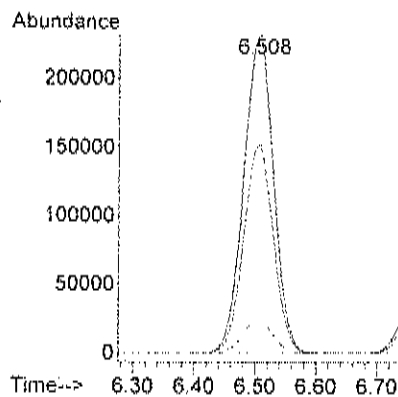
#10
Chloroethane
Concen: 0.12 ppb
RT: 5.845 min Scan# 266
Delta R.T. -0.006 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

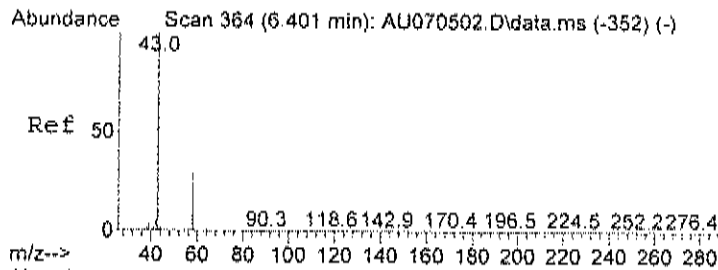
Tgt Ion:	64	Resp:	5386
Ion Ratio	Lower	Upper	
64	100		
66	33.0	28.2	42.2



#14
Freon 11
Concen: 2.90 ppb
RT: 6.508 min Scan# 383
Delta R.T. 0.006 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

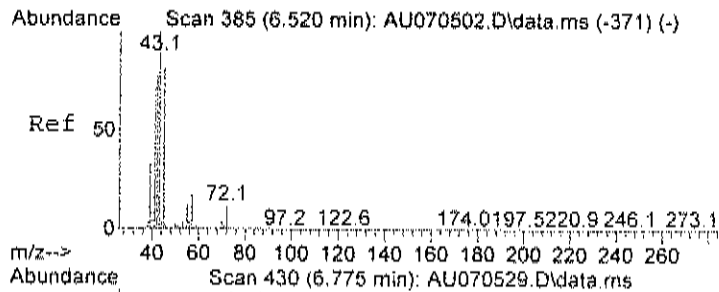
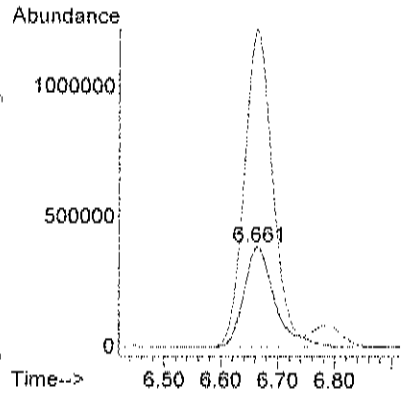
Tgt Ion:	101	Resp:	788619
Ion Ratio	Lower	Upper	
101	100		
103	65.7	44.0	84.0
105	10.3	0.0	31.4





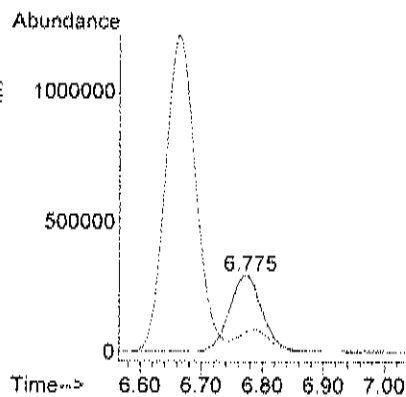
#15
Acetone
Concen: 18.65 ppb
RT: 6.661 min Scan# 410
Delta R.T. -0.006 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

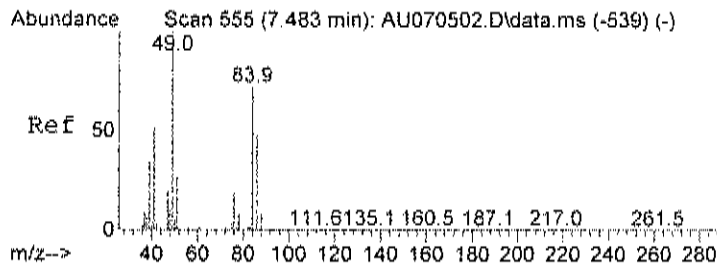
Tgt Ion: 58 Resp: 1452451
Ion Ratio Lower Upper
58 100
43 309.9 224.5 284.5#



#17
Isopropyl alcohol
Concen: 5.45 ppb
RT: 6.775 min Scan# 430
Delta R.T. -0.011 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

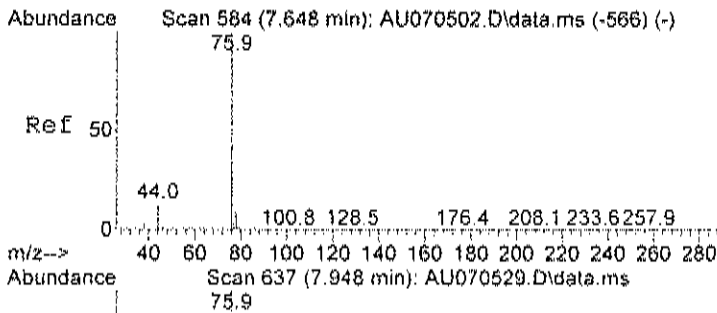
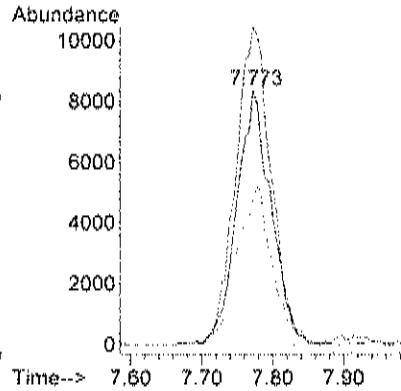
Tgt Ion: 45 Resp: 1099134
Ion Ratio Lower Upper
45 100
43 27.4 110.3 150.3#





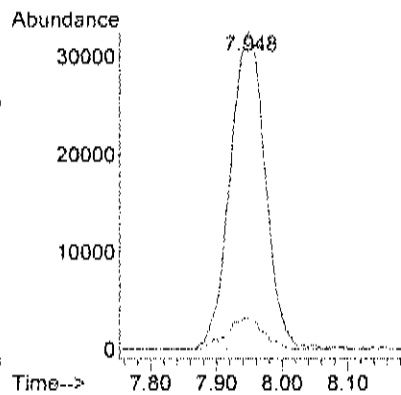
#21
Methylene chloride
Concen: 0.17 ppb
RT: 7.773 min Scan# 606
Delta R.T. -0.000 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

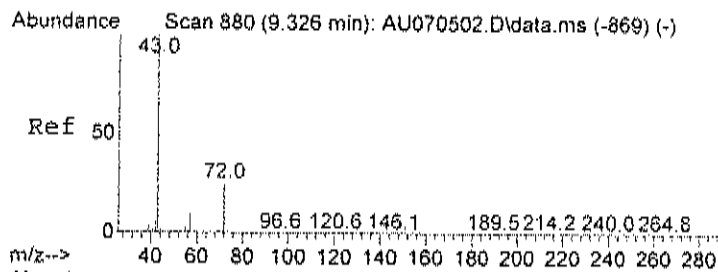
Tgt Ion:	84	Resp:	28206
Ion	Ratio	Lower	Upper
84	100		
49	129.8	93.0	133.0
86	63.5	43.7	83.7



#23
Carbon disulfide
Concen: 0.35 ppb
RT: 7.948 min Scan# 637
Delta R.T. -0.000 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

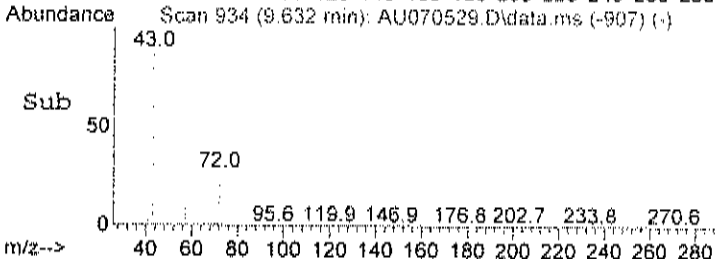
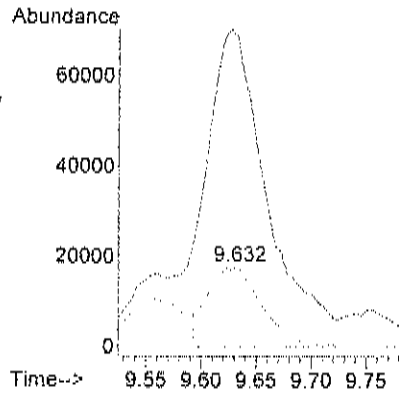
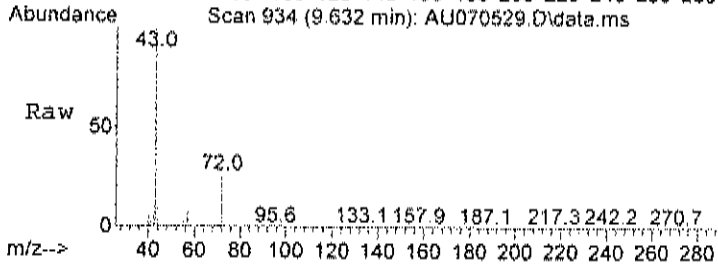
Tgt Ion:	76	Resp:	121221
Ion	Ratio	Lower	Upper
76	100		
78	10.9	0.0	29.3





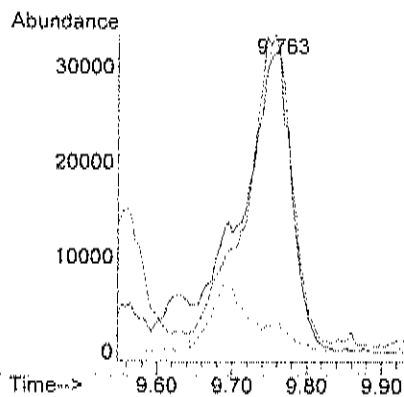
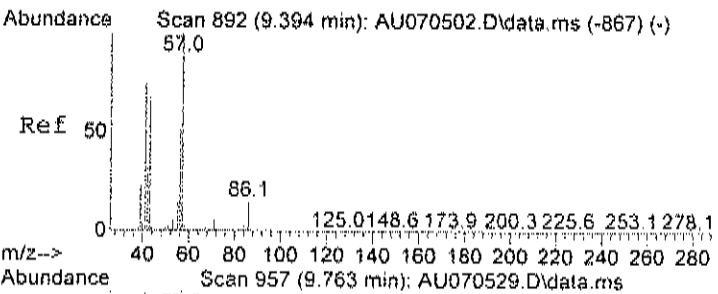
#28
Methyl Ethyl Ketone
Concen: 0.97 ppb m
RT: 9.632 min Scan# 934
Delta R.T. 0.006 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

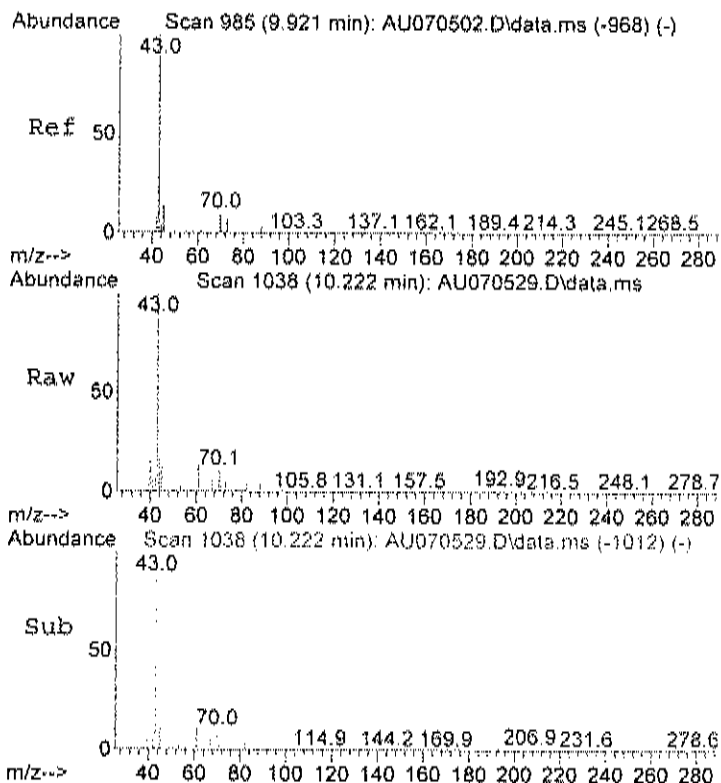
Tgt Ion	Ratio	Lower	Upper
72	100		
43	0.0	389.0	429.0#
72	158.0	80.0	120.0#



#30
Hexane
Concen: 0.77 ppb m
RT: 9.763 min Scan# 957
Delta R.T. 0.068 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

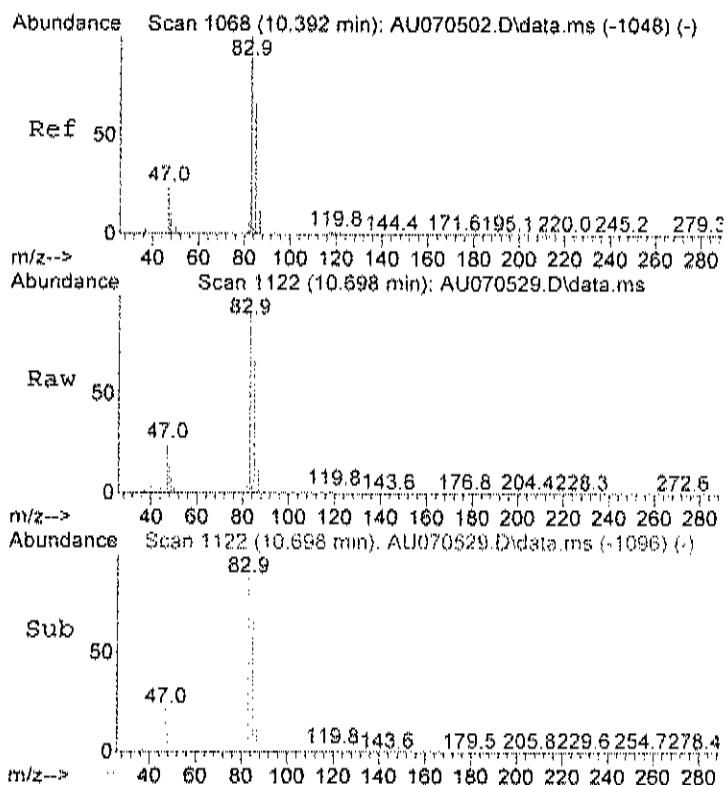
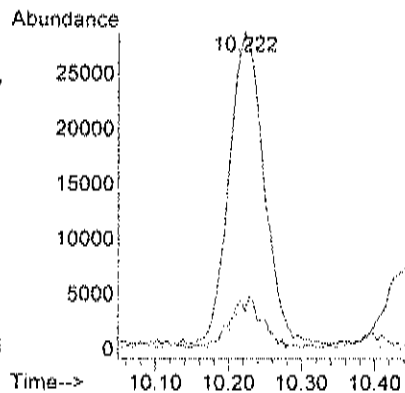
Tgt Ion	Ratio	Lower	Upper
57	100		
41	91.6	37.3	77.3#
56	0.0	24.8	64.8#





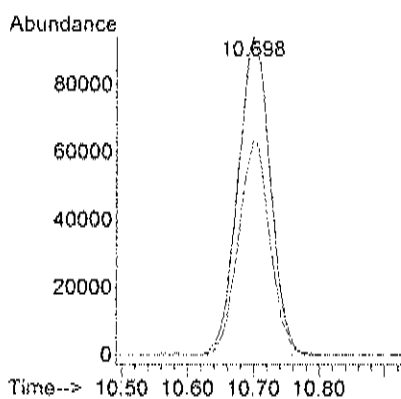
#31
Ethyl acetate
Concen: 0.34 ppb
RT: 10.222 min Scan# 1038
Delta R.T. -0.000 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

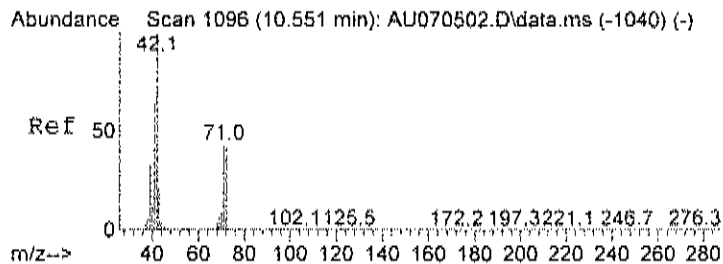
Tgt Ion	43	Resp	94252
Ion	Ratio	Lower	Upper
43	100		
45	15.1	0.0	35.3
61	14.5	0.0	37.0



#32
Chloroform
Concen: 1.48 ppb
RT: 10.698 min Scan# 1122
Delta R.T. -0.000 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

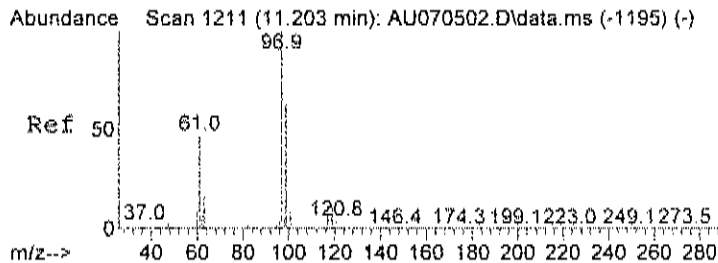
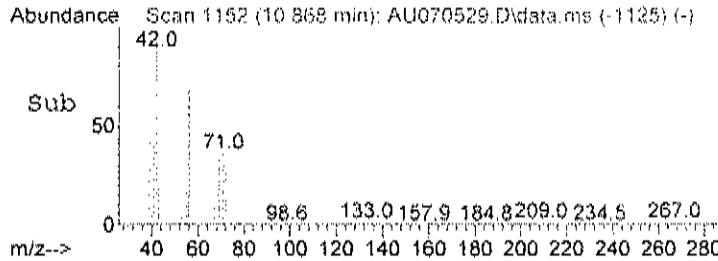
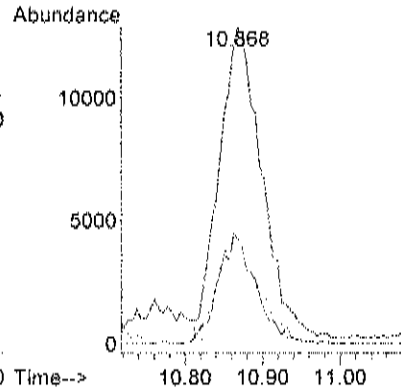
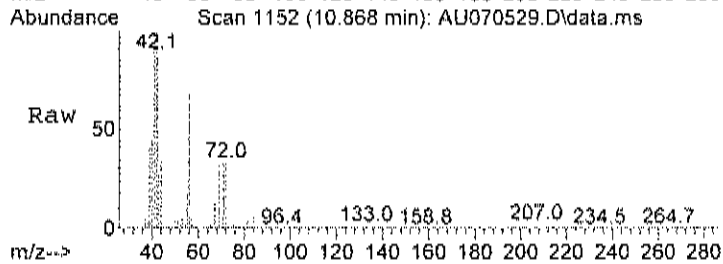
Tgt Ion	83	Resp	321743
Ion	Ratio	Lower	Upper
83	100		
85	66.1	44.6	84.6





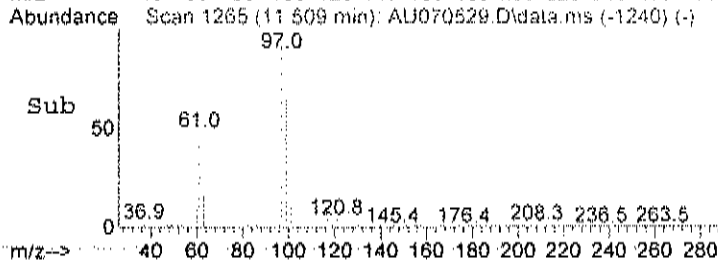
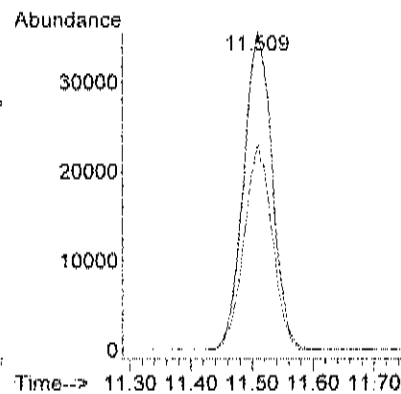
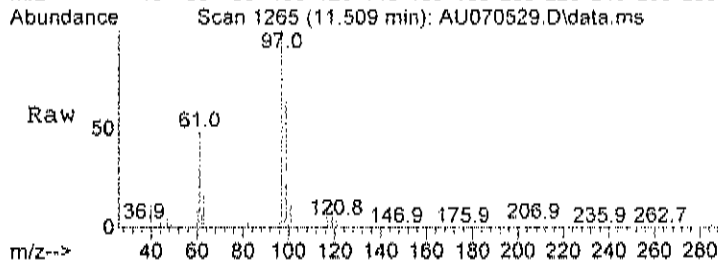
#33
Tetrahydrofuran
Concen: 0.37 ppb
RT: 10.868 min Scan# 1152
Delta R.T. 0.006 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

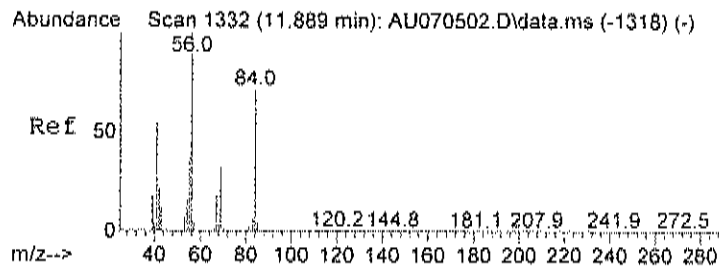
Tgt Ion	42	71	72
Ratio	100	31.9	33.2
Resp	48313	27.1	30.8
Lower			
Upper		67.1	70.8



#36
1,1,1-trichloroethane
Concen: 0.64 ppb
RT: 11.509 min Scan# 1265
Delta R.T. -0.006 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

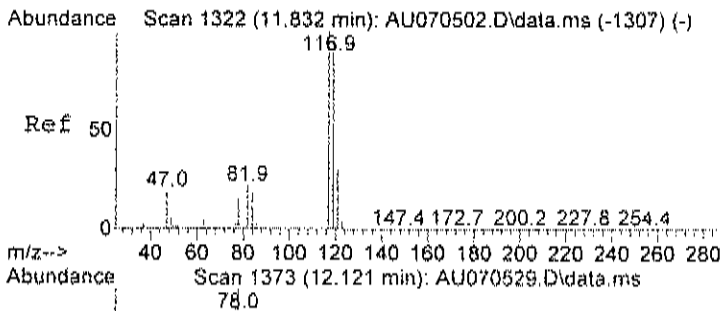
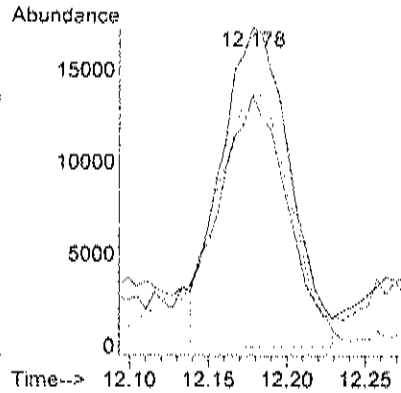
Tgt Ion	97	99
Ratio <td>100</td> <td>63.7</td>	100	63.7
Resp <td>116261</td> <td>44.8</td>	116261	44.8
Lower <td></td> <td></td>		
Upper <td></td> <td>84.8</td>		84.8





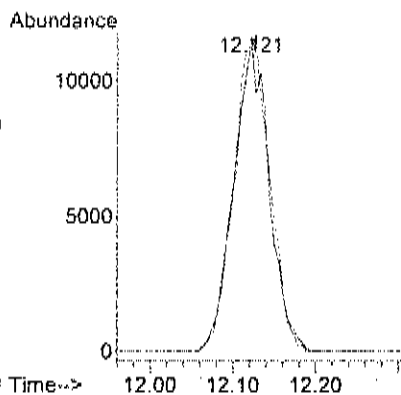
#37
Cyclohexane
Concen: 0.37 ppb m
RT: 12.178 min Scan# 1383
Delta R.T. -0.000 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

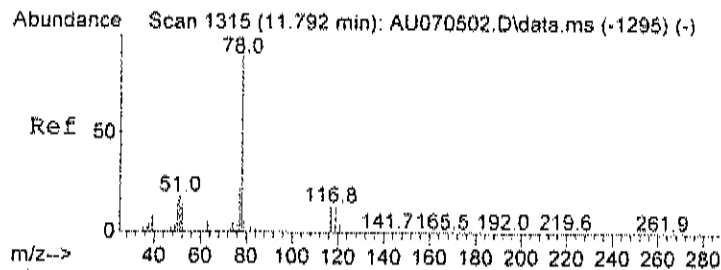
Tgt Ion	56	Resp	52718
Ion	Ratio	Lower	Upper
56	100		
41	81.2	28.1	68.1#
84	96.8	85.3	125.3



#38
Carbon tetrachloride
Concen: 0.19 ppb
RT: 12.121 min Scan# 1373
Delta R.T. -0.006 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

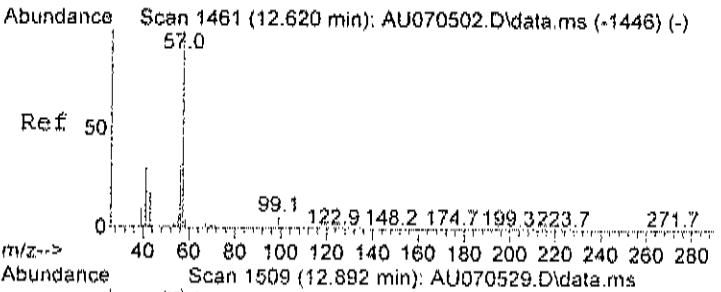
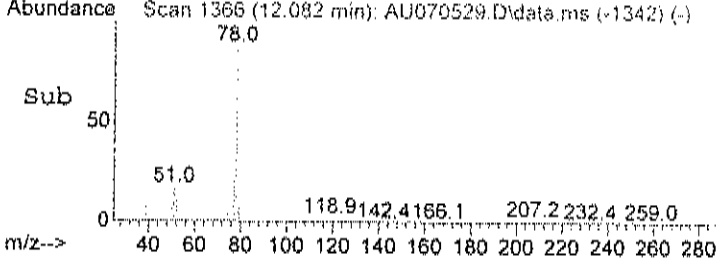
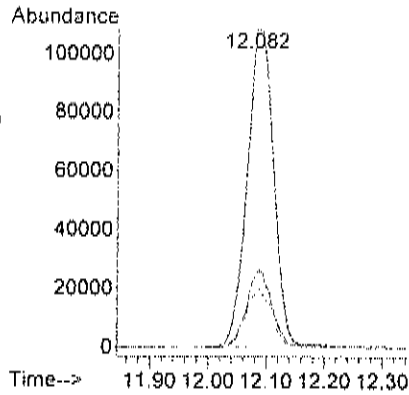
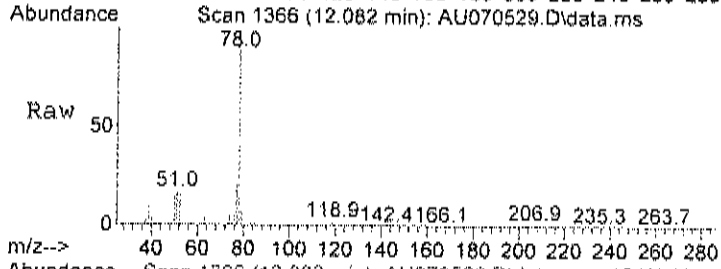
Tgt Ion	117	Resp	34414
Ion	Ratio	Lower	Upper
117	100		
119	102.9	76.7	116.7





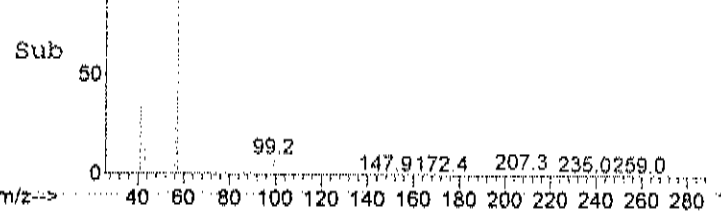
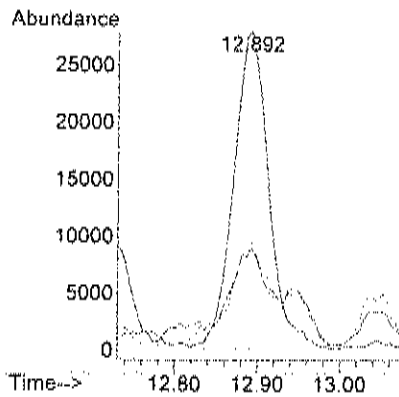
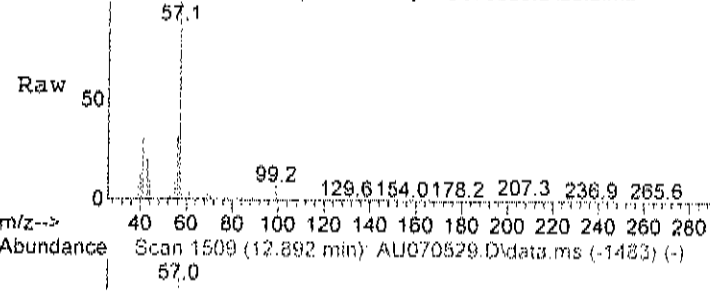
#39
Benzene
Concen: 1.32 ppb
RT: 12.082 min Scan# 1366
Delta R.T. -0.011 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

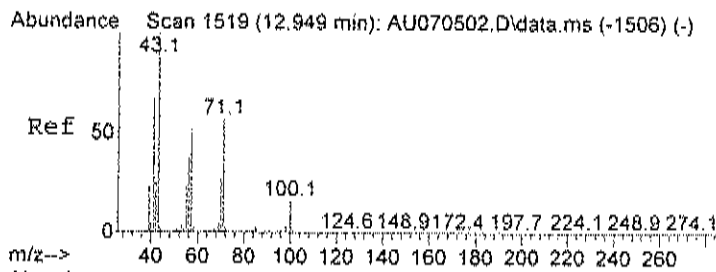
Tgt Ion:	78	Resp:	346239
Ion Ratio	Lower	Upper	
78	100		
77	24.1	3.8	43.8
51	18.3	0.0	35.4



#42
2,2,4-trimethylpentane
Concen: 0.18 ppb
RT: 12.892 min Scan# 1509
Delta R.T. ~0.000 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

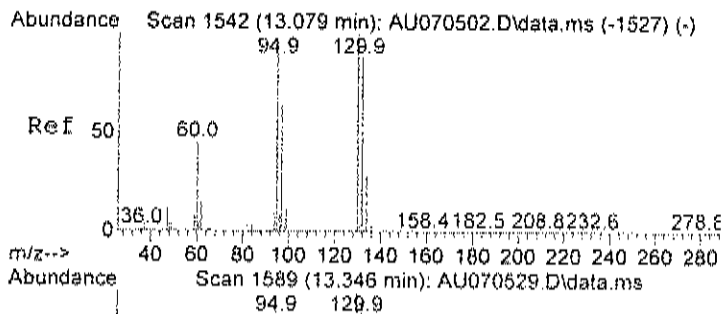
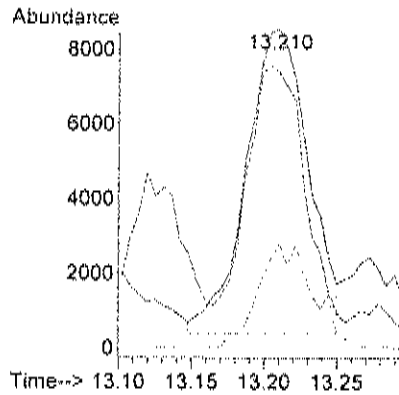
Tgt Ion:	57	Resp:	82494
Ion Ratio	Lower	Upper	
57	100		
41	43.5	1.7	41.7#
56	45.6	10.7	50.7





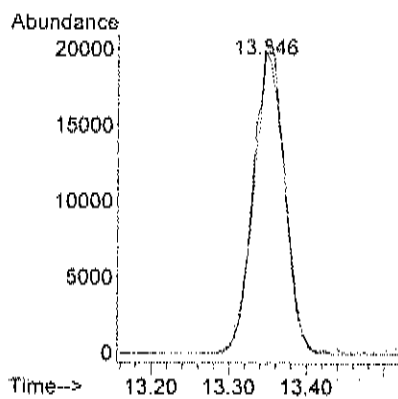
#43
Heptane
Concen: 0.14 ppb m
RT: 13.210 min Scan# 1565
Delta R.T. -0.006 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

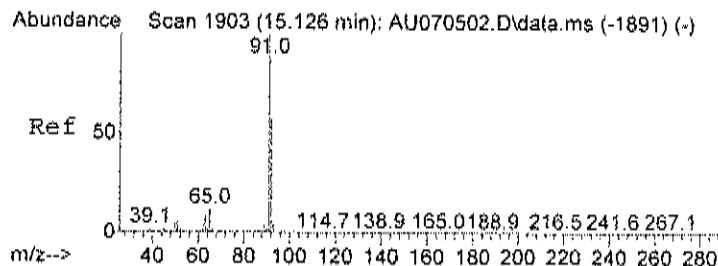
Tgt Ion	43	Resp	24334
Ion Ratio	Lower	Upper	
43	100		
57	93.2	40.9	80.9#
71	30.2	51.1	91.1#



#44
Trichloroethene
Concen: 0.50 ppb
RT: 13.346 min Scan# 1589
Delta R.T. -0.000 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

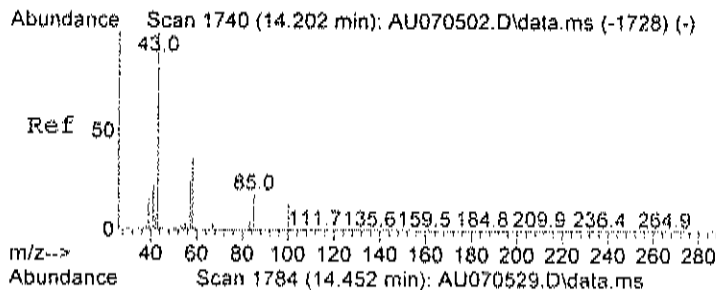
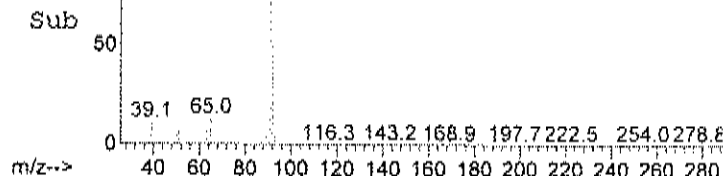
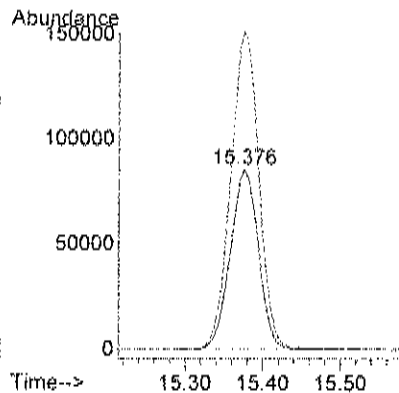
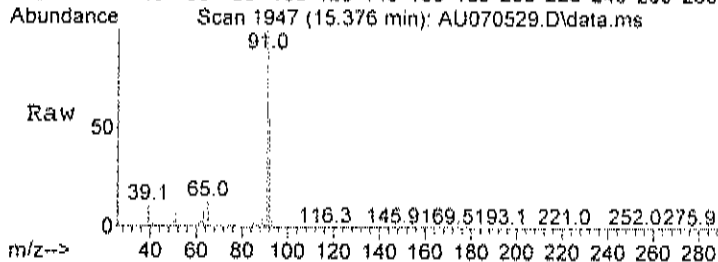
Tgt Ion	130	Resp	57599
Ion Ratio	Lower	Upper	
130	100		
132	95.1	76.3	116.3
95	103.2	72.9	112.9





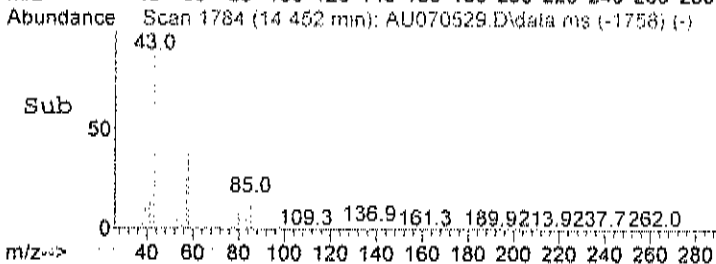
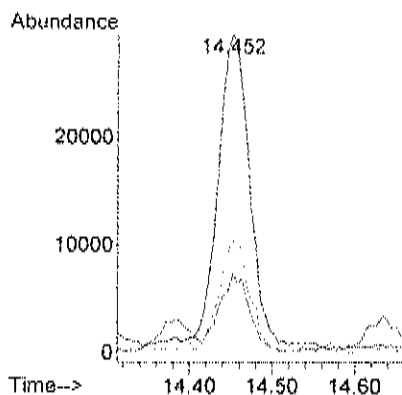
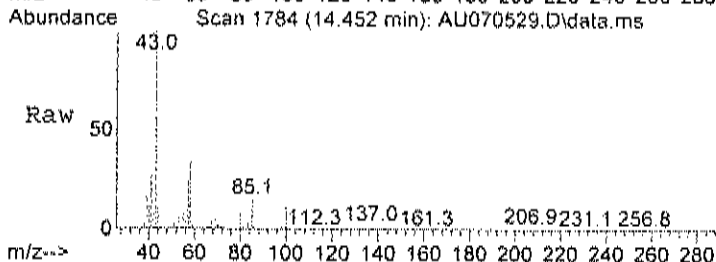
#51
Toluene
Concen: 1.12 ppb
RT: 15.376 min Scan# 1947
Delta R.T. -0.000 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

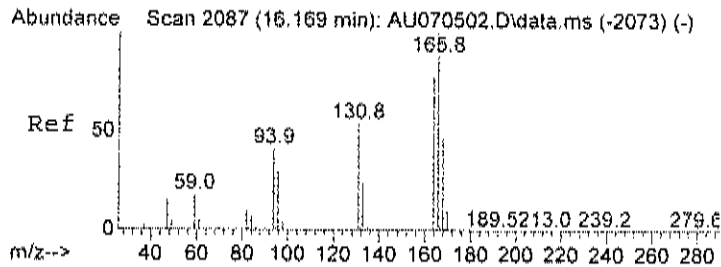
Tgt Ion	92	Resp	216452
Ion Ratio	Lower	Upper	
92	100		
91	176.5	150.4	190.4



#52
Methyl Isobutyl Ketone
Concen: 0.29 ppb
RT: 14.452 min Scan# 1784
Delta R.T. -0.000 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

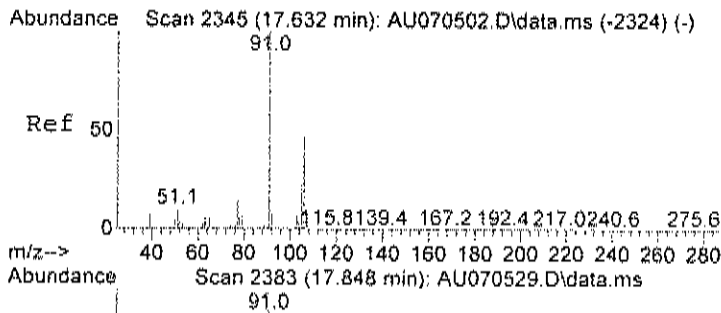
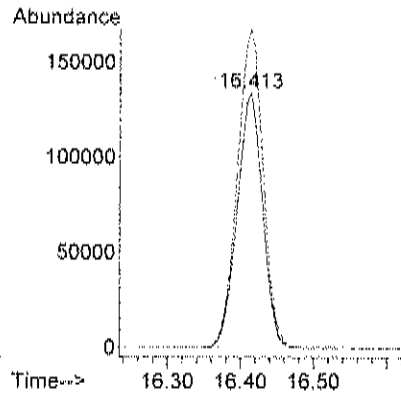
Tgt Ion	43	Resp	78191
Ion Ratio	Lower	Upper	
43	100		
57	22.9	7.9	47.9
58	34.0	24.7	64.7





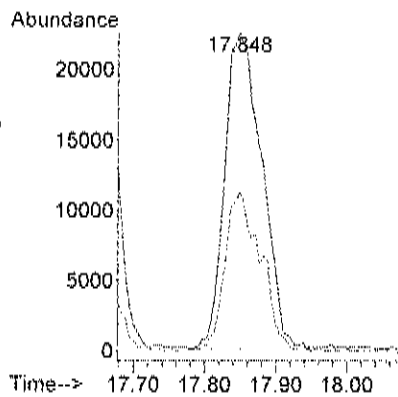
#56
Tetrachloroethylene
Concen: 2.98 ppb
RT: 16.413 min Scan# 2130
Delta R.T. -0.000 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

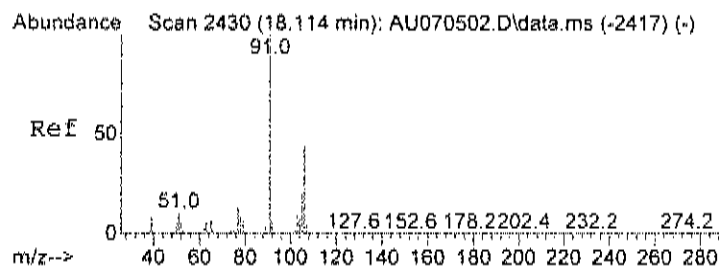
Tgt Ion: 164 Resp: 326161
Ion Ratio Lower Upper
164 100
166 126.1 107.9 147.9



#59
m&p-xylene
Concen: 0.25 ppb
RT: 17.848 min Scan# 2383
Delta R.T. -0.017 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

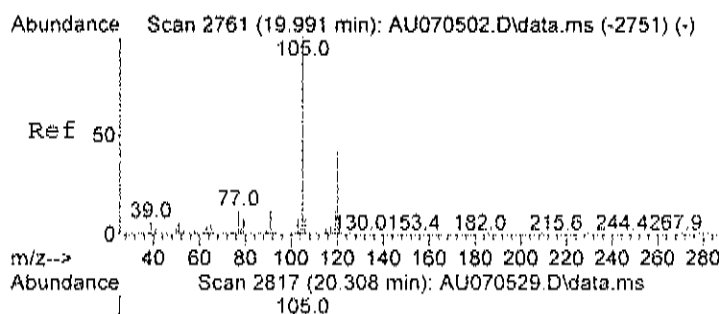
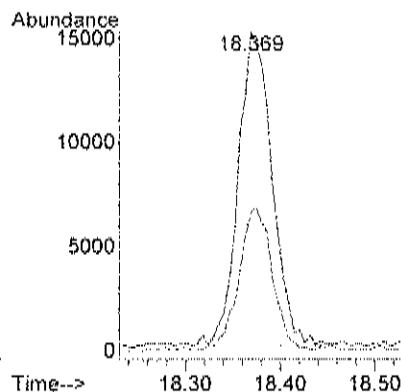
Tgt Ion: 91 Resp: 82441
Ion Ratio Lower Upper
91 100
106 48.5 32.1 72.1





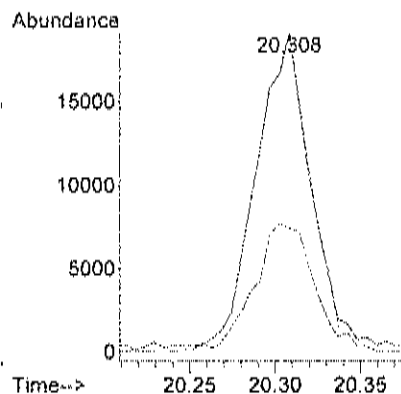
#63
o-xylene
Concen: 0.11 ppb
RT: 18.369 min Scan# 2475
Delta R.T. 0.023 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

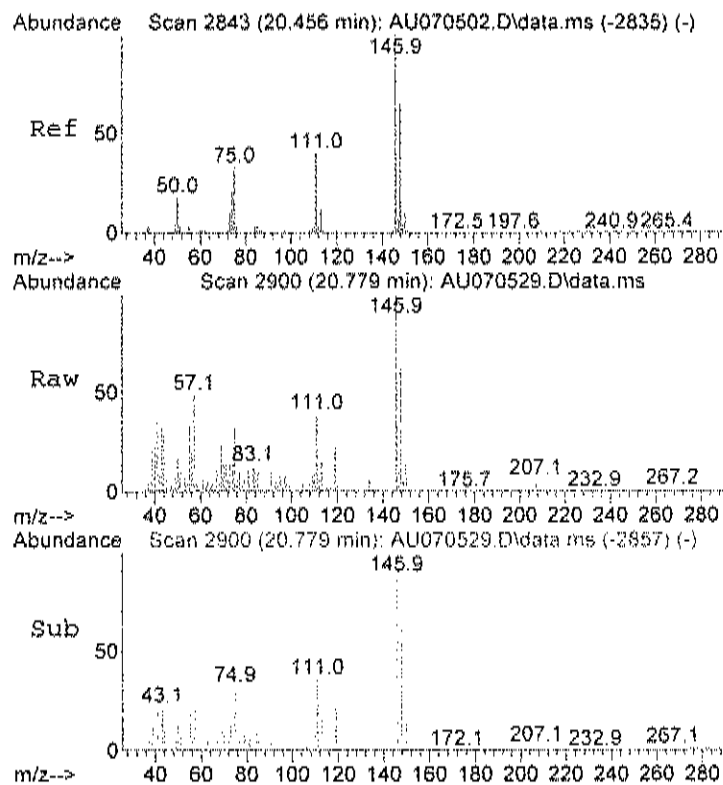
Tgt Ion	Ratio	Lower	Upper
91	100		
106	44.1	29.0	69.0



#71
1,2,4-trimethylbenzene
Concen: 0.11 ppb
RT: 20.308 min Scan# 2817
Delta R.T. 0.091 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

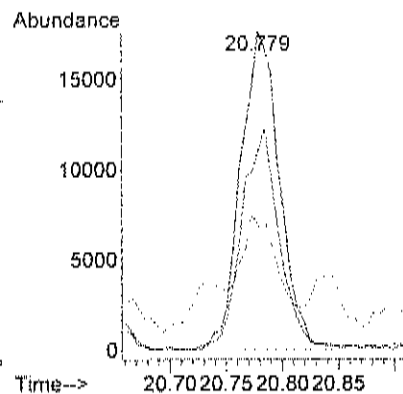
Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.7	25.8	65.8





#74
1,4-dichlorobenzene
Concen: 0.23 ppb m
RT: 20.779 min Scan# 2900
Delta R.T. 0.096 min
Lab File: AU070529.D
Acq: 6 Jul 2023 3:34 am

Tgt Ion	146	Resp	42459
Ion	Ratio	Lower	Upper
146	100		
148	61.4	45.7	85.7
111	38.4	20.7	60.7



Data Path : C:\msdchem\1\data\
Data File : AU070631.D
Acq On : 7 Jul 2023 3:28 am
Operator : RJP
Sample : C2307002-012A 10X
Misc : A629_1UG
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 07 04:59:33 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

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

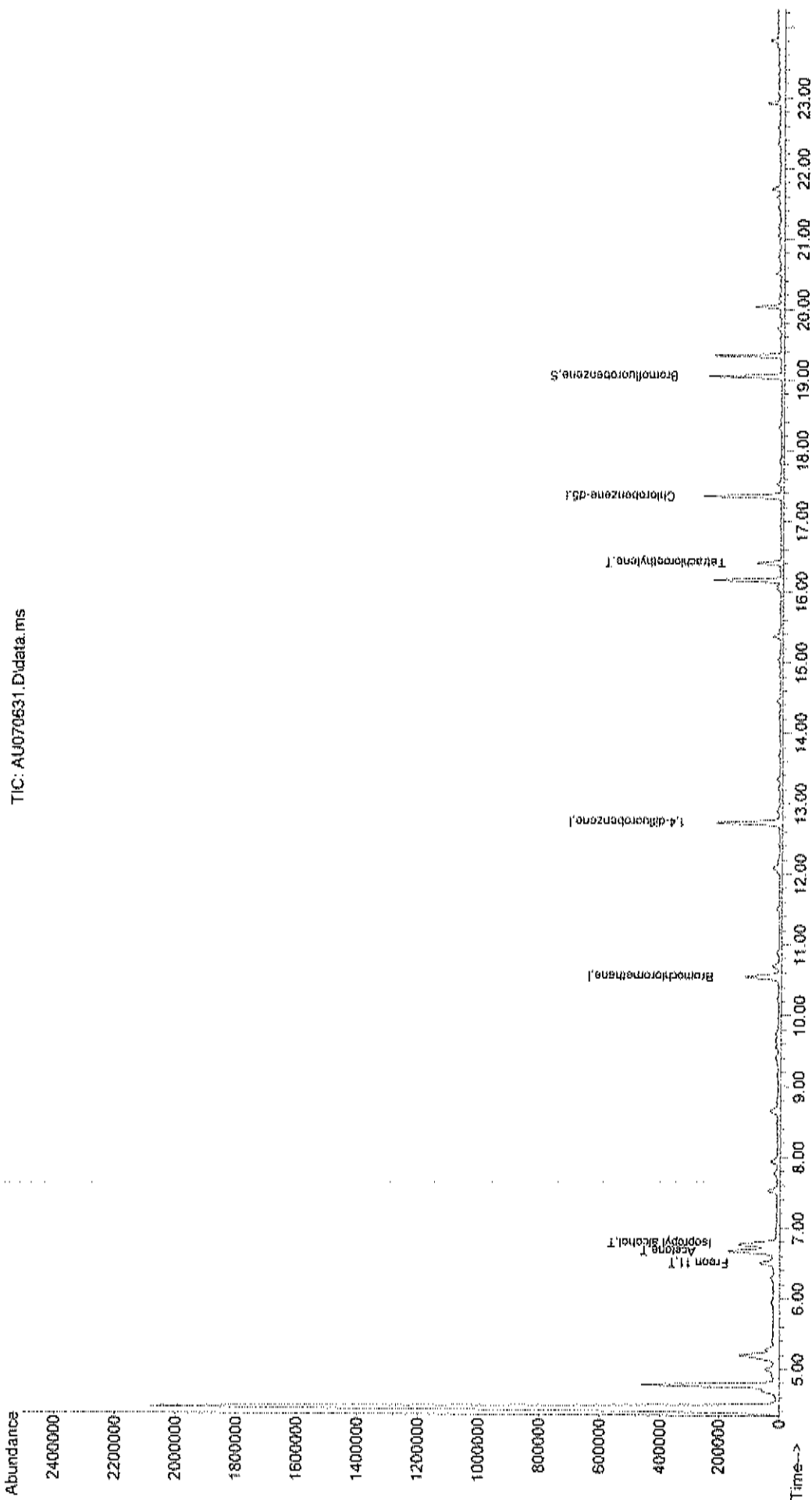
Internal Standards						
1) Bromochloromethane	10.545	128	56641	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.728	114	246444	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	211559	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.044	95	115408	0.72	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	72.00%
Target Compounds						
14) Freon 11	6.503	101	68006	0.29	ppb	Qvalue 99
15) Acetone	6.667	58	114819m	1.72	ppb	
17) Isopropyl alcohol	6.780	45	88244	0.51	ppb	# 1
56) Tetrachloroethylene	16.413	164	27919	0.33	ppb	94

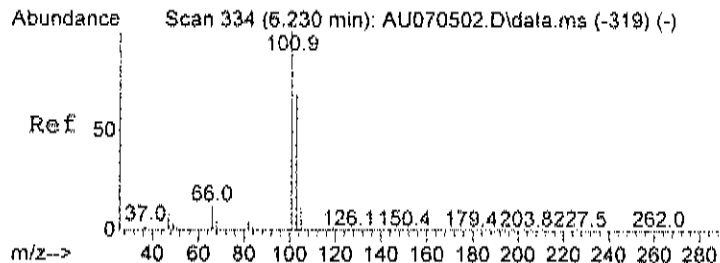
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QF Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : AU070631.D
 Acq On : 7 Jul 2023 3:28 am
 Operator : RJP
 Sample : C2307002-012A 10X
 Misc : A629_1UG
 ALS Vial : 27 Sample Multiplier: 1

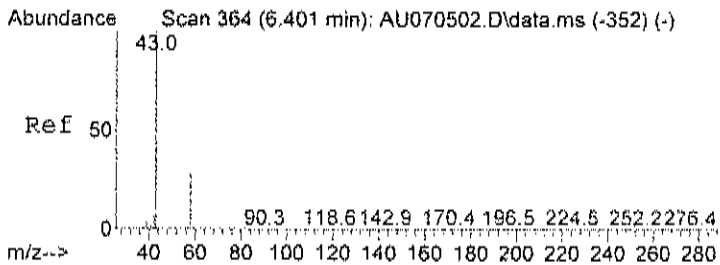
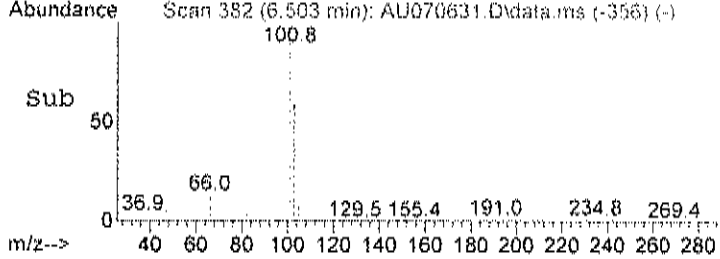
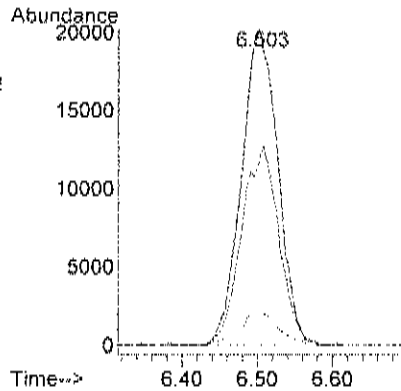
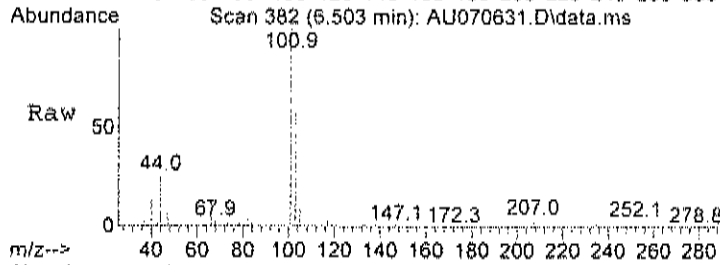
Quant Time: Jul 07 04:59:33 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





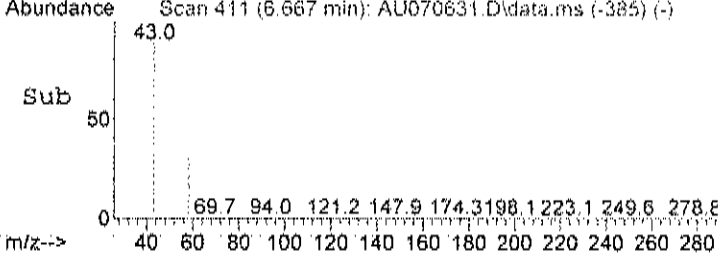
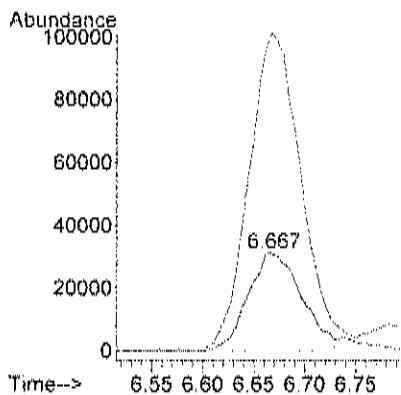
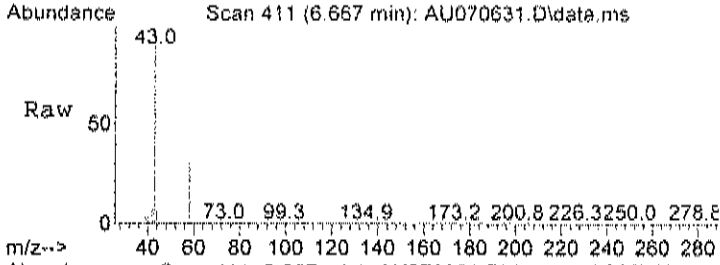
#14
 Freon 11
 Concen: 0.29 ppb
 RT: 6.503 min Scan# 382
 Delta R.T. -0.000 min
 Lab File: AU070631.D
 Acq: 7 Jul 2023 3:28 am

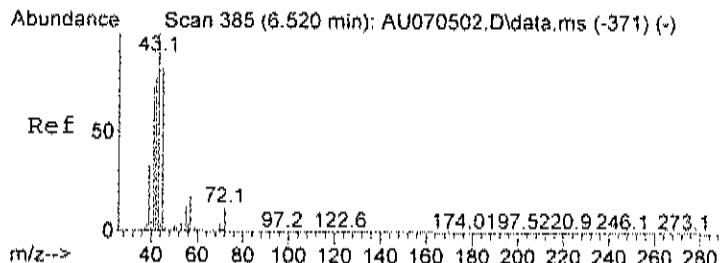
Tgt Ion:	101	Resp:	68006
Ion Ratio	Lower	Upper	
101	100		
103	64.8	44.0	84.0
105	11.4	0.0	31.4



#15
 Acetone
 Concen: 1.72 ppb m
 RT: 6.667 min Scan# 411
 Delta R.T. -0.000 min
 Lab File: AU070631.D
 Acq: 7 Jul 2023 3:28 am

Tgt Ion:	58	Resp:	114819
Ion Ratio	Lower	Upper	
58	100		
43	331.4	224.5	284.5#





#17

Isopropyl alcohol

Concen: 0.51 ppb

RT: 6.780 min Scan# 431

Delta R.T. -0.006 min

Lab File: AU070631.D

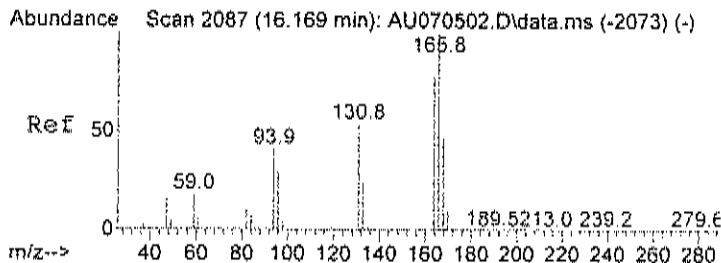
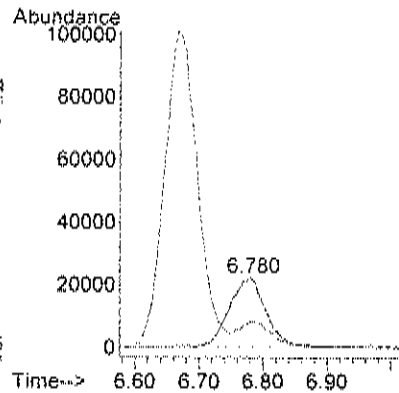
Acq: 7 Jul 2023 3:28 am

Tgt Ion: 45 Resp: 88244

Ion Ratio Lower Upper

45 100

43 0.0 110.3 150.3#



#56

Tetrachloroethylene

Concen: 0.33 ppb

RT: 16.413 min Scan# 2130

Delta R.T. -0.000 min

Lab File: AU070631.D

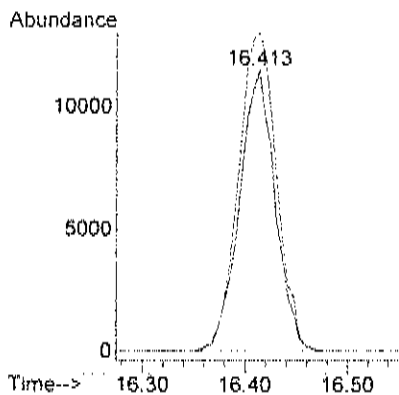
Acq: 7 Jul 2023 3:28 am

Tgt Ion: 164 Resp: 27919

Ion Ratio Lower Upper

164 100

166 121.2 107.9 147.9



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-12

Lab Order: C2307002

Tag Number: 318,153

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-013A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 4:18:00 AM
2,2,4-trimethylpentane	6.6	1.4		ppbV	9	7/7/2023 11:03:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Acetone	22	27	J	ppbV	90	7/7/2023 11:46:00 AM
Allyl chloride	0.26	0.15		ppbV	1	7/6/2023 4:18:00 AM
Benzene	3.5	1.4		ppbV	9	7/7/2023 11:03:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Carbon disulfide	150	14		ppbV	90	7/7/2023 11:46:00 AM
Carbon tetrachloride	0.13	0.15	J	ppbV	1	7/6/2023 4:18:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Chloroethane	0.25	0.15		ppbV	1	7/6/2023 4:18:00 AM
Chloroform	0.58	0.15		ppbV	1	7/6/2023 4:18:00 AM
Chloromethane	0.55	0.15		ppbV	1	7/6/2023 4:18:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Cyclohexane	1.8	0.15		ppbV	1	7/6/2023 4:18:00 AM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 25 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-013A

Client Sample ID: SVW-12
 Tag Number: 318.153
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Ethyl acetate	0.30	0.15		ppbV	1	7/6/2023 4:18:00 AM
Ethylbenzene	0.58	0.15		ppbV	1	7/6/2023 4:18:00 AM
Freon 11	0.43	0.15		ppbV	1	7/6/2023 4:18:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Freon 12	0.57	0.15		ppbV	1	7/6/2023 4:18:00 AM
Heptane	1.0	0.15		ppbV	1	7/6/2023 4:18:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Hexane	1.9	0.15		ppbV	1	7/6/2023 4:18:00 AM
Isopropyl alcohol	4.0	1.4		ppbV	9	7/7/2023 11:03:00 AM
m&p-Xylene	1.3	0.30		ppbV	1	7/6/2023 4:18:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 4:18:00 AM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	7/6/2023 4:18:00 AM
Methyl Isobutyl Ketone	2.3	2.7	J	ppbV	9	7/7/2023 11:03:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Methylene chloride	4.3	1.4		ppbV	9	7/7/2023 11:03:00 AM
o-Xylene	0.69	0.15		ppbV	1	7/6/2023 4:18:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Styrene	0.27	0.15		ppbV	1	7/6/2023 4:18:00 AM
Tetrachloroethylene	3.1	1.4		ppbV	9	7/7/2023 11:03:00 AM
Tetrahydrofuran	6.9	1.4		ppbV	9	7/7/2023 11:03:00 AM
Toluene	4.3	1.4		ppbV	9	7/7/2023 11:03:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Trichloroethene	0.35	0.15		ppbV	1	7/6/2023 4:18:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 4:18:00 AM
Vinyl chloride	0.74	0.15		ppbV	1	7/6/2023 4:18:00 AM
Surr: Bromofluorobenzene	117	70-130		%REC	1	7/6/2023 4:18:00 AM

Qualifiers:

- .
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte, Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 26 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-12

Lab Order: C2307002

Tag Number: 318,153

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-013A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 4:18:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 4:18:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 4:18:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 4:18:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 4:18:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 4:18:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 4:18:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 4:18:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 4:18:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 4:18:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 4:18:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 4:18:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 4:18:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 4:18:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 4:18:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 4:18:00 AM
2,2,4-trimethylpentane	31	6.5		ug/m3	9	7/7/2023 11:03:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 4:18:00 AM
Acetone	53	64	J	ug/m3	90	7/7/2023 11:46:00 AM
Allyl chloride	0.81	0.47		ug/m3	1	7/6/2023 4:18:00 AM
Benzene	11	4.5		ug/m3	9	7/7/2023 11:03:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 4:18:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 4:18:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 4:18:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 4:18:00 AM
Carbon disulfide	480	44		ug/m3	90	7/7/2023 11:46:00 AM
Carbon tetrachloride	0.82	0.94	J	ug/m3	1	7/6/2023 4:18:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 4:18:00 AM
Chloroethane	0.66	0.40		ug/m3	1	7/6/2023 4:18:00 AM
Chloroform	2.8	0.73		ug/m3	1	7/6/2023 4:18:00 AM
Chloromethane	1.1	0.31		ug/m3	1	7/6/2023 4:18:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 4:18:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 4:18:00 AM
Cyclohexane	6.3	0.52		ug/m3	1	7/6/2023 4:18:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 4:18:00 AM
Ethyl acetate	1.1	0.54		ug/m3	1	7/6/2023 4:18:00 AM
Ethylbenzene	2.5	0.65		ug/m3	1	7/6/2023 4:18:00 AM
Freon 11	2.4	0.84		ug/m3	1	7/6/2023 4:18:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 4:18:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 4:18:00 AM

Qualifiers:

- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 25 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-12

Lab Order: C2307002

Tag Number: 318.153

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-013A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.8	0.74		ug/m3	1	7/6/2023 4:18:00 AM
Heptane	4.2	0.61		ug/m3	1	7/6/2023 4:18:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 4:18:00 AM
Hexane	6.8	0.53		ug/m3	1	7/6/2023 4:18:00 AM
Isopropyl alcohol	10	3.4		ug/m3	9	7/7/2023 11:03:00 AM
m&p-Xylene	5.6	1.3		ug/m3	1	7/6/2023 4:18:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 4:18:00 AM
Methyl Ethyl Ketone	3.2	0.88		ug/m3	1	7/6/2023 4:18:00 AM
Methyl Isobutyl Ketone	9.6	11	J	ug/m3	9	7/7/2023 11:03:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 4:18:00 AM
Methylene chloride	15	4.9		ug/m3	9	7/7/2023 11:03:00 AM
o-Xylene	3.0	0.65		ug/m3	1	7/6/2023 4:18:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 4:18:00 AM
Styrene	1.1	0.64		ug/m3	1	7/6/2023 4:18:00 AM
Tetrachloroethylene	21	9.5		ug/m3	9	7/7/2023 11:03:00 AM
Tetrahydrofuran	20	4.1		ug/m3	9	7/7/2023 11:03:00 AM
Toluene	16	5.3		ug/m3	9	7/7/2023 11:03:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 4:18:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 4:18:00 AM
Trichloroethene	1.9	0.81		ug/m3	1	7/6/2023 4:18:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 4:18:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 4:18:00 AM
Vinyl chloride	1.9	0.38		ug/m3	1	7/6/2023 4:18:00 AM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 26 of 40

Data Path : C:\msdchem\1\data\
 Data File : AU070530.D
 Acq On : 6 Jul 2023 4:18 am
 Operator : RJP
 Sample : C2307002-013A
 Misc : A629_1UG
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 06 07:55:49 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

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

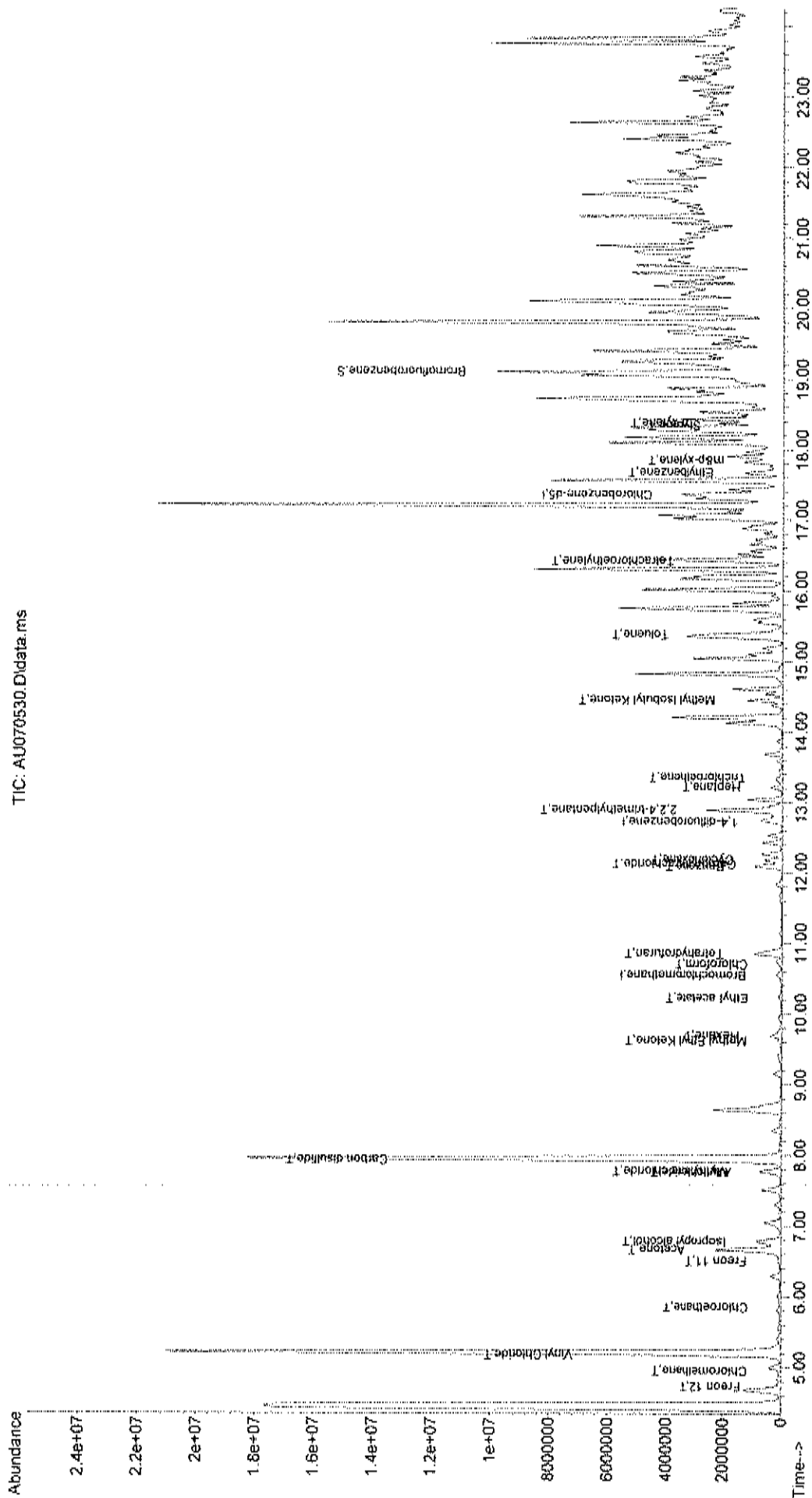
Internal Standards						
1) Bromochloromethane	10.545	128	62005	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	342057	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	331416	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	293294m	1.17	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	117.00%
Target Compounds						
						Qvalue
3) Freon 12	4.728	85	145201	0.57	ppb	98
4) Chloromethane	4.949	50	44504	0.55	ppb	92
6) Vinyl Chloride	5.170	62	56652	0.74	ppb	100
10) Chloroethane	5.851	64	10596	0.25	ppb	89
14) Freon 11	6.503	101	108954	0.43	ppb	96
15) Acetone	6.661	58	1608673	21.97	ppb	# 54
17) Isopropyl alcohol	6.775	45	783556	4.13	ppb	# 1
21) Methylene chloride	7.773	84	612787	3.92	ppb	91
22) Allyl chloride	7.761	41	40698	0.26	ppb	# 42
23) Carbon disulfide	7.926	76	41511746	127.19	ppb	94
28) Methyl Ethyl Ketone	9.621	72	63217	1.08	ppb	# 1
30) Hexane	9.695	57	358384	1.94	ppb	# 78
31) Ethyl acetate	10.222	43	79202	0.30	ppb	94
32) Chloroform	10.698	83	119246	0.58	ppb	# 69
33) Tetrahydrofuran	10.846	42	999696	8.08	ppb	85
37) Cyclohexane	12.184	56	288650	1.82	ppb	# 65
38) Carbon tetrachloride	12.121	117	26128	0.13	ppb	100
39) Benzene	12.087	78	970413	3.34	ppb	95
42) 2,2,4-trimethylpentane	12.892	57	3351056	6.70	ppb	78
43) Heptane	13.216	43	195850	1.02	ppb	84
44) Trichloroethene	13.352	130	44041	0.35	ppb	88
51) Toluene	15.376	92	989674	4.25	ppb	97
52) Methyl Isobutyl Ketone	14.452	43	790856	2.42	ppb	94
56) Tetrachloroethylene	16.413	164	396690	3.01	ppb	100
58) Ethylbenzene	17.666	91	295164	0.58	ppb	95
59) m&p-xylene	17.842	91	517534	1.29	ppb	90
61) Styrene	18.341	104	83209	0.27	ppb	# 17
63) o-xylene	18.375	91	284393	0.69	ppb	91

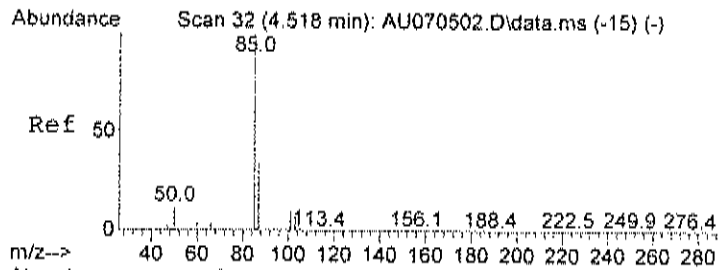
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\
Data File : AU070530.D
Acq On : 6 Jul 2023 4:18 am
Operator : RJP
Sample : C2307902-013A
Misc : A629_IUG
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 06 07:55:49 2023
Quant Method : C:\msdchem\1\methods\A629_IUG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
Qlast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

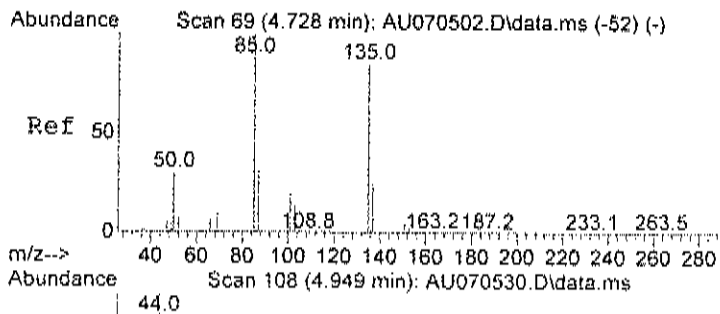
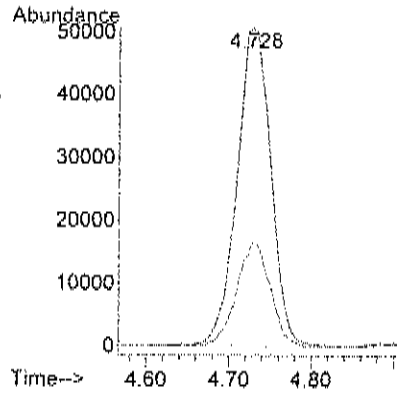
TIC: AU070530.D\data.ms





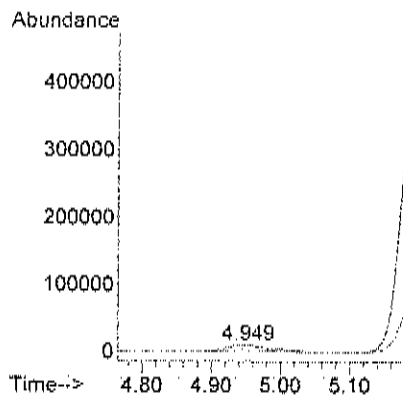
#3
Freon 12
Concen: 0.57 ppb
RT: 4.728 min Scan# 69
Delta R.T. -0.006 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

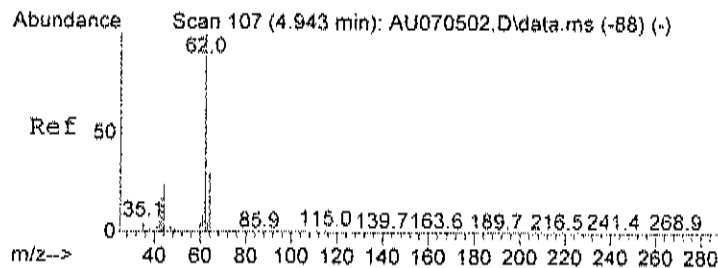
Tgt Ion: 85 Resp: 145201
Ion Ratio Lower Upper
85 100
87 32.3 13.4 53.4



#4
Chloromethane
Concen: 0.55 ppb
RT: 4.949 min Scan# 108
Delta R.T. -0.006 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

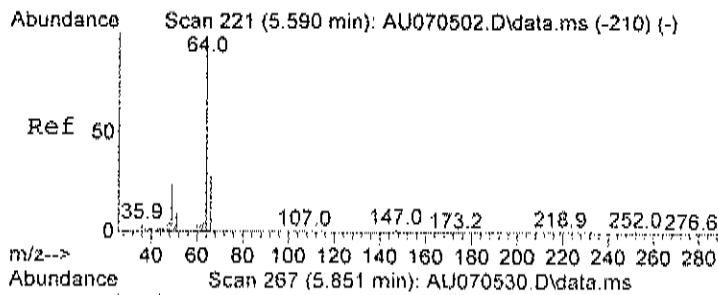
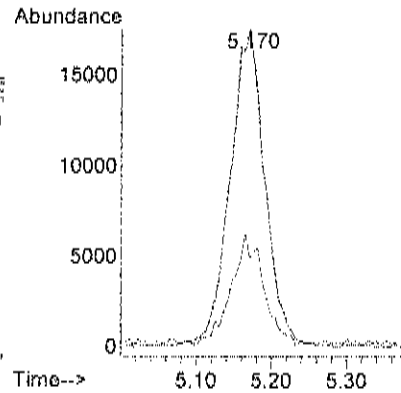
Tgt Ion: 50 Resp: 44504
Ion Ratio Lower Upper
50 100
52 30.8 6.9 46.9





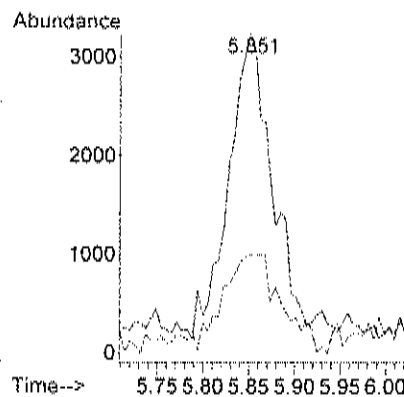
#6
Vinyl Chloride
Concen: 0.74 ppb
RT: 5.170 min Scan# 147
Delta R.T. 0.000 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

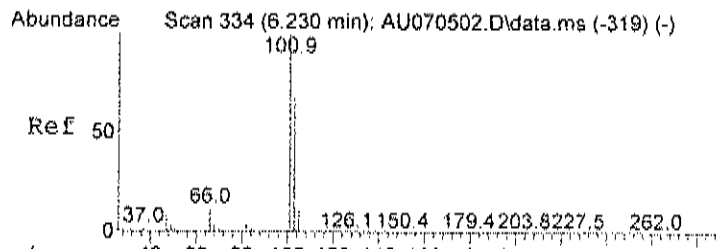
Tgt Ion: 62 Resp: 56652
Ion Ratio Lower Upper
62 100
64 32.3 2.4 62.4



#10
Chloroethane
Concen: 0.25 ppb
RT: 5.851 min Scan# 267
Delta R.T. 0.000 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

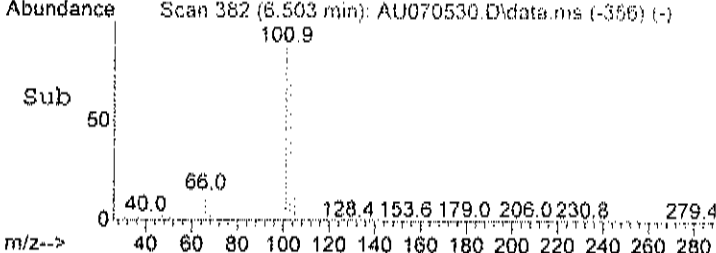
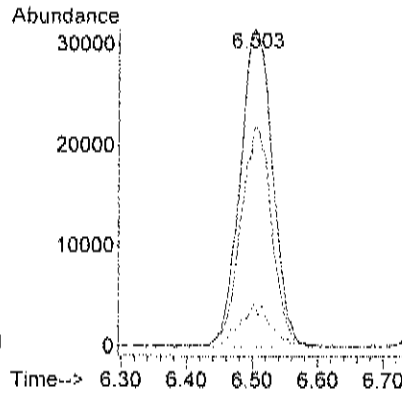
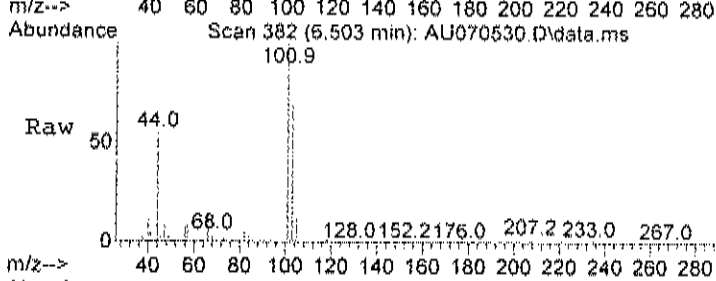
Tgt Ion: 64 Resp: 10596
Ion Ratio Lower Upper
64 100
66 41.7 28.2 42.2





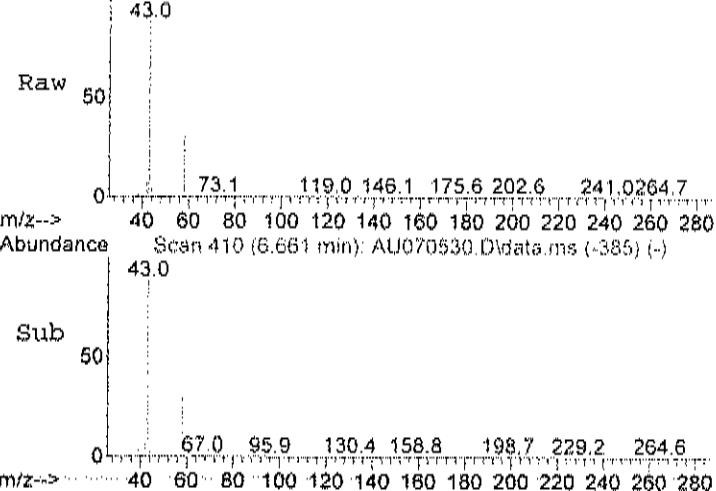
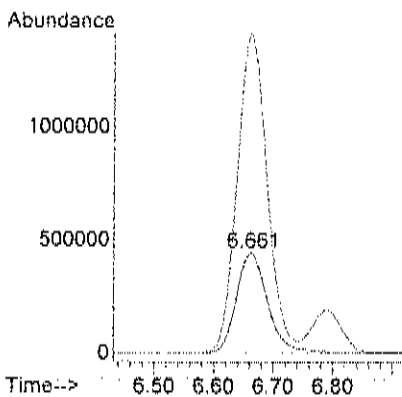
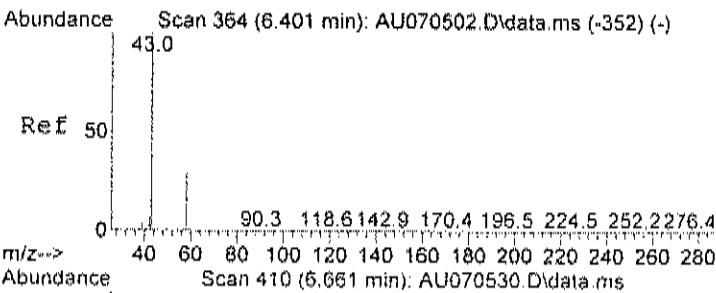
#14
Freon 11
Concen: 0.43 ppb
RT: 6.503 min Scan# 382
Delta R.T. 0.000 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

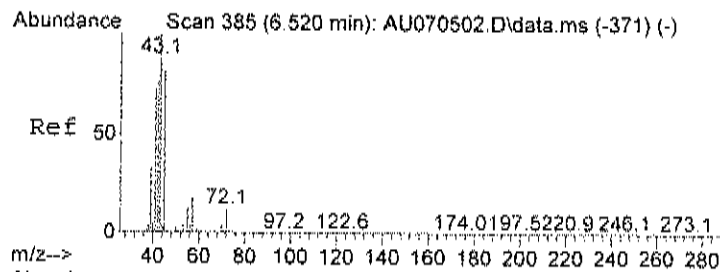
Tgt Ion	101	Resp	108954
Ion Ratio	Lower	Upper	
101	100		
103	66.9	44.0	84.0
105	12.8	0.0	31.4



#15
Acetone
Concen: 21.97 ppb
RT: 6.661 min Scan# 410
Delta R.T. -0.006 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

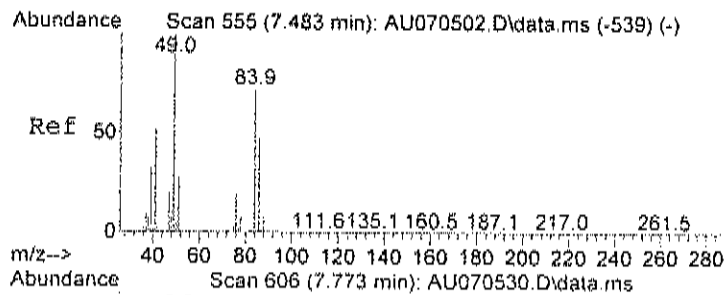
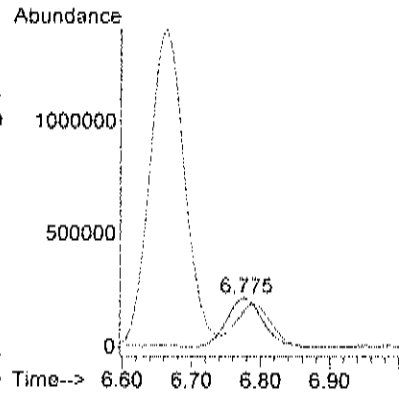
Tgt Ion	58	Resp	1608673
Ion Ratio	Lower	Upper	
58	100		
43	336.1	224.5	284.5#





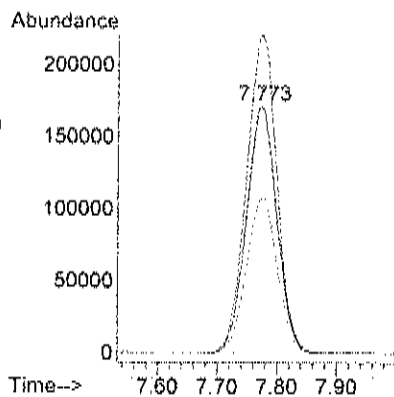
#17
Isopropyl alcohol
Concen: 4.13 ppb
RT: 6.775 min Scan# 430
Delta R.T. -0.011 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

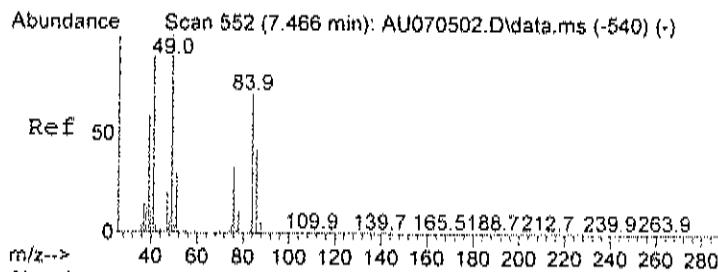
Tgt Ion	45	Ratio	100	Lower	Upper
45	100				
43	0.0		110.3	150.3	



#21
Methylene chloride
Concen: 3.92 ppb
RT: 7.773 min Scan# 606
Delta R.T. 0.000 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

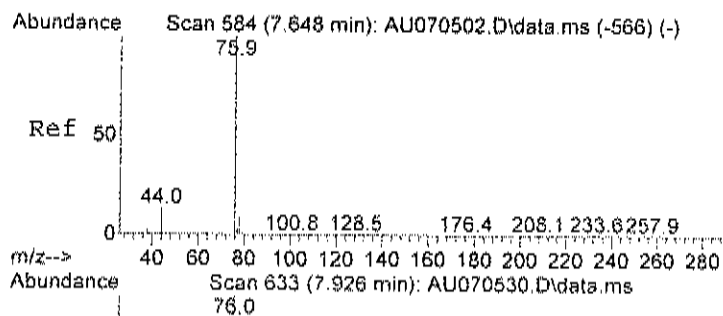
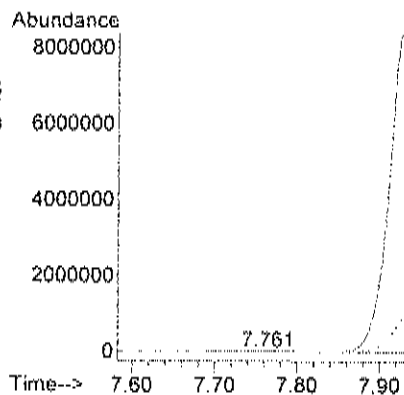
Tgt Ion	84	Ratio	100	Lower	Upper
84	100				
49	128.8		93.0	133.0	
86	63.9		43.7	83.7	





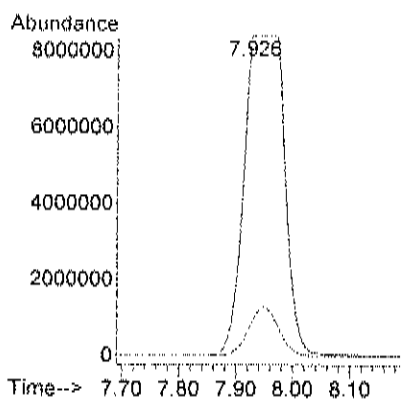
#22
Allyl chloride
Concen: 0.26 ppb
RT: 7.761 min Scan# 604
Delta R.T. 0.011 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

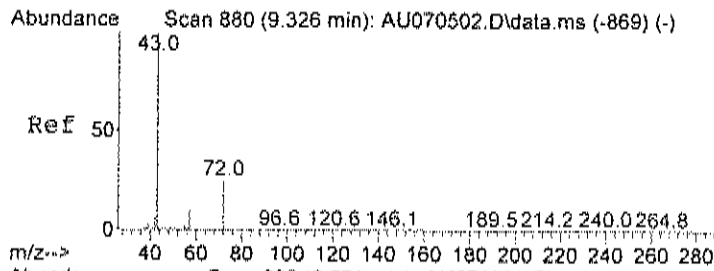
Tgt Ion:	41	Resp:	40698
Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.5	61.5#
78	0.0	0.0	33.8



#23
Carbon disulfide
Concen: 127.19 ppb
RT: 7.926 min Scan# 633
Delta R.T. -0.023 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

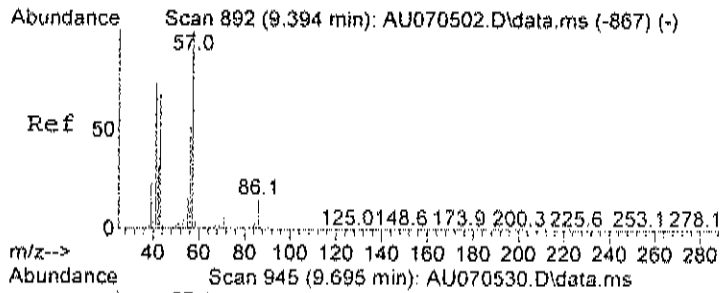
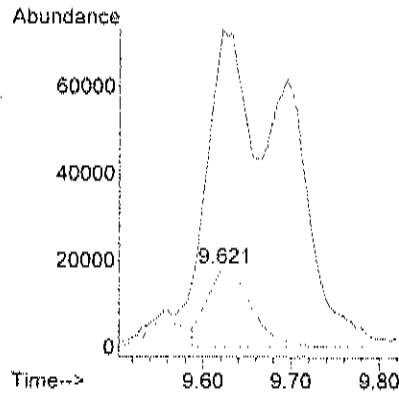
Tgt Ion:	76	Resp:	41511746
Ion	Ratio	Lower	Upper
76	100		
78	11.4	0.0	29.3





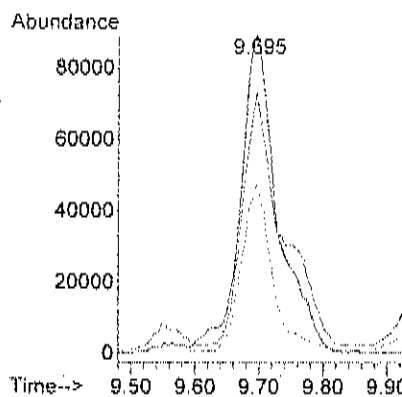
#28
Methyl Ethyl Ketone
Concen: 1.08 ppb
RT: 9.621 min Scan# 932
Delta R.T. -0.006 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

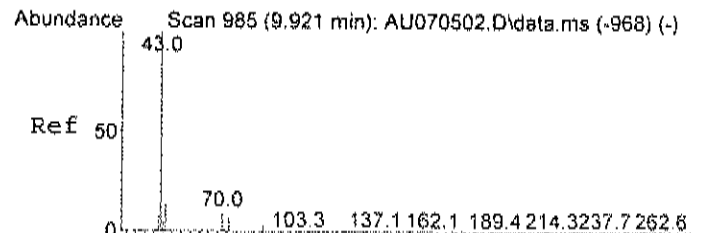
Tgt Ion	Ratio	Lower	Upper
72	100		
43	0.0	389.0	429.0#
72	100.0	80.0	120.0



#30
Hexane
Concen: 1.94 ppb
RT: 9.695 min Scan# 945
Delta R.T. 0.000 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

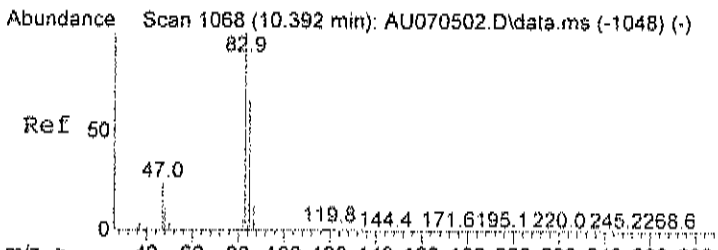
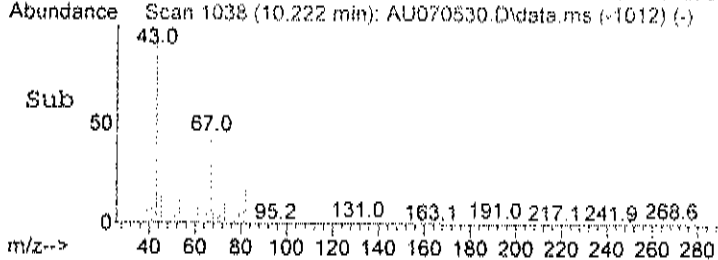
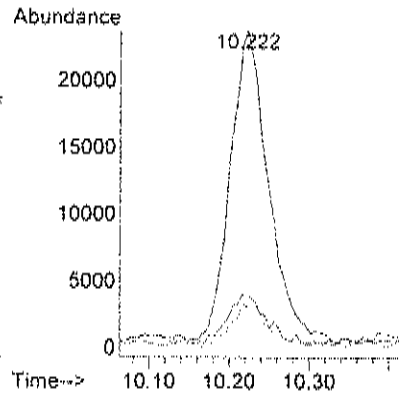
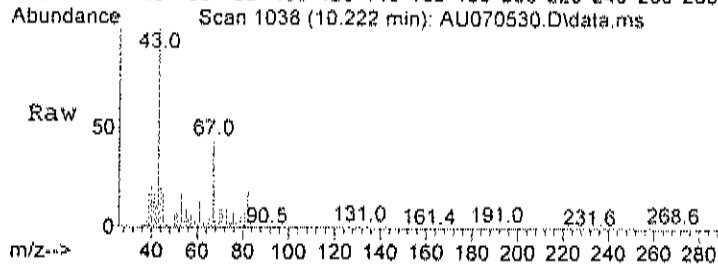
Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.6	37.3	77.3#
56	43.7	24.8	64.8





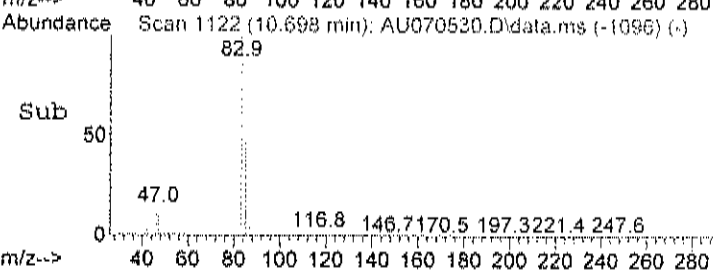
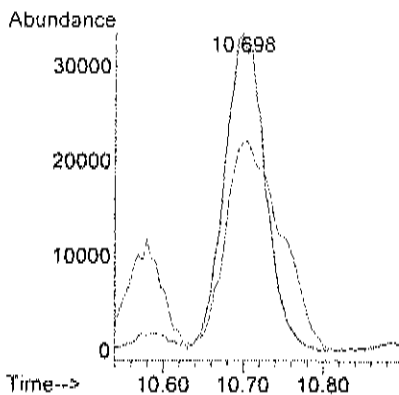
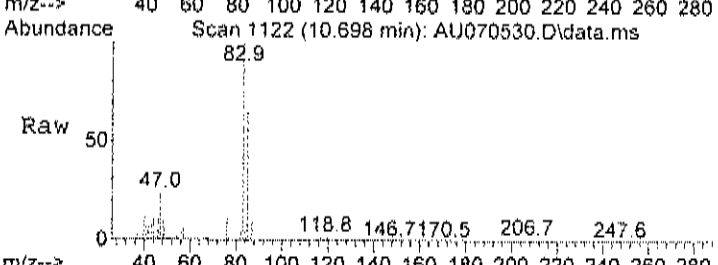
#31
Ethyl acetate
Concen: 0.30 ppb
RT: 10.222 min Scan# 1038
Delta R.T. 0.000 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

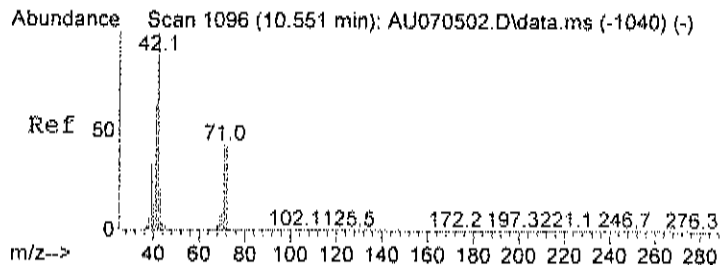
Tgt Ion:	43	Resp:	79202
Ion	Ratio	Lower	Upper
43	100		
45	16.4	0.0	35.3
61	13.1	0.0	37.0



#32
Chloroform
Concen: 0.58 ppb
RT: 10.698 min Scan# 1122
Delta R.T. 0.000 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

Tgt Ion:	83	Resp:	119246
Ion	Ratio	Lower	Upper
83	100		
85	89.3	44.6	84.6#





#33

Tetrahydrofuran

Concen: 8.08 ppb

RT: 10.846 min Scan# 1148

Delta R.T. -0.017 min

Lab File: AU070530.D

Acq: 6 Jul 2023 4:18 am

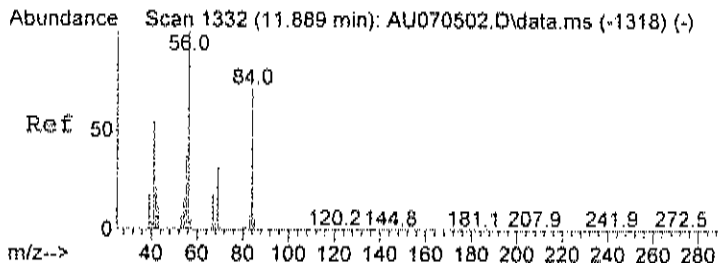
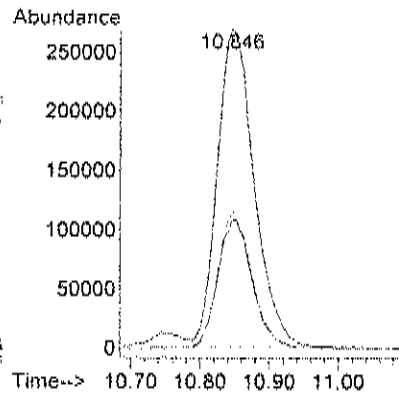
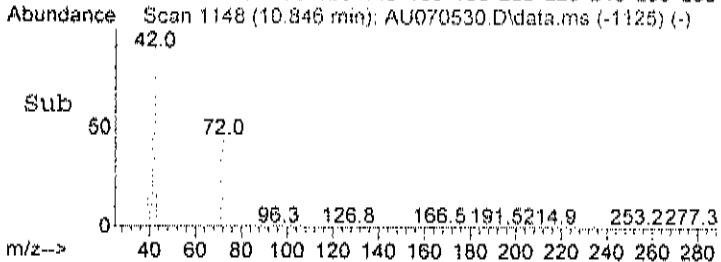
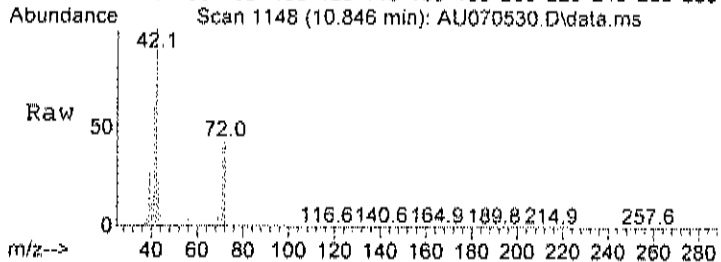
Tgt Ion: 42 Resp: 999696

Ion Ratio Lower Upper

42 100

71 37.6 27.1 67.1

72 40.1 30.8 70.8



#37

Cyclohexane

Concen: 1.82 ppb

RT: 12.184 min Scan# 1384

Delta R.T. 0.006 min

Lab File: AU070530.D

Acq: 6 Jul 2023 4:18 am

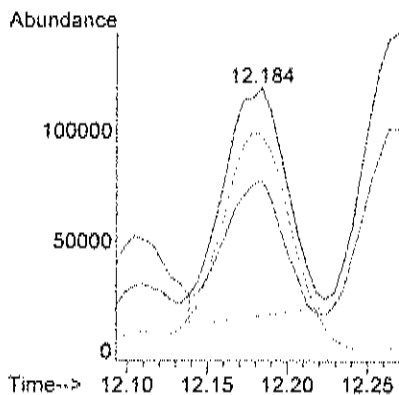
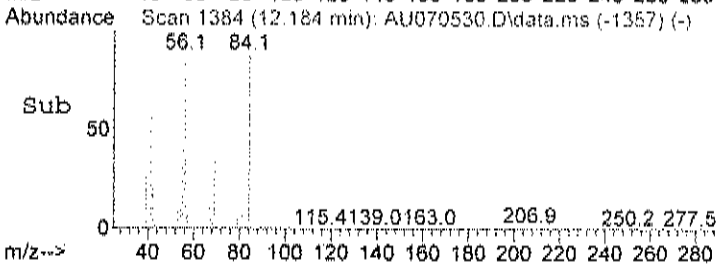
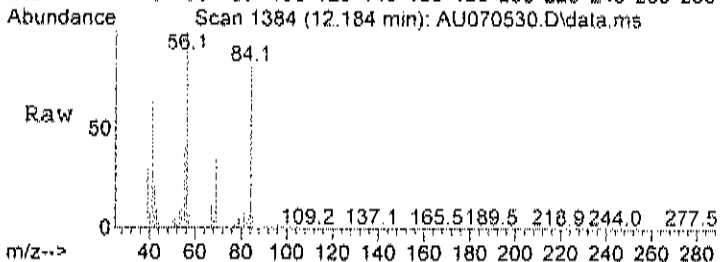
Tgt Ion: 56 Resp: 288650

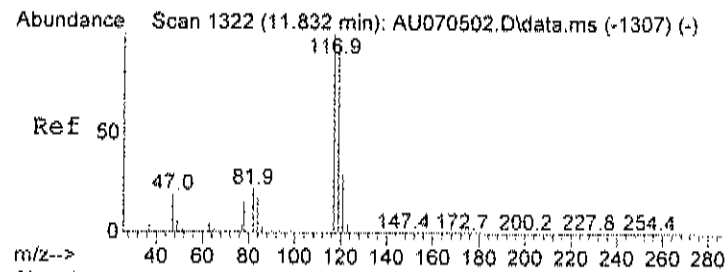
Ion Ratio Lower Upper

56 100

41 121.8 28.1 68.1#

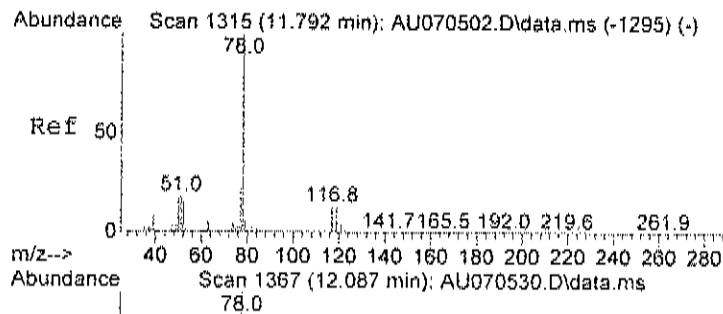
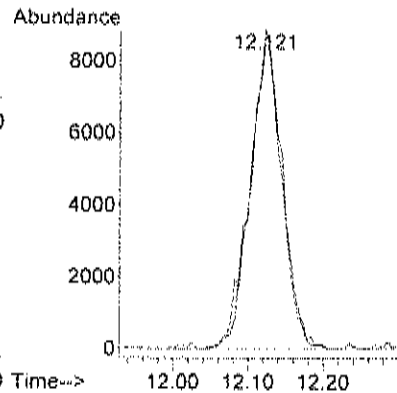
84 106.2 85.3 125.3





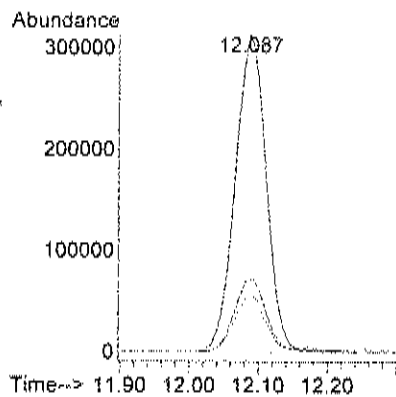
#38
Carbon tetrachloride
Concen: 0.13 ppb
RT: 12.121 min Scan# 1373
Delta R.T. -0.006 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

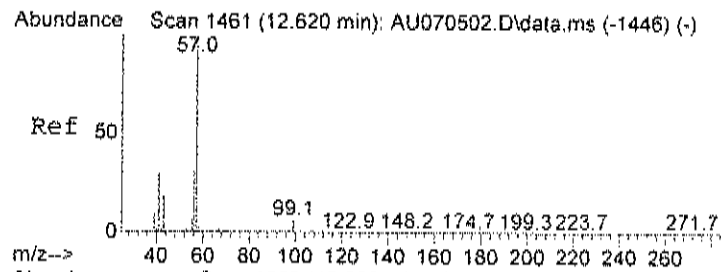
Tgt Ion	117	119	Ratio	100	96.9	Lower	Upper
Resp	26128					76.7	116.7



#39
Benzene
Concen: 3.34 ppb
RT: 12.087 min Scan# 1367
Delta R.T. -0.006 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

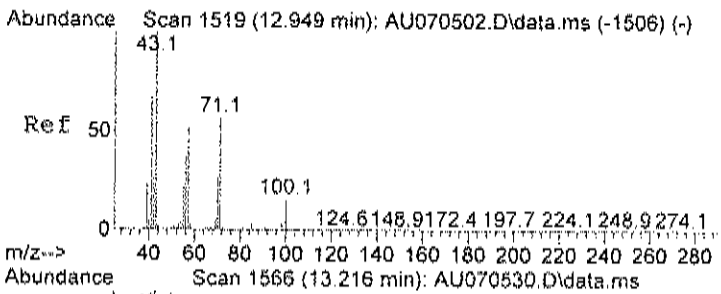
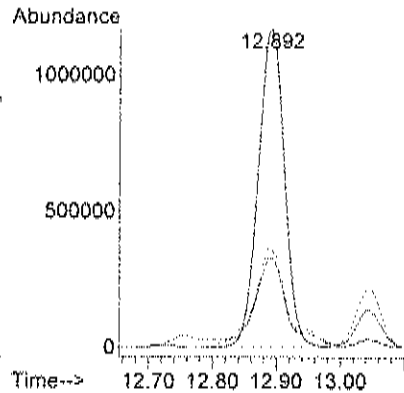
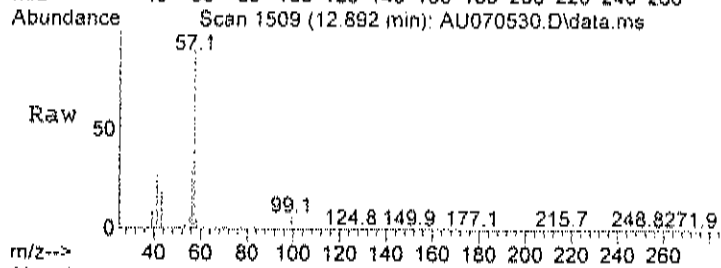
Tgt Ion	78	77	51	Ratio	100	24.5	20.2	Lower	Upper
Resp	970413					3.8	0.0	43.8	35.4





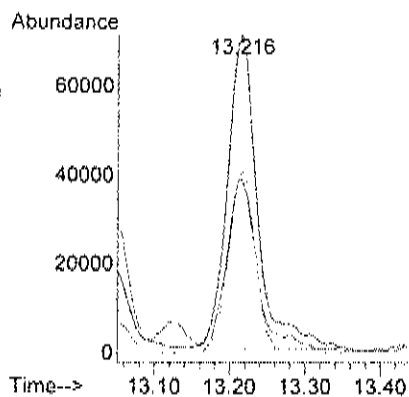
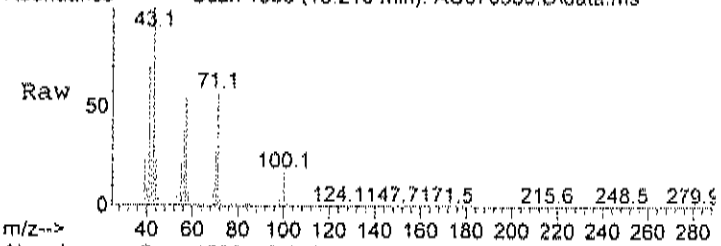
#42
2,2,4-trimethylpentane
Concen: 6.70 ppb
RT: 12.892 min Scan# 1509
Delta R.T. 0.000 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

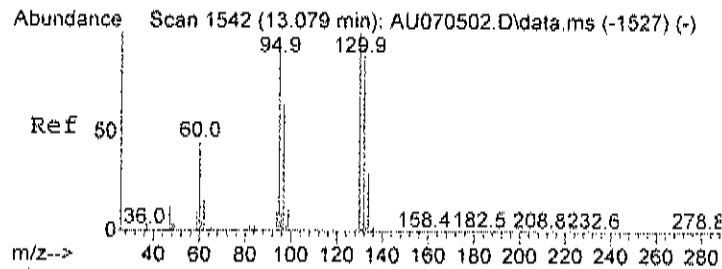
Tgt Ion	Ratio	Lower	Upper
57	100		
41	34.2	1.7	41.7
56	40.6	10.7	50.7



#43
Heptane
Concen: 1.02 ppb
RT: 13.216 min Scan# 1566
Delta R.T. 0.000 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

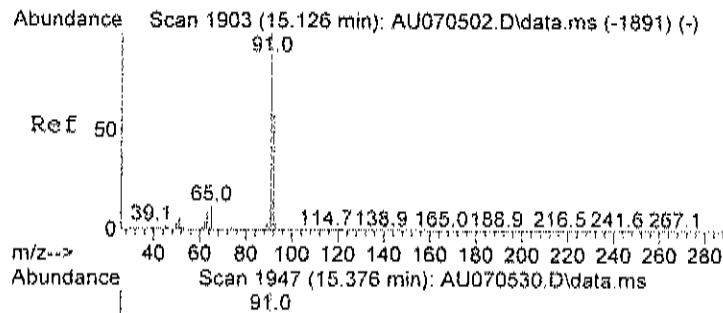
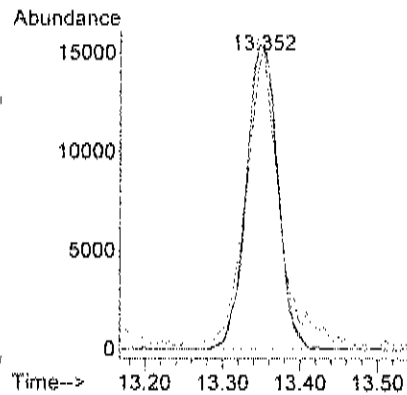
Tgt Ion	Ratio	Lower	Upper
43	100		
57	53.8	40.9	80.9
71	52.6	51.1	91.1





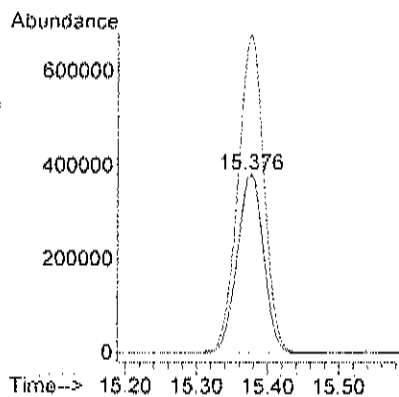
#44
Trichloroethene
Concen: 0.35 ppb
RT: 13.352 min Scan# 1590
Delta R.T. 0.006 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

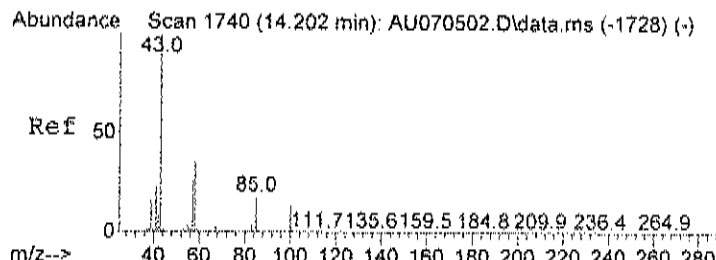
Tgt Ion	Ratio	Lower	Upper
130	100		
132	93.3	76.3	116.3
95	112.6	72.9	112.9



#51
Toluene
Concen: 4.25 ppb
RT: 15.376 min Scan# 1947
Delta R.T. 0.000 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

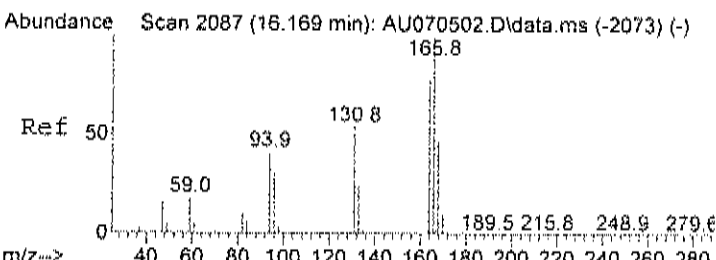
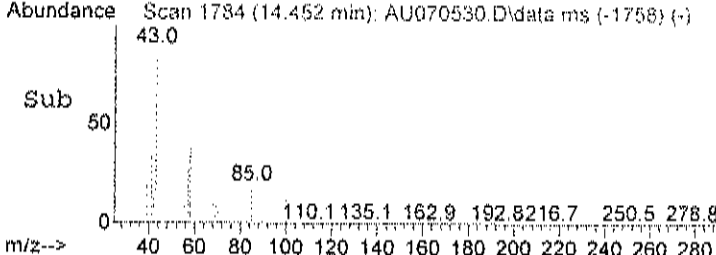
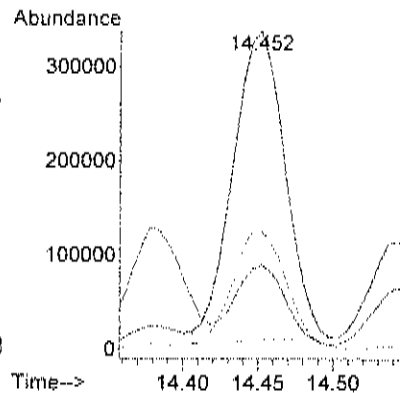
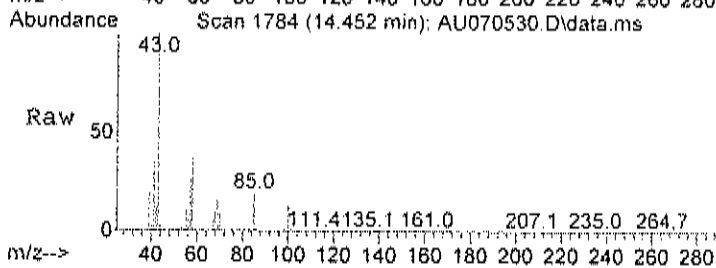
Tgt Ion	Ratio	Lower	Upper
92	100		
91	175.0	150.4	190.4





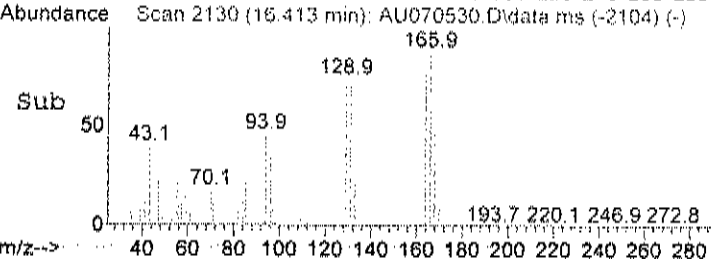
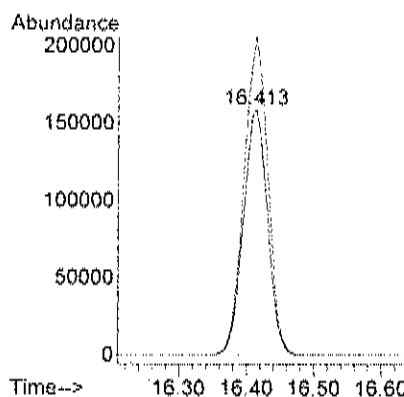
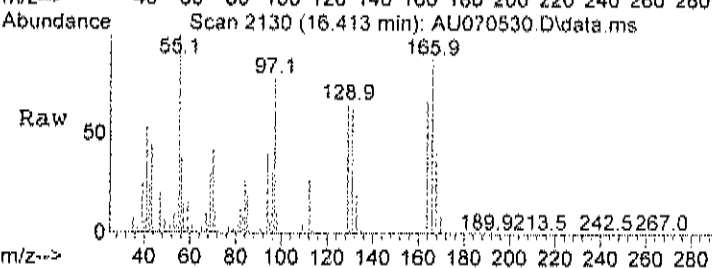
#52
Methyl Isobutyl Ketone
Concen: 2.42 ppb
RT: 14.452 min Scan# 1784
Delta R.T. 0.000 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

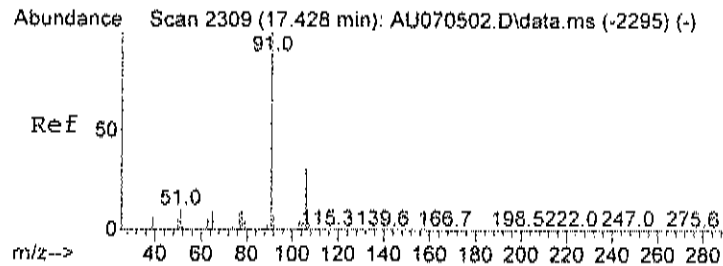
Tgt Ion:	43	Resp:	790856
Ion Ratio	Lower	Upper	
43	100		
57	24.3	7.9	47.9
58	41.3	24.7	64.7



#56
Tetrachloroethylene
Concen: 3.01 ppb
RT: 16.413 min Scan# 2130
Delta R.T. 0.000 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

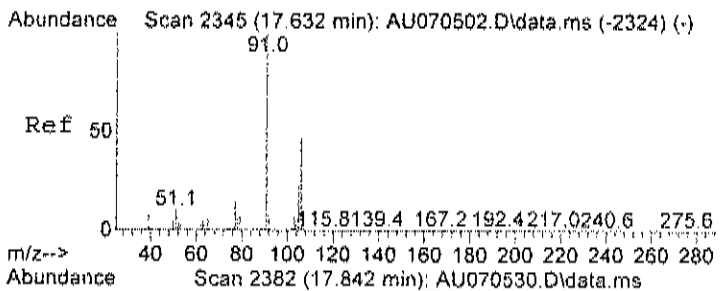
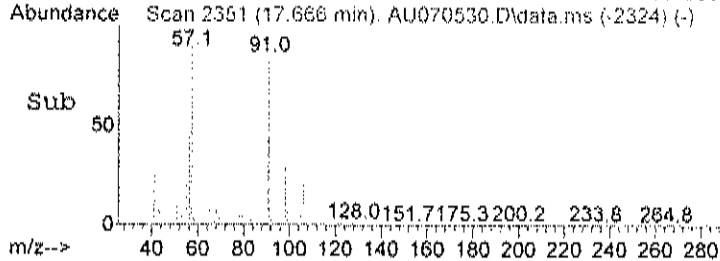
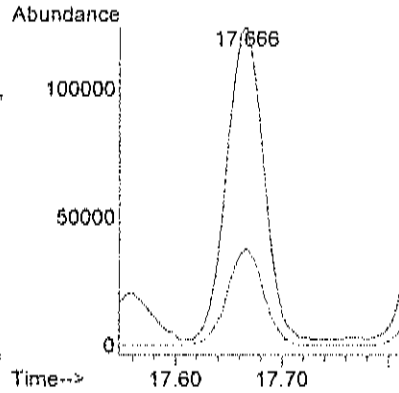
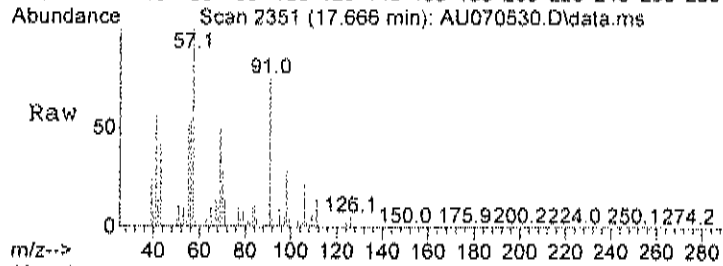
Tgt Ion:	164	Resp:	396690
Ion Ratio	Lower	Upper	
164	100		
166	128.2	107.9	147.9





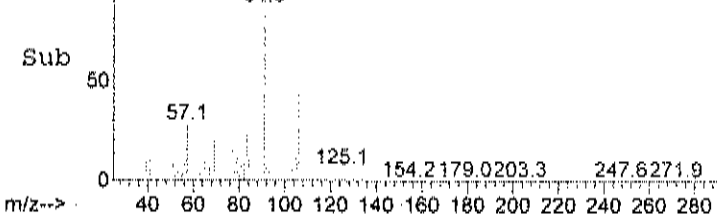
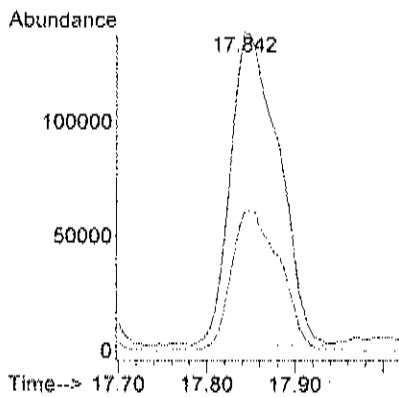
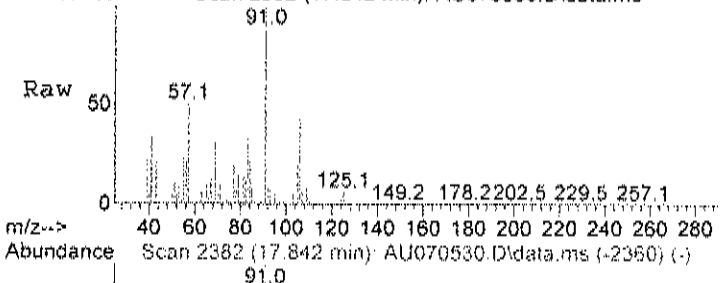
#58
Ethylbenzene
Concen: 0.58 ppb
RT: 17.666 min Scan# 2351
Delta R.T. 0.006 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

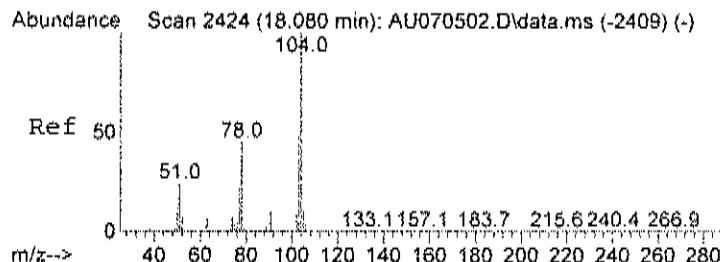
Tgt Ion	91	Resp	295164
Ion Ratio	Lower	Upper	
91	100		
106	30.4	13.1	53.1



#59
m&p-xylene
Concen: 1.29 ppb
RT: 17.842 min Scan# 2382
Delta R.T. -0.023 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

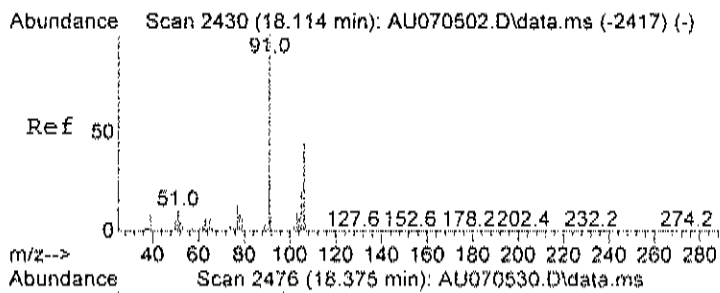
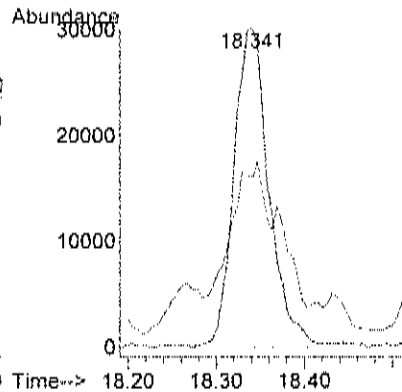
Tgt Ion	91	Resp	517534
Ion Ratio	Lower	Upper	
91	100		
106	45.0	32.1	72.1





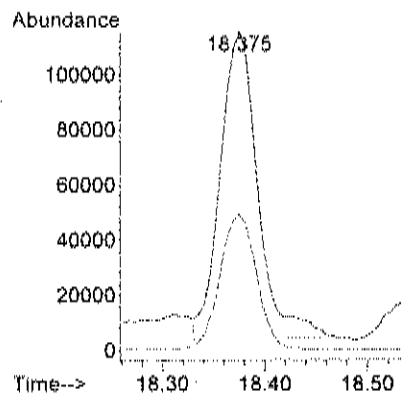
#61
Styrene
Concen: 0.27 ppb
RT: 18.341 min Scan# 2470
Delta R.T. 0.028 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

Tgt Ion	104	78
Ratio	100	100.8
Resp	83209	25.8
Lower		
Upper		65.8#



#63
o-xylene
Concen: 0.69 ppb
RT: 18.375 min Scan# 2476
Delta R.T. 0.028 min
Lab File: AU070530.D
Acq: 6 Jul 2023 4:18 am

Tgt Ion	91	106
Ratio <td>100</td> <td>43.0</td>	100	43.0
Resp <td>284393</td> <td>29.0</td>	284393	29.0
Lower <td></td> <td></td>		
Upper <td></td> <td>69.0</td>		69.0



Data Path : C:\msdchem\1\data\
 Data File : AU070706.D
 Acq On : 7 Jul 2023 11:03 am
 Operator : RJP
 Sample : C2307002-013A 9X
 Misc : A629 1UG
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 11:11:43 2023
 Quant Method : C:\msdchem\1\methods\A629 1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

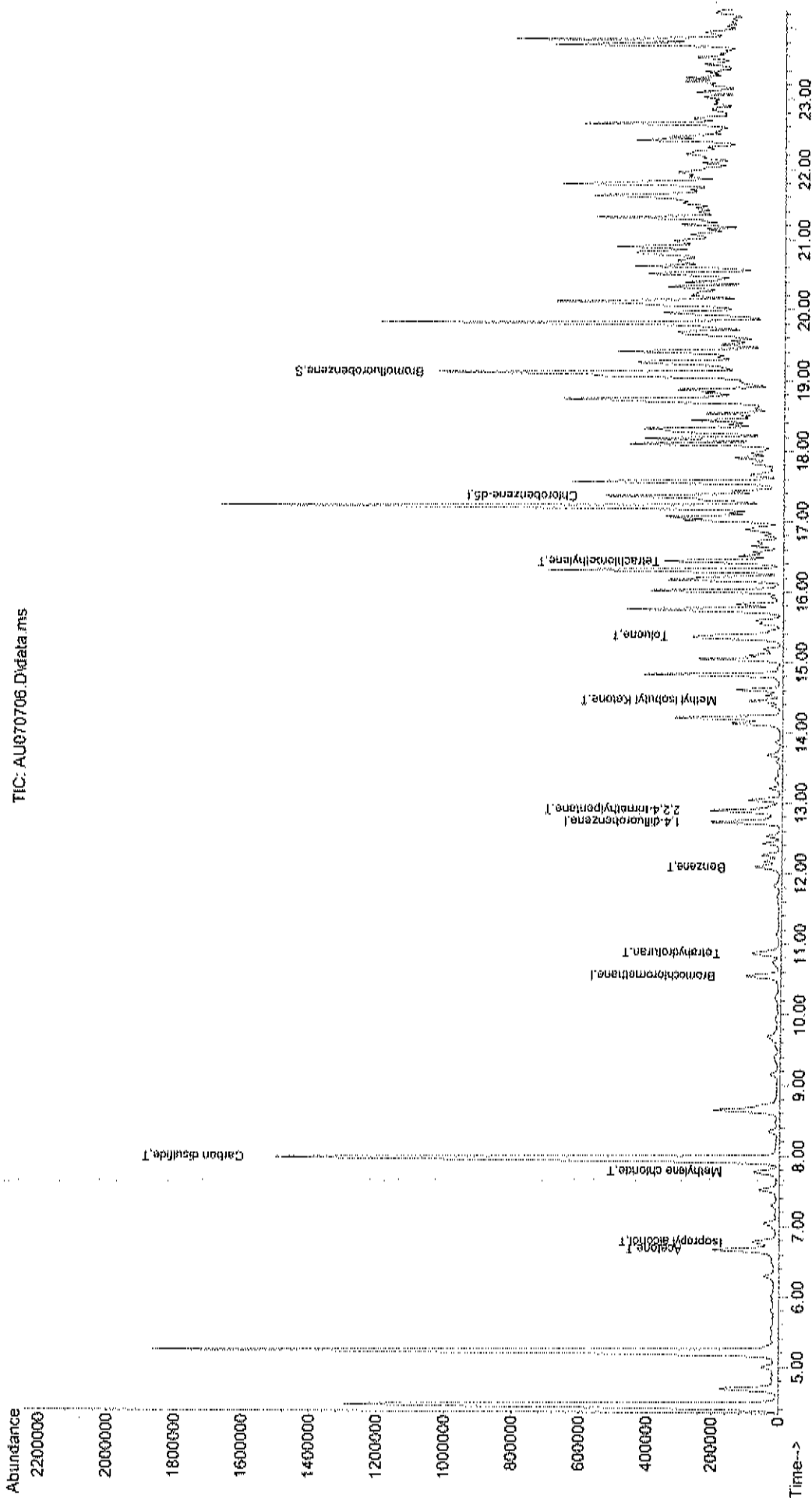
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

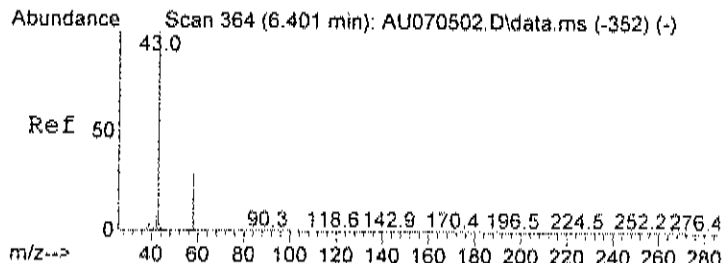
Internal Standards						
1) Bromochloromethane	10.539	128	47581	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	225468	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	232173	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.089	95	198741	1.14	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	114.00%
Target Compounds						
						Qvalue
15) Acetone	6.667	58	132513m	2.36	ppb	
17) Isopropyl alcohol	6.775	45	65840	0.45	ppb	# 1
21) Methylene chloride	7.773	84	57011	0.48	ppb	89
23) Carbon disulfide	7.948	76	4204247	16.79	ppb	99
33) Tetrahydrofuran	10.863	42	72757	0.77	ppb	86
39) Benzene	12.082	78	74235m	0.39	ppb	
42) 2,2,4-trimethylpentane	12.892	57	240710	0.73	ppb	77
51) Toluene	15.370	92	77881	0.48	ppb	92
52) Methyl Isobutyl Ketone	14.451	43	59417	0.26	ppb	91
56) Tetrachloroethylene	16.419	164	31610	0.34	ppb	98

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

Data Path : C:\msdchem\1\data\
Data File : AU070706.D
Acq On : 7 Jul 2023 11:03 am
Operator : RJP
Sample : C2307002-013A 9X
Misc : A629_1UG
ALS Vial : 6 Sample Multiplier: 1

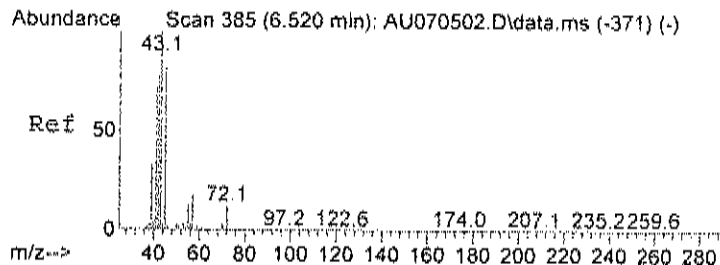
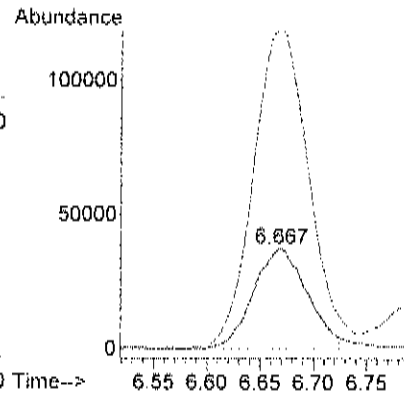
Quant Time: Jul 08 11:11:43 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration





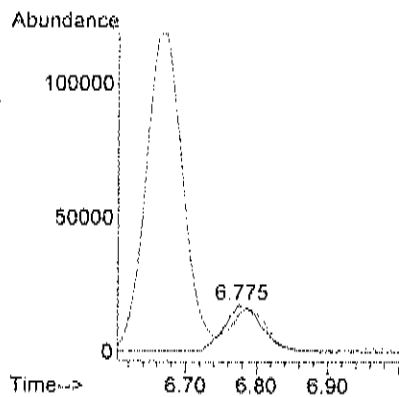
#15
Acetone
Concen: 2.36 ppb m
RT: 6.667 min Scan# 411
Delta R.T. -0.000 min
Lab File: AU070706.D
Acq: 7 Jul 2023 11:03 am

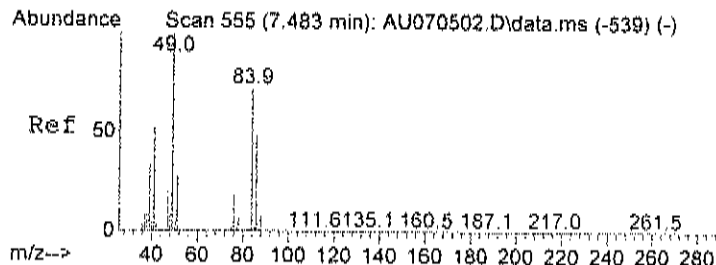
Tgt Ion:	58	Resp:	132513
Ion	Ratio	Lower	Upper
58	100		
43	349.3	224.5	284.5#



#17
Isopropyl alcohol
Concen: 0.45 ppb
RT: 6.775 min Scan# 430
Delta R.T. -0.011 min
Lab File: AU070706.D
Acq: 7 Jul 2023 11:03 am

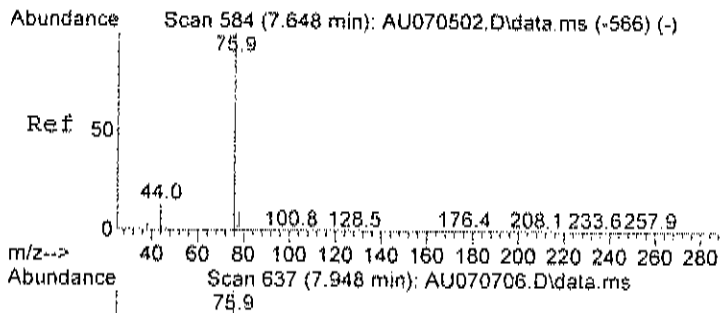
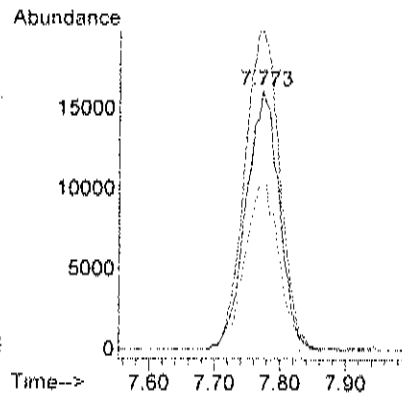
Tgt Ion:	45	Resp:	65840
Ion	Ratio	Lower	Upper
45	100		
43	0.0	110.3	150.3#





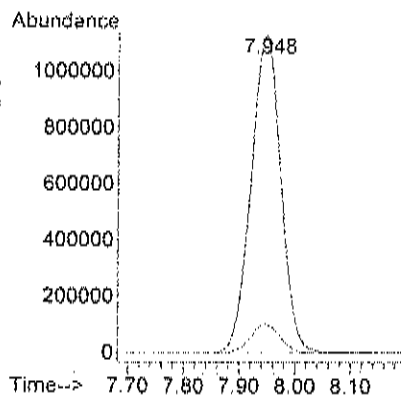
#21
Methylene chloride
Concen: 0.48 ppb
RT: 7.773 min Scan# 606
Delta R.T. -0.000 min
Lab File: AU070706.D
Acq: 7 Jul 2023 11:03 am

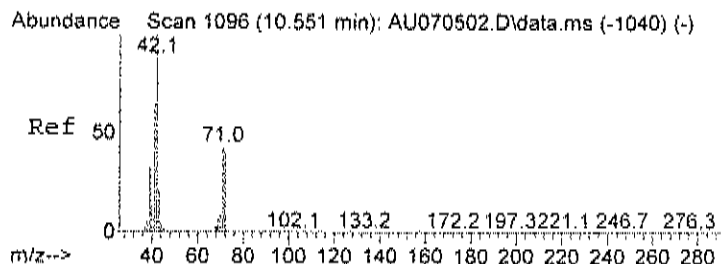
Tgt Ion	Ratio	Lower	Upper
84	100		
49	129.7	93.0	133.0
86	65.5	43.7	83.7



#23
Carbon disulfide
Concen: 16.79 ppb
RT: 7.948 min Scan# 637
Delta R.T. -0.000 min
Lab File: AU070706.D
Acq: 7 Jul 2023 11:03 am

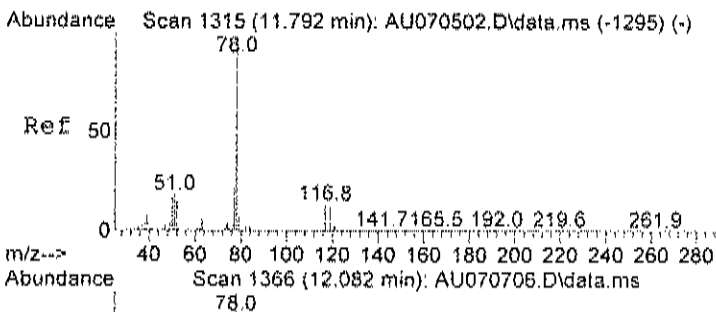
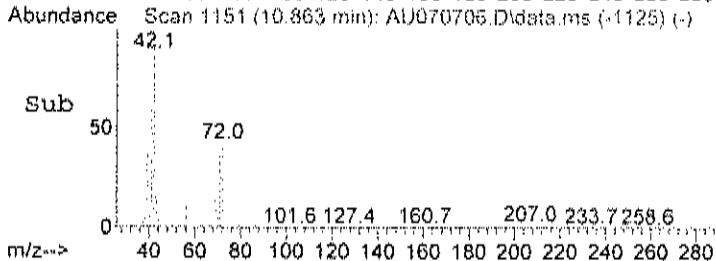
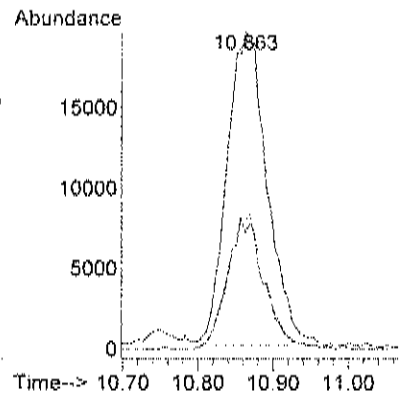
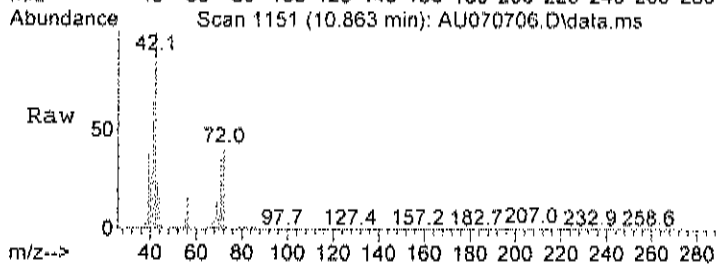
Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.0	0.0	29.3





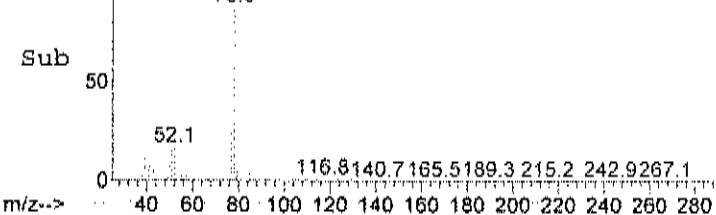
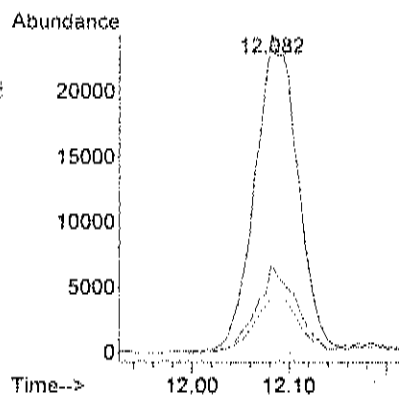
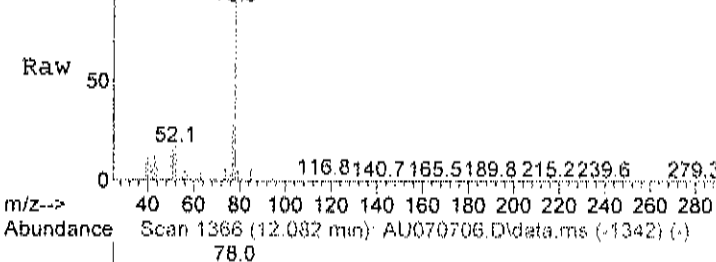
#33
Tetrahydrofuran
Concen: 0.77 ppb
RT: 10.863 min Scan# 1151
Delta R.T. -0.000 min
Lab File: AU070706.D
Acq: 7 Jul 2023 11:03 am

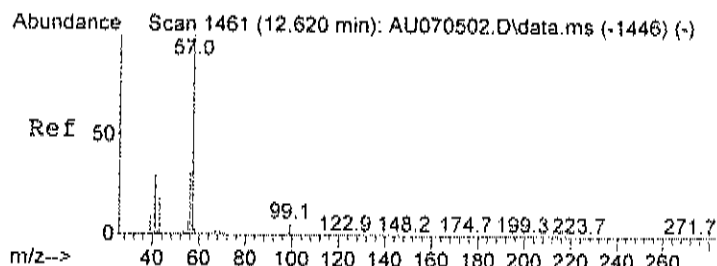
Tgt Ion	42	Resp	72757
Ion Ratio	Lower	Upper	
42	100		
71	38.3	27.1	67.1
72	40.6	30.8	70.8



#39
Benzene
Concen: 0.39 ppb m
RT: 12.082 min Scan# 1366
Delta R.T. -0.011 min
Lab File: AU070706.D
Acq: 7 Jul 2023 11:03 am

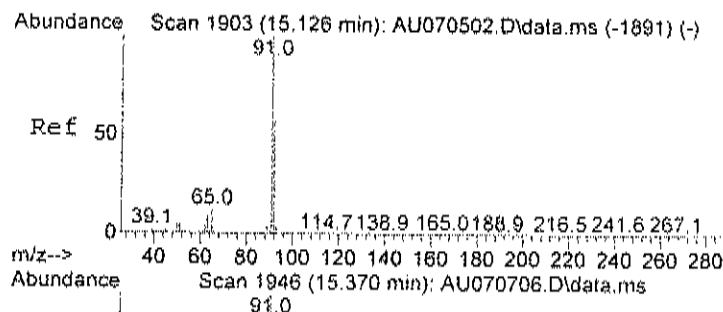
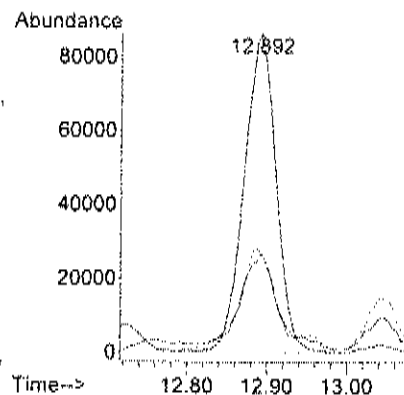
Tgt Ion	78	Resp	74235
Ion Ratio	Lower	Upper	
78	100		
77	28.7	3.8	43.8
51	21.2	0.0	35.4





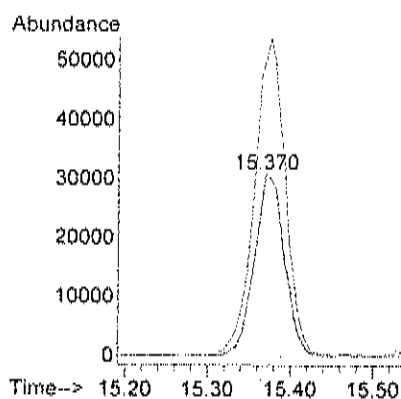
#42
2,2,4-trimethylpentane
Concen: 0.73 ppb
RT: 12.892 min Scan# 1509
Delta R.T. -0.000 min
Lab File: AU070706.D
Acq: 7 Jul 2023 11:03 am

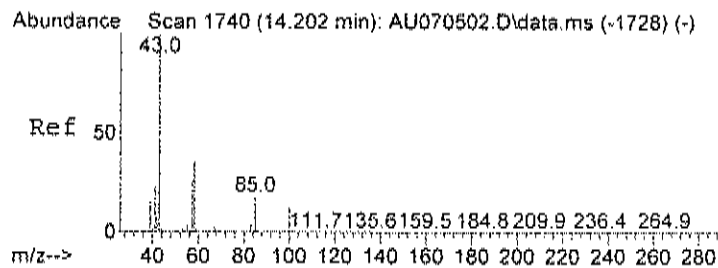
Tgt Ion	Ratio	Lower	Upper
57	100		
41	34.9	1.7	41.7
56	41.8	10.7	50.7



#51
Toluene
Concen: 0.48 ppb
RT: 15.370 min Scan# 1946
Delta R.T. -0.006 min
Lab File: AU070706.D
Acq: 7 Jul 2023 11:03 am

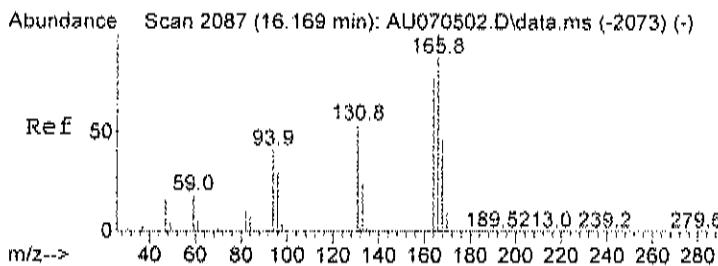
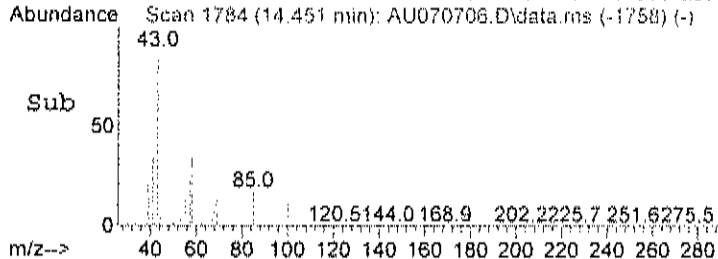
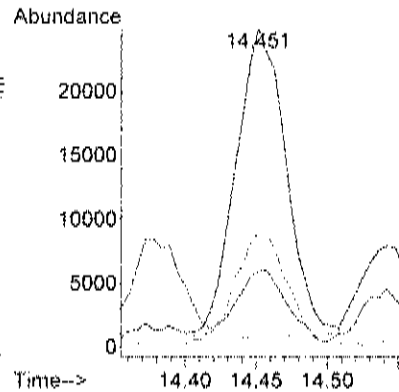
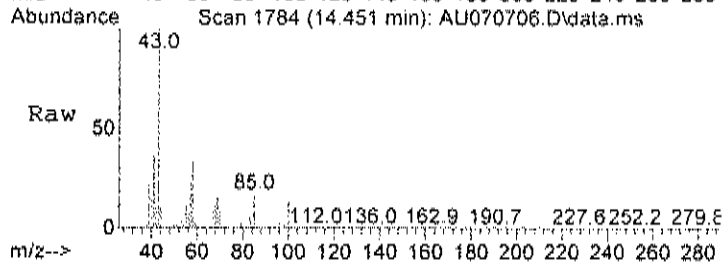
Tgt Ion	Ratio	Lower	Upper
92	100		
91	181.6	150.4	190.4





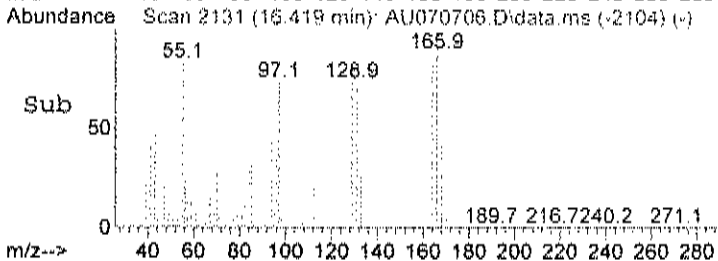
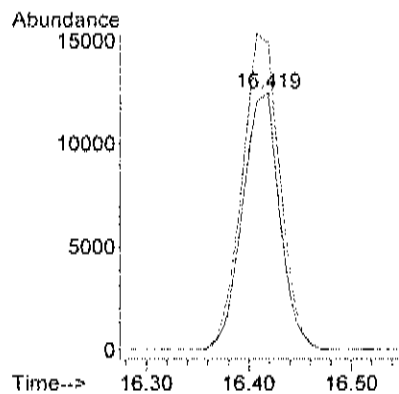
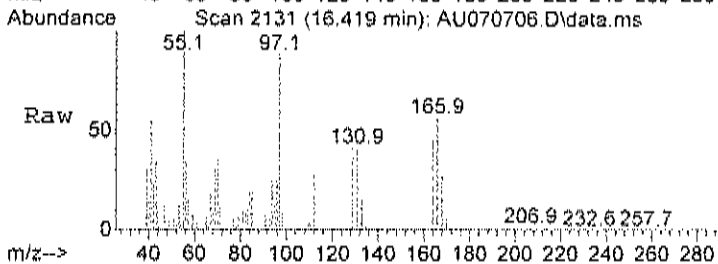
#52
Methyl Isobutyl Ketone
Concen: 0.26 ppb
RT: 14.451 min Scan# 1784
Delta R.T. -0.000 min
Lab File: AU070706.D
Acq: 7 Jul 2023 11:03 am

Tgt Ion	43	Resp	59417
Ion Ratio	Lower	Upper	
43	100		
57	21.9	7.9	47.9
58	39.8	24.7	64.7



#56
Tetrachloroethylene
Concen: 0.34 ppb
RT: 16.419 min Scan# 2131
Delta R.T. 0.006 min
Lab File: AU070706.D
Acq: 7 Jul 2023 11:03 am

Tgt Ion	164	Resp	31610
Ion Ratio	Lower	Upper	
164	100		
166	125.1	107.9	147.9



Data Path : C:\msdchem\1\data\
Data File : AU070707.D
Acq On : 7 Jul 2023 11:46 am
Operator : RJP
Sample : C2307002-013A 90X
Misc : A629_1UG
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 11:11:45 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

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

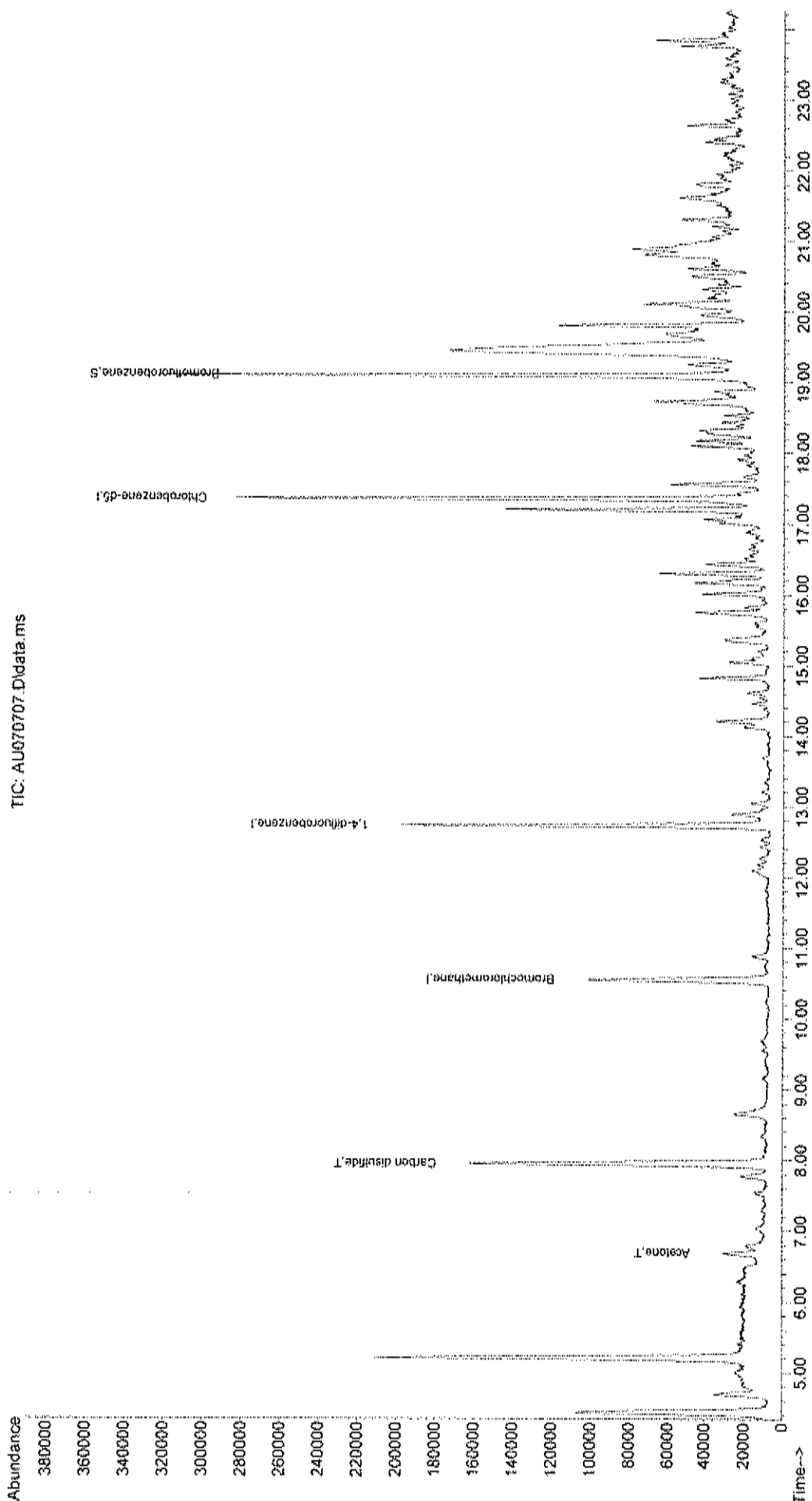
Internal Standards						
1) Bromochloromethane	10.551	128	48542	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.728	114	216186	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	204938	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	133503	0.86	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	86.00%
Target Compounds						Qvalue
15) Acetone	6.684	58	14582m	0.25	ppb	
23) Carbon disulfide	7.949	76	433441	1.70	ppb	100

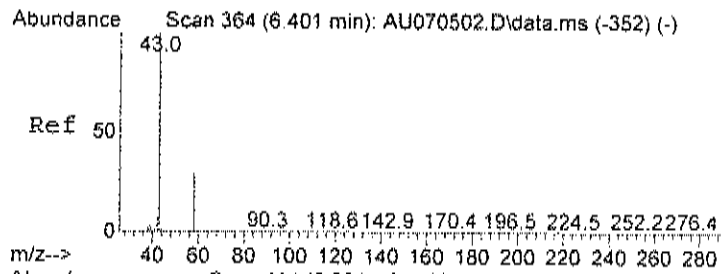
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : AU070707.D
 Acq On : 7 Jul 2023 11:46 am
 Operator : RJP
 Sample : C2307002-013A 90X
 Misc : A629 1UG
 ALS Vial : 7 Sample Multiplier: 1

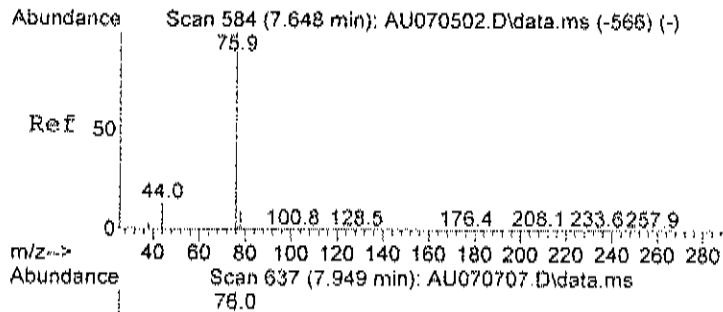
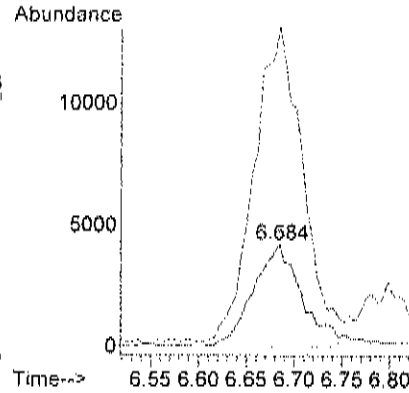
Quant Time: Jul 08 11:11:45 2023
 Quant Method : C:\msdchem\1\methods\A629 1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





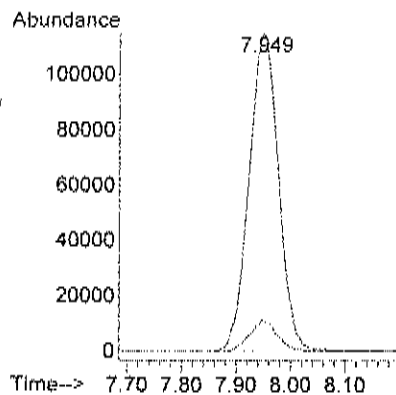
#15
Acetone
Concen: 0.25 ppb m
RT: 6.684 min Scan# 414
Delta R.T. 0.017 min
Lab File: AU070707.D
Acq: 7 Jul 2023 11:46 am

Tgt Ion: 58 Resp: 14582
Ion Ratio Lower Upper
58 100
43 344.3 224.5 284.5#



#23
Carbon disulfide
Concen: 1.70 ppb
RT: 7.949 min Scan# 637
Delta R.T. 0.000 min
Lab File: AU070707.D
Acq: 7 Jul 2023 11:46 am

Tgt Ion: 76 Resp: 433441
Ion Ratio Lower Upper
76 100
78 9.2 0.0 29.3



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-13

Lab Order: C2307002

Tag Number: 128.250

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-014A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-1			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	3.2	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,1,1-Trichloroethane	4.0	1.5		ppbV	10	7/7/2023 12:30:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 5:02:00 AM
2,2,4-trimethylpentane	2.8	1.5		ppbV	10	7/7/2023 12:30:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Acetone	18	12		ppbV	40	7/7/2023 1:42:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Benzene	14	1.5		ppbV	10	7/7/2023 12:30:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Carbon disulfide	0.90	0.15		ppbV	1	7/6/2023 5:02:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Chloroethane	0.99	0.15		ppbV	1	7/6/2023 5:02:00 AM
Chloroform	0.32	0.15		ppbV	1	7/6/2023 5:02:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
cis-1,2-Dichloroethene	0.42	0.15		ppbV	1	7/6/2023 5:02:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-014A

Client Sample ID: SVW-13
 Tag Number: 128,250
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Cyclohexane	16	1.5		ppbV	10	7/7/2023 12:30:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Ethyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Ethylbenzene	0.11	0.15	J	ppbV	1	7/6/2023 5:02:00 AM
Freon 11	1.7	0.15		ppbV	1	7/6/2023 5:02:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Freon 12	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Heptane	4.7	1.5		ppbV	10	7/7/2023 12:30:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Hexane	32	6.0		ppbV	40	7/7/2023 1:42:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
m&p-Xylene	0.26	0.30	J	ppbV	1	7/6/2023 5:02:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 5:02:00 AM
Methyl Ethyl Ketone	4.6	3.0		ppbV	10	7/7/2023 12:30:00 PM
Methyl Isobutyl Ketone	0.24	0.30	J	ppbV	1	7/6/2023 5:02:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
o-Xylene	0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Styrene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Tetrachloroethylene	3.7	1.5		ppbV	10	7/7/2023 12:30:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Toluene	1.3	0.15		ppbV	1	7/6/2023 5:02:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Trichloroethene	2.3	1.5		ppbV	10	7/7/2023 12:30:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 5:02:00 AM
Surr: Bromofluorobenzene	111	70-130		%REC	1	7/6/2023 5:02:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 28 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-014A

Client Sample ID: SVW-13
 Tag Number: 128,250
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	18	0.82		ug/m3	1	7/6/2023 5:02:00 AM
1,1,1-Trichloroethane	22	8.2		ug/m3	10	7/7/2023 12:30:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 5:02:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 5:02:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 5:02:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 5:02:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 5:02:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 5:02:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 5:02:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 5:02:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 5:02:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 5:02:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 5:02:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 5:02:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 5:02:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 5:02:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 5:02:00 AM
2,2,4-trimethylpentane	13	7.0		ug/m3	10	7/7/2023 12:30:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 5:02:00 AM
Acetone	44	28		ug/m3	40	7/7/2023 1:42:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 5:02:00 AM
Benzene	44	4.8		ug/m3	10	7/7/2023 12:30:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 5:02:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 5:02:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 5:02:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 5:02:00 AM
Carbon disulfide	2.8	0.47		ug/m3	1	7/6/2023 5:02:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 5:02:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 5:02:00 AM
Chloroethane	2.6	0.40		ug/m3	1	7/6/2023 5:02:00 AM
Chloroform	1.6	0.73		ug/m3	1	7/6/2023 5:02:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	7/6/2023 5:02:00 AM
cis-1,2-Dichloroethene	1.7	0.59		ug/m3	1	7/6/2023 5:02:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 5:02:00 AM
Cyclohexane	56	5.2		ug/m3	10	7/7/2023 12:30:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 5:02:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	7/6/2023 5:02:00 AM
Ethylbenzene	0.48	0.65	J	ug/m3	1	7/6/2023 5:02:00 AM
Freon 11	9.3	0.84		ug/m3	1	7/6/2023 5:02:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 5:02:00 AM

Qualifiers: . Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 27 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-13

Lab Order: C2307002

Tag Number: 128,250

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-014A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 5:02:00 AM
Freon 12	< 0.74	0.74		ug/m3	1	7/6/2023 5:02:00 AM
Heptane	19	6.1		ug/m3	10	7/7/2023 12:30:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 5:02:00 AM
Hexane	110	21		ug/m3	40	7/7/2023 1:42:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	7/6/2023 5:02:00 AM
m&p-Xylene	1.1	1.3	J	ug/m3	1	7/6/2023 5:02:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 5:02:00 AM
Methyl Ethyl Ketone	14	8.8		ug/m3	10	7/7/2023 12:30:00 PM
Methyl Isobutyl Ketone	0.98	1.2	J	ug/m3	1	7/6/2023 5:02:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 5:02:00 AM
Methylene chloride	< 0.52	0.52		ug/m3	1	7/6/2023 5:02:00 AM
o-Xylene	0.65	0.65		ug/m3	1	7/6/2023 5:02:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 5:02:00 AM
Styrene	< 0.64	0.64		ug/m3	1	7/6/2023 5:02:00 AM
Tetrachloroethylene	25	10		ug/m3	10	7/7/2023 12:30:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/6/2023 5:02:00 AM
Toluene	5.0	0.57		ug/m3	1	7/6/2023 5:02:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 5:02:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 5:02:00 AM
Trichloroethene	12	8.1		ug/m3	10	7/7/2023 12:30:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 5:02:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 5:02:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 5:02:00 AM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 28 of 40

Data Path : C:\msdchem\1\data\
 Data File : AU070531.D
 Acq On : 6 Jul 2023 5:02 am
 Operator : RJP
 Sample : C2307002-014A
 Misc : A629_1UG
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 06 07:55:51 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

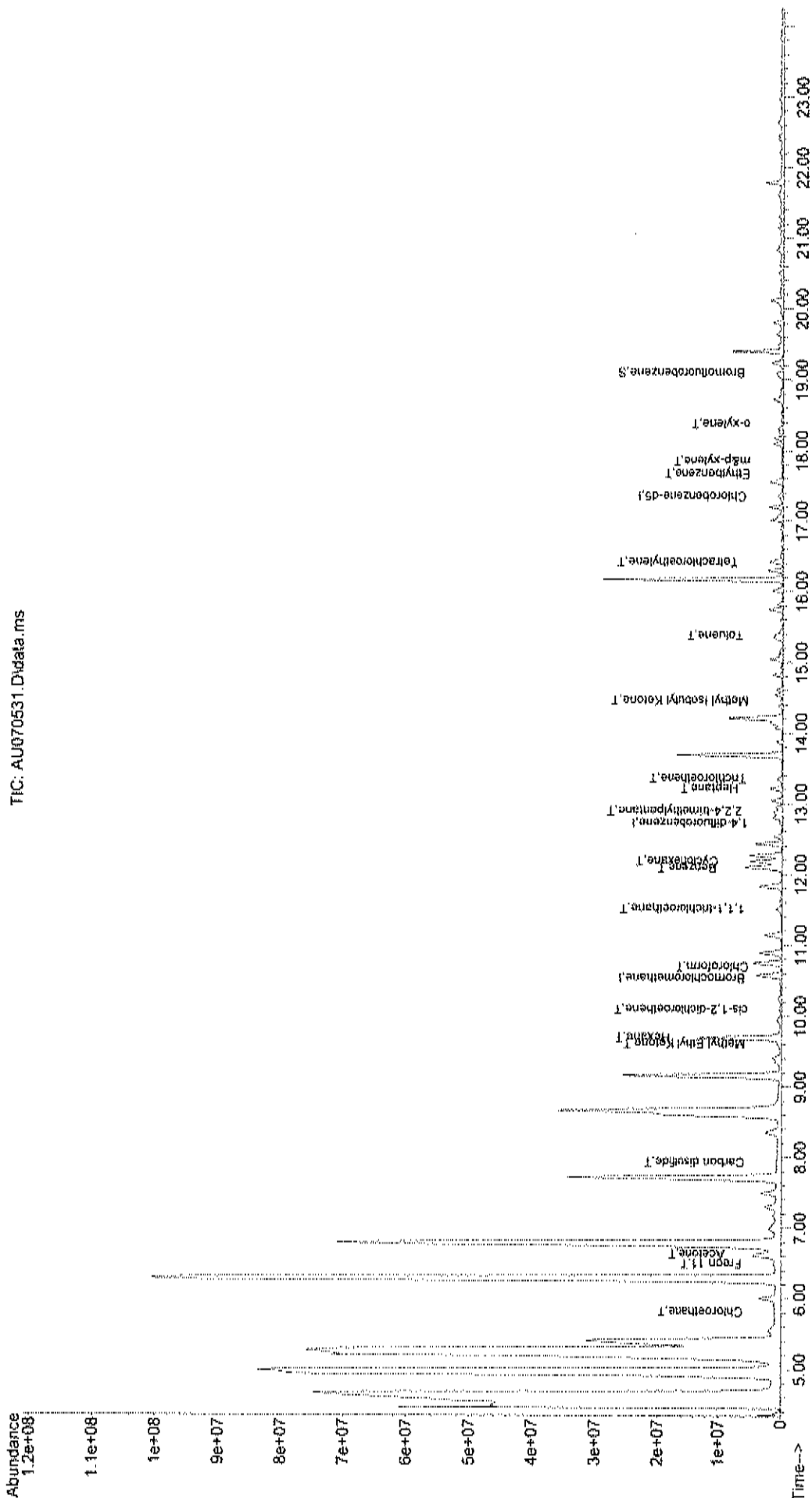
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

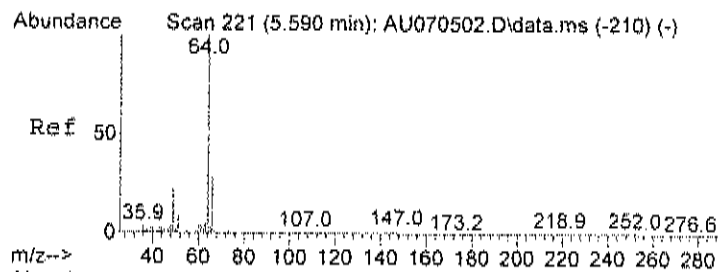
Internal Standards						
1) Bromochloromethane	10.534	128	82406	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	443974	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	384599	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	322305	1.11	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	111.00%
Target Compounds						
						Qvalue
10) Chloroethane	5.817	64	55761	0.99	ppb	96
14) Freon 11	6.497	101	563922	1.66	ppb	99
15) Acetone	6.633	58	1735585m	17.84	ppb	
23) Carbon disulfide	7.931	76	391045	0.90	ppb	100
28) Methyl Ethyl Ketone	9.610	72	402881	5.19	ppb	# 1
29) cis-1,2-dichloroethene	10.092	61	80147	0.42	ppb	96
30) Hexane	9.695	57	10738971	43.76	ppb	89
32) Chloroform	10.693	83	86278	0.32	ppb	# 18
36) 1,1,1-trichloroethane	11.509	97	842535	3.24	ppb	99
37) Cyclohexane	12.178	56	3092245	15.04	ppb	# 71
39) Benzene	12.087	78	4874564	12.94	ppb	96
42) 2,2,4-trimethylpentane	12.892	57	1788630	2.75	ppb	# 2
43) Heptane	13.216	43	1130670	4.53	ppb	89
44) Trichloroethene	13.352	130	361726	2.19	ppb	97
51) Toluene	15.376	92	359542	1.33	ppb	99
52) Methyl Isobutyl Ketone	14.452	43	91167	0.24	ppb	# 72
56) Tetrachloroethylene	16.413	164	577102	3.77	ppb	100
58) Ethylbenzene	17.666	91	64599	0.11	ppb	97
59) m&p-xylene	17.853	91	120541m	0.26	ppb	
63) o-xylene	18.375	91	71685	0.15	ppb	97

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

Data Path : C:\msdchem\1\data\
 Data File : AU070531.D
 Acq On : 6 Jul 2023 5:02 am
 Operator : RJP
 Sample : C2307002-014A
 Misc : A629 IUG
 ALS Vial : 19 Sample Multiplier: 1

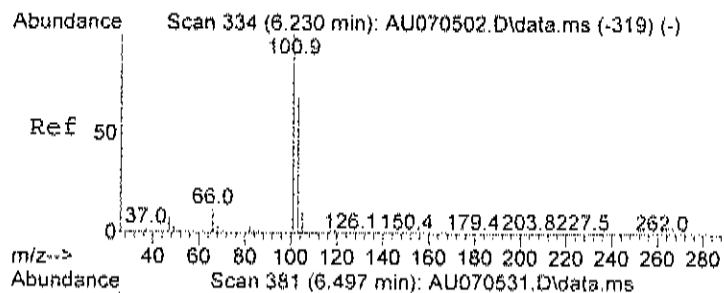
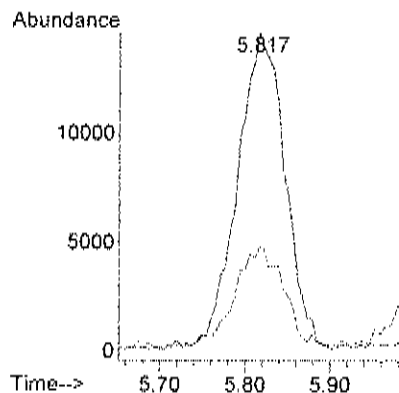
Quant Time: Jul 06 07:55:51 2023
 Quant Method : C:\msdchem\1\methods\A629_IUG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





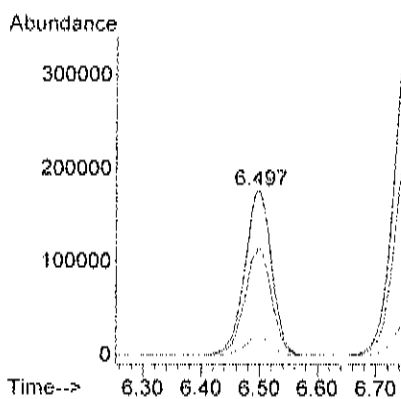
#10
Chloroethane
Concen: 0.99 ppb
RT: 5.817 min Scan# 261
Delta R.T. -0.034 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

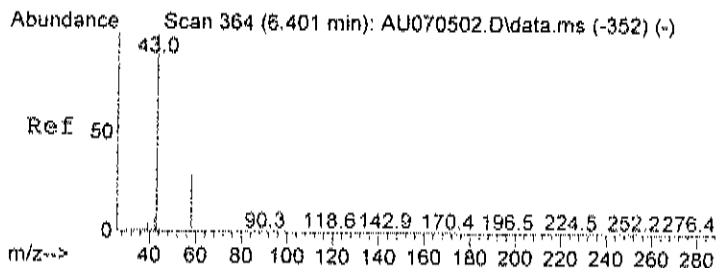
Tgt Ion	Ratio	Lower	Upper
64	100		
66	32.6	28.2	42.2



#14
Freon 11
Concen: 1.66 ppb
RT: 6.497 min Scan# 381
Delta R.T. -0.006 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

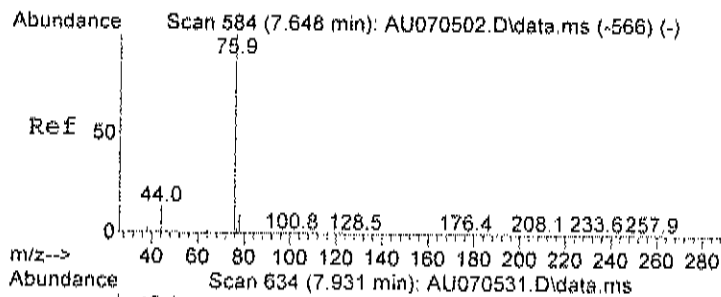
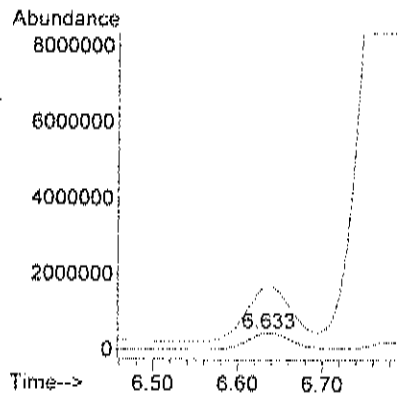
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.0	44.0	84.0
105	10.9	0.0	31.4





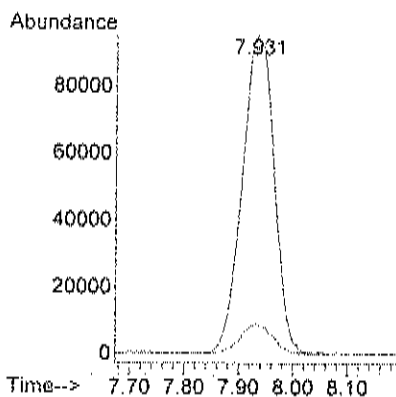
#15
Acetone
Concen: 17.84 ppb m
RT: 6.633 min Scan# 405
Delta R.T. -0.034 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

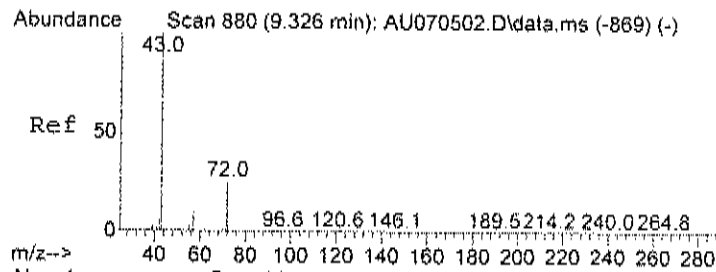
Tgt Ion: 58 Resp: 1735585
Ion Ratio Lower Upper
58 100
43 323.5 224.5 284.5#



#23
Carbon disulfide
Concen: 0.90 ppb
RT: 7.931 min Scan# 634
Delta R.T. -0.017 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

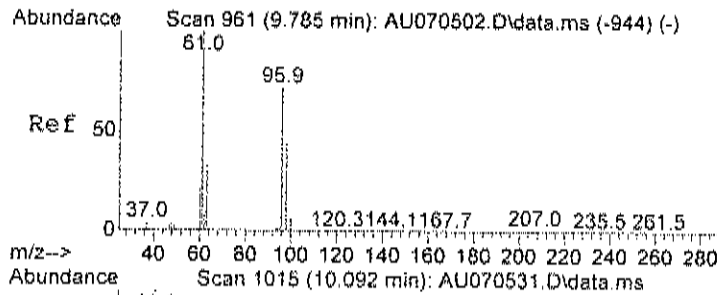
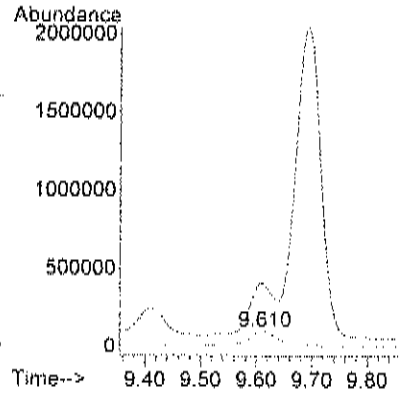
Tgt Ion: 76 Resp: 391045
Ion Ratio Lower Upper
76 100
78 9.4 0.0 29.3





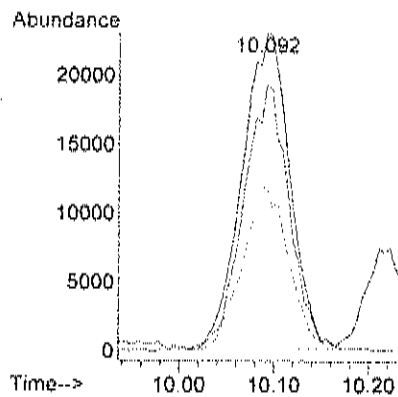
#28
Methyl Ethyl Ketone
Concen: 5.19 ppb
RT: 9.610 min Scan# 930
Delta R.T. -0.017 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

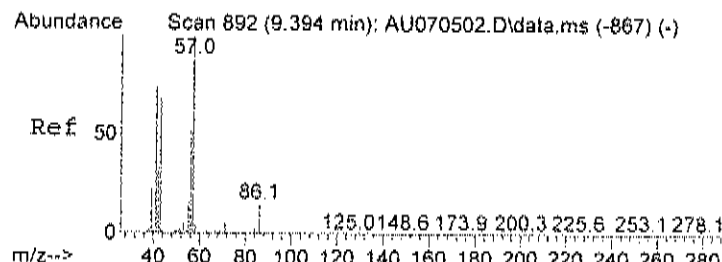
Tgt Ion	Ratio	Lower	Upper
72	100		
43	0.0	389.0	429.0#
72	100.0	80.0	120.0



#29
cis-1,2-dichloroethene
Concen: 0.42 ppb
RT: 10.092 min Scan# 1015
Delta R.T. -0.006 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

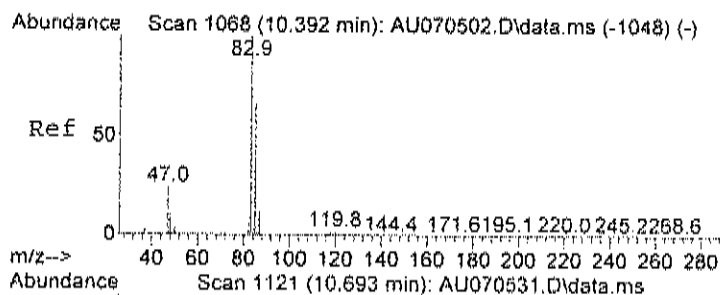
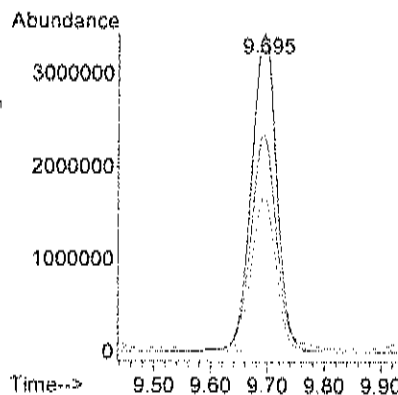
Tgt Ion	Ratio	Lower	Upper
61	100		
96	81.3	64.4	104.4
98	51.8	34.6	74.6





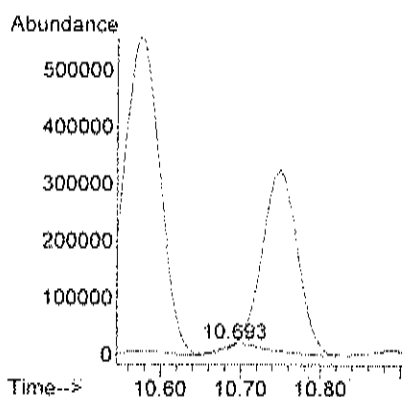
#30
Hexane
Concen: 43.76 ppb
RT: 9.695 min Scan# 945
Delta R.T. 0.000 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

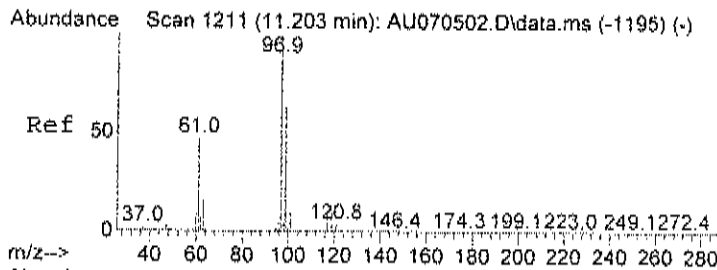
Tgt Ion: 57 Resp: 10738971
Ion Ratio Lower Upper
57 100
41 68.1 37.3 77.3
56 48.4 24.8 64.8



#32
Chloroform
Concen: 0.32 ppb
RT: 10.693 min Scan# 1121
Delta R.T. -0.006 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

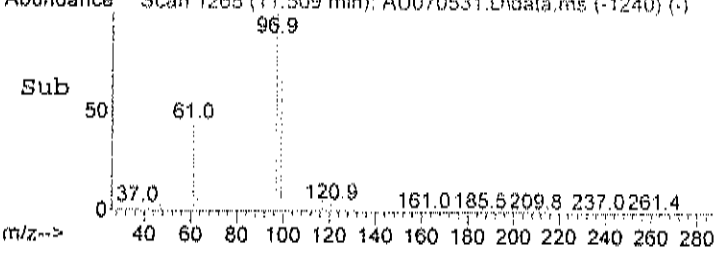
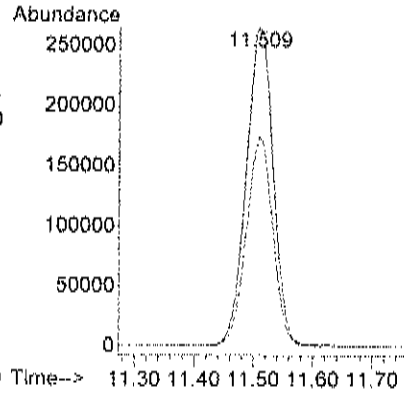
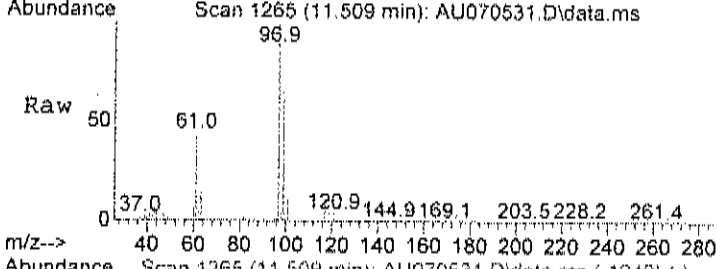
Tgt Ion: 83 Resp: 86278
Ion Ratio Lower Upper
83 100
85 0.0 44.6 84.6#





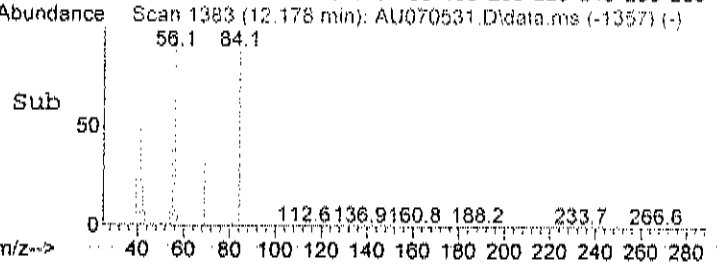
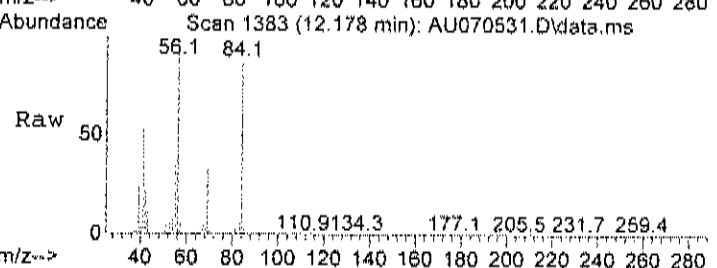
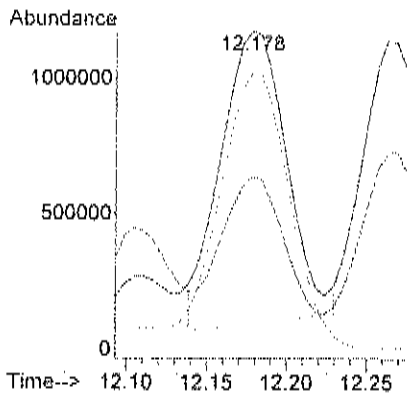
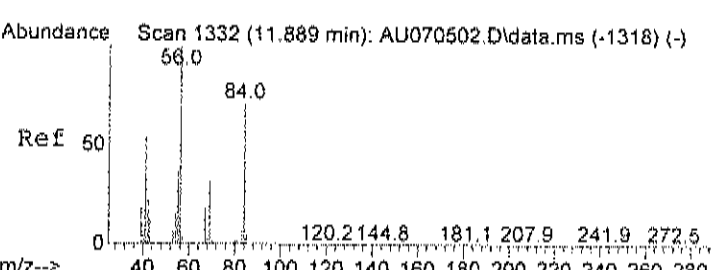
#36
1,1,1-trichloroethane
Concen: 3.24 ppb
RT: 11.509 min Scan# 1265
Delta R.T. -0.006 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

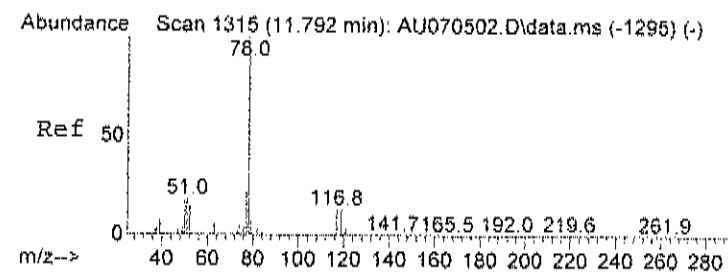
Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	44.8	84.8



#37
Cyclohexane
Concen: 15.04 ppb
RT: 12.178 min Scan# 1383
Delta R.T. 0.000 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

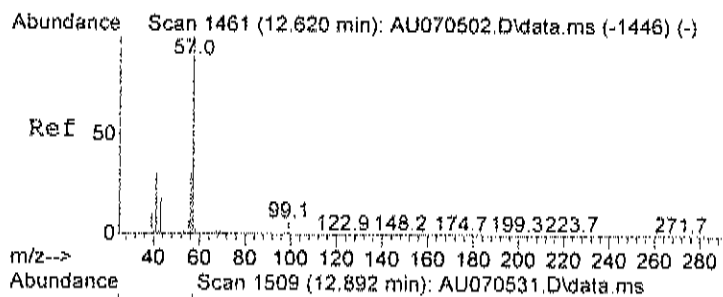
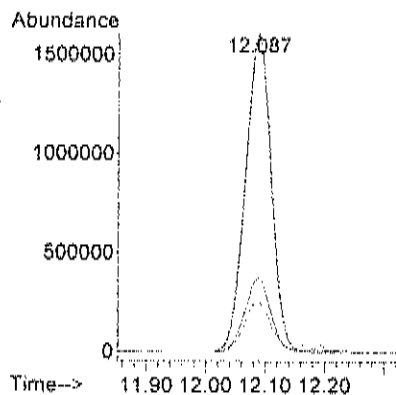
Tgt Ion	Ratio	Lower	Upper
56	100		
41	104.1	28.1	68.1#
84	100.3	85.3	125.3





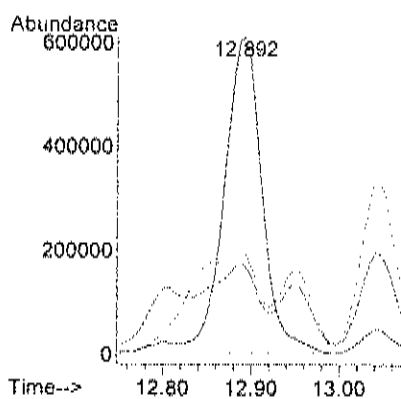
#39
Benzene
Concen: 12.94 ppb
RT: 12.087 min Scan# 1367
Delta R.T. -0.006 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

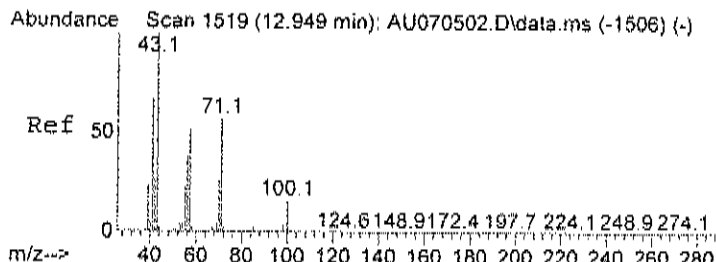
Tgt Ion:	78	Resp:	4874564
Ion	Ratio	Lower	Upper
78	100		
77	24.3	3.8	43.8
51	19.2	0.0	35.4



#42
2,2,4-trimethylpentane
Concen: 2.75 ppb
RT: 12.892 min Scan# 1509
Delta R.T. 0.000 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

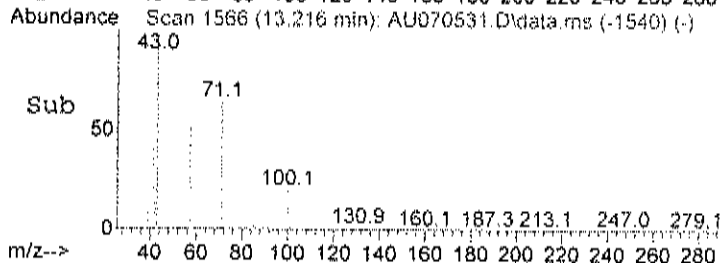
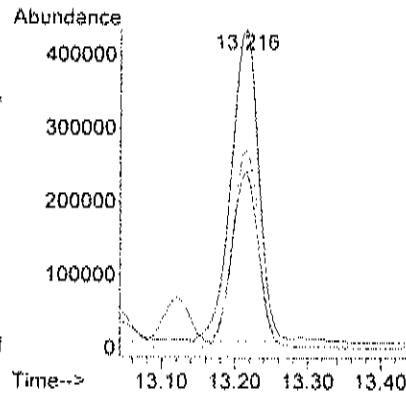
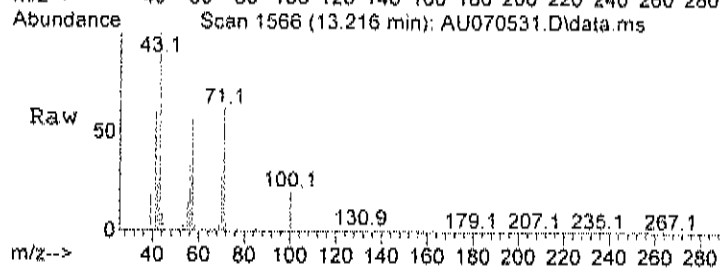
Tgt Ion:	57	Resp:	1788630
Ion	Ratio	Lower	Upper
57	100		
41	69.4	1.7	41.7#
56	83.5	10.7	50.7#





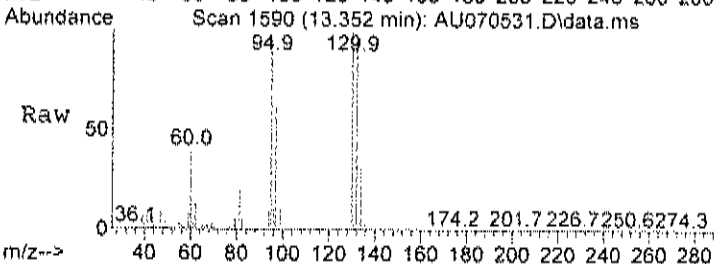
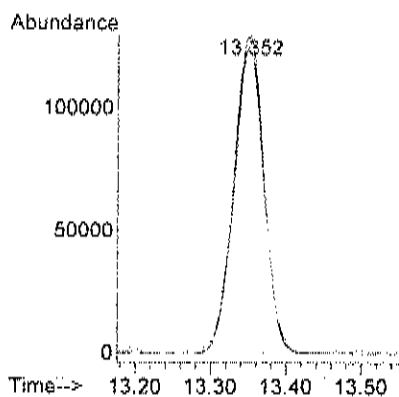
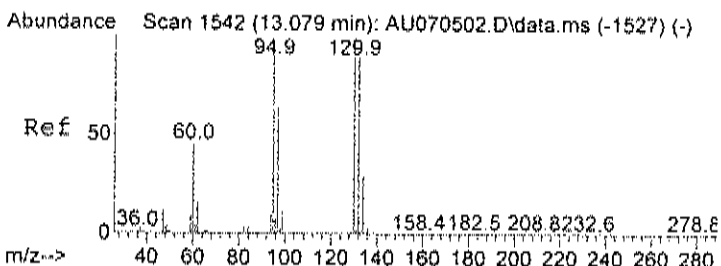
#43
Heptane
Concen: 4.53 ppb
RT: 13.216 min Scan# 1566
Delta R.T. 0.000 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

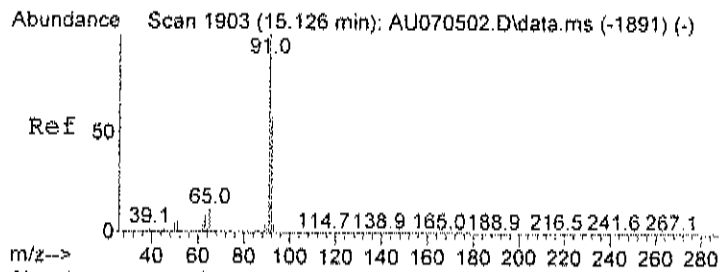
Tgt Ion	Ratio	Lower	Upper
43	100		
57	54.2	40.9	80.9
71	60.3	51.1	91.1



#44
Trichloroethene
Concen: 2.19 ppb
RT: 13.352 min Scan# 1590
Delta R.T. 0.006 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

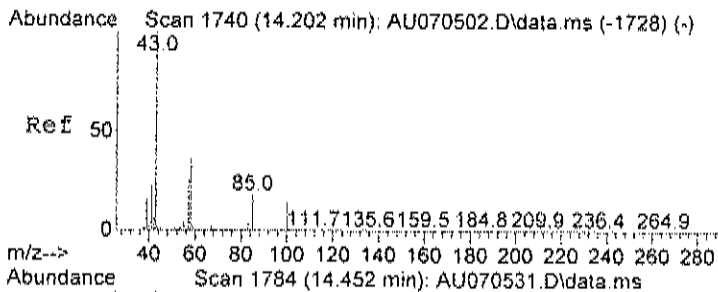
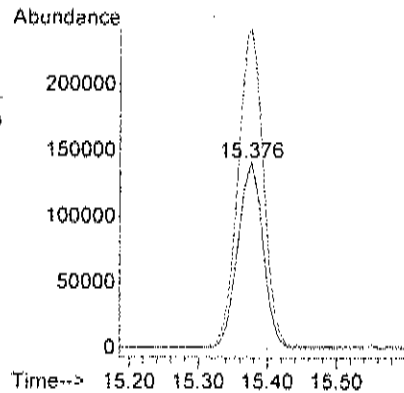
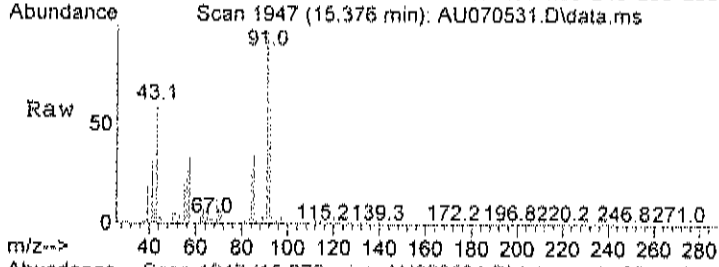
Tgt Ion	Ratio	Lower	Upper
130	100		
132	95.7	76.3	116.3
95	98.0	72.9	112.9





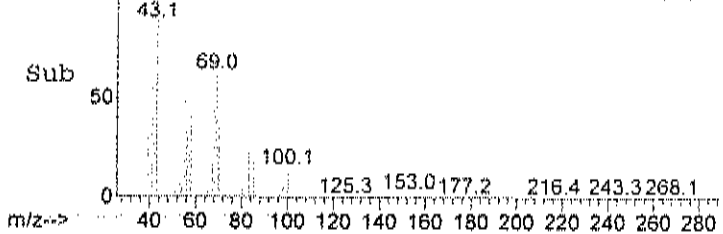
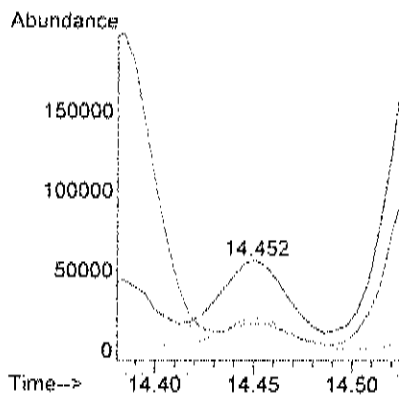
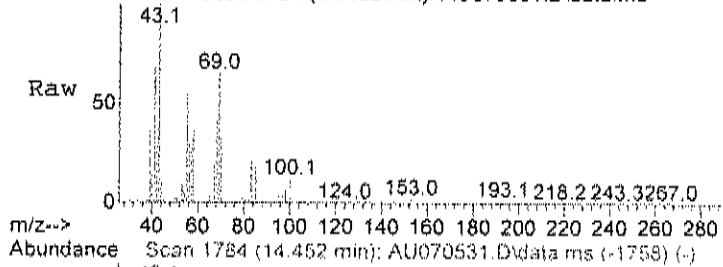
#51
Toluene
Concen: 1.33 ppb
RT: 15.376 min Scan# 1947
Delta R.T. 0.000 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

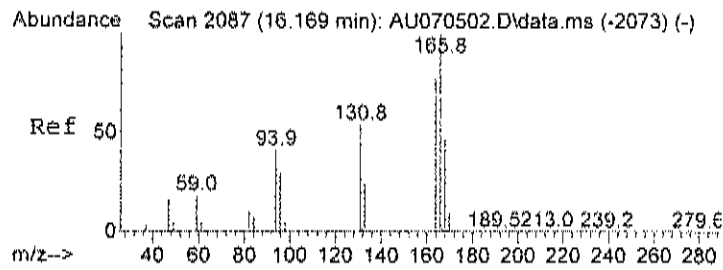
Tgt Ion	Ratio	Lower	Upper
92	100		
91	172.0	150.4	190.4



#52
Methyl Isobutyl Ketone
Concen: 0.24 ppb
RT: 14.452 min Scan# 1784
Delta R.T. 0.000 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

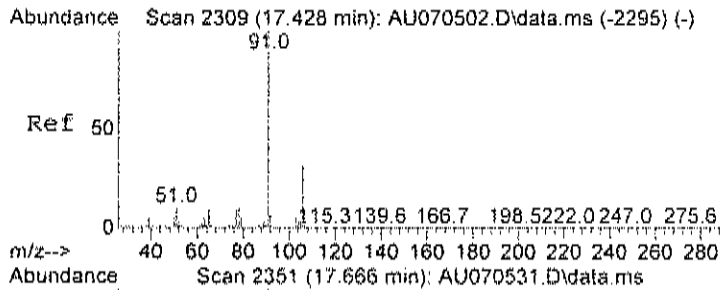
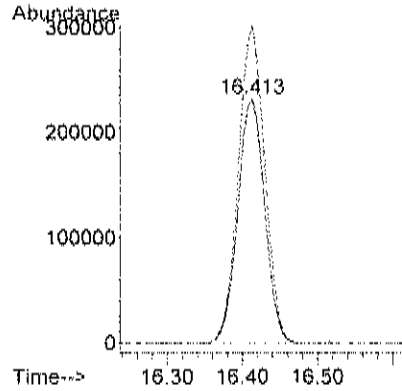
Tgt Ion	Ratio	Lower	Upper
43	100		
57	0.0	7.9	47.9#
58	52.5	24.7	64.7





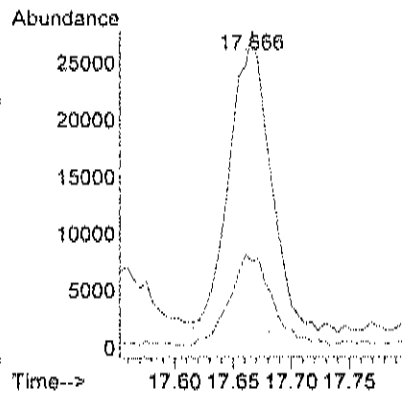
#56
Tetrachloroethylene
Concen: 3.77 ppb
RT: 16.413 min Scan# 2130
Delta R.T. 0.000 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

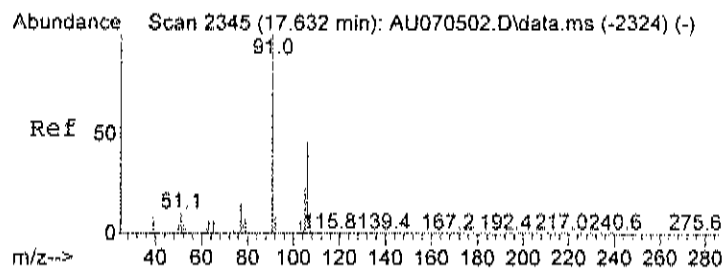
Tgt Ion: 164 Resp: 577102
Ion Ratio Lower Upper
164 100
166 128.0 107.9 147.9



#58
Ethylbenzene
Concen: 0.11 ppb
RT: 17.666 min Scan# 2351
Delta R.T. 0.006 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

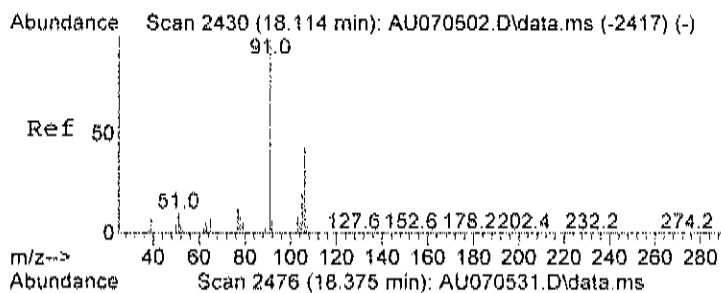
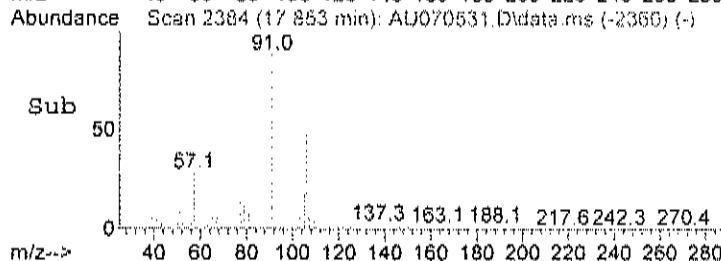
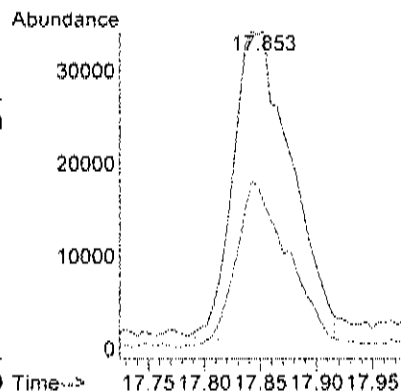
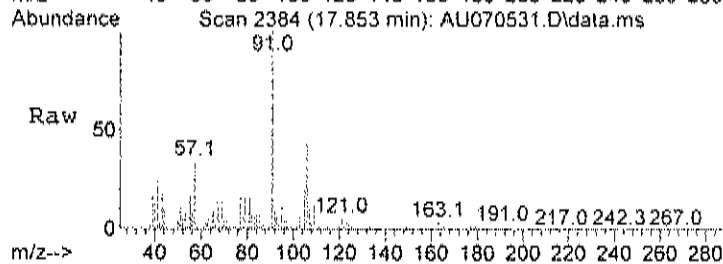
Tgt Ion: 91 Resp: 64599
Ion Ratio Lower Upper
91 100
106 31.2 13.1 53.1





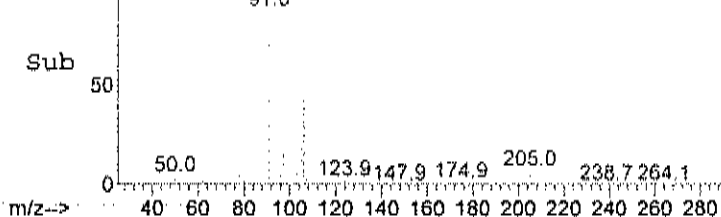
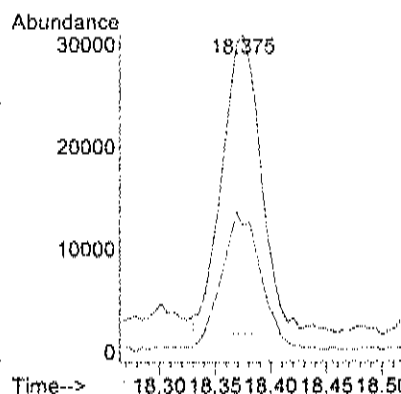
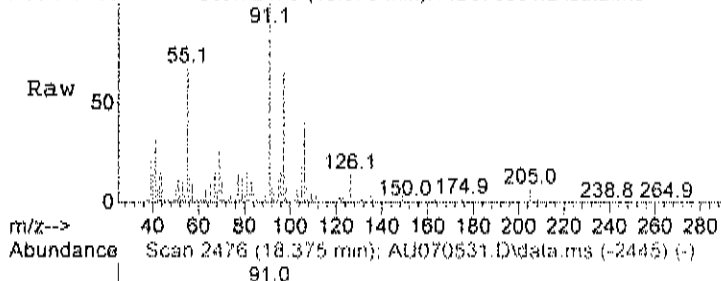
#59
m&p-xylene
Concen: 0.26 ppb m
RT: 17.853 min Scan# 2384
Delta R.T. -0.011 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

Tgt Ion	91	Resp	120541
Ion Ratio	Lower	Upper	
91	100		
106	48.8	32.1	72.1



#63
o-xylene
Concen: 0.15 ppb
RT: 18.375 min Scan# 2476
Delta R.T. 0.028 min
Lab File: AU070531.D
Acq: 6 Jul 2023 5:02 am

Tgt Ion	91	Resp	71685
Ion Ratio	Lower	Upper	
91	100		
106	50.9	29.0	69.0



Data Path : C:\msdchem\1\data\
 Data File : AU070708.D
 Acq On : 7 Jul 2023 12:30 pm
 Operator : RJP
 Sample : C2307002-014A 10X
 Misc : A629_1UG
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 08 11:11:47 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

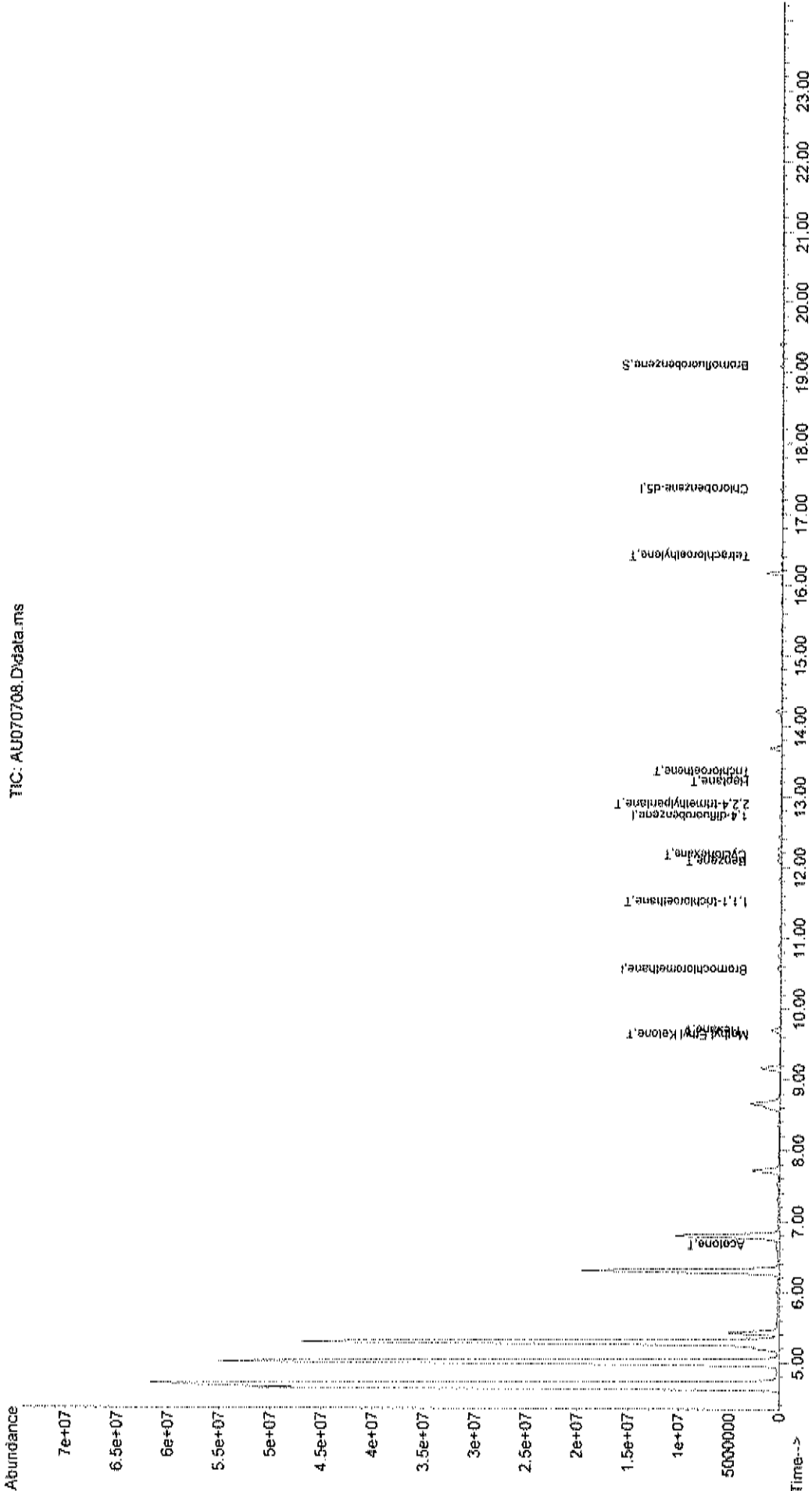
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

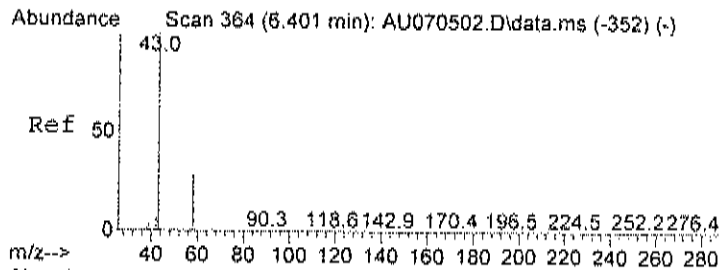
Internal Standards						
1) Bromochloromethane	10.551	128	52858	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.728	114	271706	1.00	ppb	0.00
50) Chlorobenzene-d5	17.355	117	224246	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	139308	0.82	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	82.00%
Target Compounds						
						Qvalue
15) Acetone	6.667	58	132343m	2.12	ppb	
28) Methyl Ethyl Ketone	9.632	72	22994	0.46	ppb	# 1
30) Hexane	9.695	57	697265	4.43	ppb	# 80
36) 1,1,1-trichloroethane	11.509	97	64163	0.40	ppb	99
37) Cyclohexane	12.178	56	204462	1.62	ppb	# 65
39) Benzene	12.087	78	320935m	1.39	ppb	
42) 2,2,4-trimethylpentane	12.893	57	112602	0.28	ppb	# 1
43) Heptane	13.216	43	72393	0.47	ppb	85
44) Trichloroethene	13.352	130	23000	0.23	ppb	95
56) Tetrachloroethylene	16.408	164	33146	0.37	ppb	98

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

Data Path : C:\msdchem\1\data\
Data File : AU070708.D
Acq On : 7 Jul 2023 12:30 pm
Operator : RJP
Sample : C2307002-014A 10X
Misc : A629 1UG
ALS Vial : 8 Sample Multiplier: 1

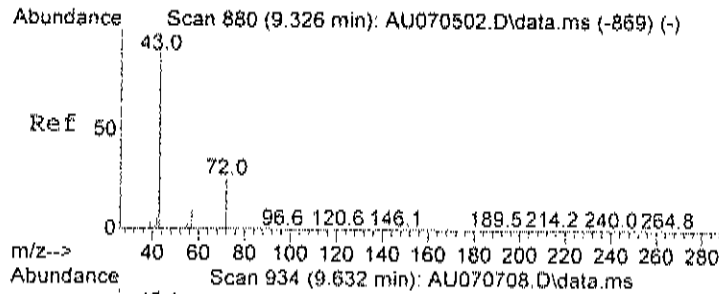
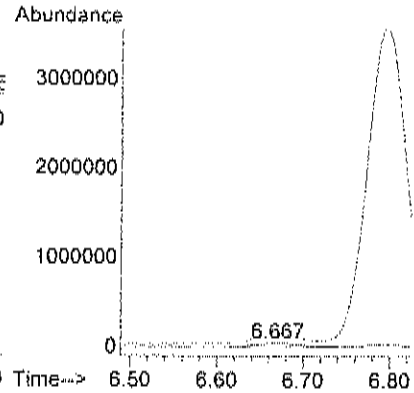
Quant Time: Jul 08 11:11:47 2023
Quant Method : C:\msdchem\1\methods\A629 1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration





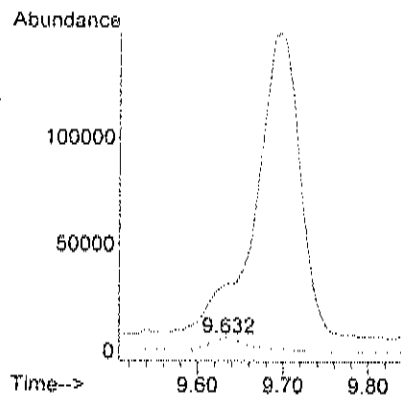
#15
Acetone
Concen: 2.12 ppb m
RT: 6.667 min Scan# 411
Delta R.T. 0.000 min
Lab File: AU070708.D
Acq: 7 Jul 2023 12:30 pm

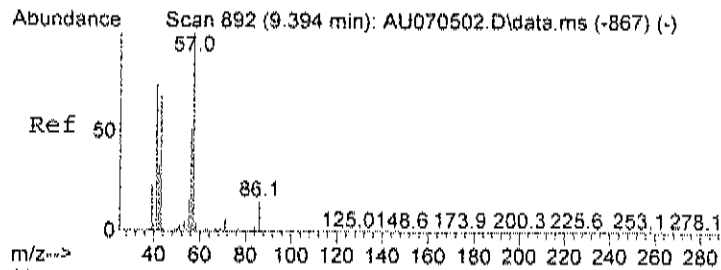
Tgt Ion: 58 Resp: 132343
Ion Ratio Lower Upper
58 100
43 326.4 224.5 284.5#



#28
Methyl Ethyl Ketone
Concen: 0.46 ppb
RT: 9.632 min Scan# 934
Delta R.T. 0.006 min
Lab File: AU070708.D
Acq: 7 Jul 2023 12:30 pm

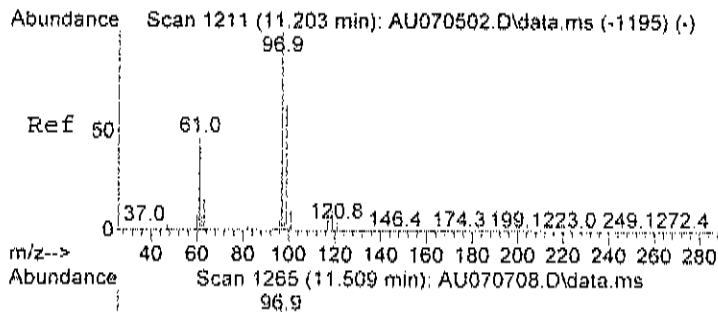
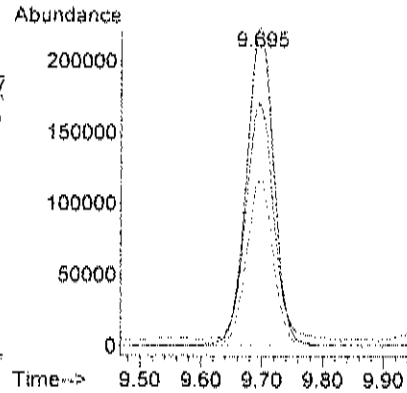
Tgt Ion: 72 Resp: 22994
Ion Ratio Lower Upper
72 100
43 0.0 389.0 429.0#
72 100.0 80.0 120.0





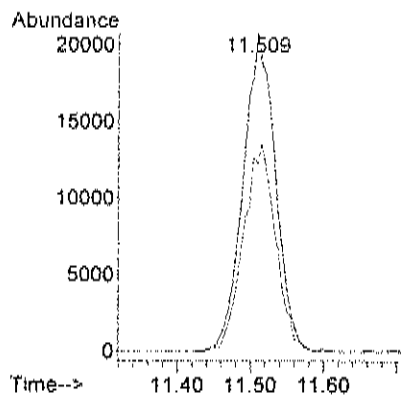
#30
Hexane
Concen: 4.43 ppb
RT: 9.695 min Scan# 945
Delta R.T. 0.000 min
Lab File: AU070708.D
Acq: 7 Jul 2023 12:30 pm

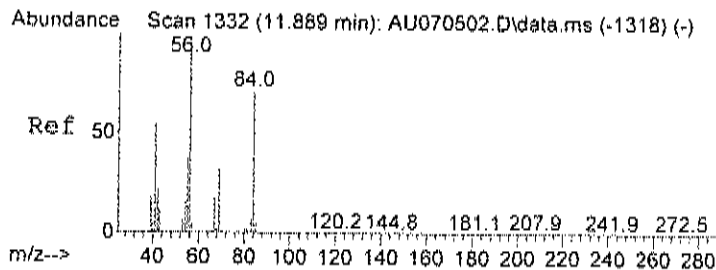
Tgt Ion:	57	Resp:	697265
Ion Ratio	Lower	Upper	
57	100		
41	77.3	37.3	77.3#
56	51.7	24.8	64.8



#36
1,1,1-trichloroethane
Concen: 0.40 ppb
RT: 11.509 min Scan# 1265
Delta R.T. -0.006 min
Lab File: AU070708.D
Acq: 7 Jul 2023 12:30 pm

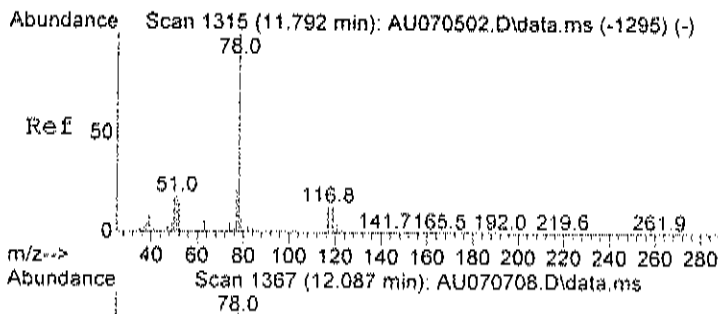
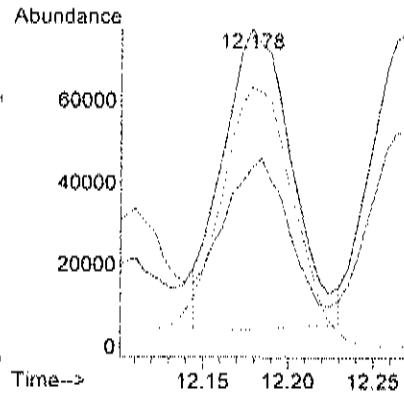
Tgt Ion:	97	Resp:	64163
Ion Ratio	Lower	Upper	
97	100		
99	65.5	44.8	84.8





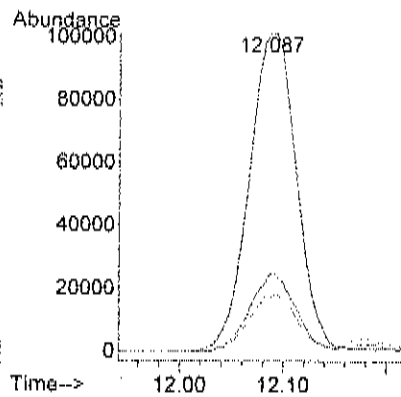
#37
Cyclohexane
Concen: 1.62 ppb
RT: 12.178 min Scan# 1383
Delta R.T. 0.000 min
Lab File: AU070708.D
Acq: 7 Jul 2023 12:30 pm

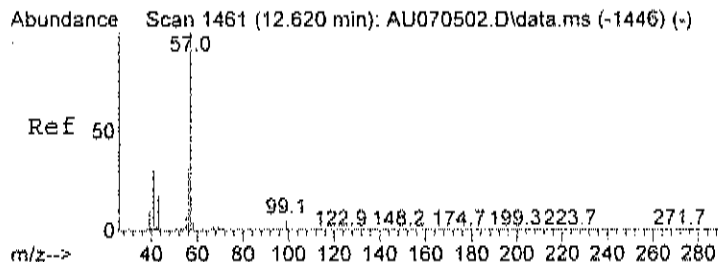
Tgt Ion	Ratio	Lower	Upper
56	100		
41	106.2	28.1	68.1#
84	93.8	85.3	125.3



#39
Benzene
Concen: 1.39 ppb m
RT: 12.087 min Scan# 1367
Delta R.T. -0.005 min
Lab File: AU070708.D
Acq: 7 Jul 2023 12:30 pm

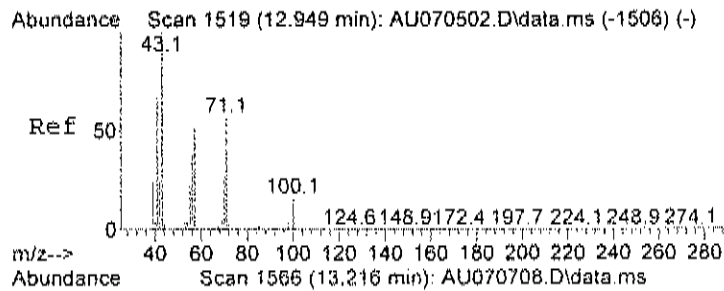
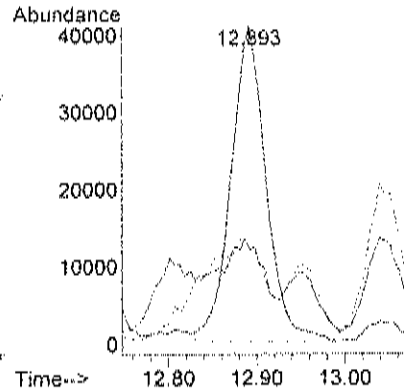
Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.2	3.8	43.8
51	22.1	0.0	35.4





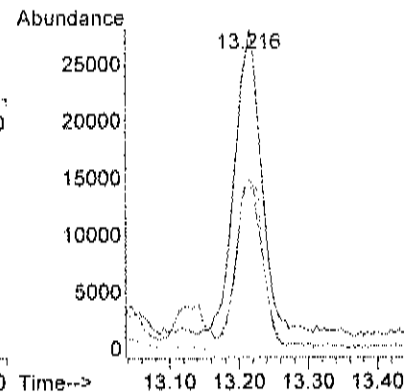
#42
2,2,4-trimethylpentane
Concen: 0.28 ppb
RT: 12.893 min Scan# 1509
Delta R.T. 0.000 min
Lab File: AU070708.D
Acq: 7 Jul 2023 12:30 pm

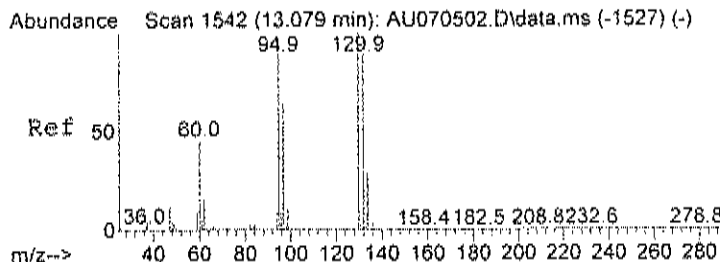
Tgt Ion	57	Resp	112602
Ion	Ratio	Lower	Upper
57	100		
41	80.4	1.7	41.7#
56	79.6	10.7	50.7#



#43
Heptane
Concen: 0.47 ppb
RT: 13.216 min Scan# 1566
Delta R.T. 0.000 min
Lab File: AU070708.D
Acq: 7 Jul 2023 12:30 pm

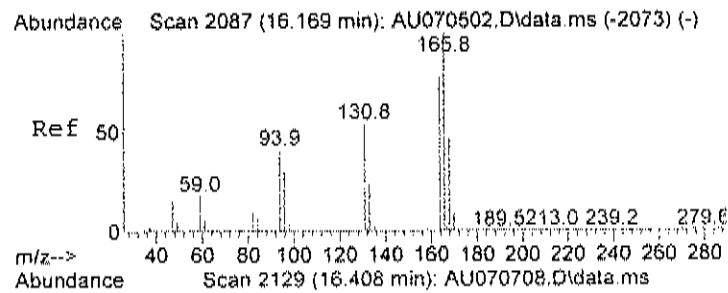
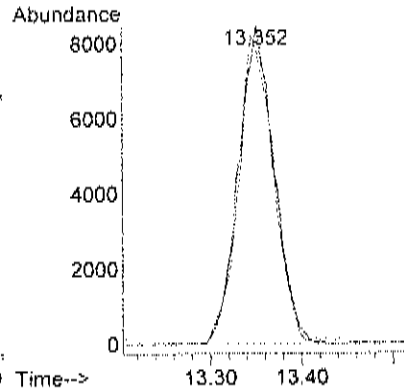
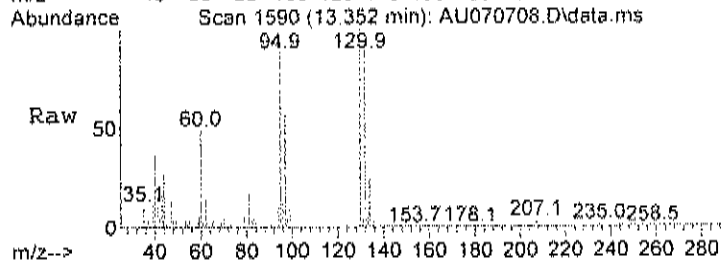
Tgt Ion	43	Resp	72393
Ion	Ratio	Lower	Upper
43	100		
57	52.7	40.9	80.9
71	55.6	51.1	91.1





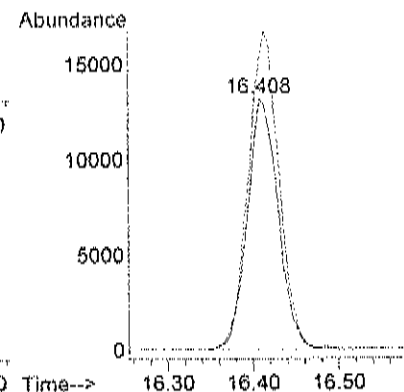
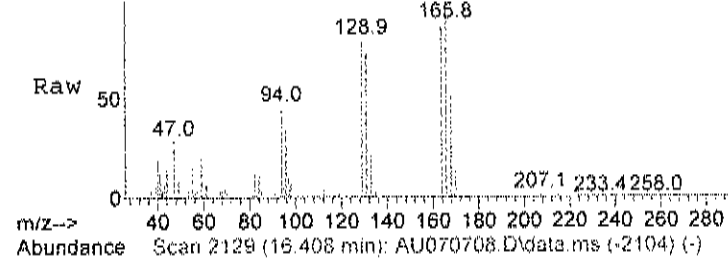
#44
Trichloroethene
Concen: 0.23 ppb
RT: 13.352 min Scan# 1590
Delta R.T. 0.006 min
Lab File: AU070708.D
Acq: 7 Jul 2023 12:30 pm

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	23000		
132	95.9		76.3	116.3
95	102.0		72.9	112.9



#56
Tetrachloroethylene
Concen: 0.37 ppb
RT: 16.408 min Scan# 2129
Delta R.T. -0.006 min
Lab File: AU070708.D
Acq: 7 Jul 2023 12:30 pm

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	33146		
166	126.0		107.9	147.9



Data Path : C:\msdchem\1\data\
Data File : AU070709.D
Acq On : 7 Jul 2023 1:42 pm
Operator : RJP
Sample : C2307002-014A 40X
Misc : A629_1UG
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 08 11:11:49 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

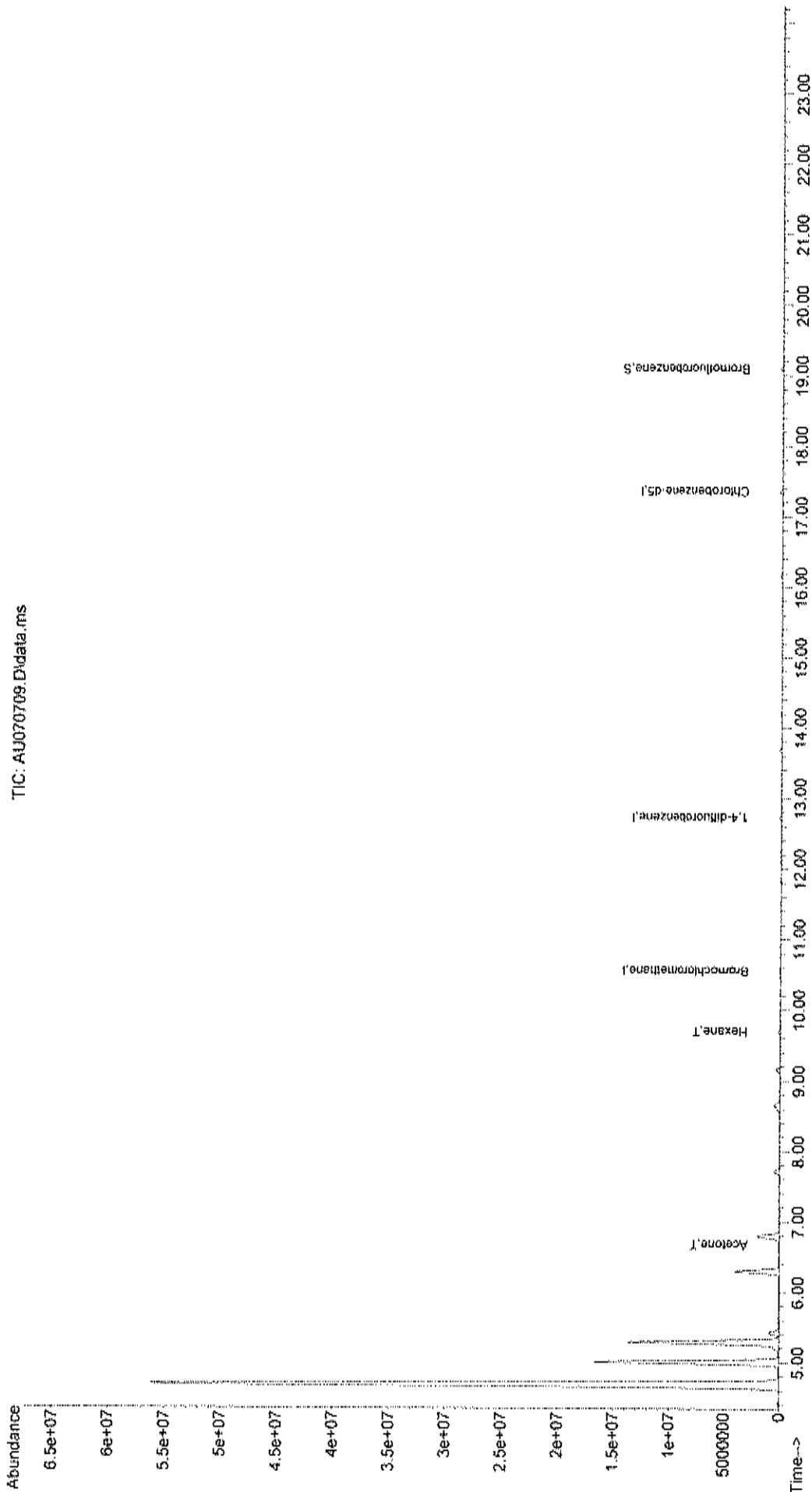
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

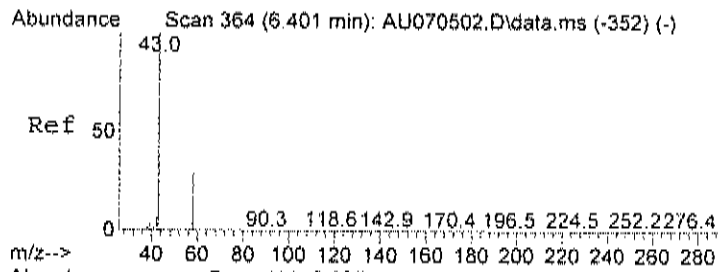
Internal Standards						
1) Bromochloromethane	10.545	128	48854	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	235051	1.00	ppb	0.00
50) Chlorobenzene-d5	17.355	117	199618	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.089	95	114834	0.76	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	76.00%
Target Compounds						
15) Acetone	6.667	58	26649m	0.46	ppb	Qvalue
30) Hexane	9.689	57	114505	0.79	ppb	# 71

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

Quantitation Report {QT Reviewed}

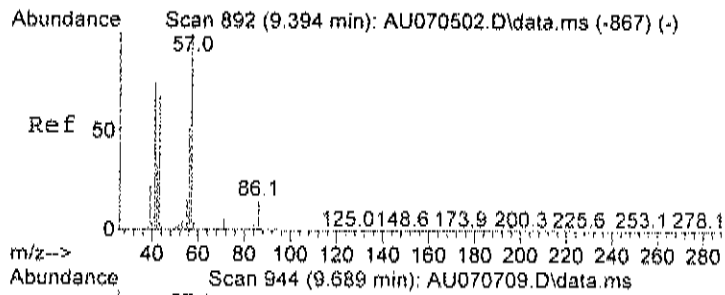
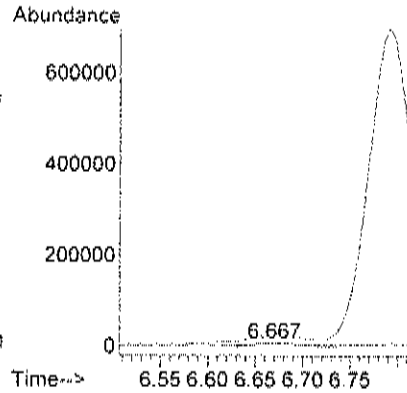
Data Path : C:\msdchem\1\data\
Data File : AU070709.D
Acq On : 7 Jul 2023 1:42 pm
Operator : RJP
Sample : C2307002-014A 40X
Misc : A629_1UG
ALS Vial : 9 Sample Multiplier: 1
Quant Time: Jul 08 11:11:49 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : FO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration





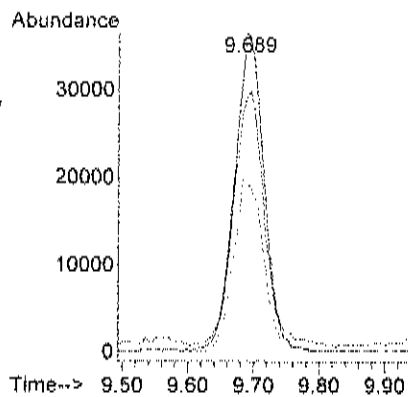
#15
Acetone
Concen: 0.46 ppb m
RT: 6.667 min Scan# 411
Delta R.T. 0.000 min
Lab File: AU070709.D
Acq: 7 Jul 2023 1:42 pm

Tgt Ion: 58 Resp: 26649
Ion Ratio Lower Upper
58 100
43 305.6 224.5 284.5#



#30
Hexane
Concen: 0.79 ppb
RT: 9.689 min Scan# 944
Delta R.T. -0.006 min
Lab File: AU070709.D
Acq: 7 Jul 2023 1:42 pm

Tgt Ion: 57 Resp: 114505
Ion Ratio Lower Upper
57 100
41 84.9 37.3 77.3#
56 56.2 24.8 64.8



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-14

Lab Order: C2307002

Tag Number: 241,177

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-015A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,2,4-Trimethylbenzene	4.3	1.5		ppbV	10	7/7/2023 2:25:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,3,5-Trimethylbenzene	1.8	1.5		ppbV	10	7/7/2023 2:25:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 10:58:00 AM
2,2,4-trimethylpentane	19	1.5		ppbV	10	7/7/2023 2:25:00 PM
4-ethyltoluene	1.2	0.15		ppbV	1	7/6/2023 10:58:00 AM
Acetone	32	12		ppbV	40	7/7/2023 3:08:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Benzene	11	1.5		ppbV	10	7/7/2023 2:25:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Carbon disulfide	5.0	1.5		ppbV	10	7/7/2023 2:25:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Chloroethane	0.53	0.15		ppbV	1	7/6/2023 10:58:00 AM
Chloroform	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
cis-1,2-Dichloroethene	4.2	1.5		ppbV	10	7/7/2023 2:25:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Cyclohexane	22	6.0		ppbV	40	7/7/2023 3:08:00 PM

Qualifiers:

- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte, Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 29 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-14

Lab Order: C2307002

Tag Number: 241,177

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-015A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Ethyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Ethylbenzene	2.2	1.5		ppbV	10	7/7/2023 2:25:00 PM
Freon 11	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Freon 114	0.43	0.15		ppbV	1	7/6/2023 10:58:00 AM
Freon 12	0.51	0.15		ppbV	1	7/6/2023 10:58:00 AM
Heptane	13	1.5		ppbV	10	7/7/2023 2:25:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Hexane	18	6.0		ppbV	40	7/7/2023 3:08:00 PM
Isopropyl alcohol	29	6.0		ppbV	40	7/7/2023 3:08:00 PM
m&p-Xylene	7.2	3.0		ppbV	10	7/7/2023 2:25:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 10:58:00 AM
Methyl Ethyl Ketone	13	3.0		ppbV	10	7/7/2023 2:25:00 PM
Methyl Isobutyl Ketone	34	12		ppbV	40	7/7/2023 3:08:00 PM
Methyl tert-butyl ether	21	6.0		ppbV	40	7/7/2023 3:08:00 PM
Methylene chloride	0.70	0.15		ppbV	1	7/6/2023 10:58:00 AM
o-Xylene	3.5	1.5		ppbV	10	7/7/2023 2:25:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Styrene	0.92	0.15		ppbV	1	7/6/2023 10:58:00 AM
Tetrachloroethylene	1.9	0.15		ppbV	1	7/6/2023 10:58:00 AM
Tetrahydrofuran	17	1.5		ppbV	10	7/7/2023 2:25:00 PM
Toluene	11	1.5		ppbV	10	7/7/2023 2:25:00 PM
trans-1,2-Dichloroethene	1.3	0.15		ppbV	1	7/6/2023 10:58:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Trichloroethene	1.9	0.15		ppbV	1	7/6/2023 10:58:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 10:58:00 AM
Vinyl chloride	17	1.5		ppbV	10	7/7/2023 2:25:00 PM
Surr: Bromofluorobenzene	112	70-130		%REC	1	7/6/2023 10:58:00 AM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte, Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 30 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
 Lab Order: C2307002
 Project: IKEA Red Hook
 Lab ID: C2307002-015A

Client Sample ID: SVW-14
 Tag Number: 241.177
 Collection Date: 6/29/2023
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 10:58:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 10:58:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 10:58:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 10:58:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 10:58:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 10:58:00 AM
1,2,4-Trimethylbenzene	21	7.4		ug/m3	10	7/7/2023 2:25:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 10:58:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 10:58:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 10:58:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 10:58:00 AM
1,3,5-Trimethylbenzene	8.8	7.4		ug/m3	10	7/7/2023 2:25:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 10:58:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 10:58:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 10:58:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 10:58:00 AM
2,2,4-trimethylpentane	88	7.0		ug/m3	10	7/7/2023 2:25:00 PM
4-ethyltoluene	5.9	0.74		ug/m3	1	7/6/2023 10:58:00 AM
Acetone	76	28		ug/m3	40	7/7/2023 3:08:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 10:58:00 AM
Benzene	36	4.8		ug/m3	10	7/7/2023 2:25:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 10:58:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 10:58:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 10:58:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 10:58:00 AM
Carbon disulfide	16	4.7		ug/m3	10	7/7/2023 2:25:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 10:58:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 10:58:00 AM
Chloroethane	1.4	0.40		ug/m3	1	7/6/2023 10:58:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	7/6/2023 10:58:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	7/6/2023 10:58:00 AM
cis-1,2-Dichloroethene	17	5.9		ug/m3	10	7/7/2023 2:25:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 10:58:00 AM
Cyclohexane	77	21		ug/m3	40	7/7/2023 3:08:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 10:58:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	7/6/2023 10:58:00 AM
Ethylbenzene	9.6	6.5		ug/m3	10	7/7/2023 2:25:00 PM
Freon 11	< 0.84	0.84		ug/m3	1	7/6/2023 10:58:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 10:58:00 AM
Freon 114	3.0	1.0		ug/m3	1	7/6/2023 10:58:00 AM

Qualifiers: - Results reported are not blank corrected
 DL Detection Limit
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection
 SC Sub-Contracted

Page 29 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-14

Lab Order: C2307002

Tag Number: 241,177

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-015A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.5	0.74		ug/m3	1	7/6/2023 10:58:00 AM
Heptane	54	6.1		ug/m3	10	7/7/2023 2:25:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 10:58:00 AM
Hexane	62	21		ug/m3	40	7/7/2023 3:08:00 PM
Isopropyl alcohol	72	15		ug/m3	40	7/7/2023 3:08:00 PM
m&p-Xylene	31	13		ug/m3	10	7/7/2023 2:25:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 10:58:00 AM
Methyl Ethyl Ketone	38	8.8		ug/m3	10	7/7/2023 2:25:00 PM
Methyl Isobutyl Ketone	140	49		ug/m3	40	7/7/2023 3:08:00 PM
Methyl tert-butyl ether	76	22		ug/m3	40	7/7/2023 3:08:00 PM
Methylene chloride	2.4	0.52		ug/m3	1	7/6/2023 10:58:00 AM
o-Xylene	15	6.5		ug/m3	10	7/7/2023 2:25:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 10:58:00 AM
Styrene	3.9	0.64		ug/m3	1	7/6/2023 10:58:00 AM
Tetrachloroethylene	13	1.0		ug/m3	1	7/6/2023 10:58:00 AM
Tetrahydrofuran	49	4.4		ug/m3	10	7/7/2023 2:25:00 PM
Toluene	43	5.7		ug/m3	10	7/7/2023 2:25:00 PM
trans-1,2-Dichloroethene	5.3	0.59		ug/m3	1	7/6/2023 10:58:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 10:58:00 AM
Trichloroethene	10	0.81		ug/m3	1	7/6/2023 10:58:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 10:58:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 10:58:00 AM
Vinyl chloride	43	3.8		ug/m3	10	7/7/2023 2:25:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

IN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 30 of 40

Data Path : C:\msdchem\1\data\
 Data File : AU070608.D
 Acq On : 6 Jul 2023 10:58 am
 Operator : RJP
 Sample : C2307002-015A
 Misc : A629_1UG
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 06 12:03:03 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

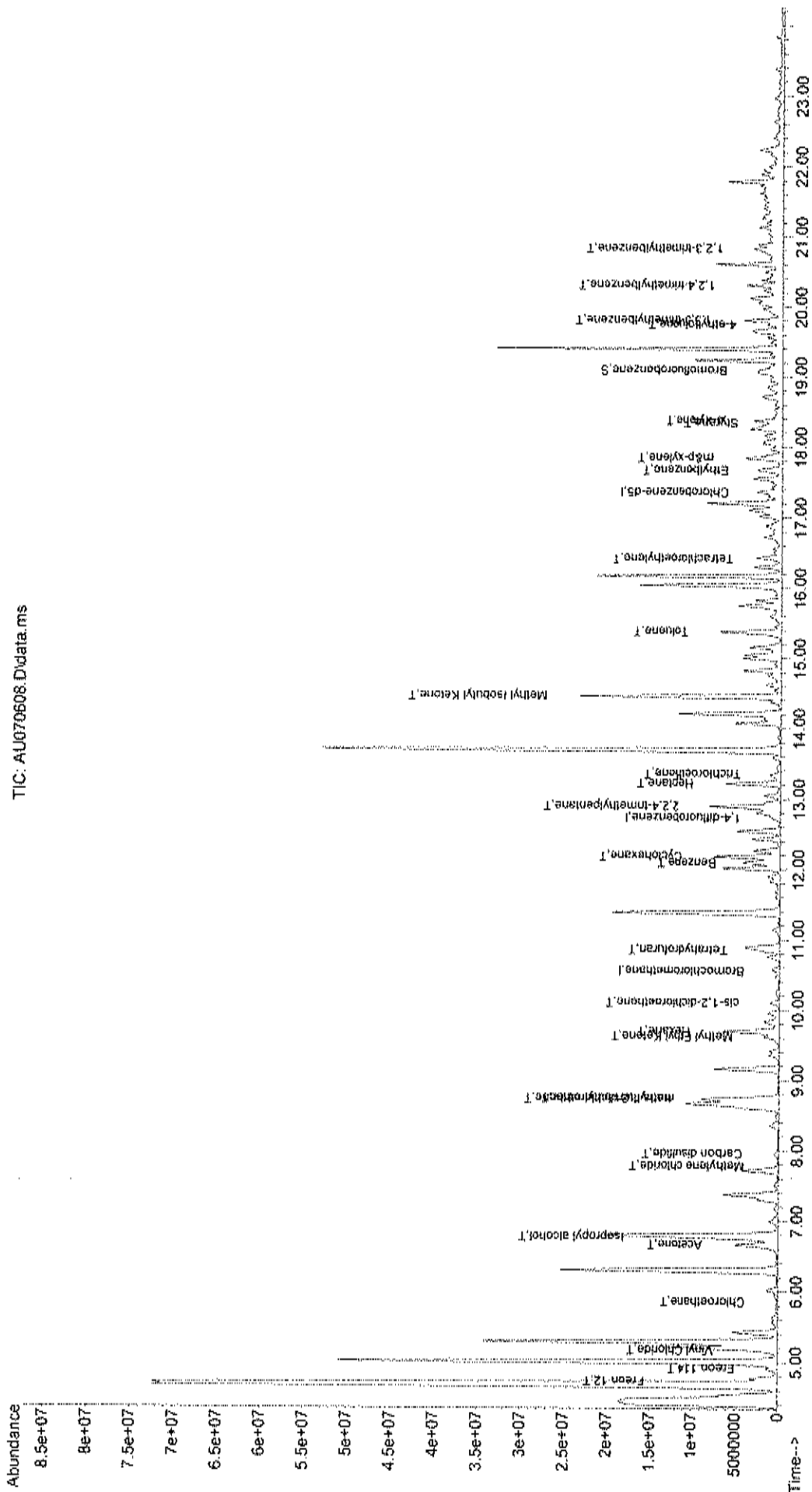
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

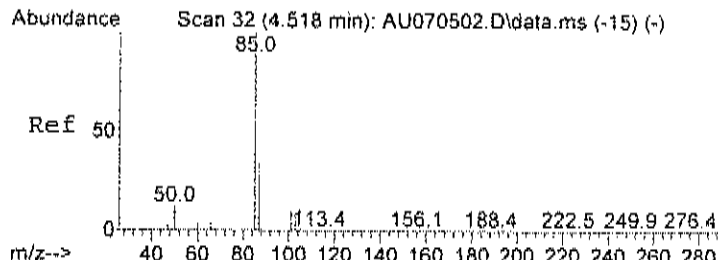
Internal Standards						
1) Bromochloromethane	10.551	128	67653	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.728	114	393174	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	365540	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.089	95	309476m	1.12	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	112.00%
Target Compounds						
						Qvalue
3) Freon 12	4.734	85	140994	0.51	ppb	97
5) Freon 114	4.915	85	99369	0.43	ppb	# 33
6) Vinyl Chloride	5.170	62	1352374	16.13	ppb	99
10) Chloroethane	5.851	64	24435	0.53	ppb	97
15) Acetone	6.661	58	3830492	47.95	ppb	91
17) Isopropyl alcohol	6.769	45	8088037	39.09	ppb	# 1
21) Methylene chloride	7.778	84	119649	0.70	ppb	90
23) Carbon disulfide	7.954	76	1386283	3.89	ppb	99
24) trans-1,2-dichloroethene	8.731	61	214037m	1.34	ppb	
25) methyl tert-butyl ether	8.736	73	12113994m	35.45	ppb	
28) Methyl Ethyl Ketone	9.621	72	945659m	14.85	ppb	
29) cis-1,2-dichloroethene	10.103	61	674187	4.32	ppb	90
30) Hexane	9.695	57	5578953	27.69	ppb	83
33) Tetrahydrofuran	10.851	42	2407981	17.83	ppb	# 70
37) Cyclohexane	12.184	56	4231318m	23.24	ppb	
39) Benzene	12.087	78	3572454	10.71	ppb	93
42) 2,2,4-trimethylpentane	12.892	57	10818233	18.80	ppb	68
43) Heptane	13.215	43	2849129	12.89	ppb	88
44) Trichloroethene	13.352	130	278405	1.90	ppb	93
51) Toluene	15.376	92	2996380	11.68	ppb	98
52) Methyl Isobutyl Ketone	14.451	43	21373395	59.37	ppb	96
56) Tetrachloroethylene	16.413	164	281818	1.94	ppb	100
58) Ethylbenzene	17.666	91	1413784	2.53	ppb	96
59) m&p-xylene	17.842	91	3802304	8.60	ppb	94
61) Styrene	18.341	104	307382	0.92	ppb	# 53
63) o-xylene	18.375	91	1789421	3.95	ppb	94
69) 4-ethyltoluene	19.741	105	714632m	1.21	ppb	
70) 1,3,5-trimethylbenzene	19.804	105	1100080m	2.17	ppb	
71) 1,2,4-trimethylbenzene	20.303	105	2622930m	5.24	ppb	
75) 1,2,3-trimethylbenzene	20.824	105	1217528m	2.43	ppb	

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

Quantitation Report (QT Reviewed)

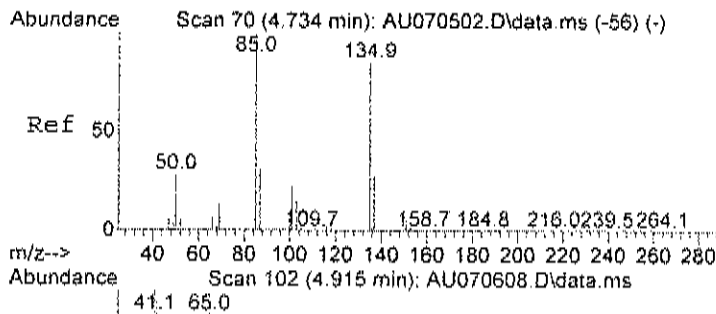
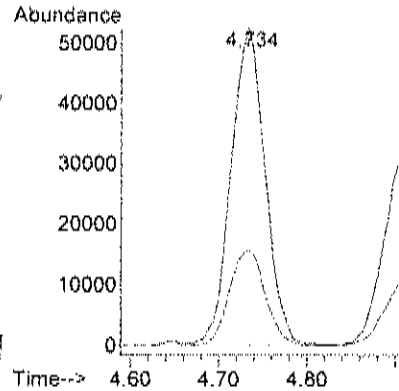
Data Path : C:\msdchem\1\data\
Data File : AU070608.D
Acq On : 6 Jul 2023 10:58 am
Operator : RJP
Sample : C2307002-015A
Misc : A629 IUG
ALS Vial : 4 Sample Multiplier: 1
Quant Time: Jul 06 12:03:03 2023
Quant Method : C:\msdchem\1\methods\A629 IUG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration





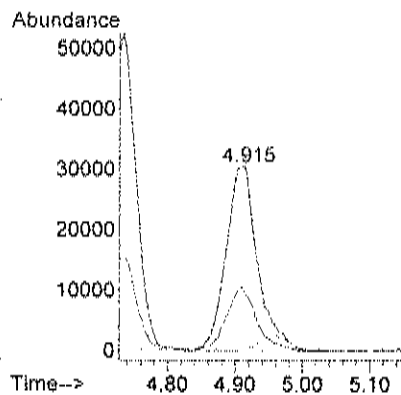
#3
Freon 12
Concen: 0.51 ppb
RT: 4.734 min Scan# 70
Delta R.T. -0.000 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

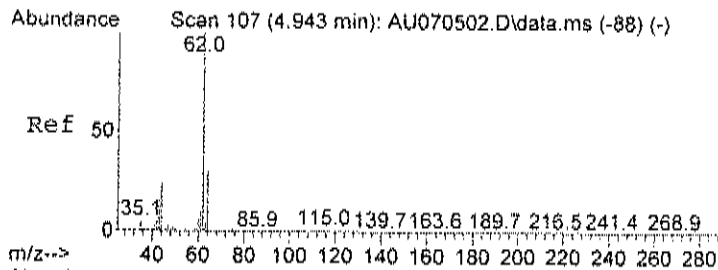
Tgt Ion: 85 Resp: 140994
Ion Ratio Lower Upper
85 100
87 31.7 13.4 53.4



#5
Freon 114
Concen: 0.43 ppb
RT: 4.915 min Scan# 102
Delta R.T. -0.045 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

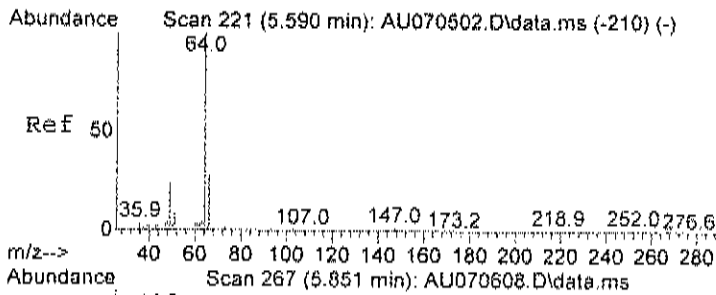
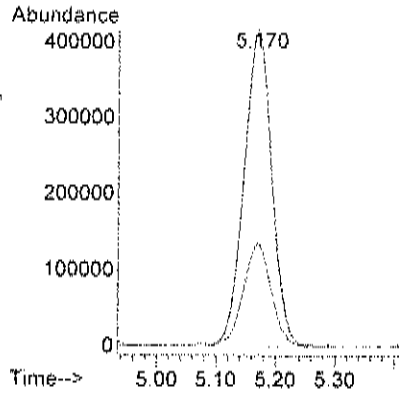
Tgt Ion: 85 Resp: 99369
Ion Ratio Lower Upper
85 100
87 33.3 2.3 62.3
135 0.0 53.1 113.1#





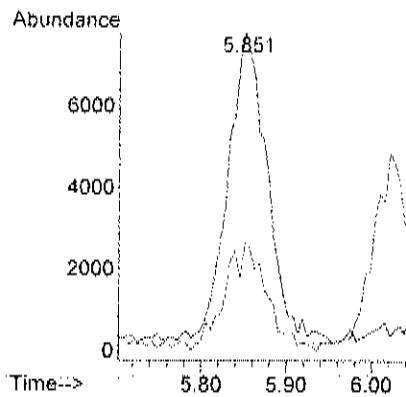
#6
Vinyl Chloride
Concen: 16.13 ppb
RT: 5.170 min Scan# 147
Delta R.T. -0.000 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

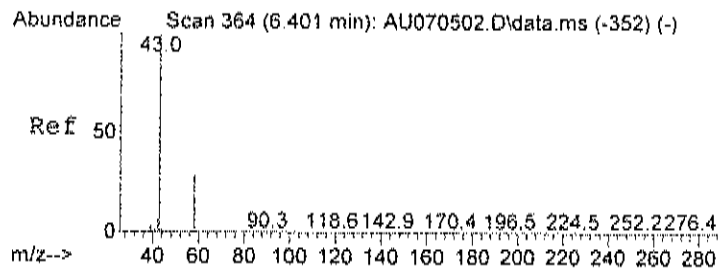
Tgt Ion: 62 Resp: 1352374
Ion Ratio Lower Upper
62 100
64 33.2 2.4 62.4



#10
Chloroethane
Concen: 0.53 ppb
RT: 5.851 min Scan# 267
Delta R.T. -0.000 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

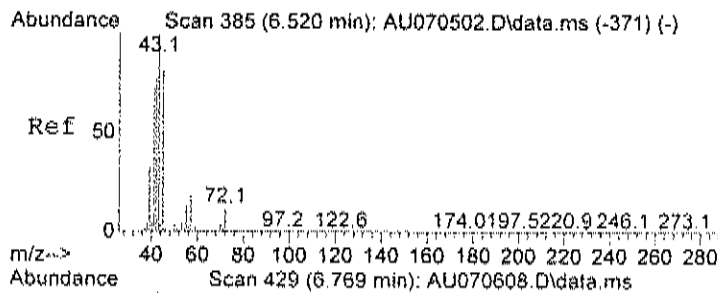
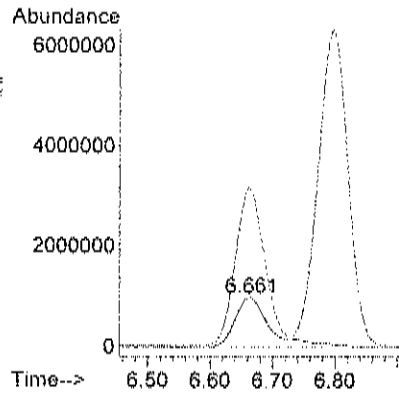
Tgt Ion: 64 Resp: 24435
Ion Ratio Lower Upper
64 100
66 36.9 28.2 42.2





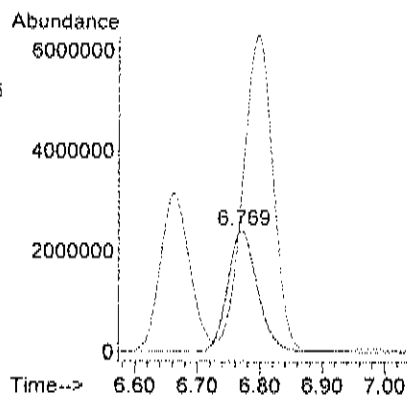
#15
Acetone
Concen: 47.95 ppb
RT: 6.661 min Scan# 410
Delta R.T. -0.006 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

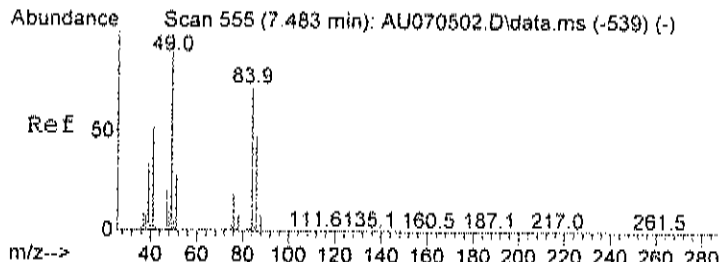
Tgt Ion: 58 Resp: 3830492
Ion Ratio Lower Upper
58 100
43 271.0 224.5 284.5



#17
Isopropyl alcohol
Concen: 39.09 ppb
RT: 6.769 min Scan# 429
Delta R.T. -0.017 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

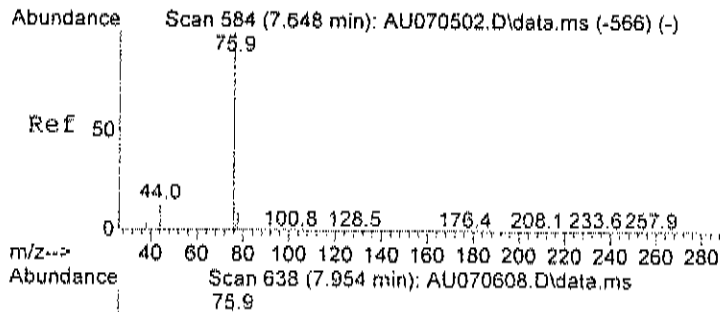
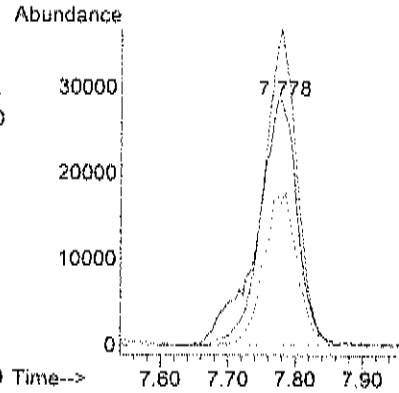
Tgt Ion: 45 Resp: 8088037
Ion Ratio Lower Upper
45 100
43 259.2 110.3 150.3#





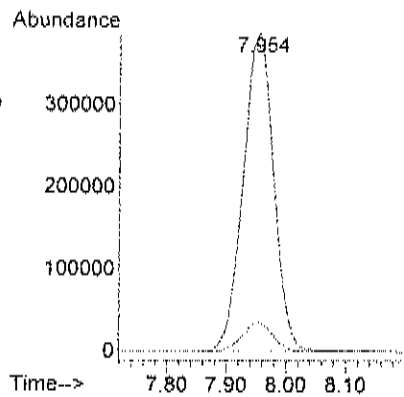
#21
Methylene chloride
Concen: 0.70 ppb
RT: 7.778 min Scan# 607
Delta R.T. 0.006 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

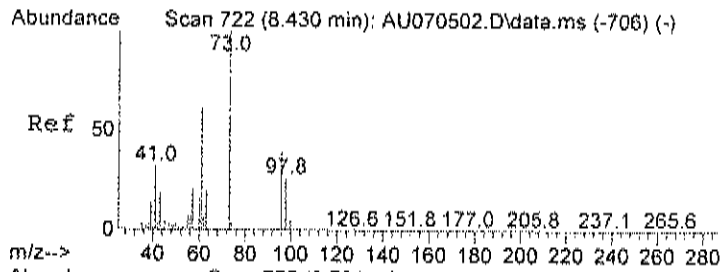
Tgt Ion:	84	Resp:	119649
Ion	Ratio	Lower	Upper
84	100		
49	105.2	93.0	133.0
86	51.7	43.7	83.7



#23
Carbon disulfide
Concen: 3.89 ppb
RT: 7.954 min Scan# 638
Delta R.T. 0.006 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

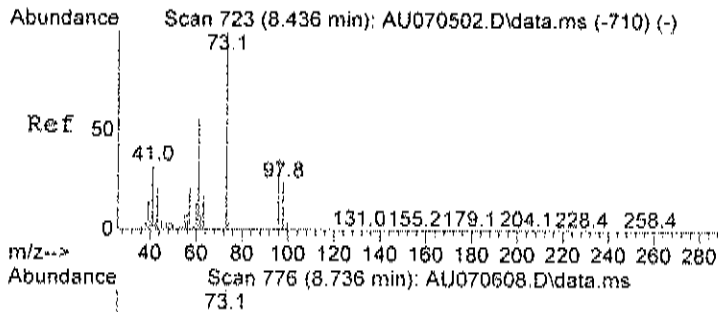
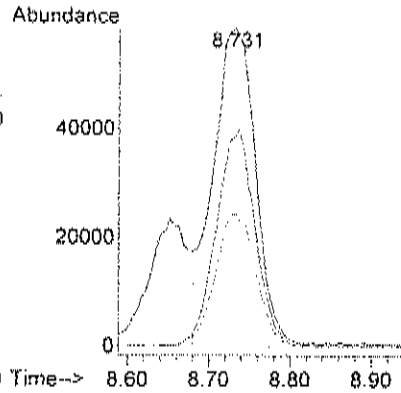
Tgt Ion:	76	Resp:	1386283
Ion	Ratio	Lower	Upper
76	100		
78	9.0	0.0	29.3





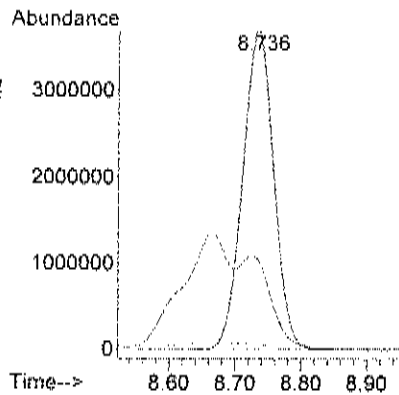
#24
trans-1,2-dichloroethene
Concen: 1.34 ppb m
RT: 8.731 min Scan# 775
Delta R.T. -0.000 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

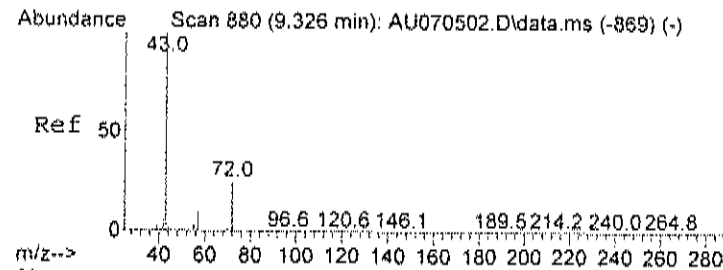
Tgt Ion	Ratio	Lower	Upper
61	100		
96	0.0	56.0	96.0#
98	0.0	29.1	69.1#



#25
methyl tert-butyl ether
Concen: 35.45 ppb m
RT: 8.736 min Scan# 776
Delta R.T. -0.000 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

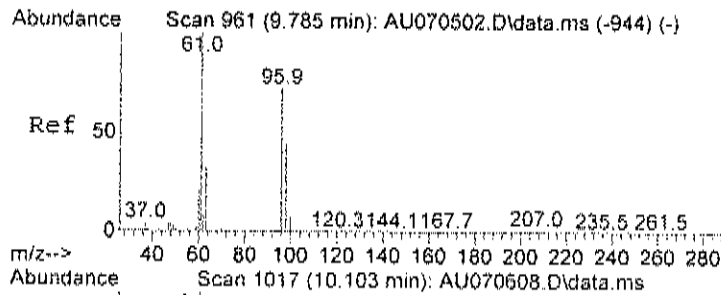
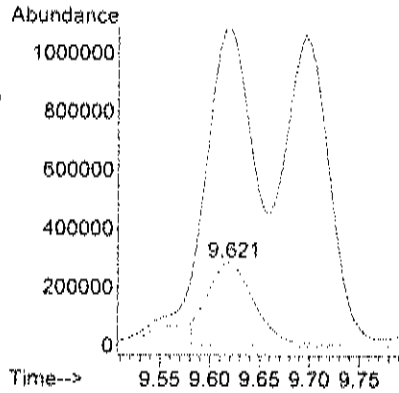
Tgt Ion	Ratio	Lower	Upper
73	100		
41	0.0	0.0	37.6
53	0.0	0.0	20.9





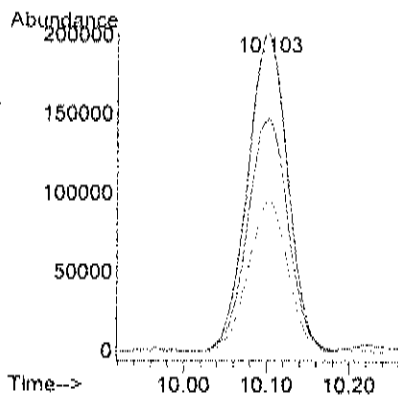
#28
Methyl Ethyl Ketone
Concen: 14.85 ppb m
RT: 9.621 min Scan# 932
Delta R.T. -0.006 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

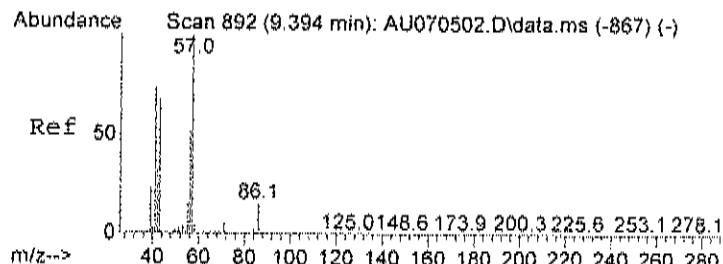
Tgt Ion:	72	Resp:	945659
Ion Ratio	Lower	Upper	
72	100		
43	0.0	389.0	429.0#
72	121.5	80.0	120.0#



#29
cis-1,2-dichloroethene
Concen: 4.32 ppb
RT: 10.103 min Scan# 1017
Delta R.T. 0.006 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

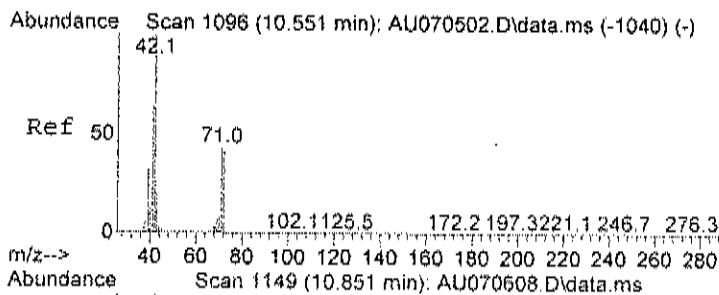
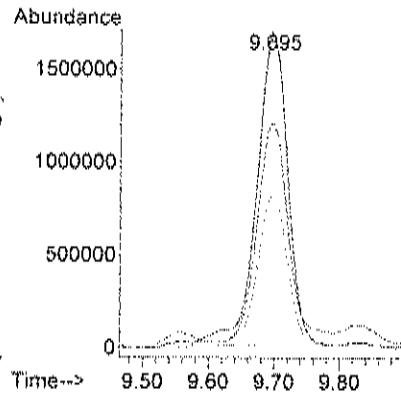
Tgt Ion:	61	Resp:	674187
Ion Ratio	Lower	Upper	
61	100		
96	74.6	64.4	104.4
98	47.4	34.6	74.6





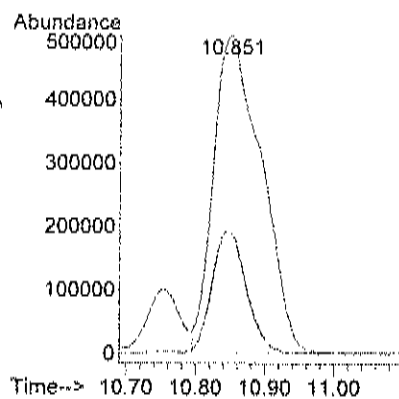
#30
Hexane
Concen: 27.69 ppb
RT: 9.695 min Scan# 945
Delta R.T. -0.000 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

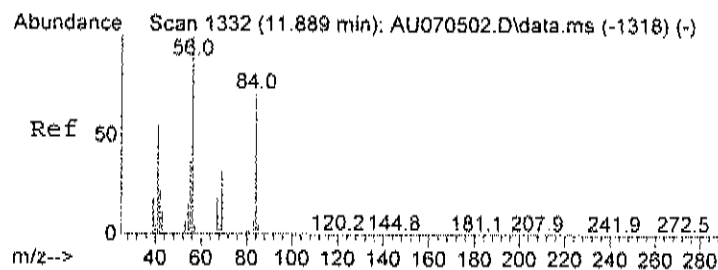
Tgt Ion:	57	Resp:	5578953
Ion	Ratio	Lower	Upper
57	100		
41	74.8	37.3	77.3
56	49.8	24.8	64.8



#33
Tetrahydrofuran
Concen: 17.83 ppb
RT: 10.851 min Scan# 1149
Delta R.T. -0.011 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

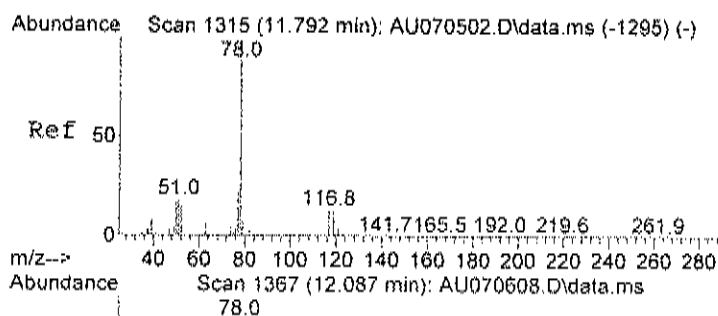
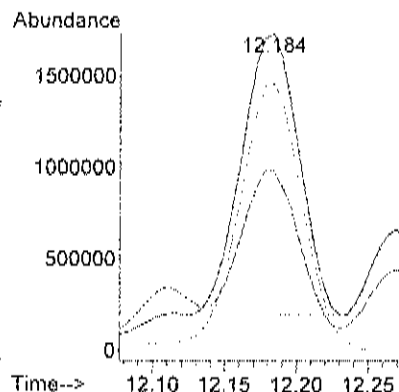
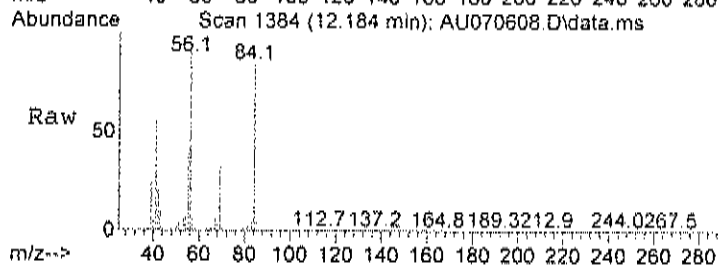
Tgt Ion:	42	Resp:	2407981
Ion	Ratio	Lower	Upper
42	100		
71	27.7	27.1	67.1
72	29.3	30.8	70.8#





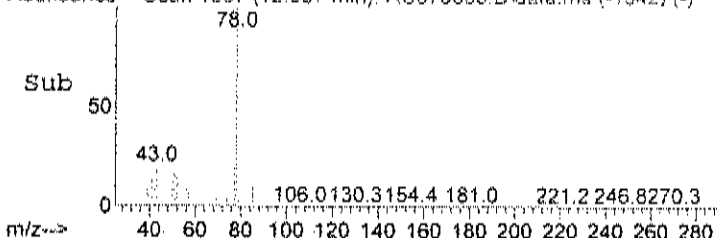
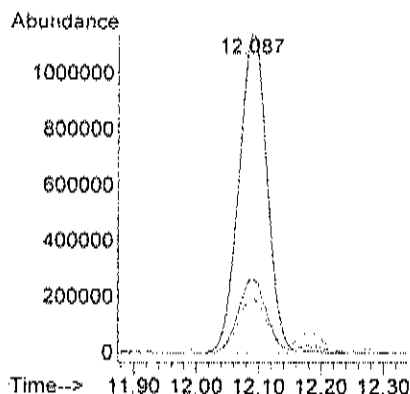
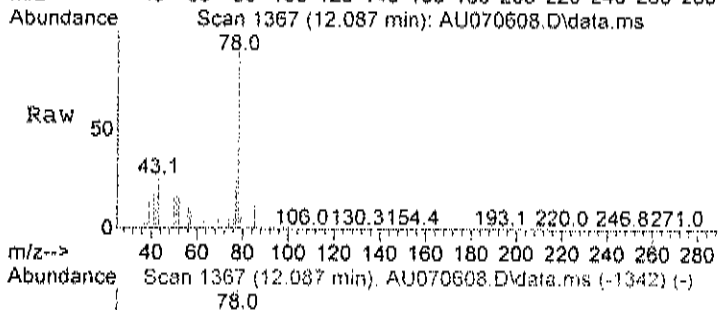
#37
Cyclohexane
Concen: 23.24 ppb m
RT: 12.184 min Scan# 1384
Delta R.T. 0.006 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

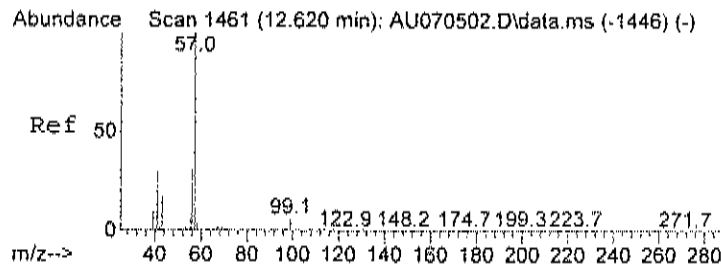
Tgt Ion	56	Resp	4231318
Ion Ratio	Lower	Upper	
56	100		
41	79.4	28.1	68.1#
84	108.3	85.3	125.3



#39
Benzene
Concen: 10.71 ppb
RT: 12.087 min Scan# 1367
Delta R.T. -0.006 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

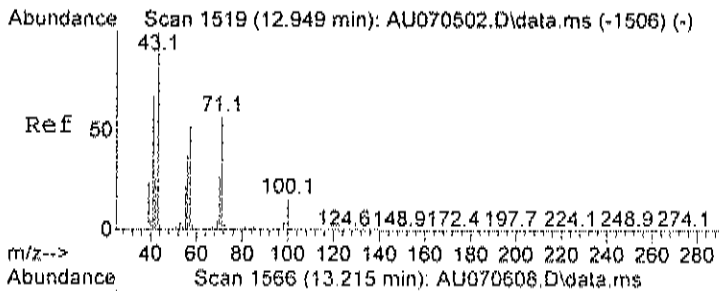
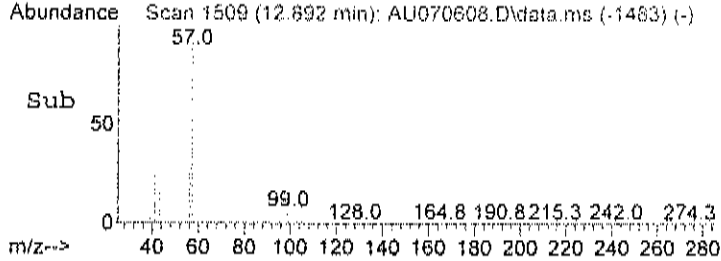
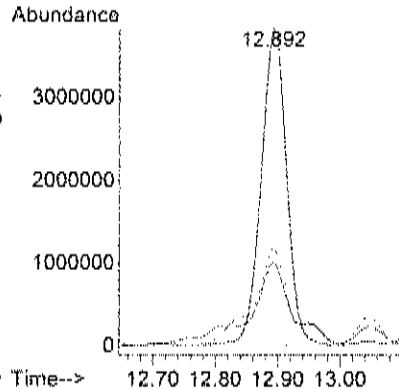
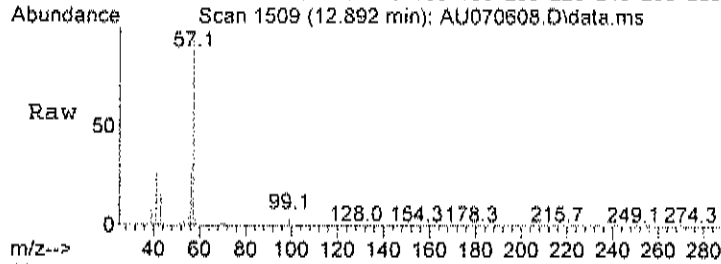
Tgt Ion	78	Resp	3572454
Ion Ratio	Lower	Upper	
78	100		
77	25.5	3.8	43.8
51	20.9	0.0	35.4





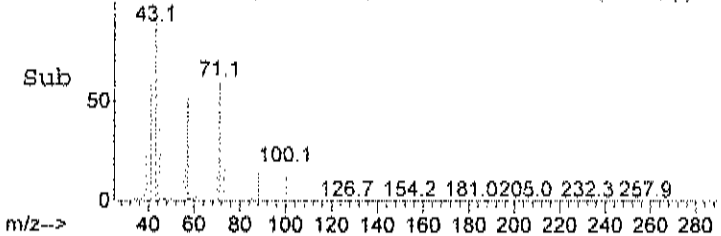
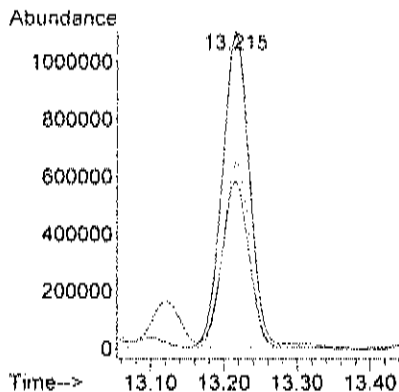
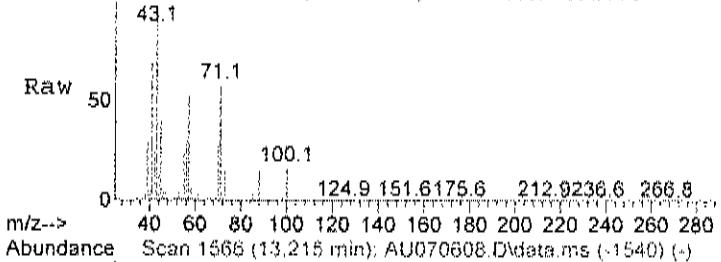
#42
2,2,4-trimethylpentane
Concen: 18.80 ppb
RT: 12.892 min Scan# 1509
Delta R.T. -0.000 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

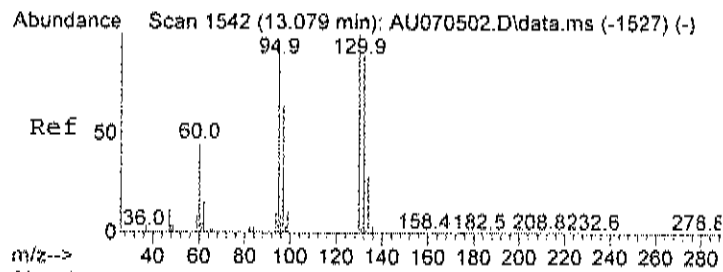
Tgt Ion	Ratio	Lower	Upper
57	100		
41	40.7	1.7	41.7
56	45.5	10.7	50.7



#43
Heptane
Concen: 12.89 ppb
RT: 13.215 min Scan# 1566
Delta R.T. -0.000 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

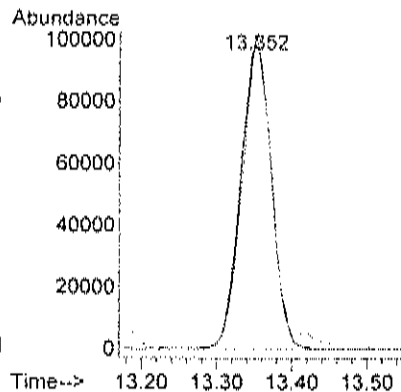
Tgt Ion	Ratio	Lower	Upper
43	100		
57	53.8	40.9	80.9
71	58.5	51.1	91.1





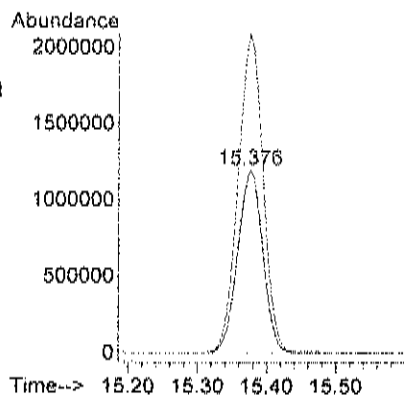
#44
Trichloroethene
Concen: 1.90 ppb
RT: 13.352 min Scan# 1590
Delta R.T. 0.006 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

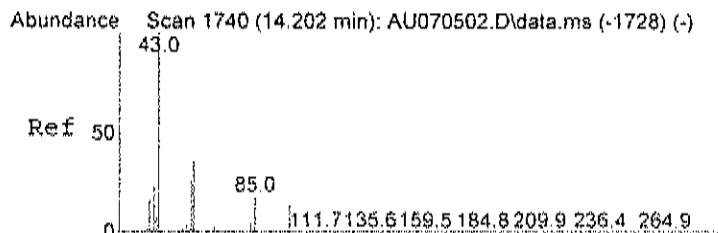
Tgt Ion	Resp	Lower	Upper
130	100		
132	96.3	76.3	116.3
95	107.2	72.9	112.9



#51
Toluene
Concen: 11.68 ppb
RT: 15.376 min Scan# 1947
Delta R.T. -0.000 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

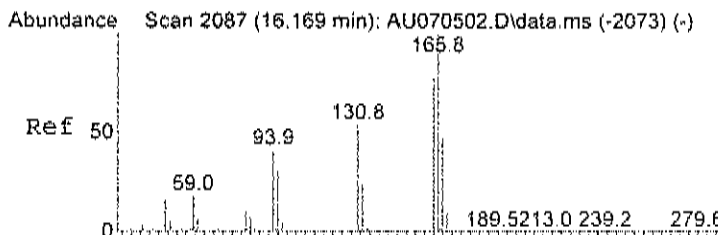
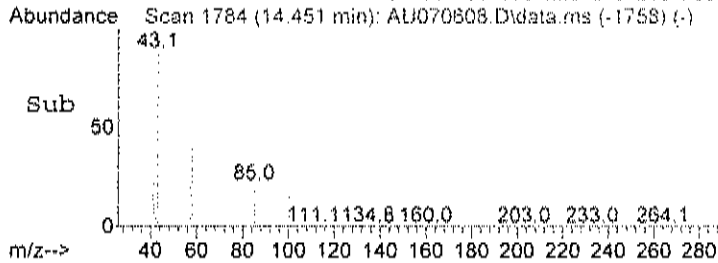
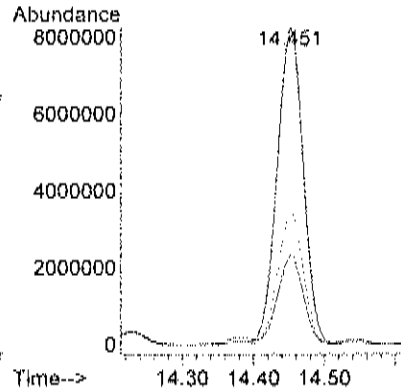
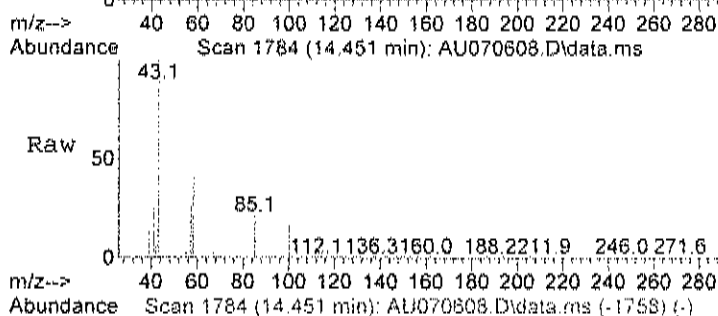
Tgt Ion	Resp	Lower	Upper
92	100		
91	173.6	150.4	190.4





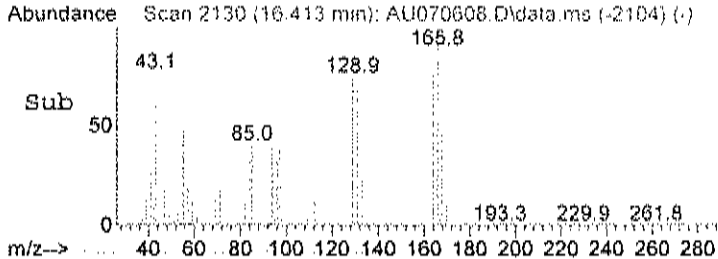
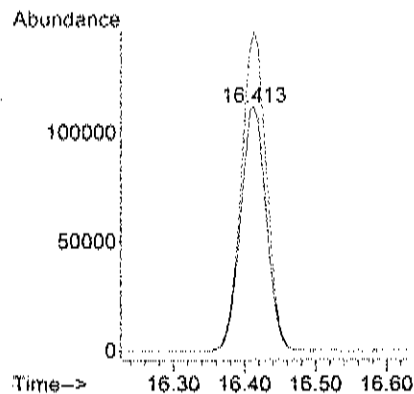
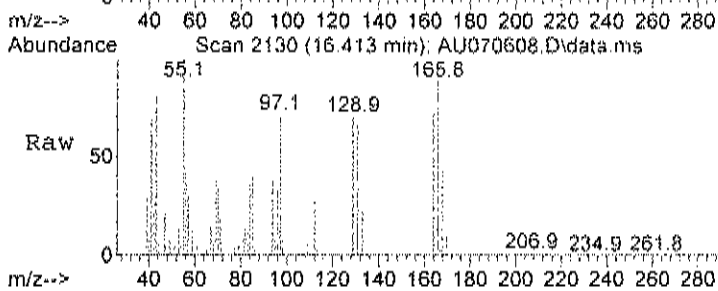
#52
Methyl Isobutyl Ketone
Concen: 59.37 ppb
RT: 14.451 min Scan# 1784
Delta R.T. -0.000 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

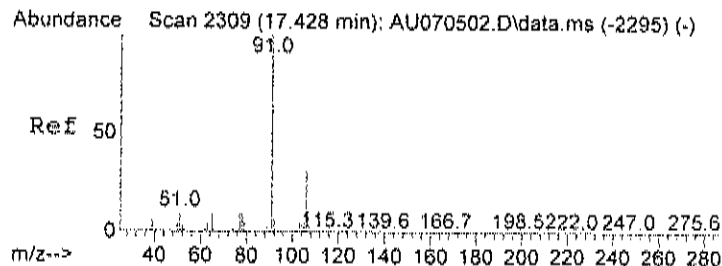
Tgt Ion	Ratio	Lower	Upper
43	100		
57	27.9	7.9	47.9
58	40.7	24.7	64.7



#56
Tetrachloroethylene
Concen: 1.94 ppb
RT: 16.413 min Scan# 2130
Delta R.T. -0.000 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

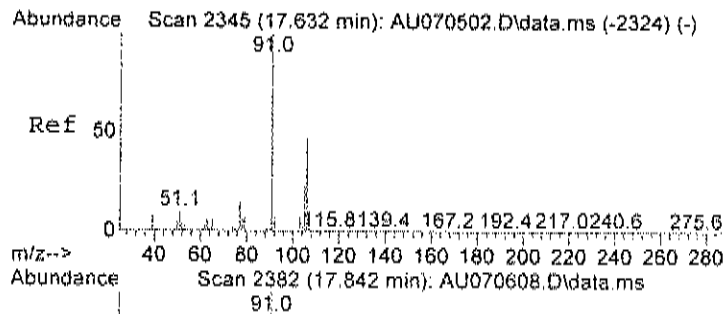
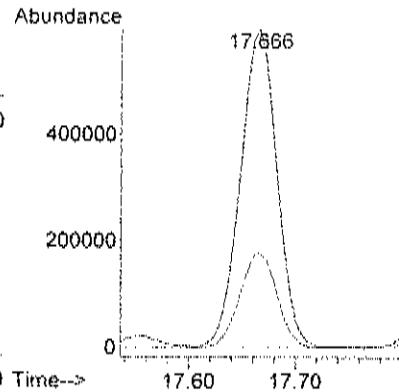
Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.8	107.9	147.9





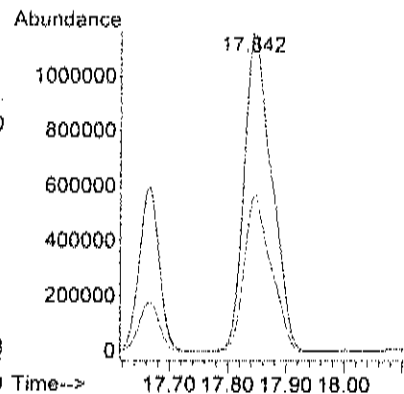
#58
Ethylbenzene
Concen: 2.53 ppb
RT: 17.666 min Scan# 2351
Delta R.T. 0.006 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

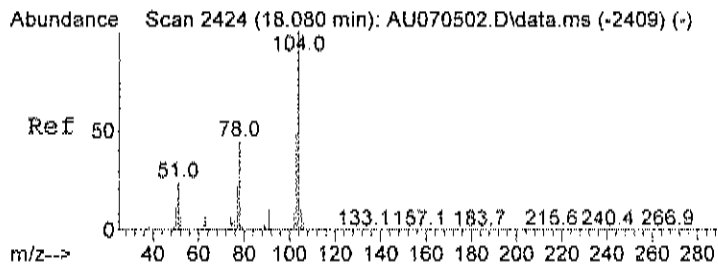
Tgt Ion: 91 Resp: 1413784
Ion Ratio Lower Upper
91 100
106 30.6 13.1 53.1



#59
m&p-xylene
Concen: 8.60 ppb
RT: 17.842 min Scan# 2382
Delta R.T. -0.023 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

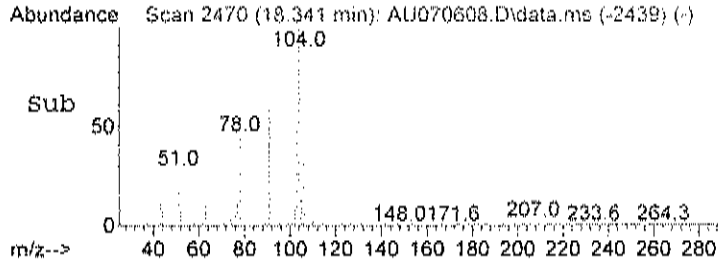
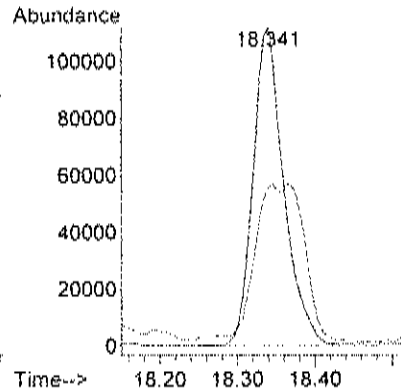
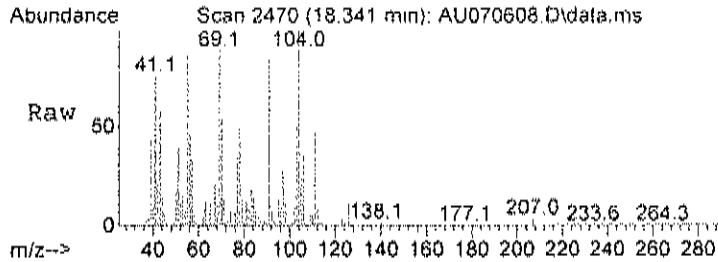
Tgt Ion: 91 Resp: 3802304
Ion Ratio Lower Upper
91 100
106 48.2 32.1 72.1





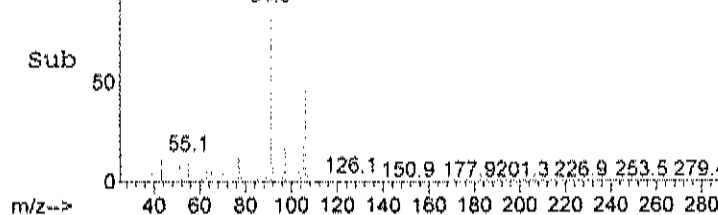
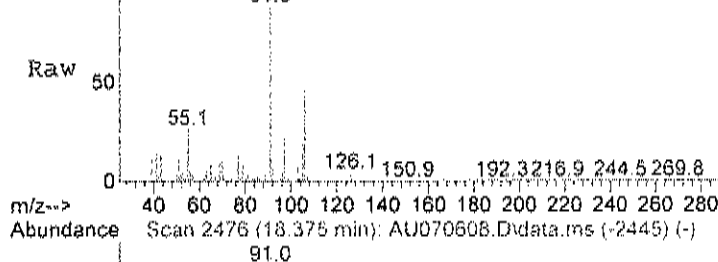
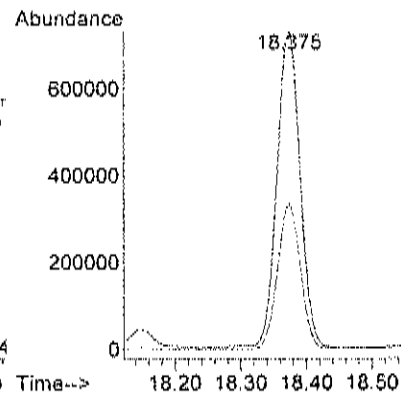
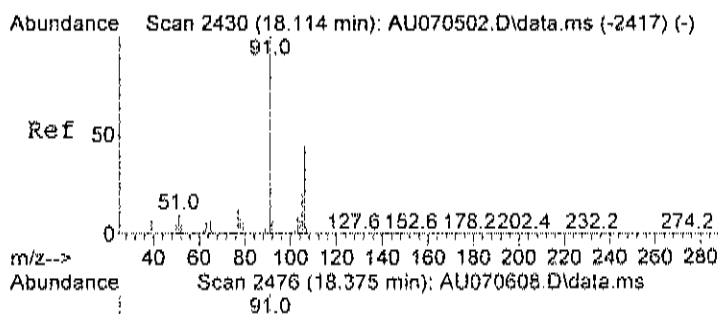
#61
Styrene
Concen: 0.92 ppb
RT: 18.341 min Scan# 2470
Delta R.T. 0.028 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

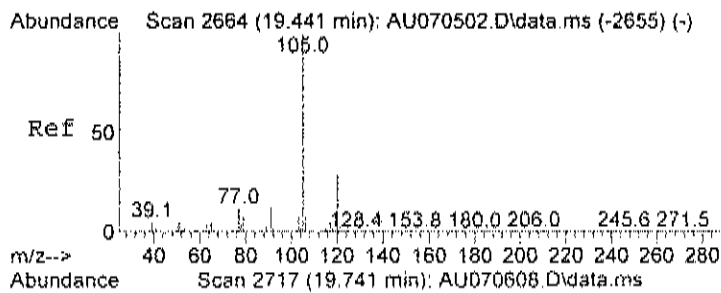
Tgt Ion	104	Resp	307382
Ion Ratio	Lower	Upper	
104	100		
78	77.0	25.8	65.8#



#63
o-xylene
Concen: 3.95 ppb
RT: 18.375 min Scan# 2476
Delta R.T. 0.028 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

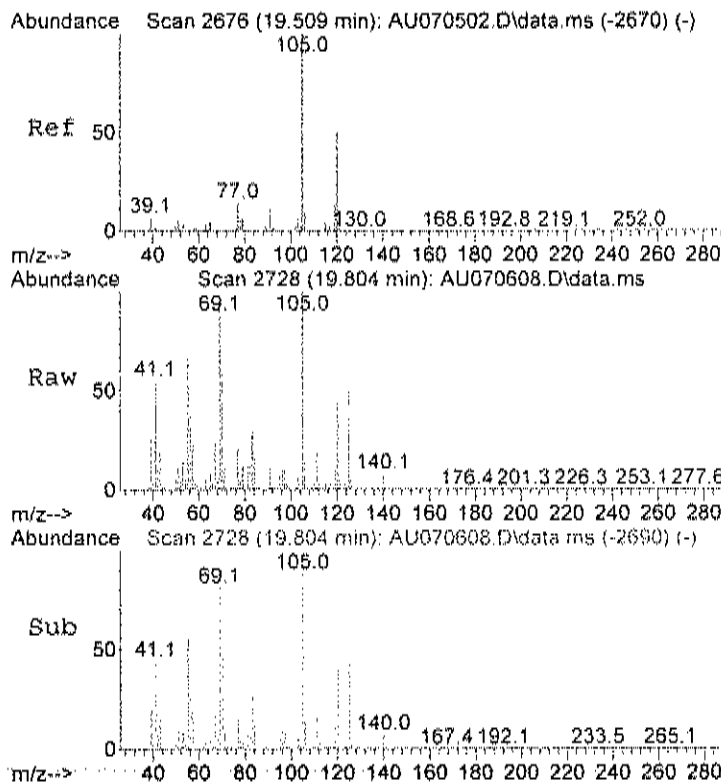
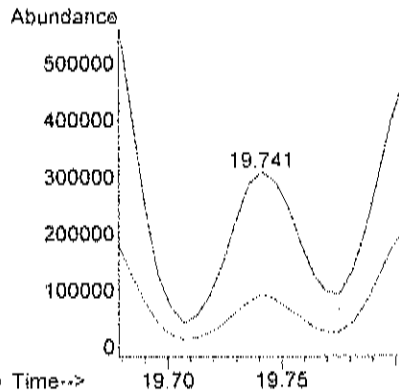
Tgt Ion	91	Resp	1789421
Ion Ratio	Lower	Upper	
91	100		
106	45.1	29.0	69.0





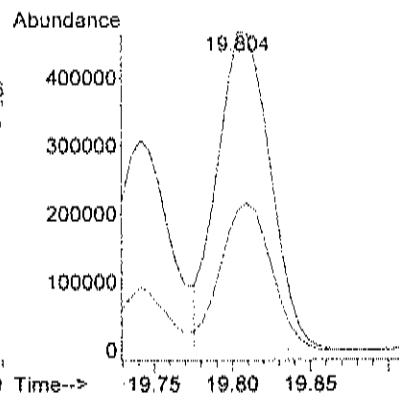
#69
4-ethyltoluene
Concen: 1.21 ppb m
RT: 19.741 min Scan# 2717
Delta R.T. 0.068 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

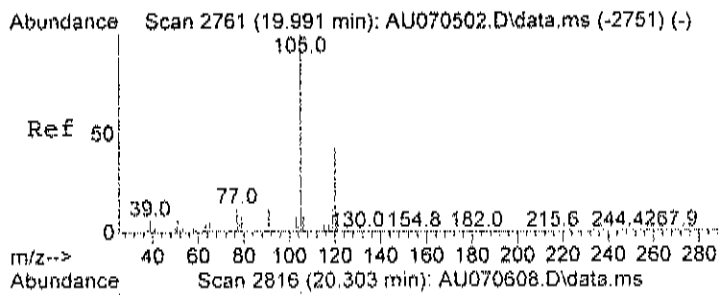
Tgt Ion	105	120	Resp	714632	Lower	Upper
Ion Ratio	100	75.7			10.0	50.0



#70
1,3,5-trimethylbenzene
Concen: 2.17 ppb m
RT: 19.804 min Scan# 2728
Delta R.T. 0.068 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

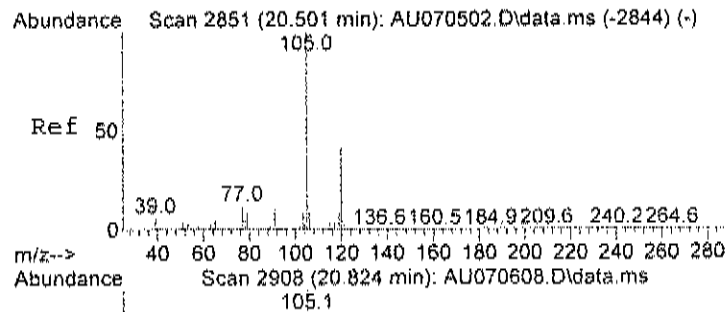
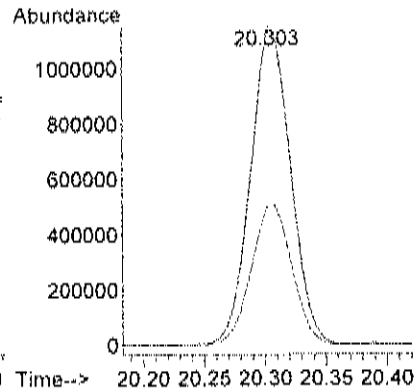
Tgt Ion	105	120	Resp	1100080	Lower	Upper
Ion Ratio	100	49.2			28.3	68.3





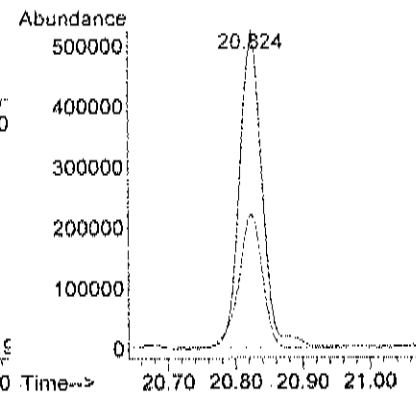
#71
1,2,4-trimethylbenzene
Concen: 5.24 ppb m
RT: 20.303 min Scan# 2816
Delta R.T. 0.085 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.6	25.8	65.8



#75
1,2,3-trimethylbenzene
Concen: 2.43 ppb m
RT: 20.824 min Scan# 2908
Delta R.T. 0.091 min
Lab File: AU070608.D
Acq: 6 Jul 2023 10:58 am

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.6	31.9	53.1



Data Path : C:\msdchem\1\data\
 Data File : AU070710.D
 Acq On : 7 Jul 2023 2:25 pm
 Operator : RJP
 Sample : C2307002-015A 10X
 Misc : A629_1UG
 ALS Vial : 10 Sample Multiplier: 1

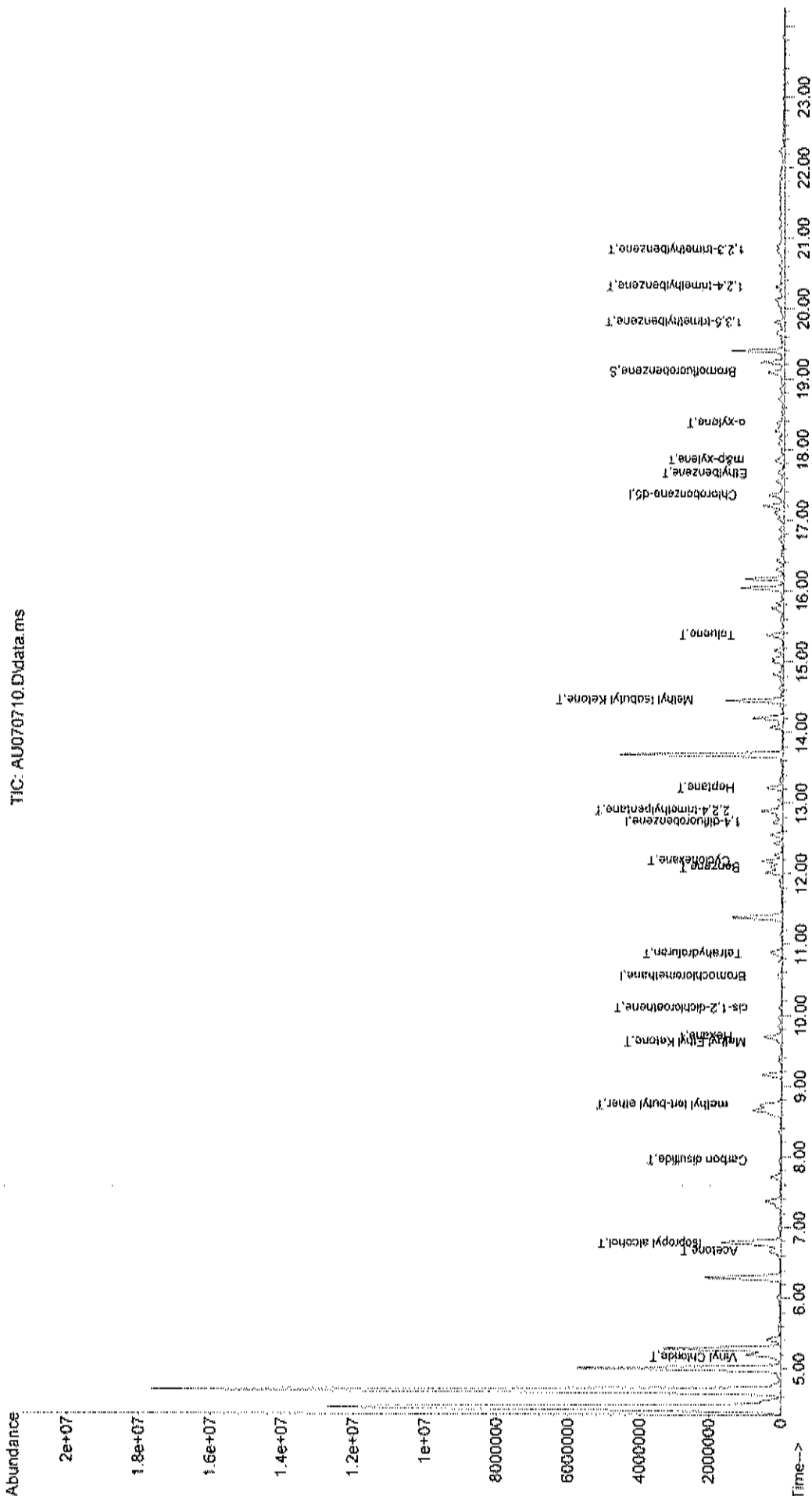
Quant Time: Jul 08 11:11:51 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

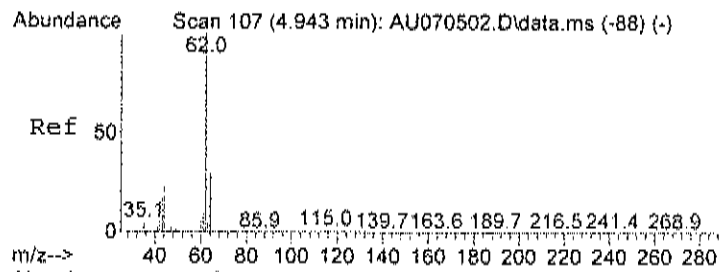
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.545	128	49037	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.728	114	266334	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	241208	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	167093	0.92	ppb	0.05
Spiked Amount	1.000	Range 70 ~ 130	Recovery	=	92.00%	
Target Compounds						
6) Vinyl Chloride	5.165	62	102590	1.69	ppb	98
15) Acetone	6.667	58	228453m	3.95	ppb	
17) Isopropyl alcohol	6.769	45	608516	4.06	ppb	# 1
23) Carbon disulfide	7.948	76	128465	0.50	ppb	100
25) methyl tert-butyl ether	8.731	73	777961	3.14	ppb	# 62
28) Methyl Ethyl Ketone	9.621	72	60087	1.30	ppb	# 1
29) cis-1,2-dichloroethene	10.092	61	47848	0.42	ppb	88
30) Hexane	9.695	57	383917	2.63	ppb	# 80
33) Tetrahydrofuran	10.863	42	162219	1.66	ppb	# 69
37) Cyclohexane	12.178	56	373861m	3.03	ppb	
39) Benzene	12.087	78	255565m	1.13	ppb	
42) 2,2,4-trimethylpentane	12.892	57	735668	1.89	ppb	# 65
43) Heptane	13.216	43	195766	1.31	ppb	86
51) Toluene	15.376	92	190979	1.13	ppb	97
52) Methyl Isobutyl Ketone	14.452	43	1458441	6.14	ppb	93
58) Ethylbenzene	17.661	91	81838	0.22	ppb	94
59) m&p-xylene	17.848	91	209824	0.72	ppb	94
63) o-xylene	18.375	91	103042	0.35	ppb	97
70) 1,3,5-trimethylbenzene	19.804	105	61208m	0.18	ppb	
71) 1,2,4-trimethylbenzene	20.308	105	143485m	0.43	ppb	
75) 1,2,3-trimethylbenzene	20.824	105	79840m	0.24	ppb	

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

Data Path : C:\msdchem\1\data\
Data File : AU070710.D
Acq On : 7 Jul 2023 2:25 pm
Operator : RJP
Sample : C2307002-015A 10X
Misc : A629_1UG
ALS Vial : 10 Sample Multiplier: 1

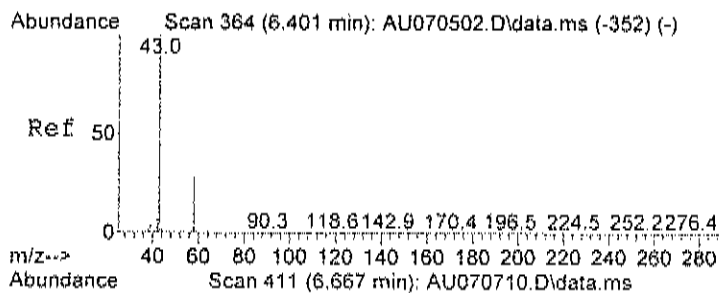
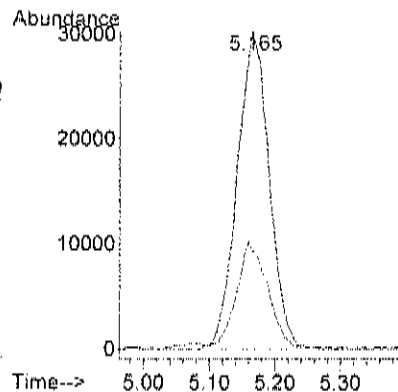
Quant Time: Jul 08 11:11:51 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOC Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration





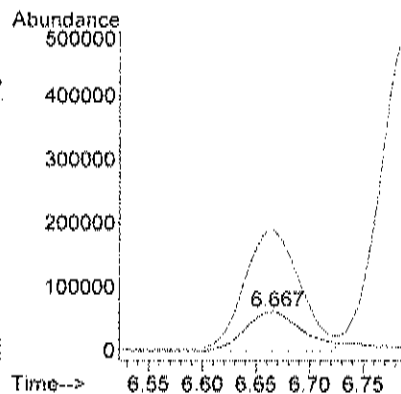
#6
Vinyl Chloride
Concen: 1.69 ppb
RT: 5.165 min Scan# 146
Delta R.T. -0.006 min
Lab File: AU070710.D
Acq: 7 Jul 2023 2:25 pm

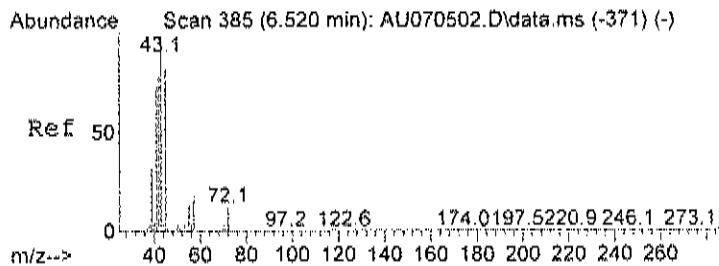
Tgt Ion	62	64	Resp	102590
Ion Ratio	100	31.5	Lower	Upper
			2.4	62.4



#15
Acetone
Concen: 3.95 ppb m
RT: 6.667 min Scan# 411
Delta R.T. -0.000 min
Lab File: AU070710.D
Acq: 7 Jul 2023 2:25 pm

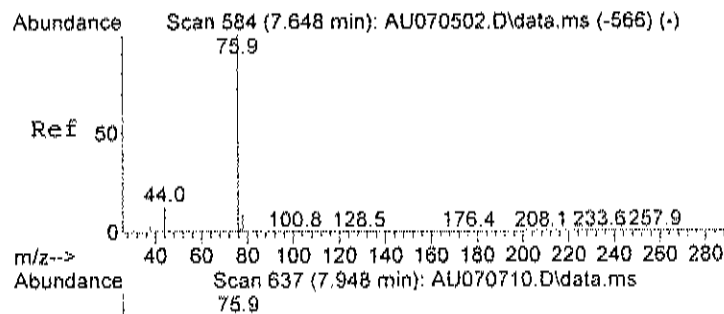
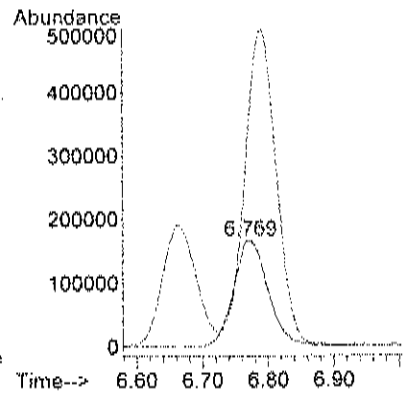
Tgt Ion	58	43	Resp	228453
Ion Ratio <td>100</td> <td>301.8</td> <td>Lower</td> <td>Upper</td>	100	301.8	Lower	Upper
			224.5	284.5#





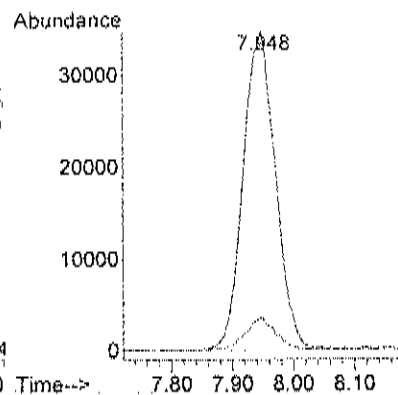
#17
Isopropyl alcohol
Concen: 4.06 ppb
RT: 6.769 min Scan# 429
Delta R.T. -0.017 min
Lab File: AU070710.D
Acq: 7 Jul 2023 2:25 pm

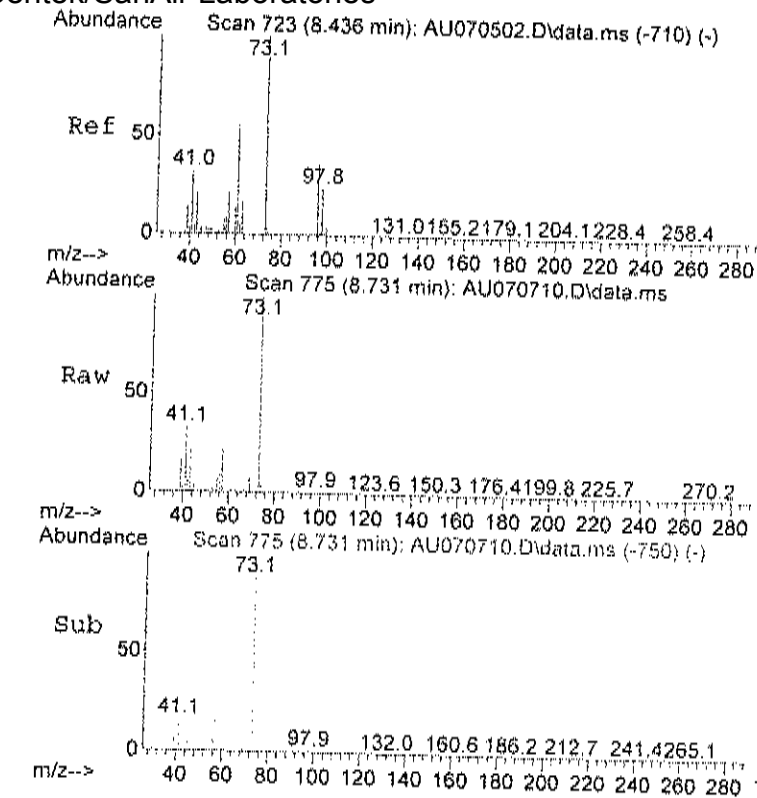
Tgt Ion:	45	Resp:	608516
Ion	Ratio	Lower	Upper
45	100		
43	271.3	110.3	150.3#



#23
Carbon disulfide
Concen: 0.50 ppb
RT: 7.948 min Scan# 637
Delta R.T. -0.000 min
Lab File: AU070710.D
Acq: 7 Jul 2023 2:25 pm

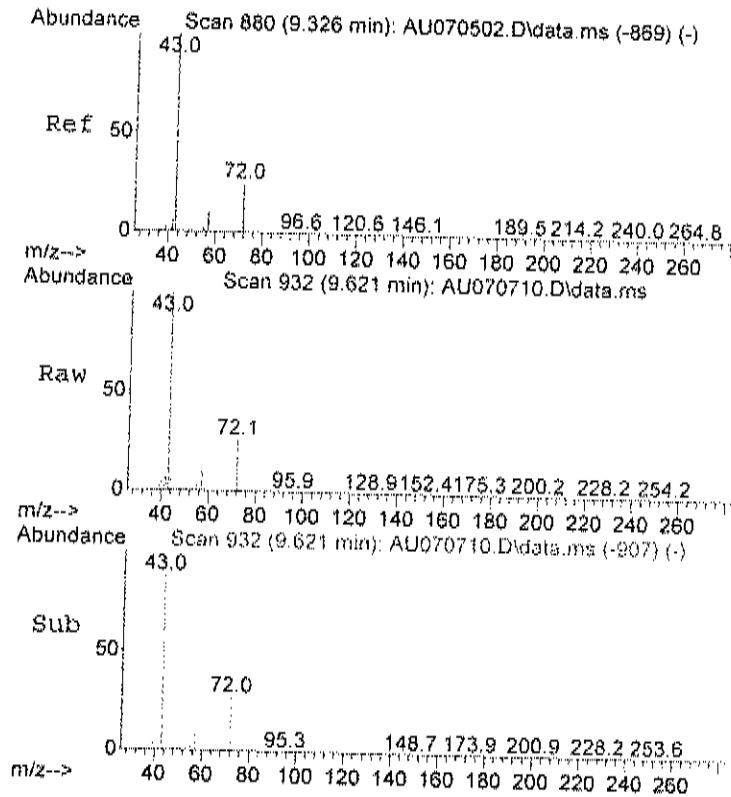
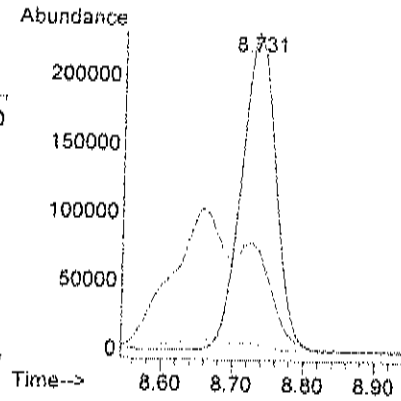
Tgt Ion:	76	Resp:	128465
Ion	Ratio	Lower	Upper
76	100		
78	9.4	0.0	29.3





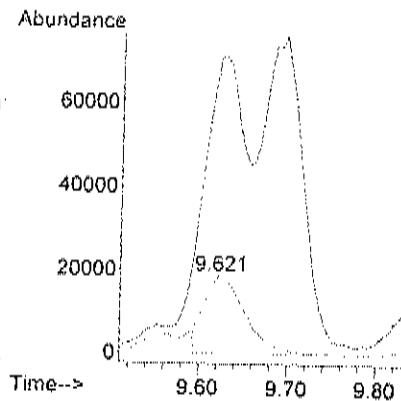
#25
methyl tert-butyl ether
Concen: 3.14 ppb
RT: 8.731 min Scan# 775
Delta R.T. -0.006 min
Lab File: AU070710.D
Acq: 7 Jul 2023 2:25 pm

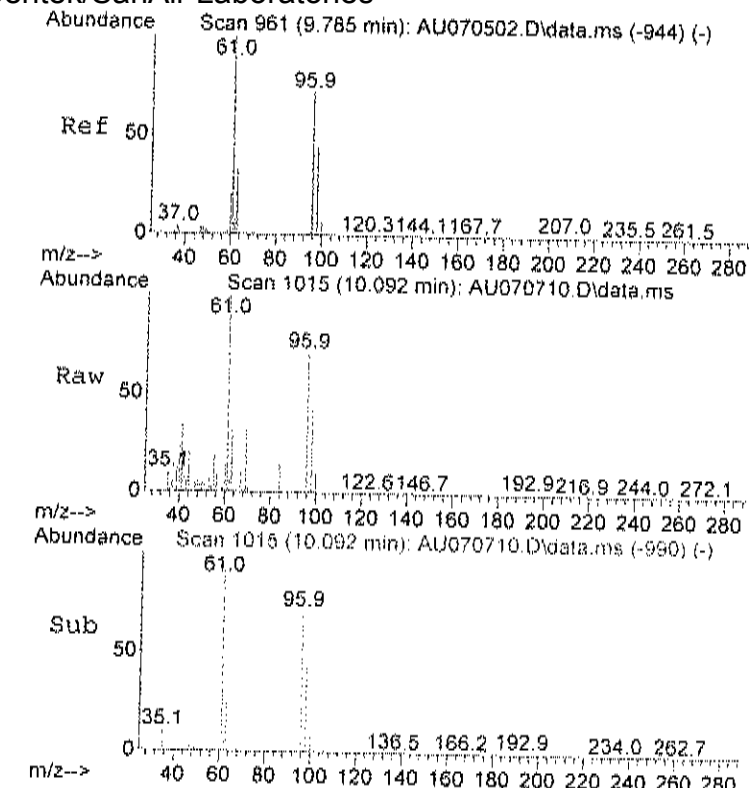
Tgt Ion	Ratio	Resp	Lower	Upper
73	100	777961		
41	0.0	0.0	37.6	
53	0.0	0.0	20.9	



#28
Methyl Ethyl Ketone
Concen: 1.30 ppb
RT: 9.621 min Scan# 932
Delta R.T. -0.006 min
Lab File: AU070710.D
Acq: 7 Jul 2023 2:25 pm

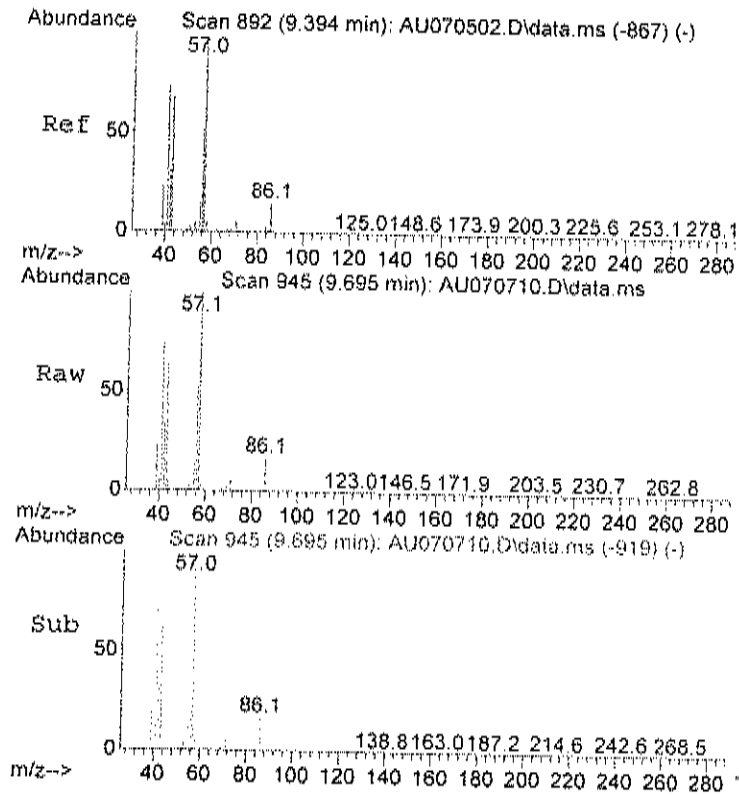
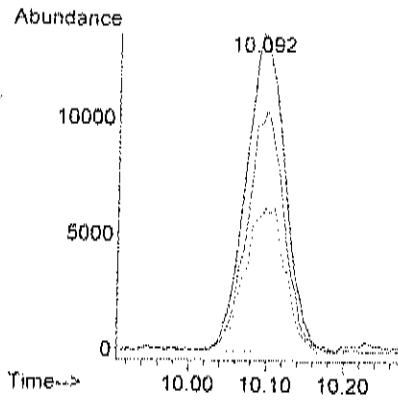
Tgt Ion	Ratio	Resp	Lower	Upper
72	100	60087		
43	0.0	389.0	429.0#	
72	100.0	80.0	120.0	





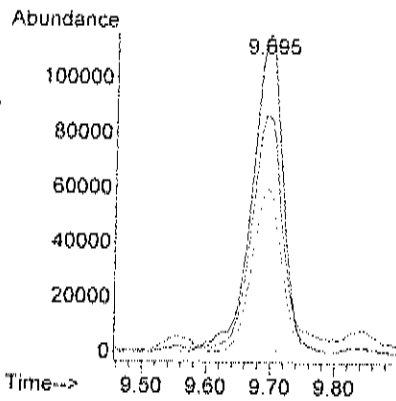
#29
cis-1,2-dichloroethene
Concen: 0.42 ppb
RT: 10.092 min Scan# 1015
Delta R.T. -0.006 min
Lab File: AU070710.D
Acq: 7 Jul 2023 2:25 pm

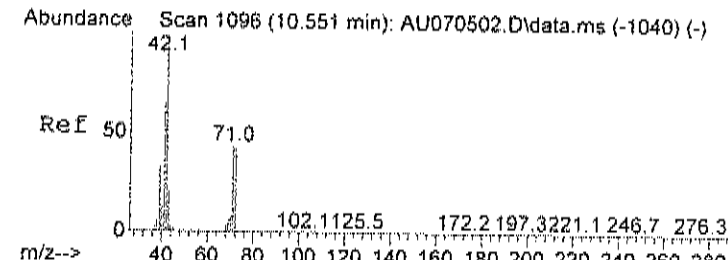
Tgt Ion	Ratio	Lower	Upper
61	100		
96	72.6	64.4	104.4
98	47.2	34.6	74.6



#30
Hexane
Concen: 2.63 ppb
RT: 9.695 min Scan# 945
Delta R.T. -0.000 min
Lab File: AU070710.D
Acq: 7 Jul 2023 2:25 pm

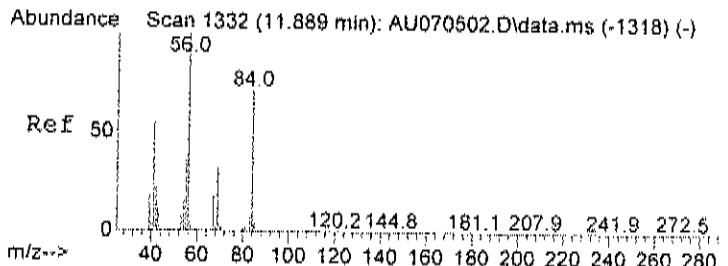
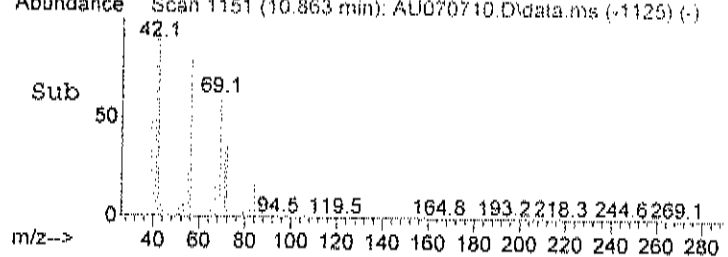
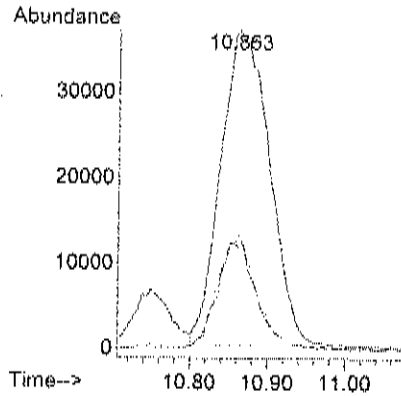
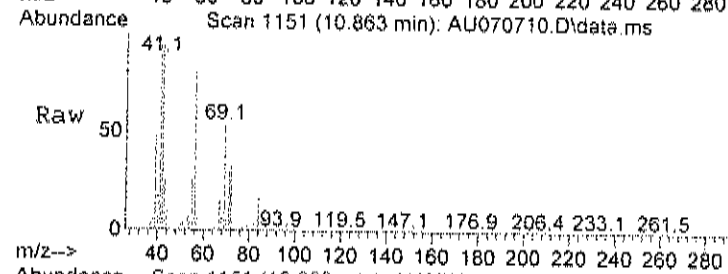
Tgt Ion	Ratio	Lower	Upper
57	100		
41	77.6	37.3	77.3#
56	52.2	24.8	64.8





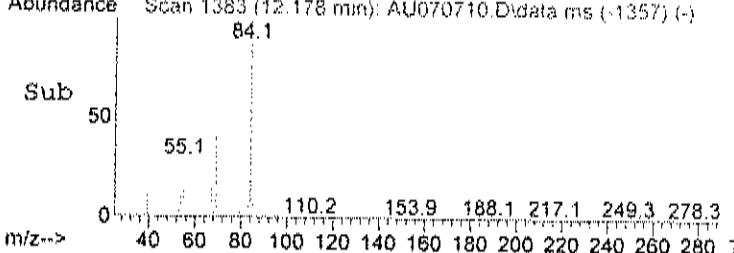
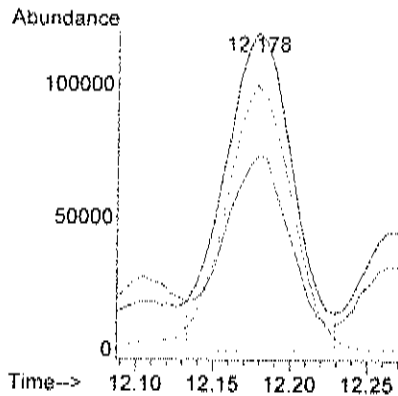
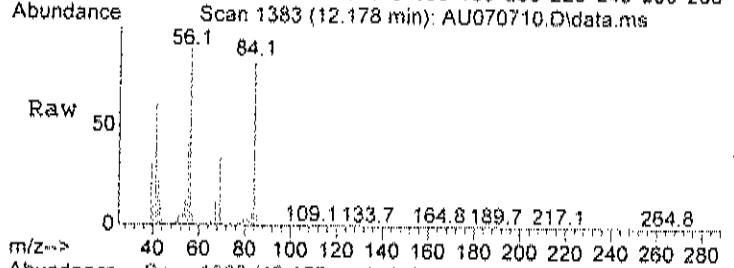
#33
Tetrahydrofuran
Concen: 1.66 ppb
RT: 10.863 min Scan# 1151
Delta R.T. -0.000 min
Lab File: AU070710.D
Acq: 7 Jul 2023 2:25 pm

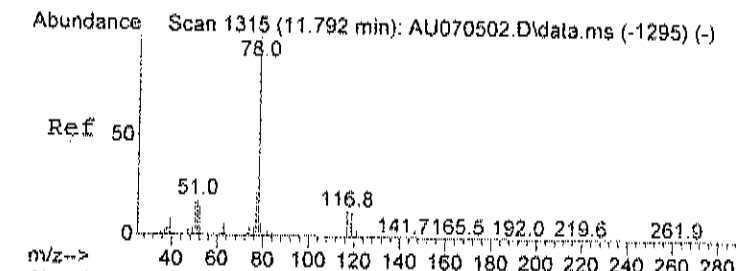
Tgt Ion	Ratio	Lower	Upper
42	100		
71	27.0	27.1	67.1#
72	28.2	30.8	70.8#



#37
Cyclohexane
Concen: 3.03 ppb m
RT: 12.178 min Scan# 1383
Delta R.T. -0.000 min
Lab File: AU070710.D
Acq: 7 Jul 2023 2:25 pm

Tgt Ion	Ratio	Lower	Upper
56	100		
41	46.5	28.1	68.1
84	82.7	85.3	125.3#





#39

Benzene

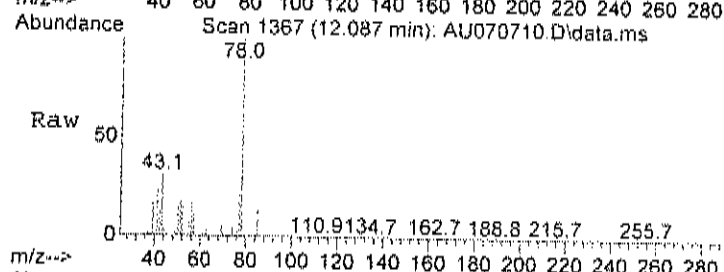
Concen: 1.13 ppb m

RT: 12.087 min Scan# 1367

Delta R.T. -0.006 min

Lab File: AU070710.D

Acq: 7 Jul 2023 2:25 pm



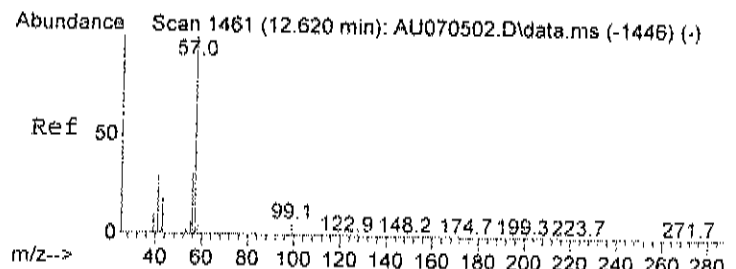
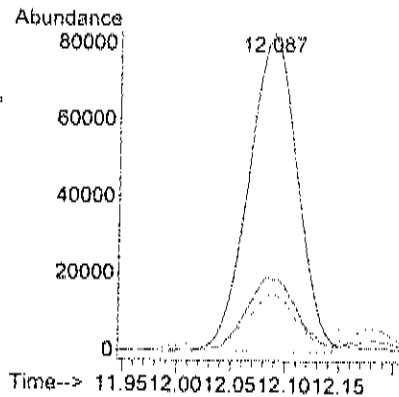
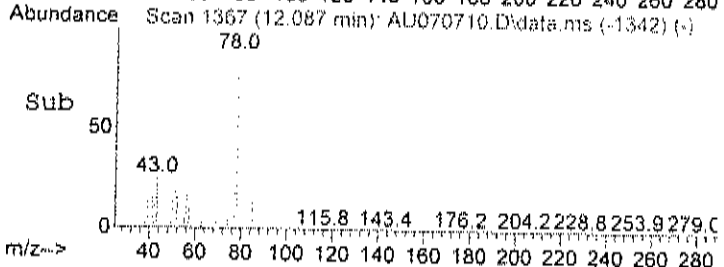
Tgt Ion: 78 Resp: 255565

Ion Ratio Lower Upper

78 100

77 28.6 3.8 43.8

51 23.2 0.0 35.4



#42

2,2,4-trimethylpentane

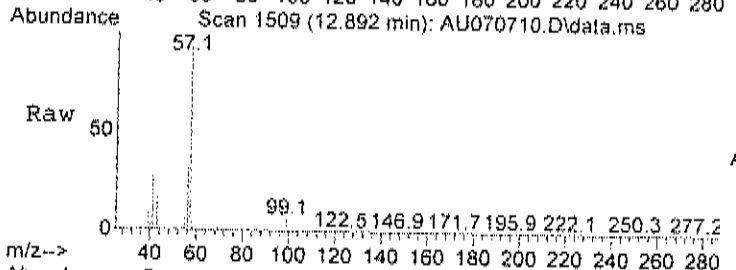
Concen: 1.89 ppb

RT: 12.892 min Scan# 1509

Delta R.T. -0.000 min

Lab File: AU070710.D

Acq: 7 Jul 2023 2:25 pm



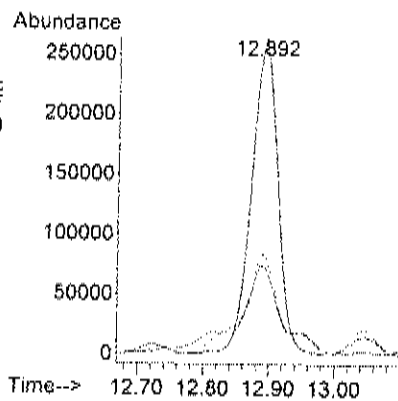
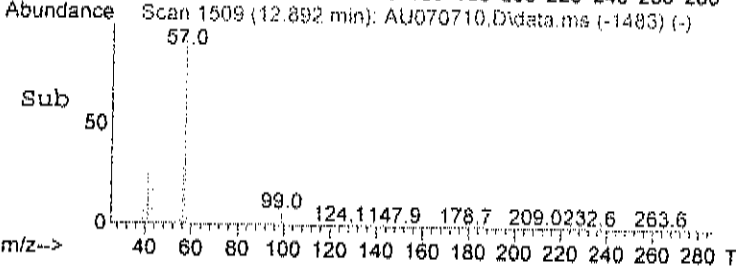
Tgt Ion: 57 Resp: 735668

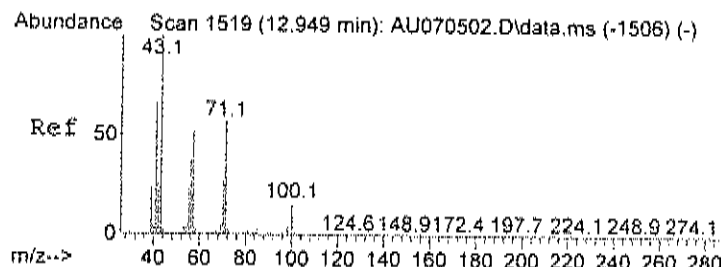
Ion Ratio Lower Upper

57 100

41 43.8 1.7 41.7#

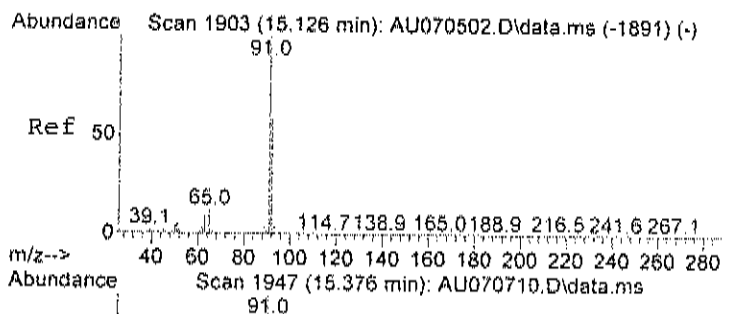
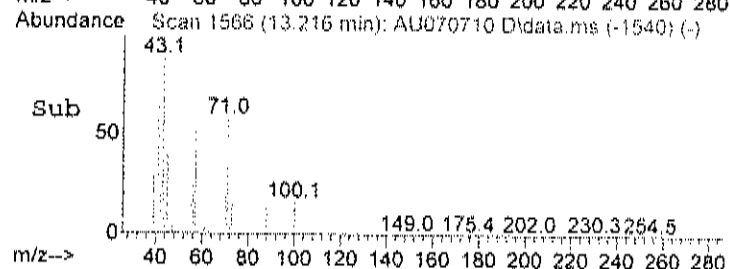
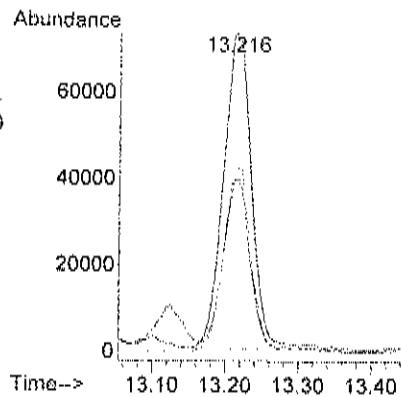
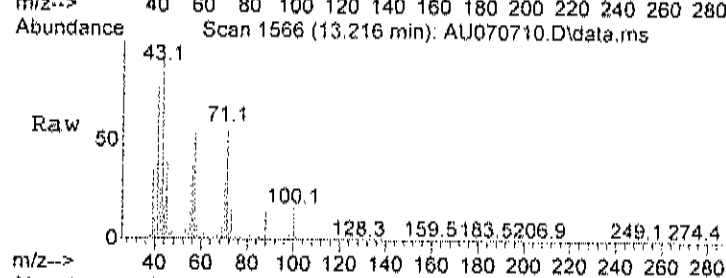
56 45.7 10.7 50.7





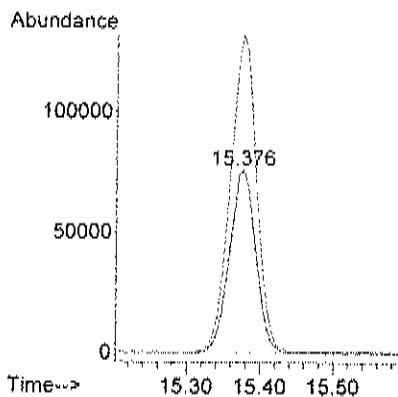
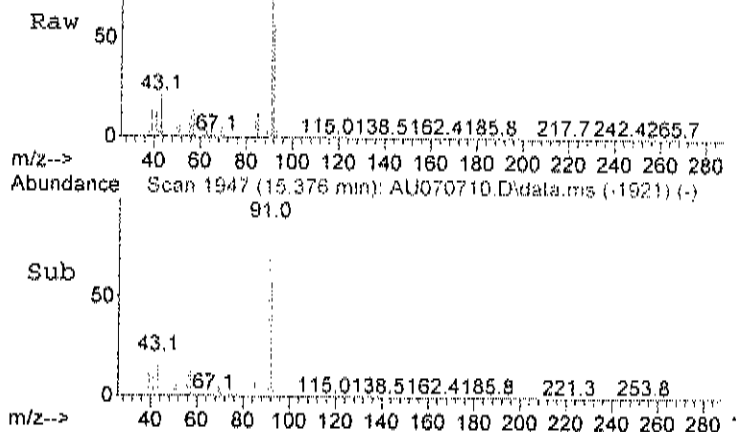
#43
Heptane
Concen: 1.31 ppb
RT: 13.216 min Scan# 1566
Delta R.T. -0.000 min
Lab File: AU070710.D
Acq: 7 Jul 2023 2:25 pm

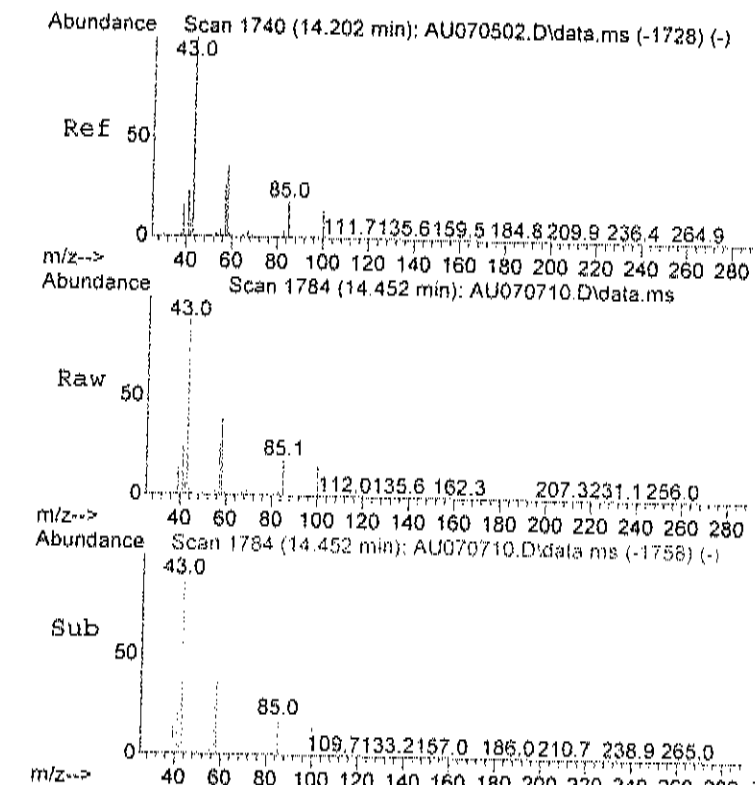
Tgt Ion	43	57	71
Ratio	100	53.1	56.8
Lower		40.9	51.1
Upper		80.9	91.1



#51
Toluene
Concen: 1.13 ppb
RT: 15.376 min Scan# 1947
Delta R.T. -0.000 min
Lab File: AU070710.D
Acq: 7 Jul 2023 2:25 pm

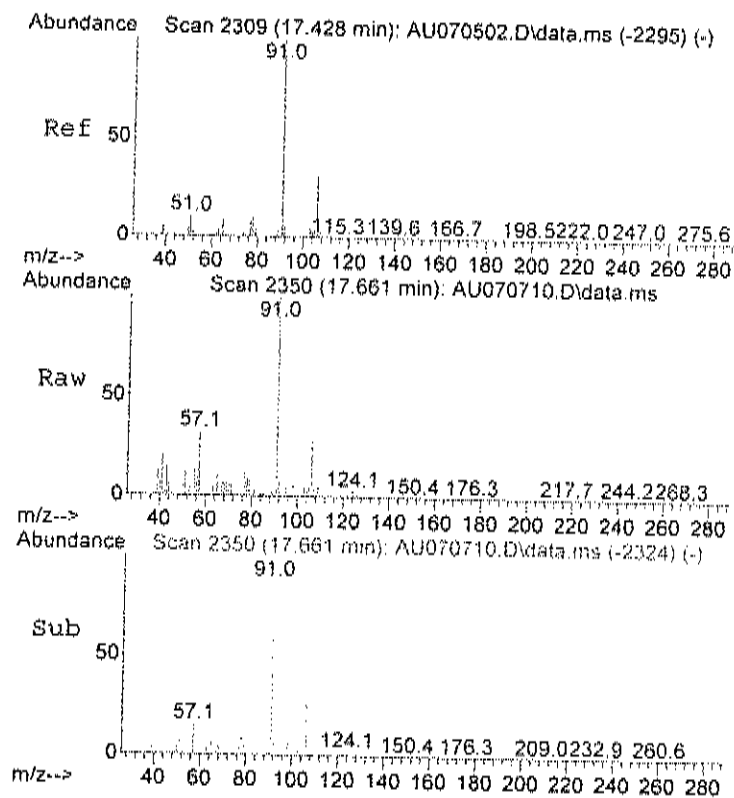
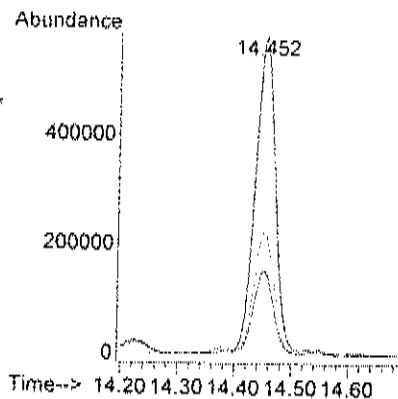
Tgt Ion	92	91
Ratio	100	174.3
Lower		150.4
Upper		190.4





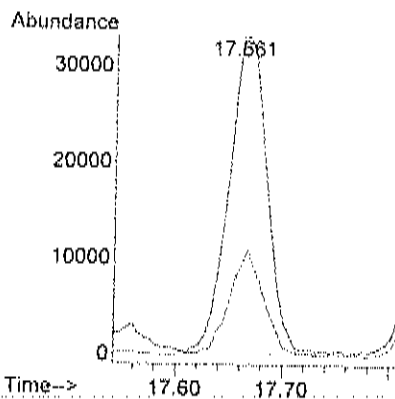
#52
Methyl Isobutyl Ketone
Concen: 6.14 ppb
RT: 14.452 min Scan# 1784
Delta R.T. -0.000 min
Lab File: AU070710.D
Acq: 7 Jul 2023 2:25 pm

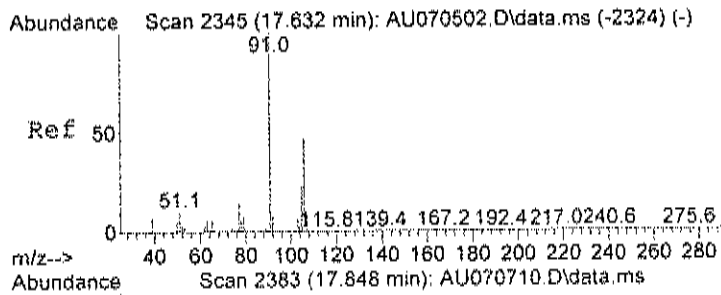
Tgt Ion	Ratio	Lower	Upper
43	100		
57	26.3	7.9	47.9
58	38.2	24.7	64.7



#58
Ethylbenzene
Concen: 0.22 ppb
RT: 17.661 min Scan# 2350
Delta R.T. -0.000 min
Lab File: AU070710.D
Acq: 7 Jul 2023 2:25 pm

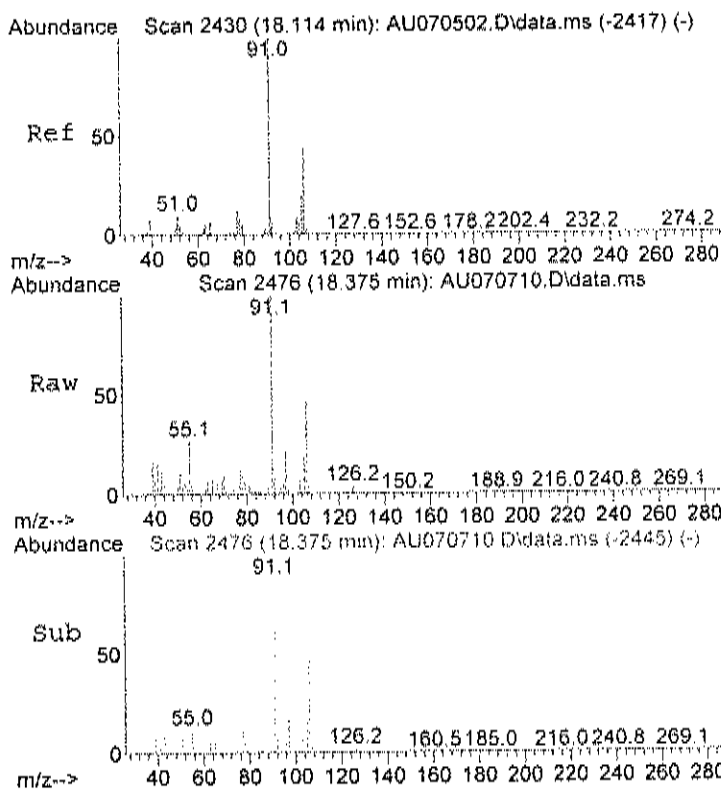
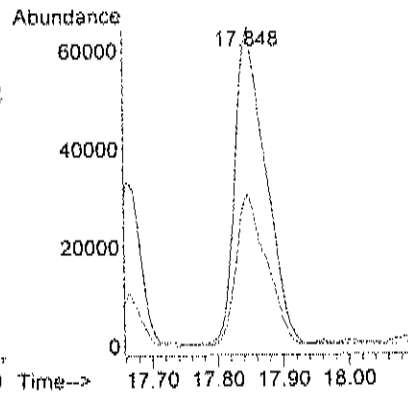
Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.9	13.1	53.1





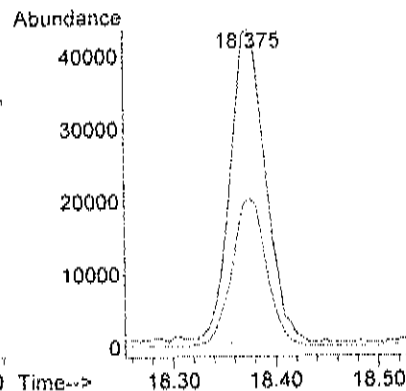
#59
m&p-xylene
Concen: 0.72 ppb
RT: 17.848 min Scan# 2383
Delta R.T. -0.017 min
Lab File: AU070710.D
Acq: 7 Jul 2023 2:25 pm

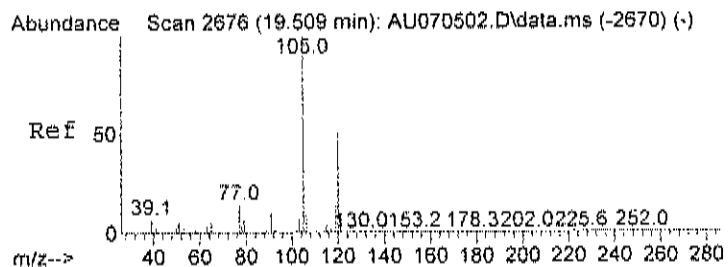
Tgt Ion: 91 Resp: 209824
Ion Ratio Lower Upper
91 100
106 47.8 32.1 72.1



#63
o-xylene
Concen: 0.35 ppb
RT: 18.375 min Scan# 2476
Delta R.T. 0.028 min
Lab File: AU070710.D
Acq: 7 Jul 2023 2:25 pm

Tgt Ion: 91 Resp: 103042
Ion Ratio Lower Upper
91 100
106 47.0 29.0 69.0





#70

1,3,5-trimethylbenzene

Concen: 0.18 ppb m

RT: 19.804 min Scan# 2728

Delta R.T. 0.068 min

Lab File: AU070710.D

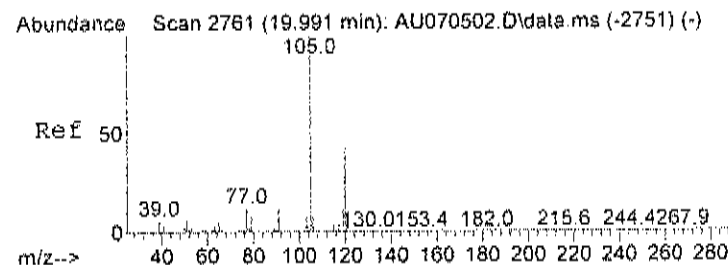
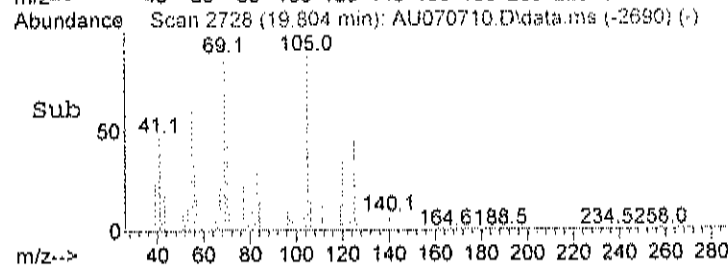
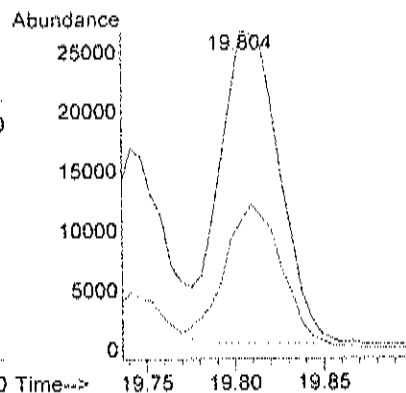
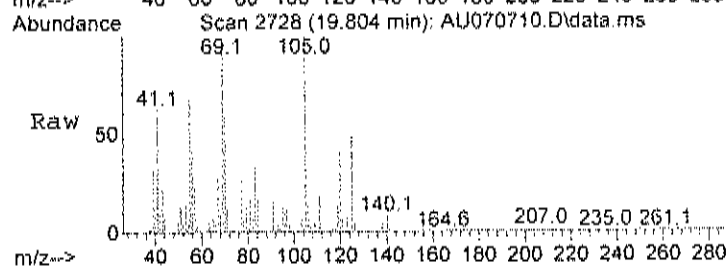
Acq: 7 Jul 2023 2:25 pm

Tgt Ion:105 Resp: 61208

Ion Ratio Lower Upper

105 100

120 46.8 28.3 68.3



#71

1,2,4-trimethylbenzene

Concen: 0.43 ppb m

RT: 20.308 min Scan# 2817

Delta R.T. 0.091 min

Lab File: AU070710.D

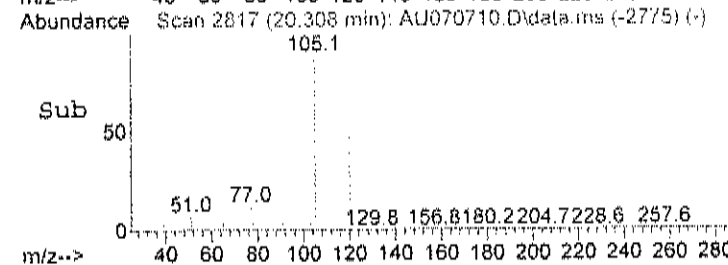
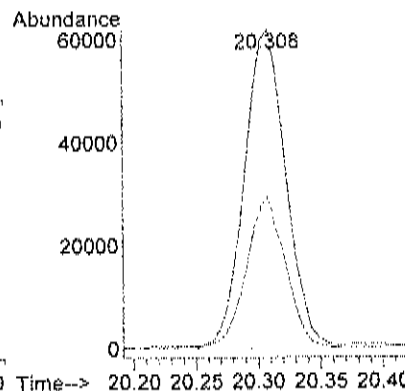
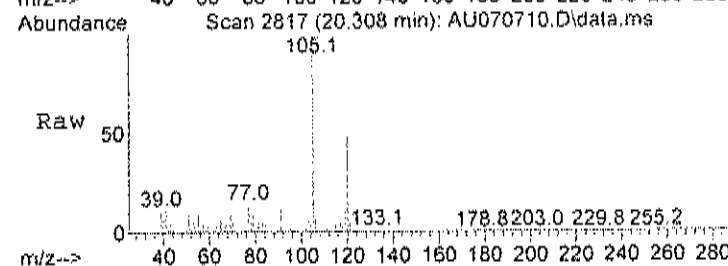
Acq: 7 Jul 2023 2:25 pm

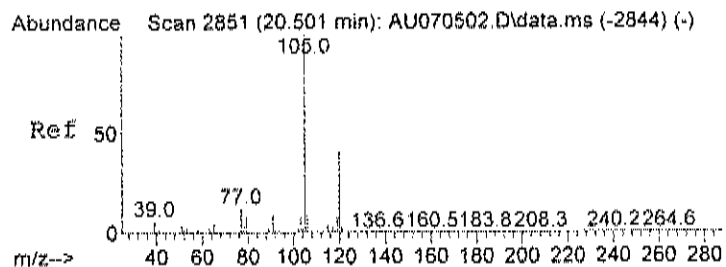
Tgt Ion:105 Resp: 143485

Ion Ratio Lower Upper

105 100

120 44.4 25.8 65.8





#75

1,2,3-trimethylbenzene

Concen: 0.24 ppb m

RT: 20.824 min Scan# 2908

Delta R.T. 0.091 min

Lab File: AU070710.D

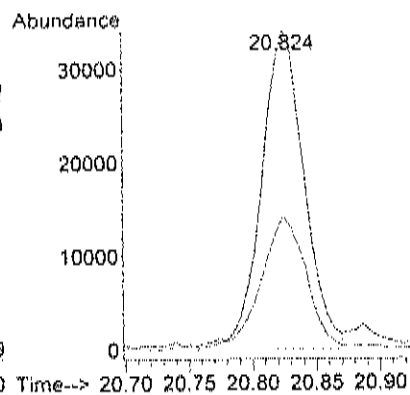
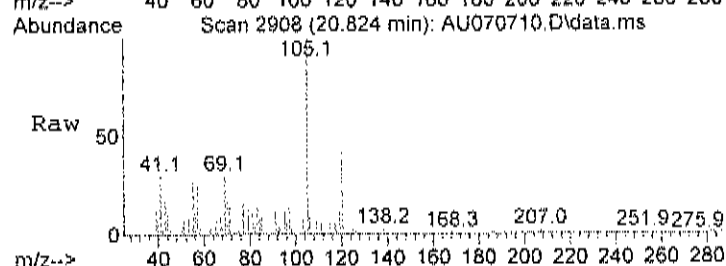
Acq: 7 Jul 2023 2:25 pm

Tgt Ion: 105 Resp: 79840

Ion Ratio Lower Upper

105 100

120 42.7 31.9 53.1



Data Path : C:\msdchem\1\data\
 Data File : AU070711.D
 Acq On : 7 Jul 2023 3:08 pm
 Operator : RJP
 Sample : C2307002-015A 40X
 Misc : A629_1UG
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 08 11:11:53 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

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

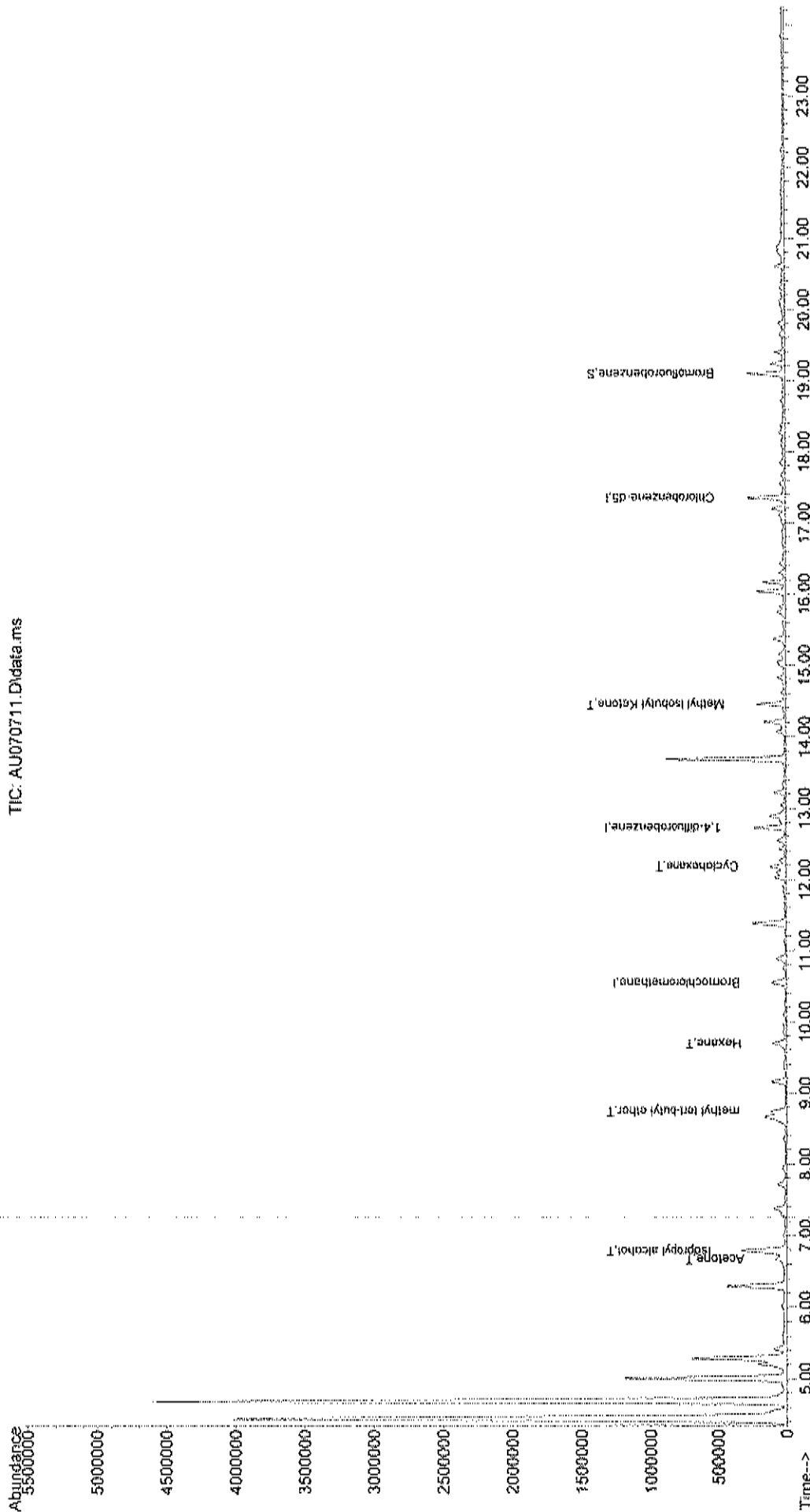
Internal Standards						
1) Bromochloromethane	10.545	128	49808	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.728	114	256533	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	212572	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	127031	0.79	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	79.00%
Target Compounds						
15) Acetone	6.667	58	47086m	0.80	ppb	Qvalue
17) Isopropyl alcohol	6.780	45	111269	0.73	ppb	# 1
25) methyl tert-butyl ether	8.736	73	133923	0.53	ppb	# 62
30) Hexane	9.689	57	65806	0.44	ppb	# 71
37) Cyclohexane	12.184	56	66820m	0.56	ppb	
52) Methyl Isobutyl Ketone	14.451	43	178736m	0.85	ppb	

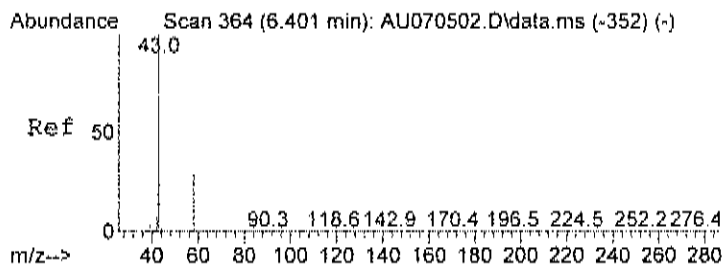
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : AU070711.D
 Acq On : 7 Jul 2023 3:08 pm
 Operator : RJP
 Sample : C2307002-015A 40X
 Misc : A629 1UG
 ALS Vial : 11 Sample Multiplier: 1

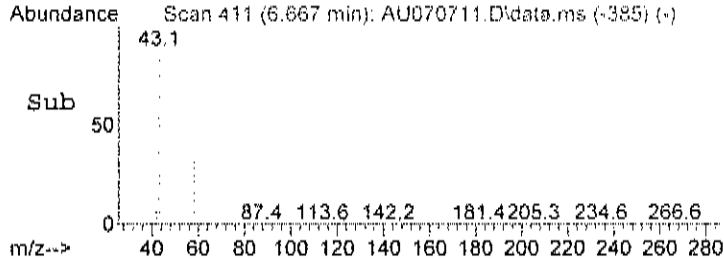
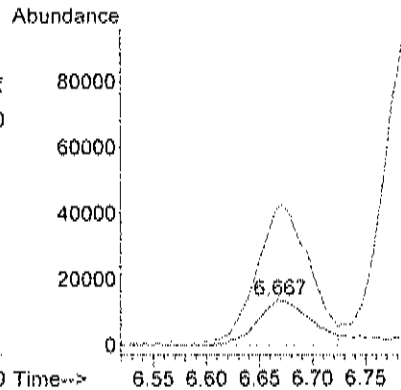
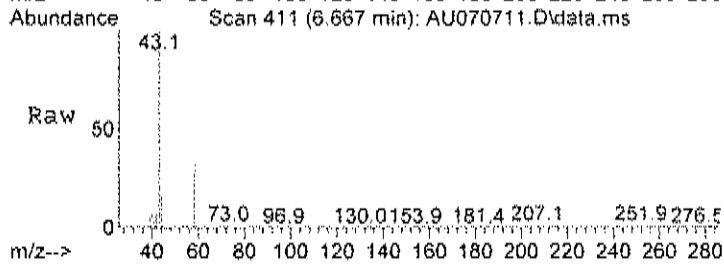
Quant Time: Jul 08 11:11:53 2023
 Quant Method : C:\msdchem\1\methods\A629 1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





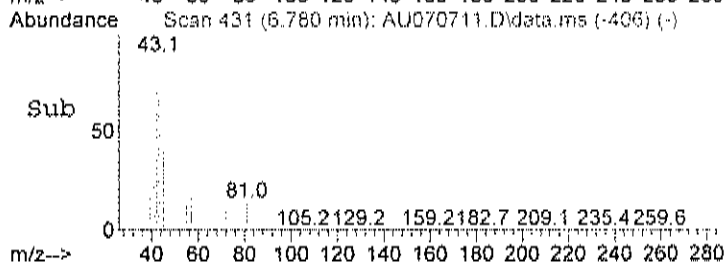
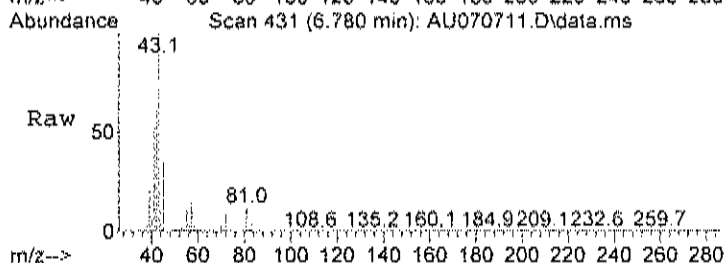
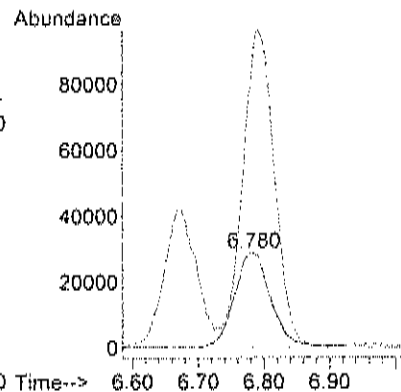
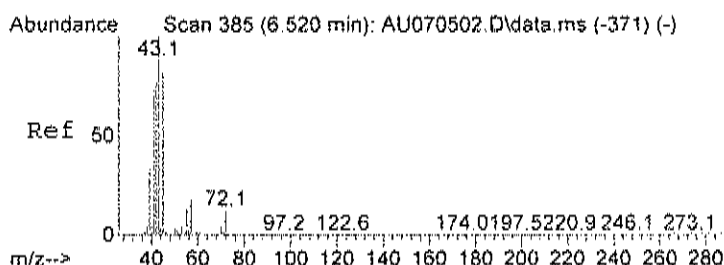
#15
Acetone
Concen: 0.80 ppb m
RT: 6.667 min Scan# 411
Delta R.T. -0.000 min
Lab File: AU070711.D
Acq: 7 Jul 2023 3:08 pm

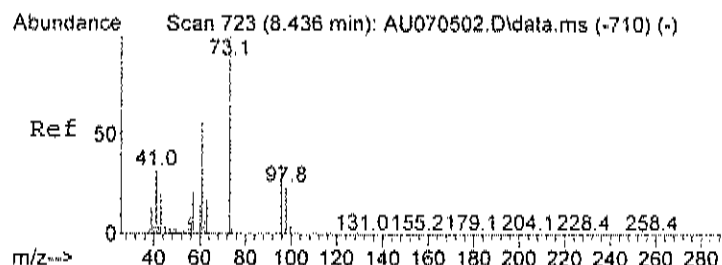
Tgt Ion	58	Resp	47086
Ion	Ratio	Lower	Upper
58	100		
43	308.2	224.5	284.5#



#17
Isopropyl alcohol
Concen: 0.73 ppb
RT: 6.780 min Scan# 431
Delta R.T. -0.006 min
Lab File: AU070711.D
Acq: 7 Jul 2023 3:08 pm

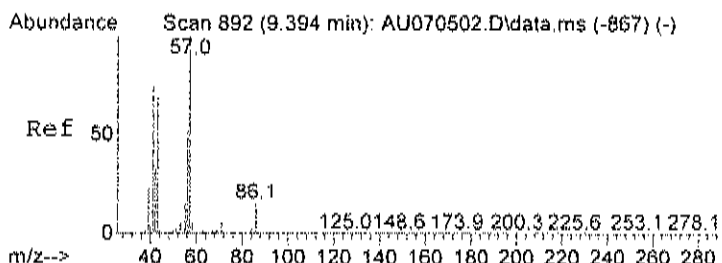
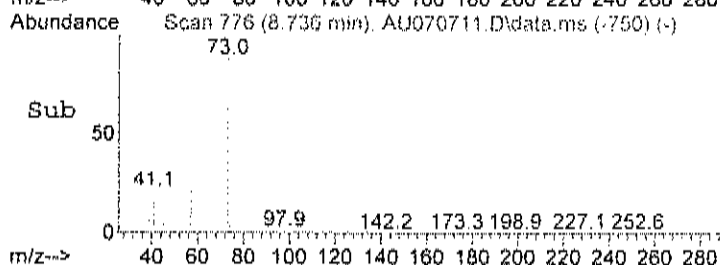
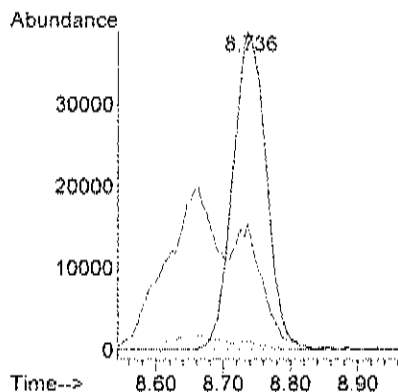
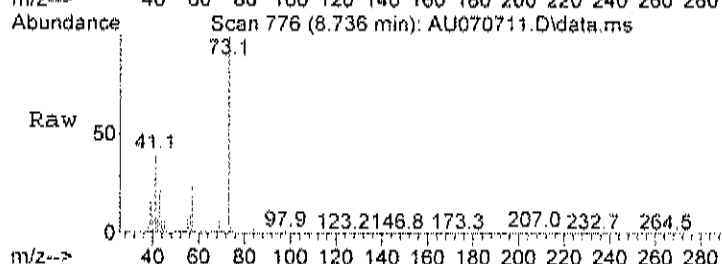
Tgt Ion	45	Resp	111269
Ion	Ratio	Lower	Upper
45	100		
43	287.9	110.3	150.3#





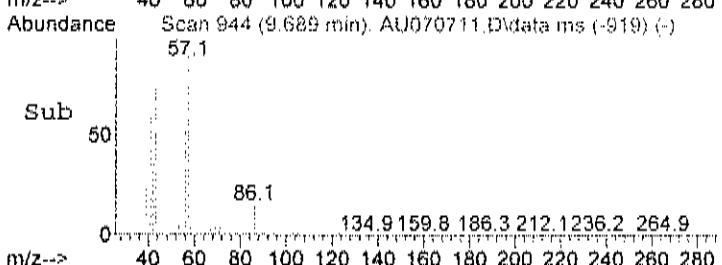
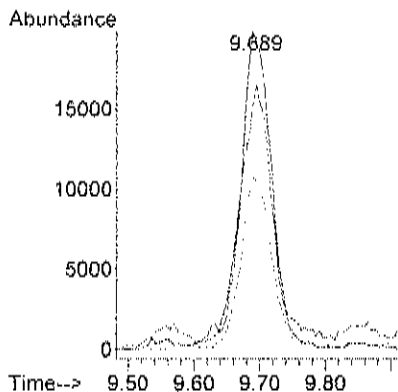
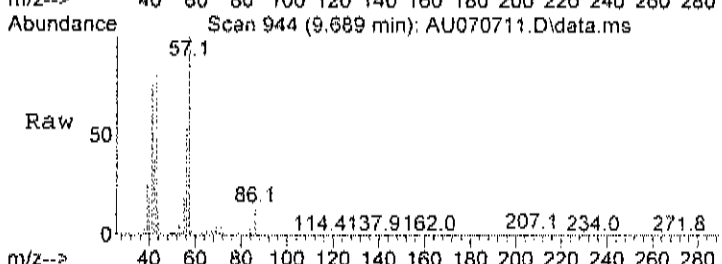
#25
methyl tert-butyl ether
Concen: 0.53 ppb
RT: 8.736 min Scan# 776
Delta R.T. -0.000 min
Lab File: AU070711.D
Acq: 7 Jul 2023 3:08 pm

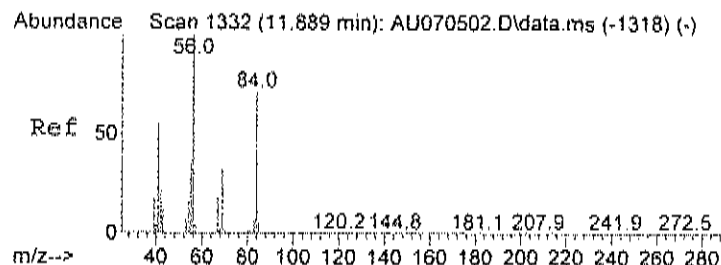
Tgt Ion: 73	Resp: 133923
Ion Ratio Lower Upper	
73 100	
41 0.0	0.0 37.6
53 0.0	0.0 20.9



#30
Hexane
Concen: 0.44 ppb
RT: 9.689 min Scan# 944
Delta R.T. -0.006 min
Lab File: AU070711.D
Acq: 7 Jul 2023 3:08 pm

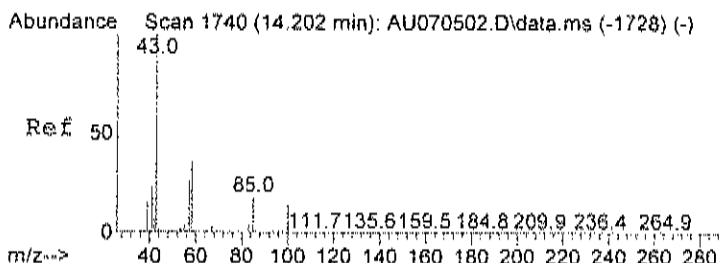
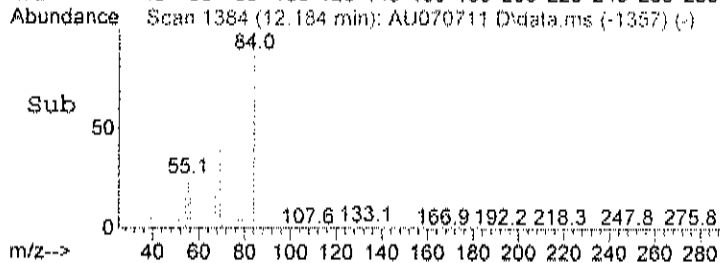
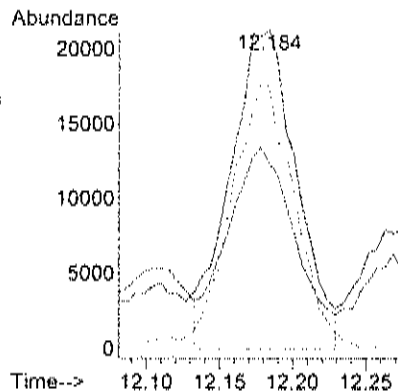
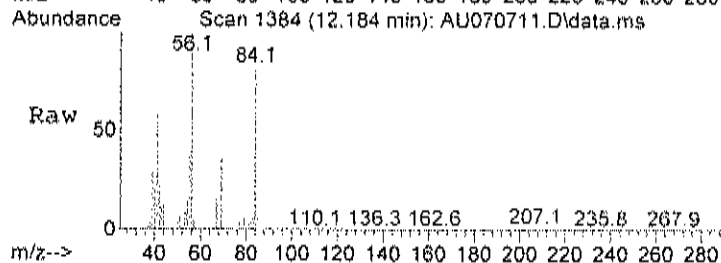
Tgt Ion: 57	Resp: 65806
Ion Ratio Lower Upper	
57 100	
41 85.5	37.3 77.3#
56 55.7	24.8 64.8





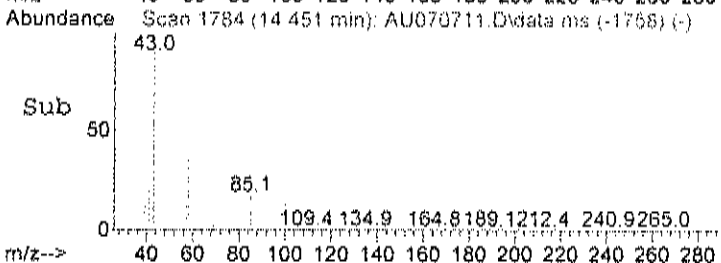
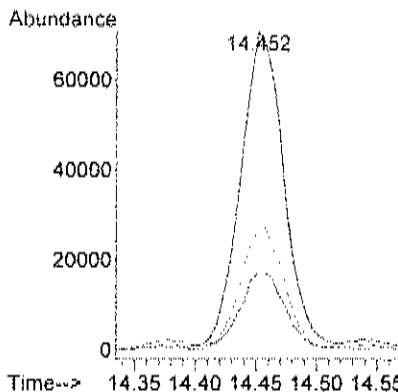
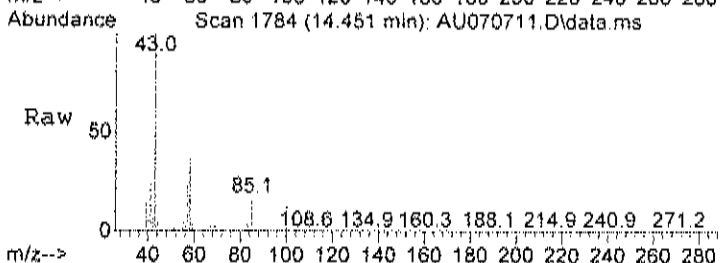
#37
Cyclohexane
Concen: 0.56 ppb m
RT: 12.184 min Scan# 1384
Delta R.T. 0.006 min
Lab File: AU070711.D
Acq: 7 Jul 2023 3:08 pm

Tgt Ion	Ratio	Lower	Upper
56	100		
41	0.0	28.1	68.1#
84	0.0	85.3	125.3#



#52
Methyl Isobutyl Ketone
Concen: 0.85 ppb m
RT: 14.451 min Scan# 1784
Delta R.T. -0.000 min
Lab File: AU070711.D
Acq: 7 Jul 2023 3:08 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
57	25.8	7.9	47.9
58	38.7	24.7	64.7



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-15

Lab Order: C2307002

Tag Number: 555,1157

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-016A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-2			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	0.29	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 11:43:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Acetone	13	3.0		ppbV	10	7/7/2023 3:51:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Benzene	0.29	0.15		ppbV	1	7/6/2023 11:43:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Carbon disulfide	8.9	1.5		ppbV	10	7/7/2023 3:51:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Chloroform	1.0	0.15		ppbV	1	7/6/2023 11:43:00 AM
Chloromethane	0.40	0.15		ppbV	1	7/6/2023 11:43:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte, Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 31 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-15

Lab Order: C2307002

Tag Number: 555.1157

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-016A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Ethyl acetate	0.27	0.15		ppbV	1	7/6/2023 11:43:00 AM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Freon 11	4.6	1.5		ppbV	10	7/7/2023 3:51:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Freon 114	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Freon 12	0.67	0.15		ppbV	1	7/6/2023 11:43:00 AM
Heptane	0.10	0.15	J	ppbV	1	7/6/2023 11:43:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Hexane	0.26	0.15		ppbV	1	7/6/2023 11:43:00 AM
Isopropyl alcohol	3.9	1.5		ppbV	10	7/7/2023 3:51:00 PM
m&p-Xylene	0.11	0.30	J	ppbV	1	7/6/2023 11:43:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 11:43:00 AM
Methyl Ethyl Ketone	0.67	0.30		ppbV	1	7/6/2023 11:43:00 AM
Methyl Isobutyl Ketone	0.28	0.30	J	ppbV	1	7/6/2023 11:43:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Methylene chloride	0.66	0.15		ppbV	1	7/6/2023 11:43:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Styrene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Tetrachloroethylene	4.6	1.5		ppbV	10	7/7/2023 3:51:00 PM
Tetrahydrofuran	0.47	0.15		ppbV	1	7/6/2023 11:43:00 AM
Toluene	0.52	0.15		ppbV	1	7/6/2023 11:43:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Trichloroethene	0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 11:43:00 AM
Surr: Bromofluorobenzene	67.0	70-130		%REC	1	7/6/2023 11:43:00 AM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 32 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-15

Lab Order: C2307002

Tag Number: 555,1157

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-016A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	1.6	0.82		ug/m3	1	7/6/2023 11:43:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 11:43:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 11:43:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 11:43:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 11:43:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 11:43:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 11:43:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 11:43:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 11:43:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 11:43:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 11:43:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/6/2023 11:43:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 11:43:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 11:43:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 11:43:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 11:43:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/6/2023 11:43:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/6/2023 11:43:00 AM
Acetone	31	7.1		ug/m3	10	7/7/2023 3:51:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 11:43:00 AM
Benzene	0.93	0.48		ug/m3	1	7/6/2023 11:43:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 11:43:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 11:43:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 11:43:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 11:43:00 AM
Carbon disulfide	28	4.7		ug/m3	10	7/7/2023 3:51:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 11:43:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/6/2023 11:43:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	7/6/2023 11:43:00 AM
Chloroform	4.9	0.73		ug/m3	1	7/6/2023 11:43:00 AM
Chloromethane	0.83	0.31		ug/m3	1	7/6/2023 11:43:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 11:43:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 11:43:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/6/2023 11:43:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 11:43:00 AM
Ethyl acetate	0.97	0.54		ug/m3	1	7/6/2023 11:43:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/6/2023 11:43:00 AM
Freon 11	26	8.4		ug/m3	10	7/7/2023 3:51:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 11:43:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	7/6/2023 11:43:00 AM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 31 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-016A

Client Sample ID: SVW-15
Tag Number: 555.1157
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	3.3	0.74		ug/m3	1	7/6/2023 11:43:00 AM
Heptane	0.41	0.61	J	ug/m3	1	7/6/2023 11:43:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 11:43:00 AM
Hexane	0.92	0.53		ug/m3	1	7/6/2023 11:43:00 AM
isopropyl alcohol	9.6	3.7		ug/m3	10	7/7/2023 3:51:00 PM
m&p-Xylene	0.48	1.3	J	ug/m3	1	7/6/2023 11:43:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 11:43:00 AM
Methyl Ethyl Ketone	2.6	0.88		ug/m3	1	7/6/2023 11:43:00 AM
Methyl Isobutyl Ketone	1.1	1.2	J	ug/m3	1	7/6/2023 11:43:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 11:43:00 AM
Methylene chloride	3.0	0.52		ug/m3	1	7/6/2023 11:43:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	7/6/2023 11:43:00 AM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 11:43:00 AM
Styrene	< 0.64	0.64		ug/m3	1	7/6/2023 11:43:00 AM
Tetrachloroethylene	31	10		ug/m3	10	7/7/2023 3:51:00 PM
Tetrahydrofuran	1.4	0.44		ug/m3	1	7/6/2023 11:43:00 AM
Toluene	2.0	0.57		ug/m3	1	7/6/2023 11:43:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 11:43:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 11:43:00 AM
Trichloroethene	0.81	0.81		ug/m3	1	7/6/2023 11:43:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 11:43:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 11:43:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 11:43:00 AM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 32 of 40

Data Path : C:\msdchem\1\data\
 Data File : AU070609.D
 Acq On : 6 Jul 2023 11:43 am
 Operator : RJP
 Sample : C2307002-016A
 Misc : A629 1UG
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 10 10:16:35 2023

Quant Method : C:\msdchem\1\methods\A629_1UG.M

Quant Title : TO-15 VOA Standards for 5 point calibration

QLast Update : Thu Jul 06 07:42:39 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.545	128	69106	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	337098	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	300080	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	19.050	95	197393	0.87	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	87.00%

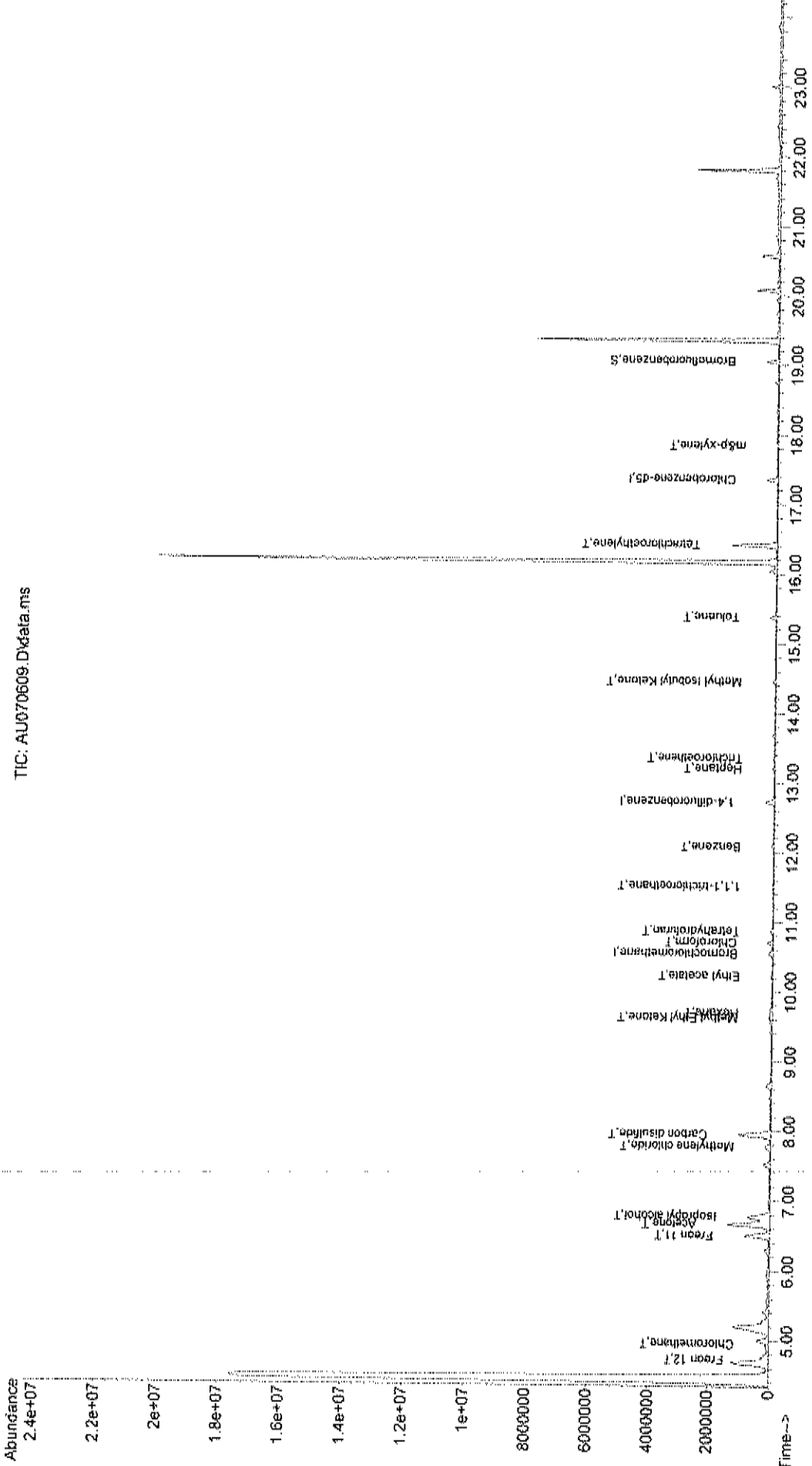
Target Compounds

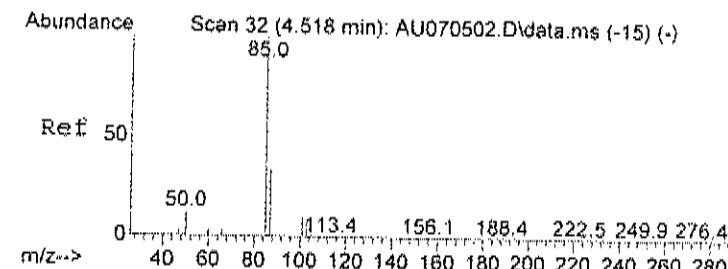
	R.T.	QIon	Response	Conc	Units	Qvalue
3) Freon 12	4.728	85	191673	0.67	ppb	97
4) Chloromethane	4.955	50	36449	0.40	ppb	91
14) Freon 11	6.503	101	1219102	4.28	ppb	99
15) Acetone	6.667	58	948893m	11.63	ppb	
17) Isopropyl alcohol	6.775	45	799094	3.78	ppb	# 1
21) Methylene chloride	7.778	84	148989	0.86	ppb	93
23) Carbon disulfide	7.948	76	2911094	8.00	ppb	100
28) Methyl Ethyl Ketone	9.627	72	56286m	0.87	ppb	
30) Hexane	9.695	57	53684m	0.26	ppb	
31) Ethyl acetate	10.222	43	79338	0.27	ppb	96
32) Chloroform	10.704	83	228648	1.00	ppb	99
33) Tetrahydrofuran	10.863	42	65372	0.47	ppb	89
36) 1,1,1-trichloroethane	11.509	97	56896	0.29	ppb	98
39) Benzene	12.082	78	82467	0.29	ppb	93
43) Heptane	13.204	43	19195m	0.10	ppb	
44) Trichloroethene	13.352	130	19272	0.15	ppb	97
51) Toluene	15.376	92	109357	0.52	ppb	96
52) Methyl Isobutyl Ketone	14.452	43	84160	0.28	ppb	91
56) Tetrachloroethylene	16.413	164	499810	4.19	ppb	99
59) m&p-xylene	17.836	91	38724m	0.11	ppb	

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

Data Path : C:\msdchem\1\data\
Data File : AU070609.D
Acq On : 6 Jul 2023 11:43 am
Operator : RJP
Sample : C2307002-016A
Misc : A629_1UG
ALS Vial : 5 Sample Multiplier: 1

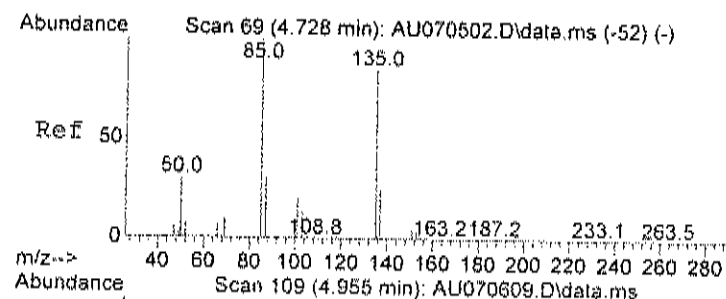
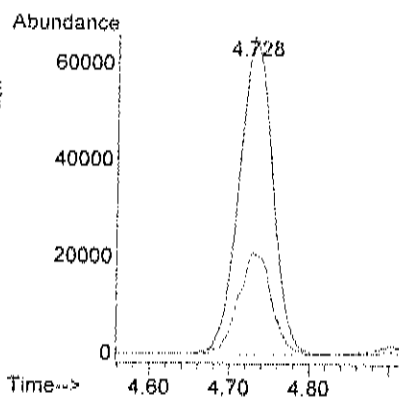
Quant Time: Jul 10 10:16:35 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration





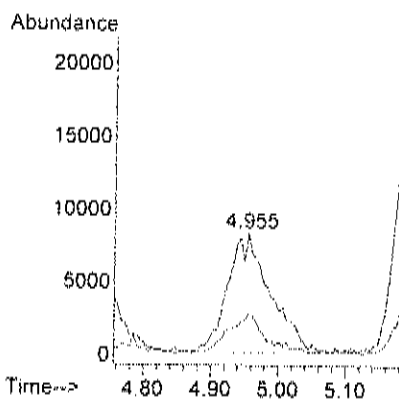
#3
Freon 12
Concen: 0.67 ppb
RT: 4.728 min Scan# 69
Delta R.T. -0.006 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

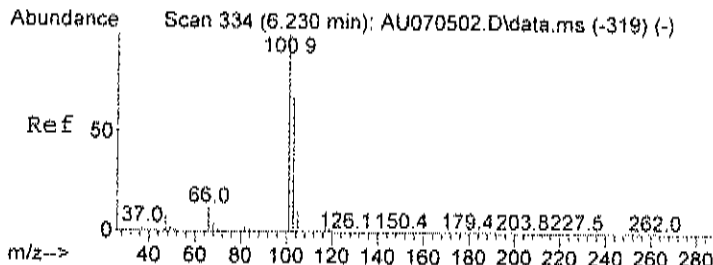
Tgt Ion: 85 Resp: 191673
Ion Ratio Lower Upper
85 100
87 31.9 13.4 53.4



#4
Chloromethane
Concen: 0.40 ppb
RT: 4.955 min Scan# 109
Delta R.T. -0.000 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

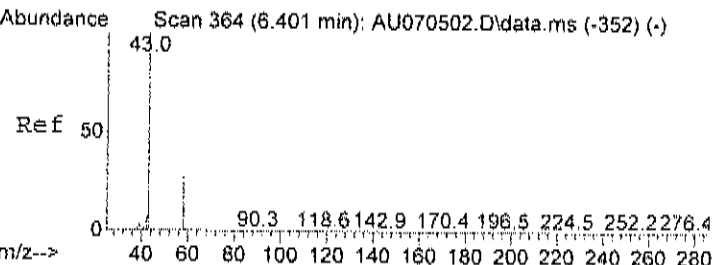
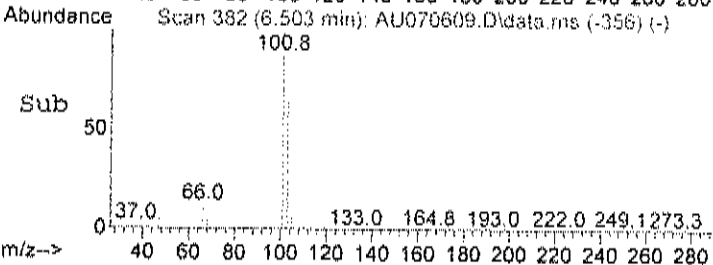
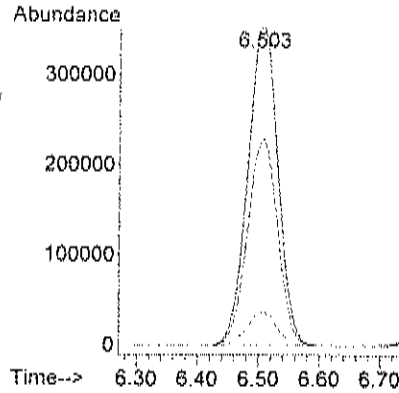
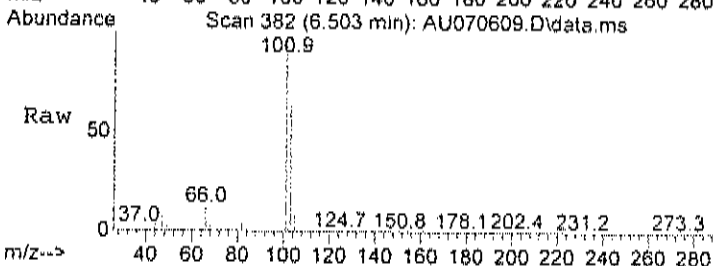
Tgt Ion: 50 Resp: 36449
Ion Ratio Lower Upper
50 100
52 31.8 6.9 46.9





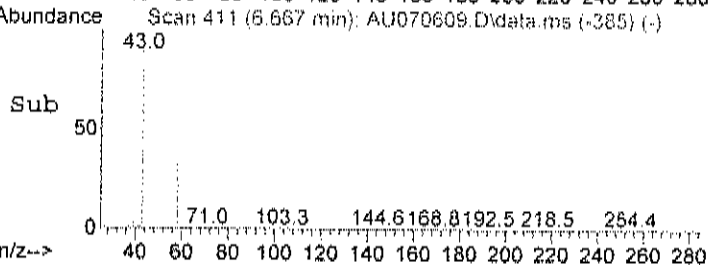
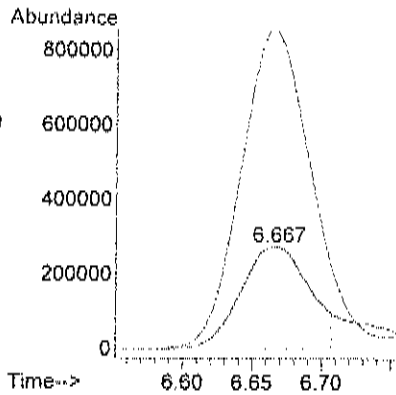
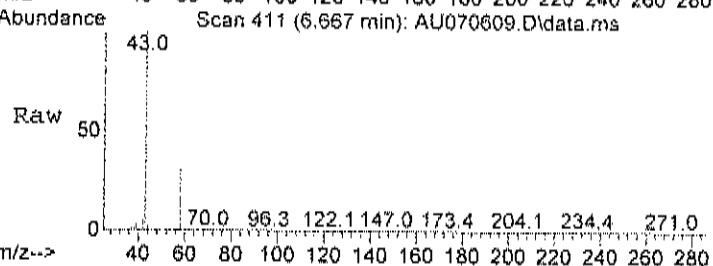
#14
Freon 11
Concen: 4.28 ppb
RT: 6.503 min Scan# 382
Delta R.T. -0.000 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

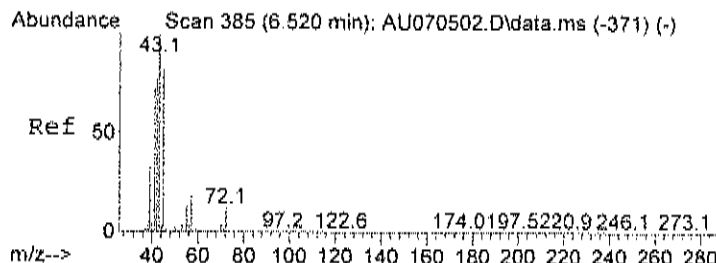
Tgt Ion:	101	Resp:	1219102
Ion Ratio	Lower	Upper	
101	100		
103	64.8	44.0	84.0
105	10.5	0.0	31.4



#15
Acetone
Concen: 11.63 ppb m
RT: 6.667 min Scan# 411
Delta R.T. -0.000 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

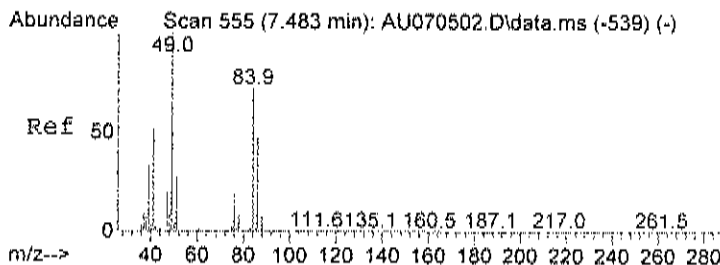
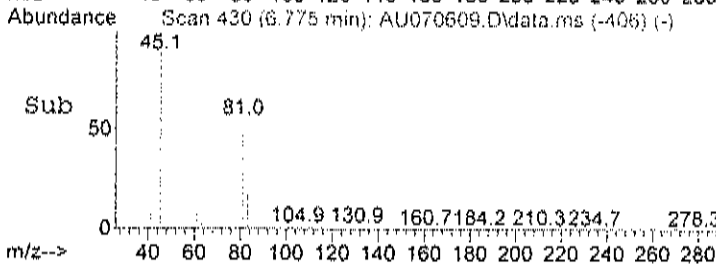
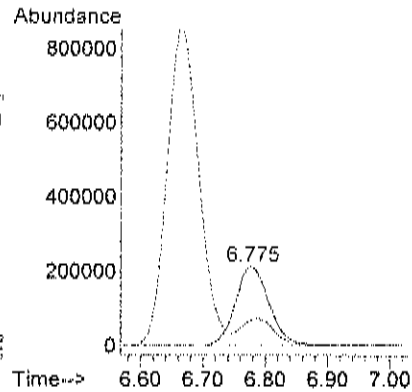
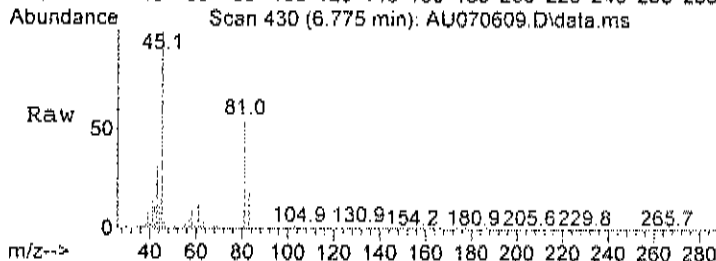
Tgt Ion:	58	Resp:	948893
Ion Ratio	Lower	Upper	
58	100		
43	341.9	224.5	284.5#





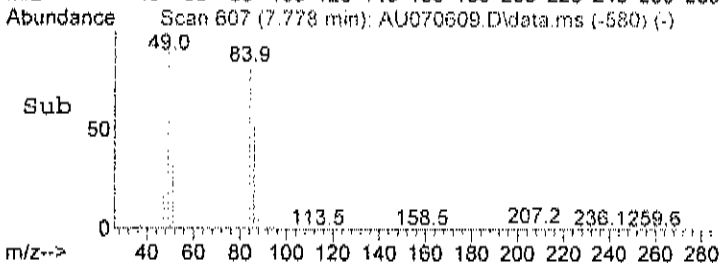
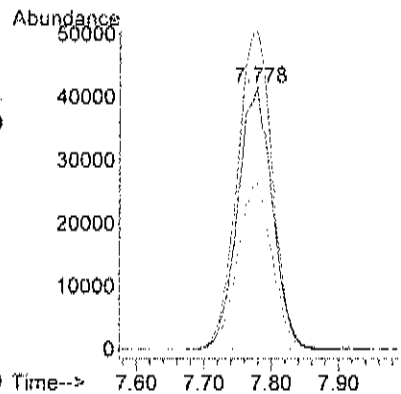
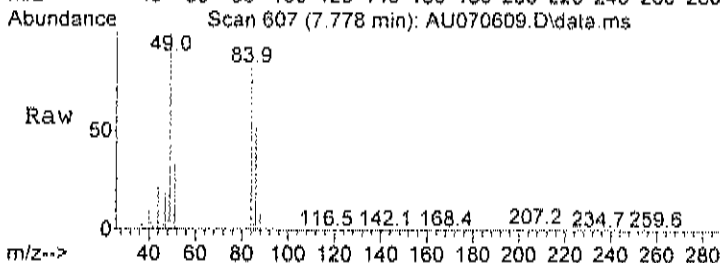
#17
Isopropyl alcohol
Concen: 3.78 ppb
RT: 6.775 min Scan# 430
Delta R.T. -0.011 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

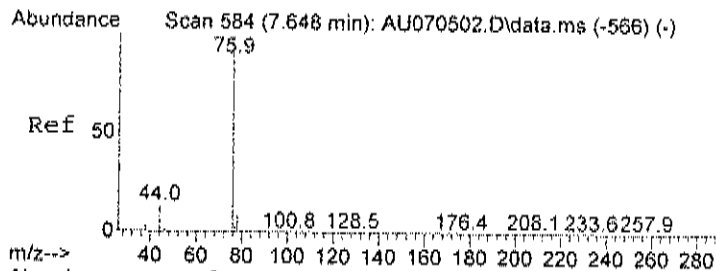
Tgt Ion: 45 Resp: 799094
Ion Ratio Lower Upper
45 100
43 0.0 110.3 150.3#



#21
Methylene chloride
Concen: 0.86 ppb
RT: 7.778 min Scan# 607
Delta R.T. 0.006 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

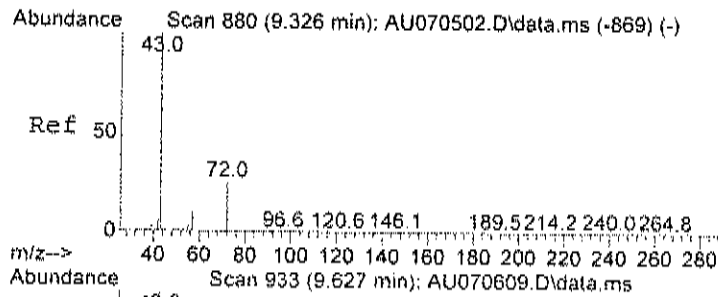
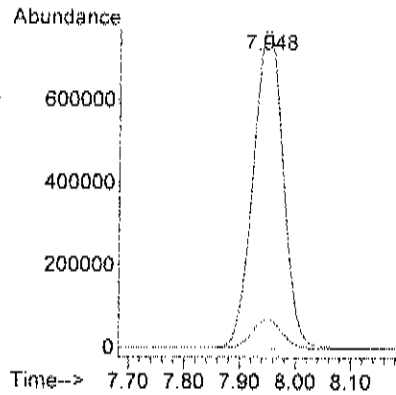
Tgt Ion: 84 Resp: 148989
Ion Ratio Lower Upper
84 100
49 124.5 93.0 133.0
86 63.7 43.7 83.7





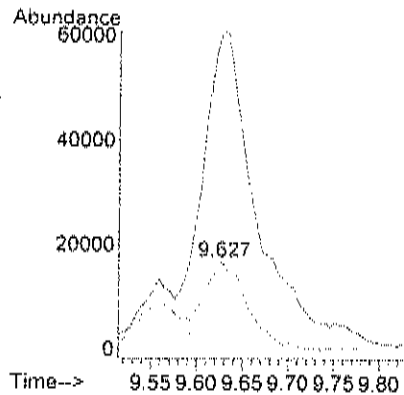
#23
Carbon disulfide
Concen: 8.00 ppb
RT: 7.948 min Scan# 637
Delta R.T. -0.000 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

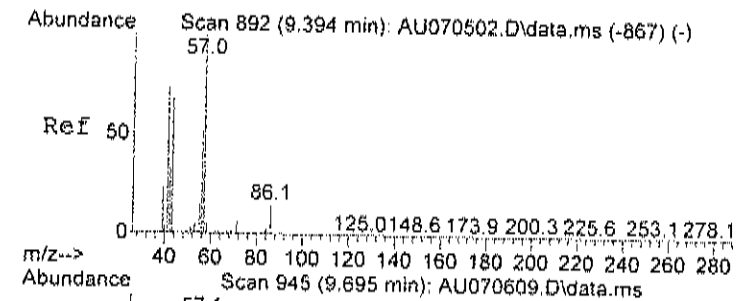
Tgt Ion: 76 Resp: 2911094
Ion Ratio Lower Upper
76 100
78 9.1 0.0 29.3



#28
Methyl Ethyl Ketone
Concen: 0.87 ppb m
RT: 9.627 min Scan# 933
Delta R.T. -0.000 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

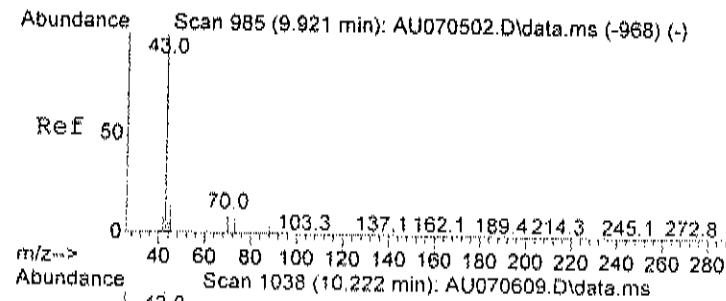
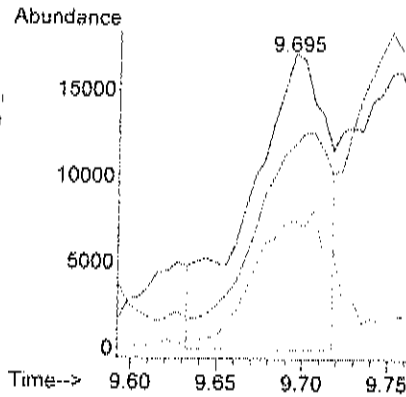
Tgt Ion: 72 Resp: 56286
Ion Ratio Lower Upper
72 100
43 350.9 389.0 429.0#
72 151.3 80.0 120.0#





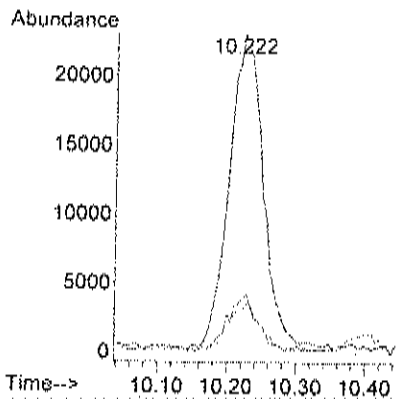
#30
Hexane
Concen: 0.26 ppb m
RT: 9.695 min Scan# 945
Delta R.T. -0.000 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

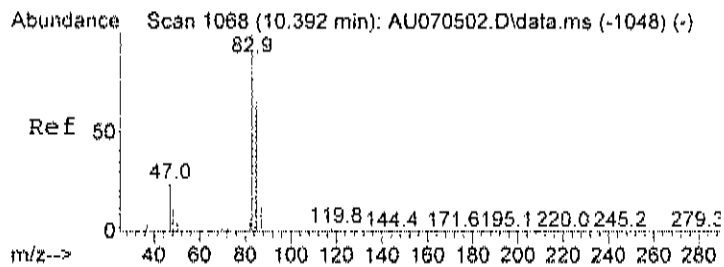
Tgt Ion:	57	Resp:	53684
Ion Ratio	Lower	Upper	
57	100		
41	0.0	37.3	77.3#
56	56.4	24.8	64.8



#31
Ethyl acetate
Concen: 0.27 ppb
RT: 10.222 min Scan# 1038
Delta R.T. -0.000 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

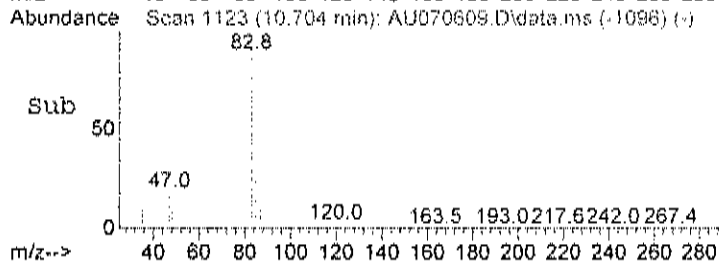
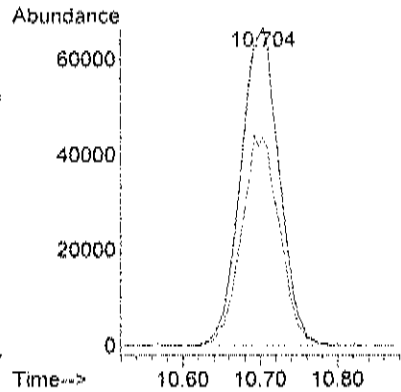
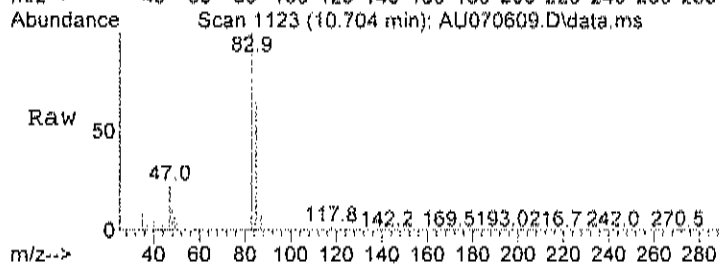
Tgt Ion:	43	Resp:	79338
Ion Ratio	Lower	Upper	
43	100		
45	16.9	0.0	35.3
61	15.0	0.0	37.0





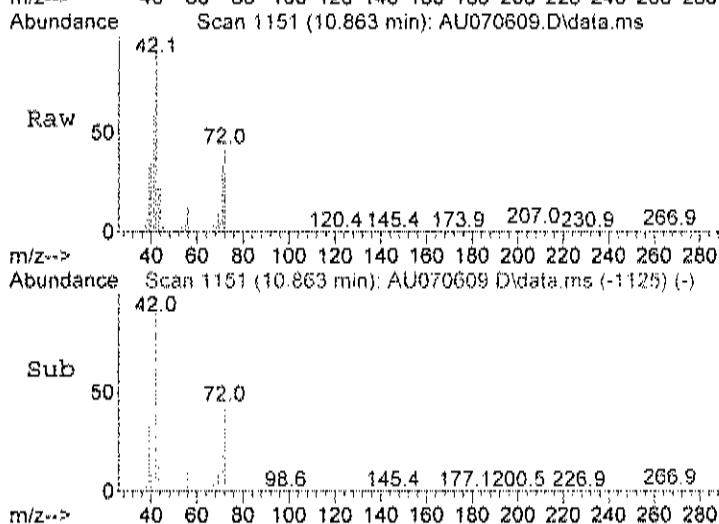
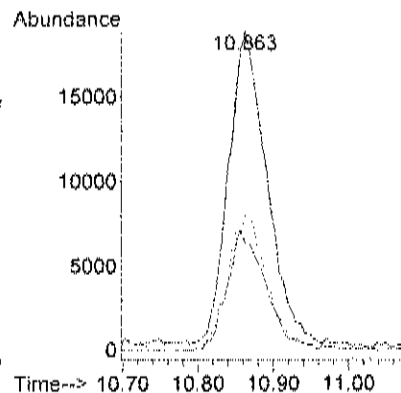
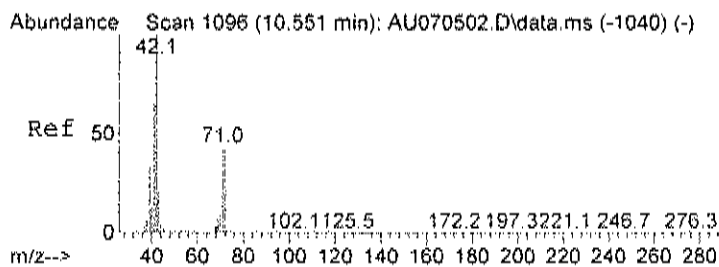
#32
Chloroform
Concen: 1.00 ppb
RT: 10.704 min Scan# 1123
Delta R.T. 0.006 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

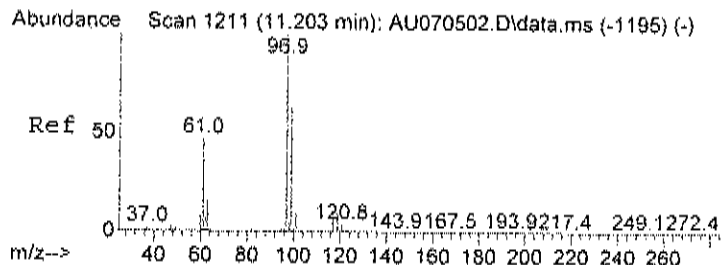
Tgt Ion	83	Resp	228648
Ion Ratio	Lower	Upper	
83	100		
85	65.7	44.6	84.6



#33
Tetrahydrofuran
Concen: 0.47 ppb
RT: 10.863 min Scan# 1151
Delta R.T. -0.000 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

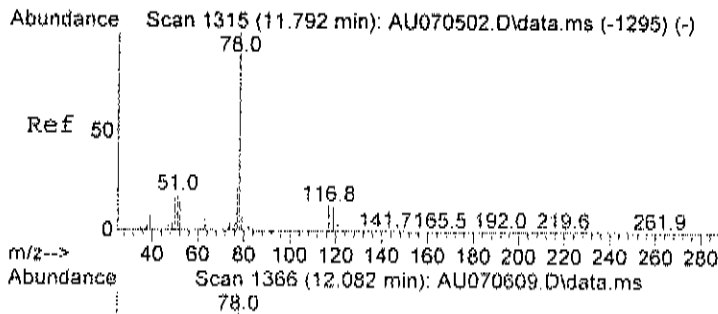
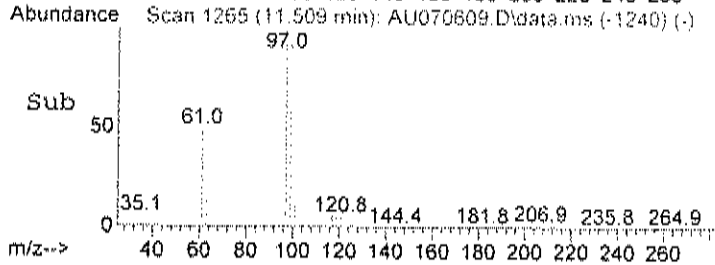
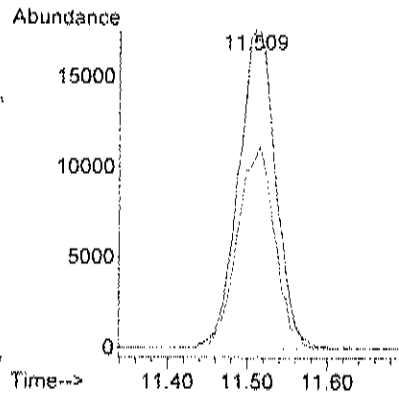
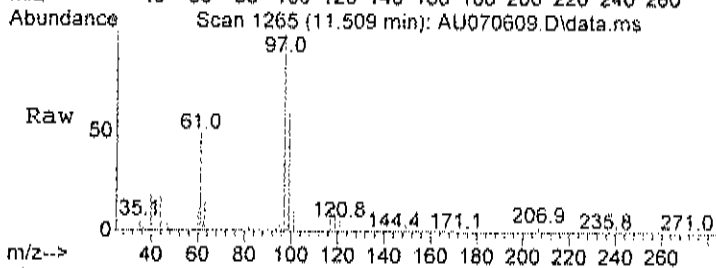
Tgt Ion	42	Resp	65372
Ion Ratio	Lower	Upper	
42	100		
71	38.7	27.1	67.1
72	44.6	30.8	70.8





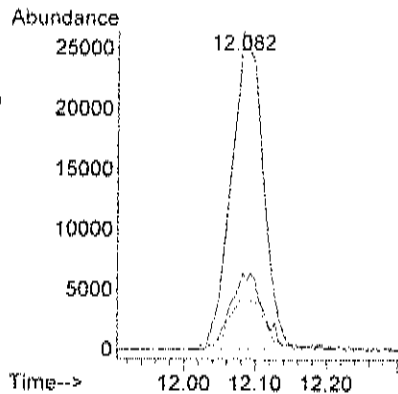
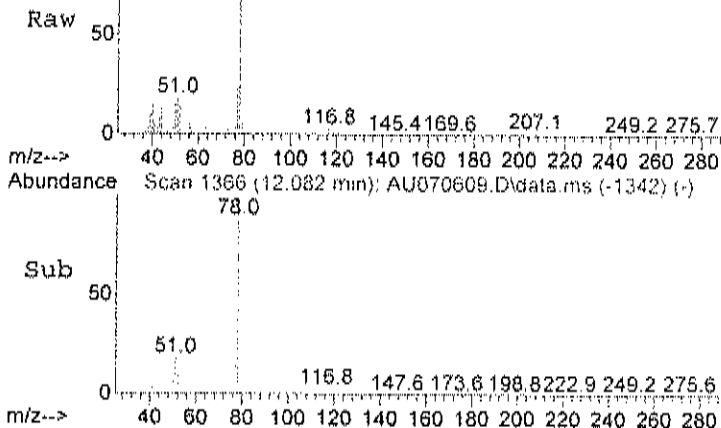
#36
1,1,1-trichloroethane
Concen: 0.29 ppb
RT: 11.509 min Scan# 1265
Delta R.T. -0.006 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

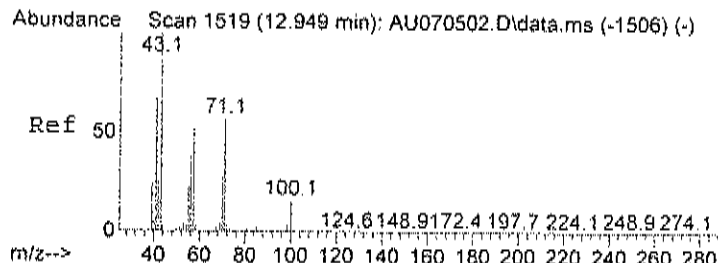
Tgt Ion:	97	Resp:	56896
Ion Ratio	Lower	Upper	
97	100		
99	63.5	44.8	84.8



#39
Benzene
Concen: 0.29 ppb
RT: 12.082 min Scan# 1366
Delta R.T. -0.011 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

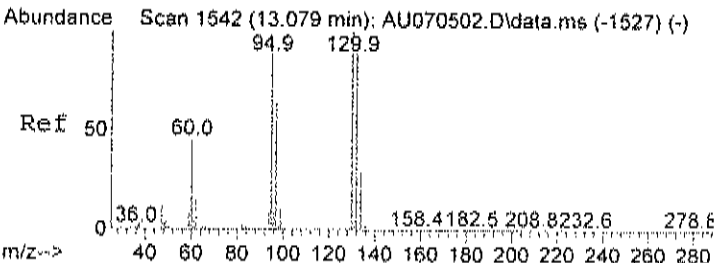
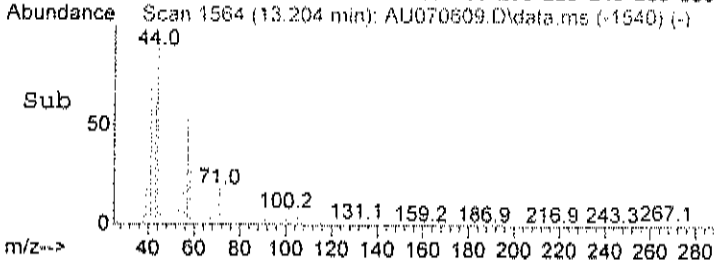
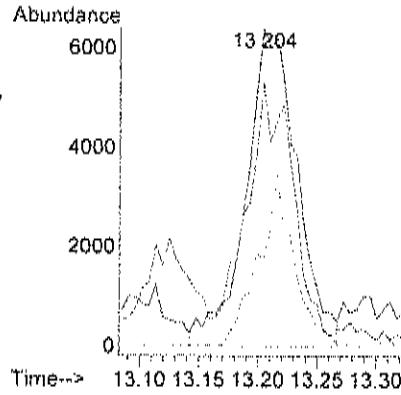
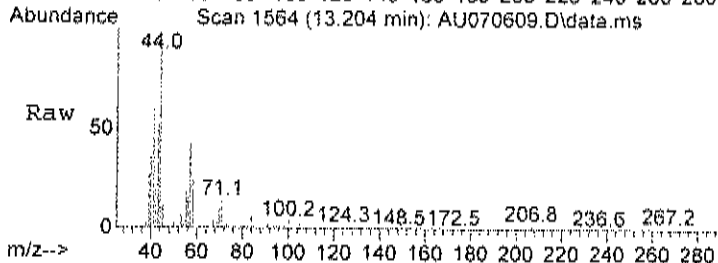
Tgt Ion:	78	Resp:	82467
Ion Ratio	Lower	Upper	
78	100		
77	25.4	3.8	43.8
51	20.8	0.0	35.4





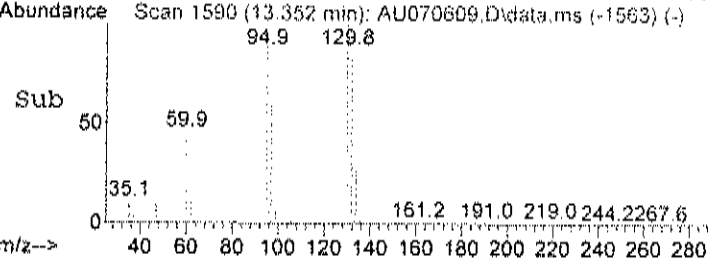
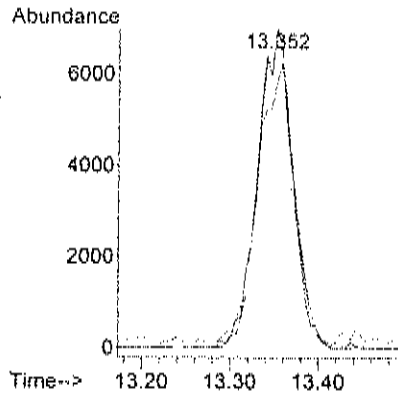
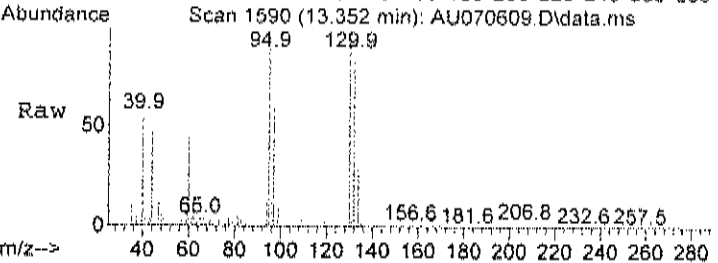
#43
Heptane
Concen: 0.10 ppb m
RT: 13.204 min Scan# 1564
Delta R.T. -0.011 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

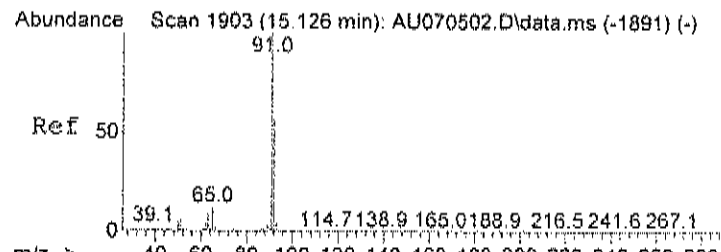
Tgt Ion:	43	Resp:	19195
Ion Ratio	Lower	Upper	
43	100		
57	69.5	40.9	80.9
71	37.4	51.1	91.1#



#44
Trichloroethene
Concen: 0.15 ppb
RT: 13.352 min Scan# 1590
Delta R.T. 0.006 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

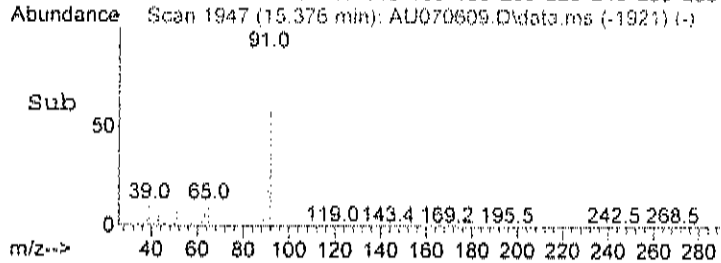
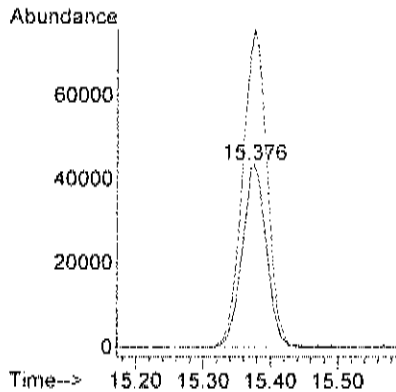
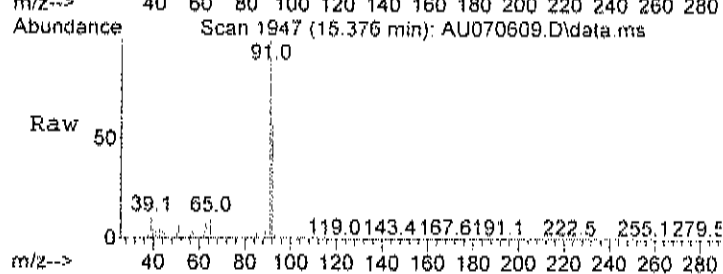
Tgt Ion:	130	Resp:	19272
Ion Ratio	Lower	Upper	
130	100		
132	94.5	76.3	116.3
95	96.6	72.9	112.9





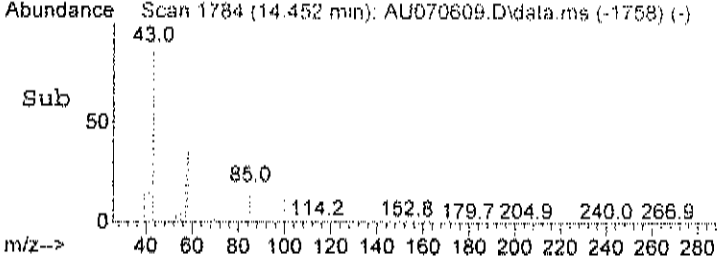
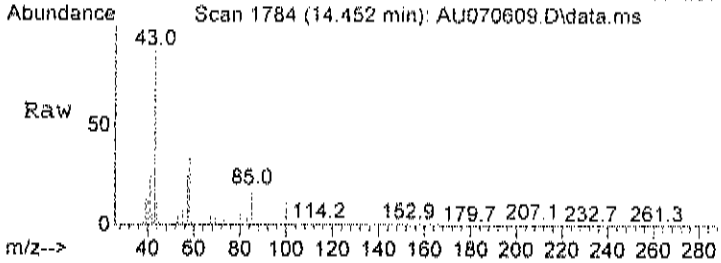
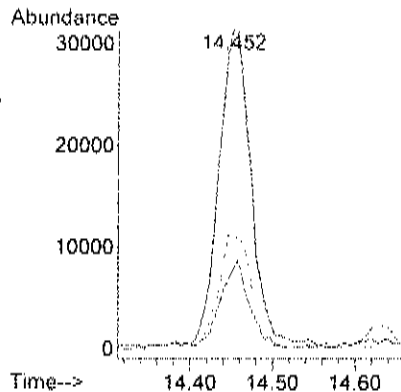
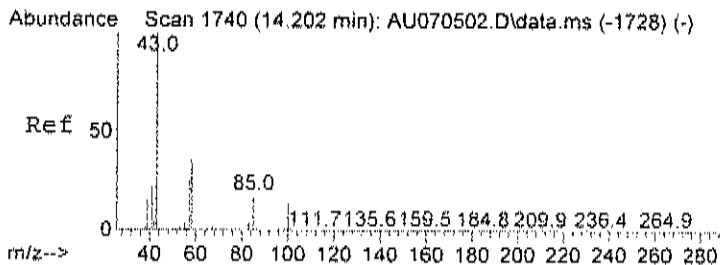
#51
Toluene
Concen: 0.52 ppb
RT: 15.376 min Scan# 1947
Delta R.T. -0.000 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

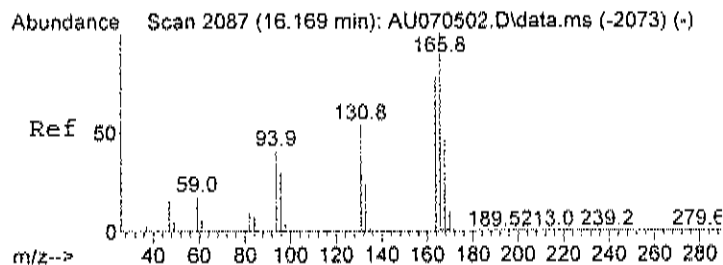
Tgt Ion:	92	Resp:	109357
Ion	Ratio	Lower	Upper
92	100		
91	175.8	150.4	190.4



#52
Methyl Isobutyl Ketone
Concen: 0.28 ppb
RT: 14.452 min Scan# 1784
Delta R.T. -0.000 min
Lab File: AU070609.D
Acq: 6 Jul 2023 11:43 am

Tgt Ion:	43	Resp:	84160
Ion	Ratio	Lower	Upper
43	100		
57	24.8	7.9	47.9
58	37.4	24.7	64.7





#56

Tetrachloroethylene

Concen: 4.19 ppb

RT: 16.413 min Scan# 2130

Delta R.T. -0.000 min

Lab File: AU070609.D

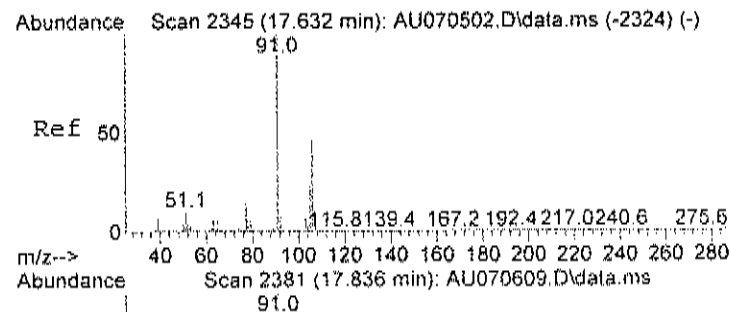
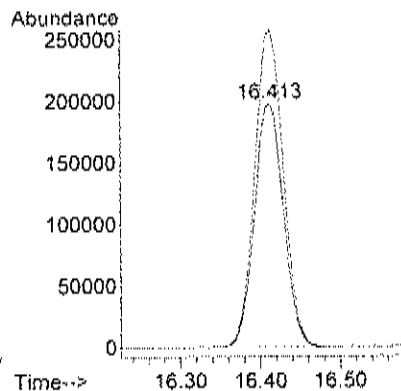
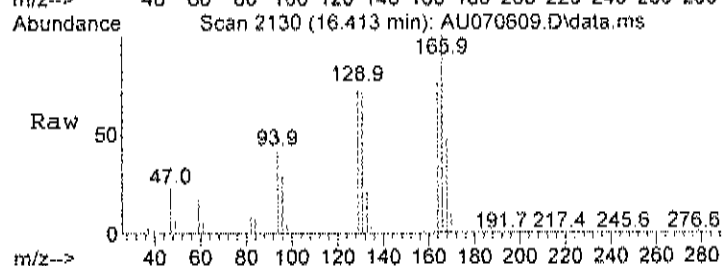
Acq: 6 Jul 2023 11:43 am

Tgt Ion: 164 Resp: 499810

Ion Ratio Lower Upper

164 100

166 129.1 107.9 147.9



#59

m,p-xylene

Concen: 0.11 ppb m

RT: 17.836 min Scan# 2381

Delta R.T. -0.028 min

Lab File: AU070609.D

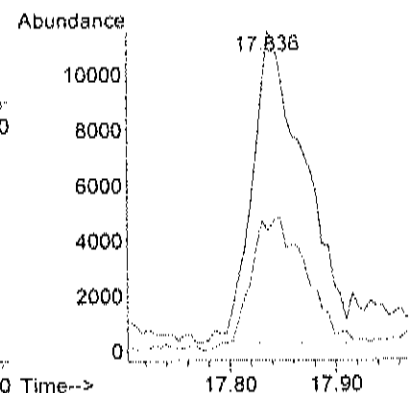
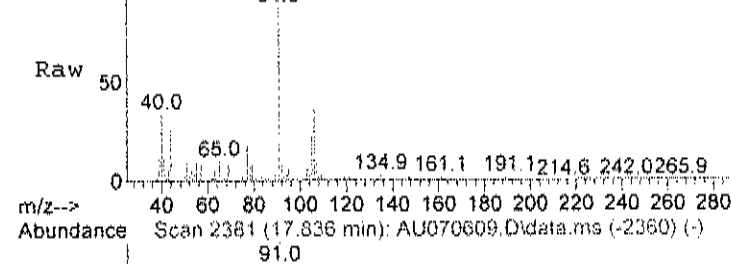
Acq: 6 Jul 2023 11:43 am

Tgt Ion: 91 Resp: 38724

Ion Ratio Lower Upper

91 100

106 50.9 32.1 72.1



Data Path : C:\msdchem\1\data\
Data File : AU070712.D
Acq On : 7 Jul 2023 3:51 pm
Operator : RJP
Sample : C2307002-016A 10X
Misc : A629_1UG
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 08 11:11:55 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

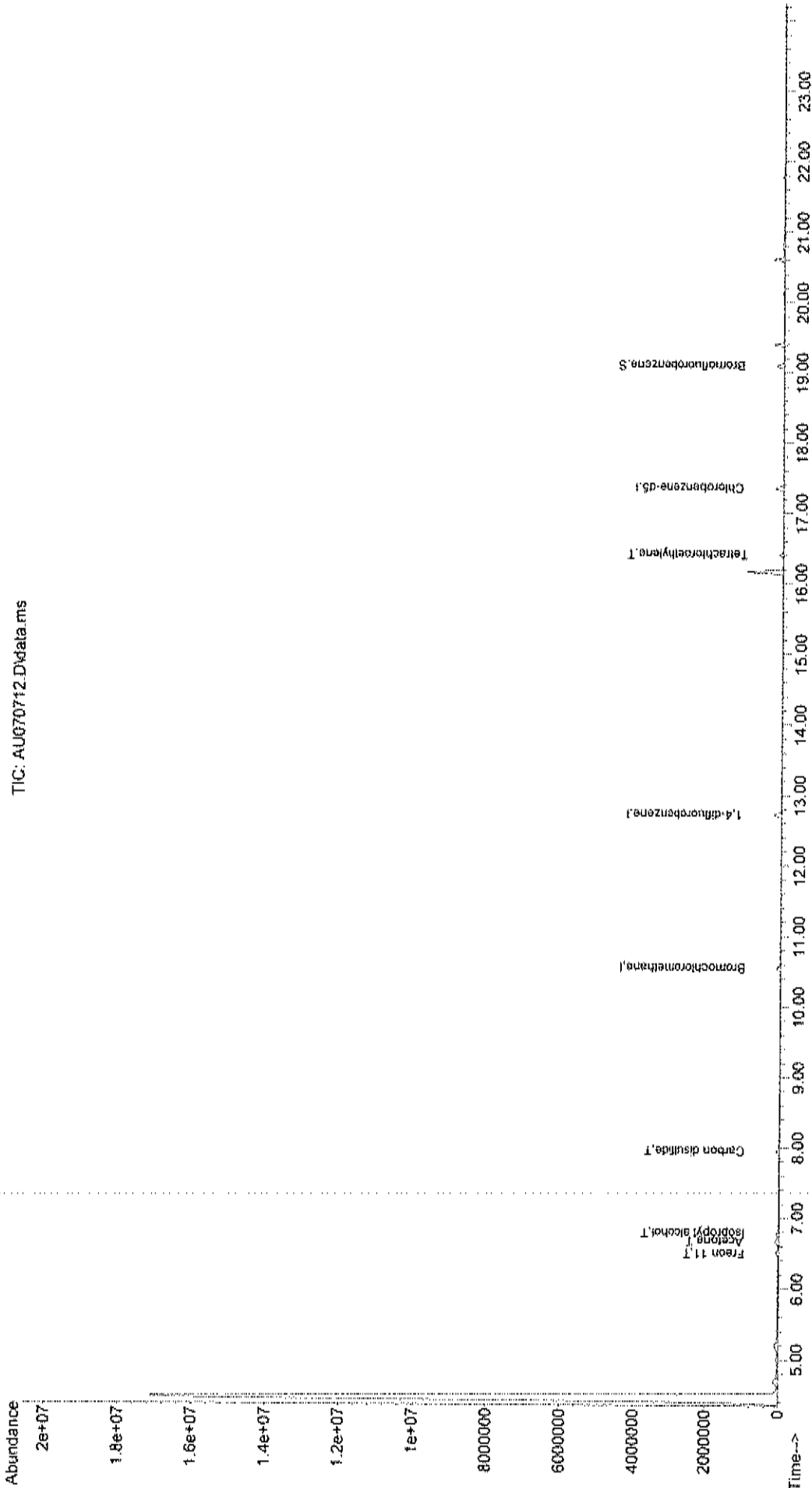
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

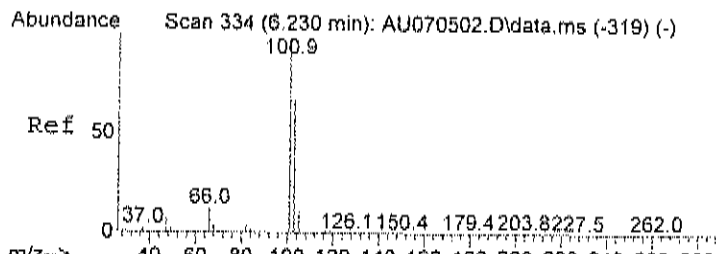
Internal Standards						
1) Bromochloromethane	10.545	128	48157	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	247624	1.00	ppb	0.00
50) Chlorobenzene-d5	17.355	117	186105	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	100429	0.72	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	72.00%
Target Compounds						
14) Freon 11	6.497	101	91810	0.46	ppb	Qvalue 98
15) Acetone	6.673	58	73438m	1.29	ppb	
17) Isopropyl alcohol	6.786	46	57774	0.39	ppb	# 1
23) Carbon disulfide	7.948	76	224901	0.89	ppb	99
56) Tetrachloroethylene	16.413	164	33898	0.46	ppb	99

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

Data Path : C:\msdchem\1\data\
 Data File : AU070712.D
 Acq On : 7 Jul 2023 3:51 pm
 Operator : RJP
 Sample : C2307002-016A 10X
 Misc : A629_1UG
 ALS Vial : 12 Sample Multiplier: 1

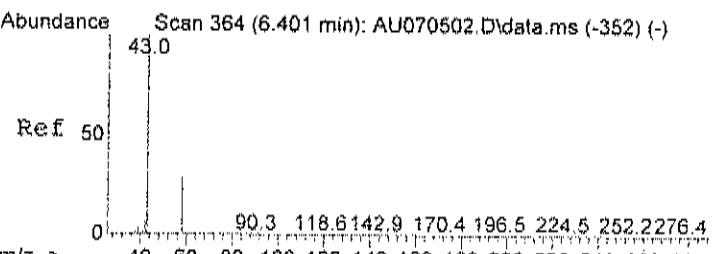
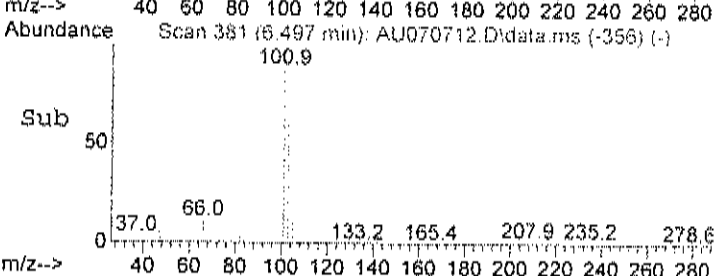
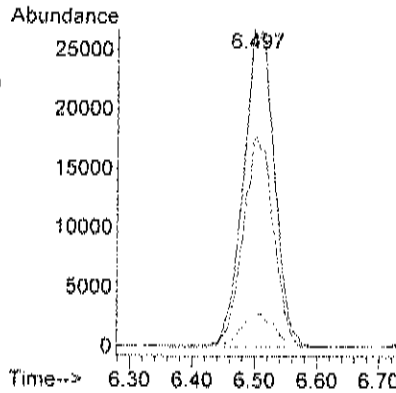
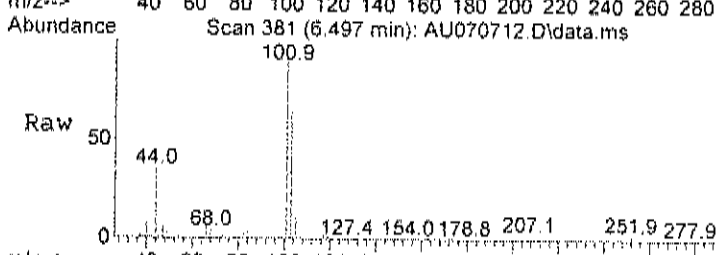
Quant Time: Jul 08 11:11:55 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





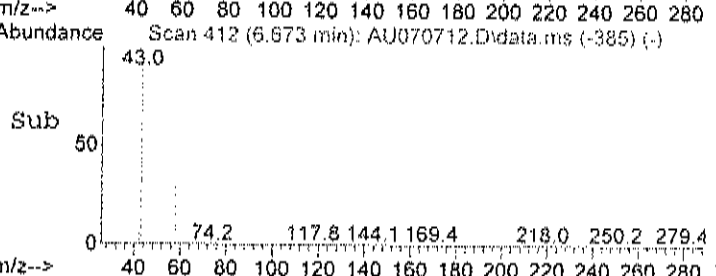
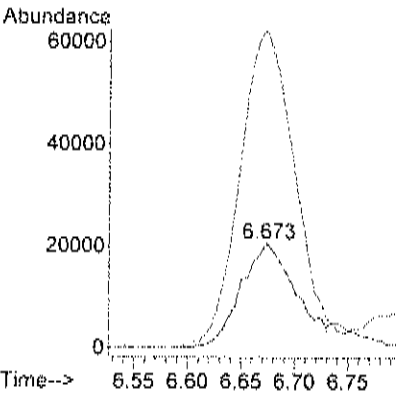
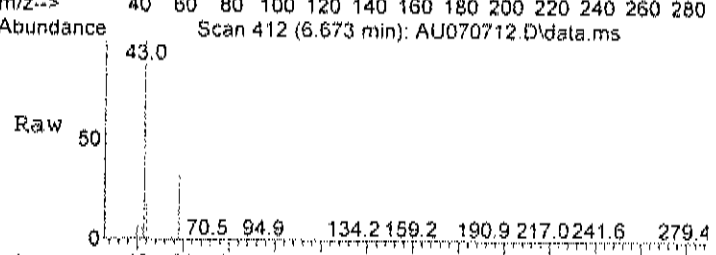
#14
Freon 11
Concen: 0.46 ppb
RT: 6.497 min Scan# 381
Delta R.T. -0.006 min
Lab File: AU070712.D
Acq: 7 Jul 2023 3:51 pm

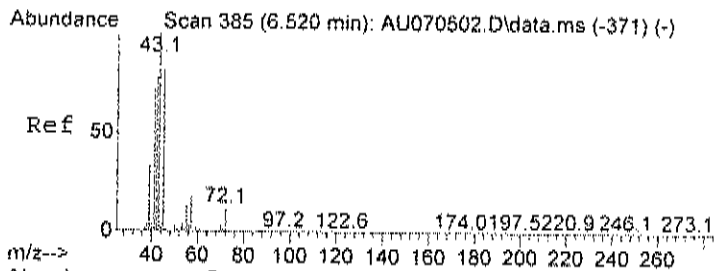
Tgt Ion:	101	Resp:	91810
Ion Ratio	Lower	Upper	
101	100		
103	65.4	44.0	84.0
105	11.5	0.0	31.4



#15
Acetone
Concen: 1.29 ppb m
RT: 6.673 min Scan# 412
Delta R.T. 0.006 min
Lab File: AU070712.D
Acq: 7 Jul 2023 3:51 pm

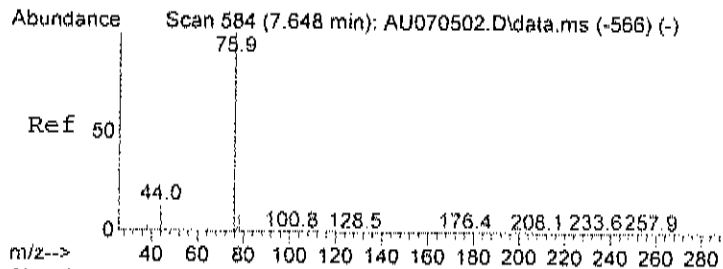
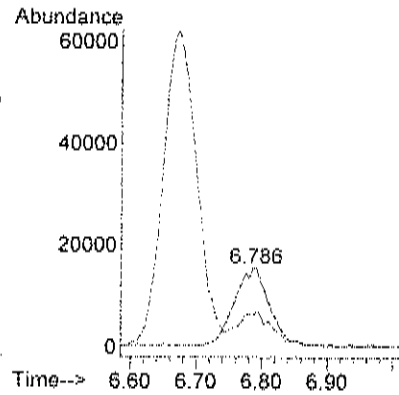
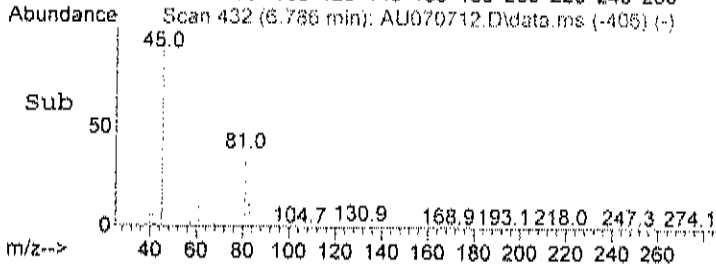
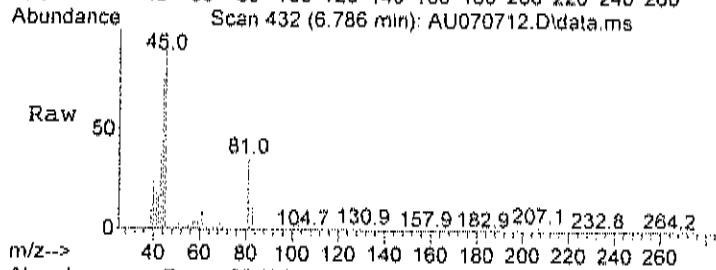
Tgt Ion:	58	Resp:	73438
Ion Ratio	Lower	Upper	
58	100		
43	323.7	224.5	284.5#





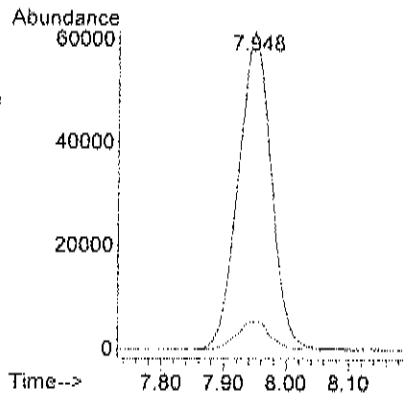
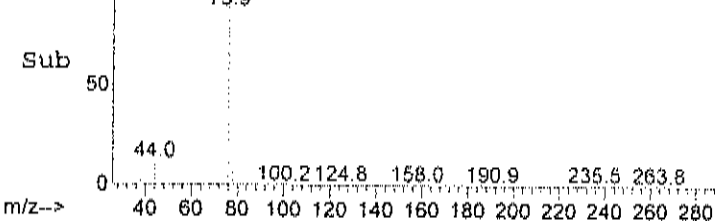
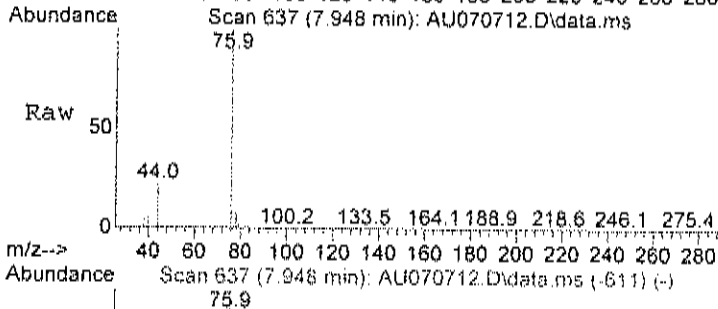
#17
Isopropyl alcohol
Concen: 0.39 ppb
RT: 6.786 min Scan# 432
Delta R.T. 0.000 min
Lab File: AU070712.D
Acq: 7 Jul 2023 3:51 pm

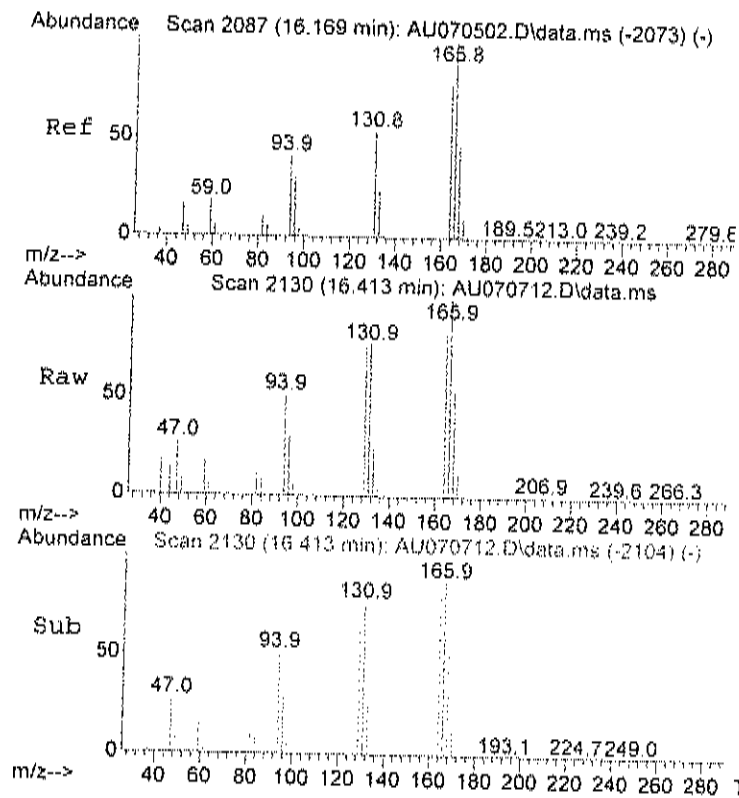
Tgt Ion: 45 Resp: 57774
Ion Ratio Lower Upper
45 100
43 0.0 110.3 150.3#



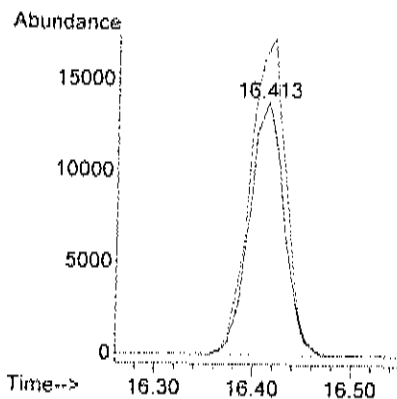
#23
Carbon disulfide
Concen: 0.89 ppb
RT: 7.948 min Scan# 637
Delta R.T. 0.000 min
Lab File: AU070712.D
Acq: 7 Jul 2023 3:51 pm

Tgt Ion: 76 Resp: 224901
Ion Ratio Lower Upper
76 100
78 9.1 0.0 29.3





#56
Tetrachloroethylene
Concen: 0.46 ppb
RT: 16.413 min Scan# 2130
Delta R.T. 0.000 min
Lab File: AU070712.D
Acq: 7 Jul 2023 3:51 pm
Tgt Ion:164 Resp: 33898
Ion Ratio Lower Upper
164 100
166 129.6 107.9 147.9



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-16

Lab Order: C2307002

Tag Number: 328,251

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-017A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,2,4-Trimethylbenzene	2.1	1.5		ppbV	10	7/7/2023 4:34:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,3,5-Trimethylbenzene	0.95	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,3-Dichlorobenzene	0.30	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/6/2023 12:29:00 PM
2,2,4-trimethylpentane	26	6.0		ppbV	40	7/7/2023 5:17:00 PM
4-ethyltoluene	0.81	0.15		ppbV	1	7/6/2023 12:29:00 PM
Acetone	47	12		ppbV	40	7/7/2023 5:17:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Benzene	20	1.5		ppbV	10	7/7/2023 4:34:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Carbon disulfide	7.7	1.5		ppbV	10	7/7/2023 4:34:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Chlorobenzene	0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Chloroethane	0.44	0.15		ppbV	1	7/6/2023 12:29:00 PM
Chloroform	3.2	1.5		ppbV	10	7/7/2023 4:34:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
cis-1,2-Dichloroethene	0.92	0.15		ppbV	1	7/6/2023 12:29:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Cyclohexane	10	1.5		ppbV	10	7/7/2023 4:34:00 PM

Qualifiers:

- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 33 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-16

Lab Order: C2307002

Tag Number: 328,251

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-017A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Ethylbenzene	1.9	0.15		ppbV	1	7/6/2023 12:29:00 PM
Freon 11	0.10	0.15	J	ppbV	1	7/6/2023 12:29:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Freon 114	0.45	0.15		ppbV	1	7/6/2023 12:29:00 PM
Freon 12	0.49	0.15		ppbV	1	7/6/2023 12:29:00 PM
Heptane	2.3	1.5		ppbV	10	7/7/2023 4:34:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Hexane	20	1.5		ppbV	10	7/7/2023 4:34:00 PM
Isopropyl alcohol	8.2	1.5		ppbV	10	7/7/2023 4:34:00 PM
m&p-Xylene	5.1	3.0		ppbV	10	7/7/2023 4:34:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/6/2023 12:29:00 PM
Methyl Ethyl Ketone	15	3.0		ppbV	10	7/7/2023 4:34:00 PM
Methyl Isobutyl Ketone	4.0	3.0		ppbV	10	7/7/2023 4:34:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Methylene chloride	0.73	0.15		ppbV	1	7/6/2023 12:29:00 PM
o-Xylene	1.9	1.5		ppbV	10	7/7/2023 4:34:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Styrene	1.3	0.15		ppbV	1	7/6/2023 12:29:00 PM
Tetrachloroethylene	2.4	1.5		ppbV	10	7/7/2023 4:34:00 PM
Tetrahydrofuran	21	6.0		ppbV	40	7/7/2023 5:17:00 PM
Toluene	10	1.5		ppbV	10	7/7/2023 4:34:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Trichloroethene	1.5	0.15		ppbV	1	7/6/2023 12:29:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/6/2023 12:29:00 PM
Surr; Bromofluorobenzene	111	70-130		%REC	1	7/6/2023 12:29:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 34 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-16

Lab Order: C2307002

Tag Number: 328,251

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-017A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 12:29:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/6/2023 12:29:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/6/2023 12:29:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 12:29:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 12:29:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/6/2023 12:29:00 PM
1,2,4-Trimethylbenzene	10	7.4		ug/m3	10	7/7/2023 4:34:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/6/2023 12:29:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 12:29:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/6/2023 12:29:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/6/2023 12:29:00 PM
1,3,5-Trimethylbenzene	4.7	0.74		ug/m3	1	7/6/2023 12:29:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/6/2023 12:29:00 PM
1,3-Dichlorobenzene	1.8	0.90		ug/m3	1	7/6/2023 12:29:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/6/2023 12:29:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/6/2023 12:29:00 PM
2,2,4-trimethylpentane	120	28		ug/m3	40	7/7/2023 5:17:00 PM
4-ethyltoluene	4.0	0.74		ug/m3	1	7/6/2023 12:29:00 PM
Acetone	110	28		ug/m3	40	7/7/2023 5:17:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/6/2023 12:29:00 PM
Benzene	62	4.8		ug/m3	10	7/7/2023 4:34:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/6/2023 12:29:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/6/2023 12:29:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/6/2023 12:29:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/6/2023 12:29:00 PM
Carbon disulfide	24	4.7		ug/m3	10	7/7/2023 4:34:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/6/2023 12:29:00 PM
Chlorobenzene	0.69	0.69		ug/m3	1	7/6/2023 12:29:00 PM
Chloroethane	1.2	0.40		ug/m3	1	7/6/2023 12:29:00 PM
Chloroform	16	7.3		ug/m3	10	7/7/2023 4:34:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	7/6/2023 12:29:00 PM
cis-1,2-Dichloroethene	3.6	0.59		ug/m3	1	7/6/2023 12:29:00 PM
cis-1,3-Dichloropropane	< 0.68	0.68		ug/m3	1	7/6/2023 12:29:00 PM
Cyclohexane	35	5.2		ug/m3	10	7/7/2023 4:34:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/6/2023 12:29:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	7/6/2023 12:29:00 PM
Ethylbenzene	8.2	0.65		ug/m3	1	7/6/2023 12:29:00 PM
Freon 11	0.56	0.84	J	ug/m3	1	7/6/2023 12:29:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/6/2023 12:29:00 PM
Freon 114	3.1	1.0		ug/m3	1	7/6/2023 12:29:00 PM

Qualifiers:

- . Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 33 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: SVW-16

Lab Order: C2307002

Tag Number: 328,251

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-017A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.4	0.74		ug/m3	1	7/6/2023 12:29:00 PM
Heptane	9.4	6.1		ug/m3	10	7/7/2023 4:34:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/6/2023 12:29:00 PM
Hexane	70	5.3		ug/m3	10	7/7/2023 4:34:00 PM
Isopropyl alcohol	20	3.7		ug/m3	10	7/7/2023 4:34:00 PM
m&p-Xylene	22	13		ug/m3	10	7/7/2023 4:34:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/6/2023 12:29:00 PM
Methyl Ethyl Ketone	45	8.8		ug/m3	10	7/7/2023 4:34:00 PM
Methyl Isobutyl Ketone	16	12		ug/m3	10	7/7/2023 4:34:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/6/2023 12:29:00 PM
Methylene chloride	2.5	0.52		ug/m3	1	7/6/2023 12:29:00 PM
o-Xylene	8.2	6.5		ug/m3	10	7/7/2023 4:34:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/6/2023 12:29:00 PM
Styrene	5.5	0.64		ug/m3	1	7/6/2023 12:29:00 PM
Tetrachloroethylene	16	10		ug/m3	10	7/7/2023 4:34:00 PM
Tetrahydrofuran	61	18		ug/m3	40	7/7/2023 5:17:00 PM
Toluene	38	5.7		ug/m3	10	7/7/2023 4:34:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/6/2023 12:29:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/6/2023 12:29:00 PM
Trichloroethene	8.1	0.81		ug/m3	1	7/6/2023 12:29:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/6/2023 12:29:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/6/2023 12:29:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/6/2023 12:29:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 34 of 40

Data Path : C:\msdchem\1\data\
 Data File : AU070610.D
 Acq On : 6 Jul 2023 12:29 pm
 Operator : RJP
 Sample : C2307002-017A
 Misc : A629 1UG
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 13:04:35 2023
 Quant Method : C:\msdchem\1\methods\A629 1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

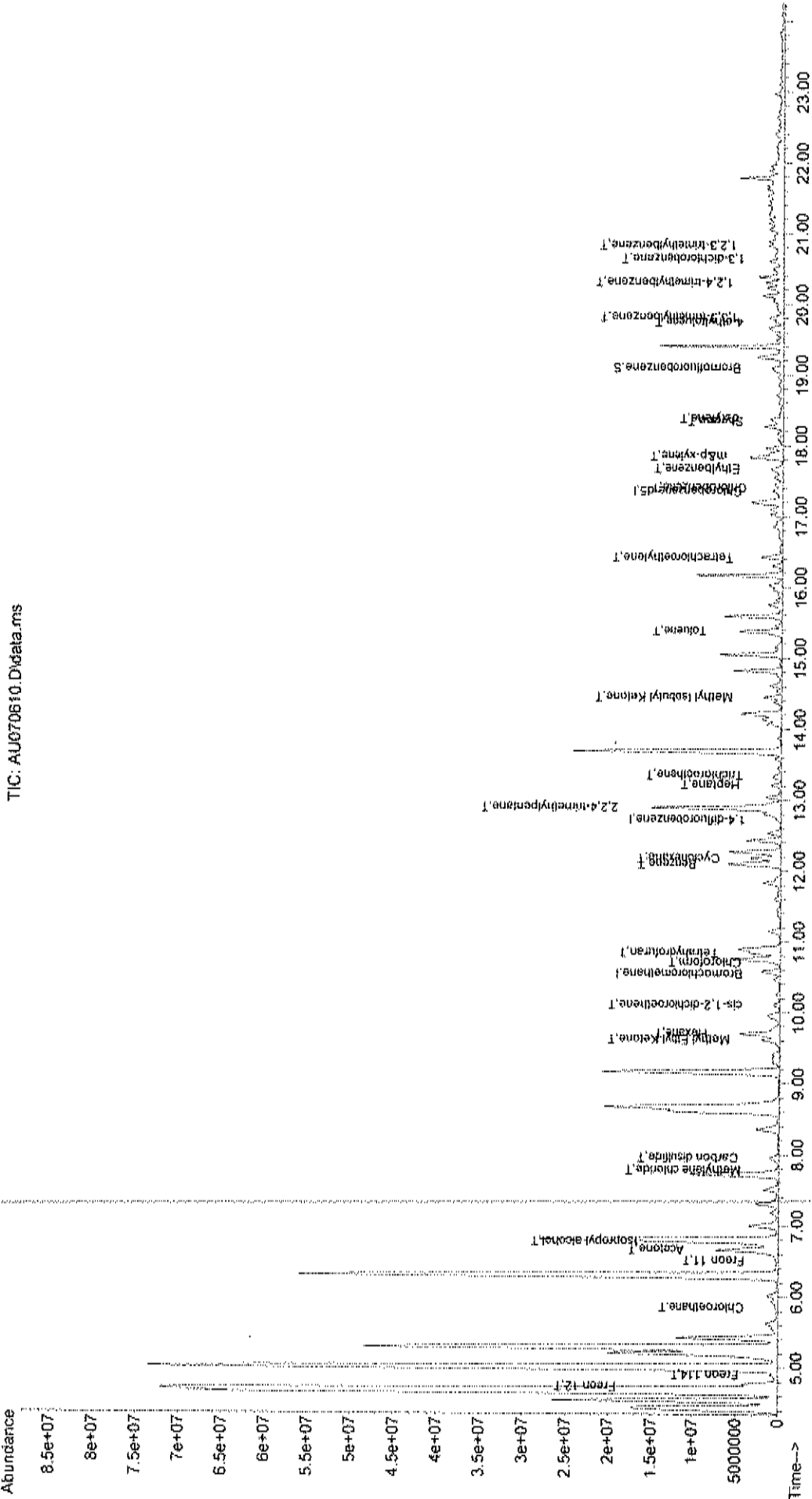
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.545	128	73175	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	400198	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	358788	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.089	95	300154	1.11	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	111.00%
Target Compounds						Qvalue
3) Freon 12	4.734	85	147428	0.49	ppb	100
5) Freon 114	4.904	85	110735	0.45	ppb	# 34
10) Chloroethane	5.851	64	22186	0.44	ppb	99
14) Freon 11	6.508	101	31047	0.10	ppb	99
15) Acetone	6.661	58	4913090m	56.86	ppb	
17) Isopropyl alcohol	6.769	45	1539352	6.88	ppb	# 1
21) Methylene chloride	7.778	84	135059	0.73	ppb	93
23) Carbon disulfide	7.954	76	2548041	6.62	ppb	100
28) Methyl Ethyl Ketone	9.615	72	1108298m	16.09	ppb	
29) cis-1,2-dichloroethene	10.103	61	155007	0.92	ppb	90
30) Hexane	9.700	57	4302119m	19.74	ppb	
32) Chloroform	10.704	83	644289	2.67	ppb	# 18
33) Tetrahydrofuran	10.840	42	4419799	30.25	ppb	78
37) Cyclohexane	12.178	56	3006266m	16.22	ppb	
39) Benzene	12.093	78	6191155	18.23	ppb	97
42) 2,2,4-trimethylpentane	12.892	57	20548405	35.09	ppb	88
43) Heptane	13.216	43	577341	2.57	ppb	92
44) Trichloroethene	13.352	130	225448	1.51	ppb	93
51) Toluene	15.376	92	2580275	10.25	ppb	97
52) Methyl Isobutyl Ketone	14.446	43	1541569	4.36	ppb	# 76
56) Tetrachloroethylene	16.413	164	324639	2.27	ppb	100
57) Chlorobenzene	17.405	112	47044	0.15	ppb	# 59
58) Ethylbenzene	17.666	91	1041975	1.90	ppb	96
59) m&p-xylene	17.848	91	2503491	5.77	ppb	94
61) Styrene	18.341	104	425703	1.29	ppb	83
63) o-xylene	18.375	91	961272	2.16	ppb	94
69) 4-ethyltoluene	19.741	105	473185m	0.81	ppb	
70) 1,3,5-trimethylbenzene	19.809	105	470132m	0.95	ppb	
71) 1,2,4-trimethylbenzene	20.303	105	1306058m	2.66	ppb	
72) 1,3-dichlorobenzene	20.637	146	77013m	0.30	ppb	
75) 1,2,3-trimethylbenzene	20.824	105	375247	0.76	ppb	96

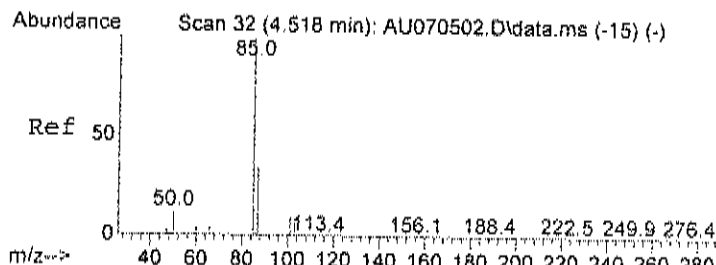
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\
Data File : AU070610.D
Acq On : 6 Jul 2023 12:29 pm
Operator : RJP
Sample : C2307002-017A
Misc : A629_1UG
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 13:04:35 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

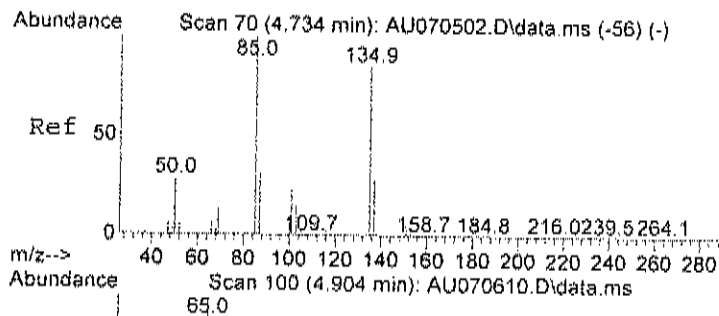
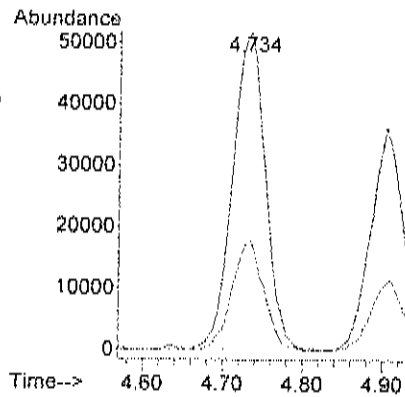
TIC: AU070610.D\data.ms





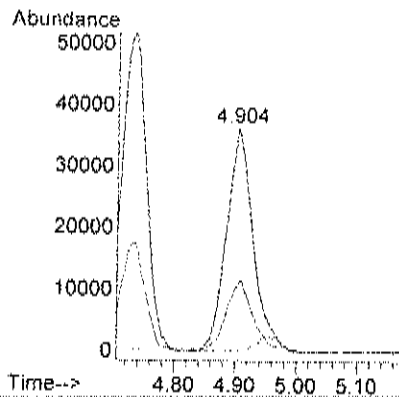
#3
Freon 12
Concen: 0.49 ppb
RT: 4.734 min Scan# 70
Delta R.T. -0.000 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

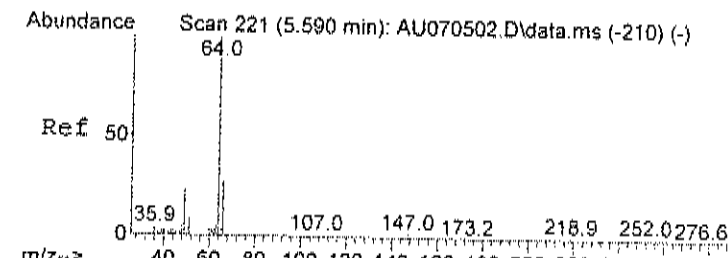
Tgt Ion	85	87	Ratio	100	33.5	Lower	13.4	Upper	53.4
Resp	147428								



#5
Freon 114
Concen: 0.45 ppb
RT: 4.904 min Scan# 100
Delta R.T. -0.057 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

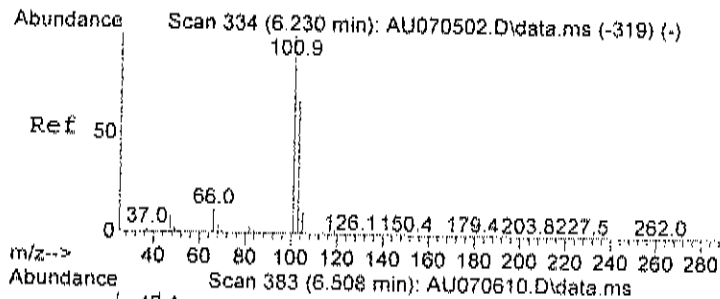
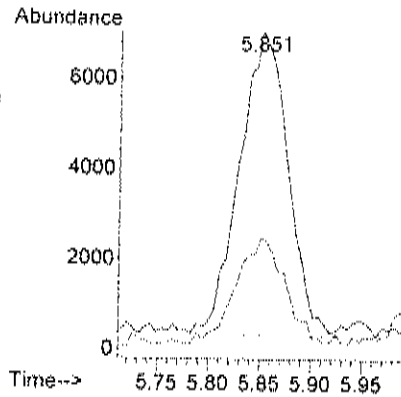
Tgt Ion	85	87	135	Ratio	100	32.5	0.2	Lower	2.3	53.1	Upper	62.3	113.1#
Resp	110735												





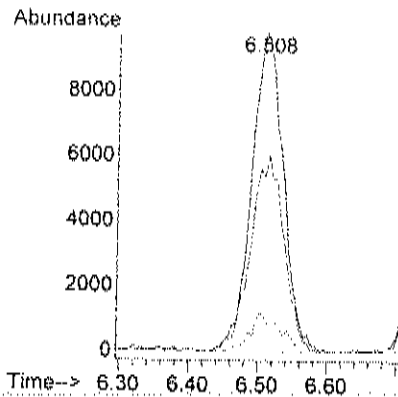
#10
Chloroethane
Concen: 0.44 ppb
RT: 5.851 min Scan# 267
Delta R.T. -0.000 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

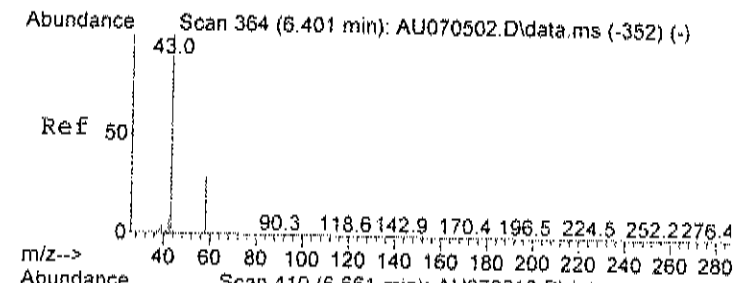
Tgt Ion: 64 Resp: 22186
Ion Ratio Lower Upper
64 100
66 36.0 28.2 42.2



#14
Freon 11
Concen: 0.10 ppb
RT: 6.508 min Scan# 383
Delta R.T. 0.006 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

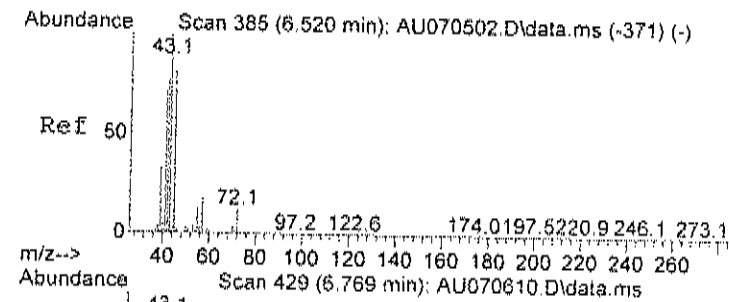
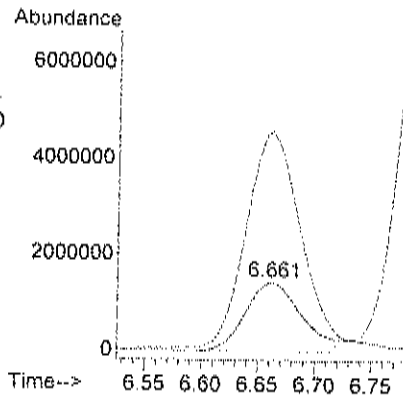
Tgt Ion: 101 Resp: 31047
Ion Ratio Lower Upper
101 100
103 64.9 44.0 84.0
105 12.0 0.0 31.4





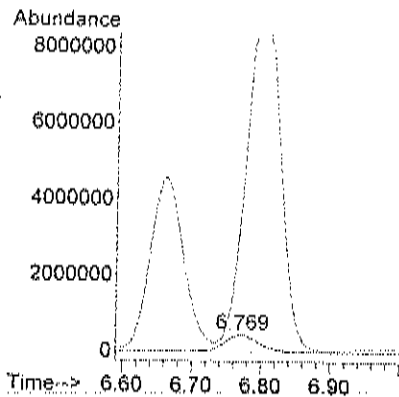
#15
Acetone
Concen: 56.86 ppb m
RT: 6.661 min Scan# 410
Delta R.T. -0.006 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

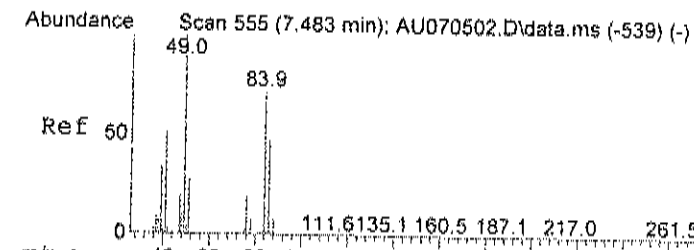
Tgt Ion: 58 Resp: 4913090
Ion Ratio Lower Upper
58 100
43 305.3 224.5 284.5#



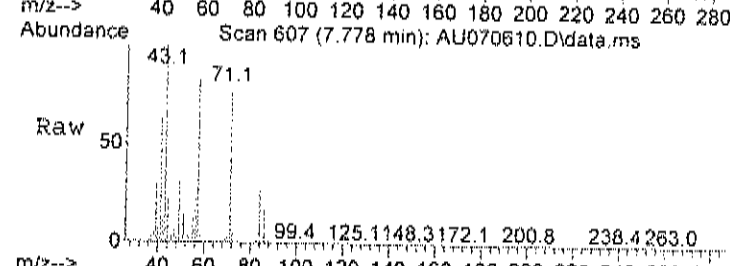
#17
Isopropyl alcohol
Concen: 6.88 ppb
RT: 6.769 min Scan# 429
Delta R.T. -0.017 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

Tgt Ion: 45 Resp: 1539352
Ion Ratio Lower Upper
45 100
43 1974.9 110.3 150.3#

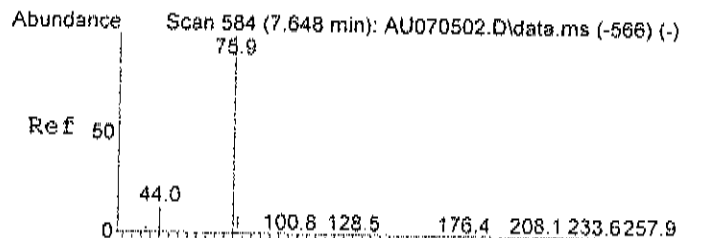
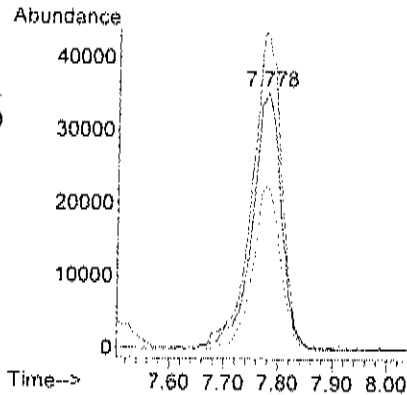
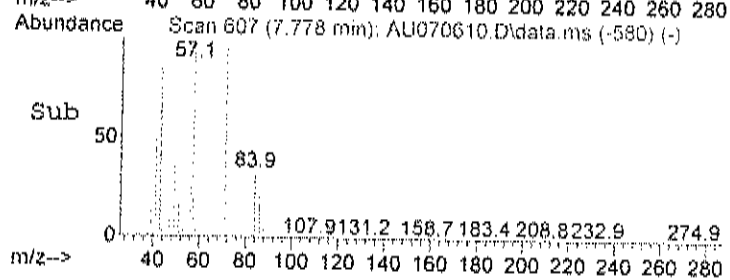




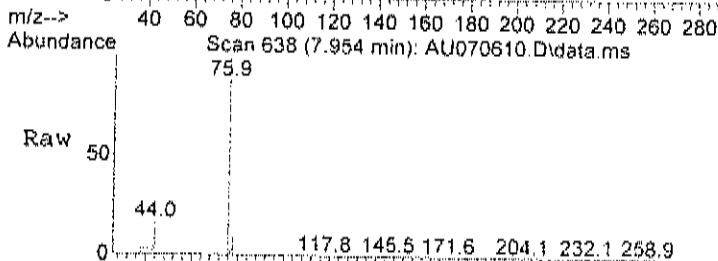
#21
Methylene chloride
Concen: 0.73 ppb
RT: 7.778 min Scan# 607
Delta R.T. 0.006 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm



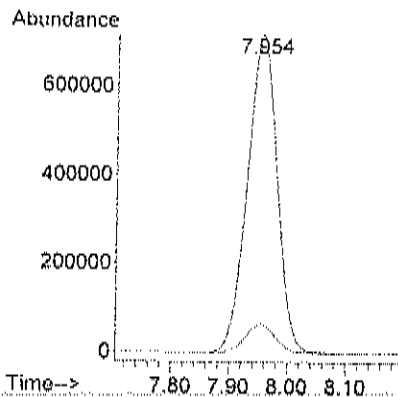
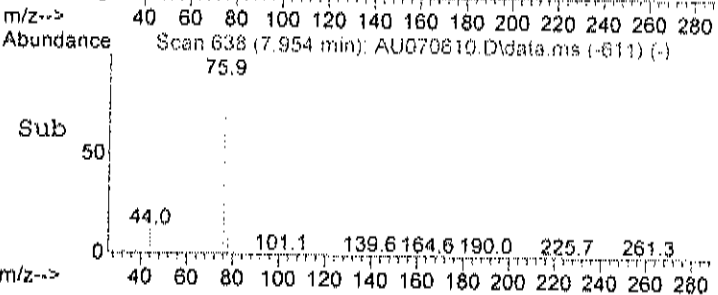
Tgt Ion	Ratio	Lower	Upper
84	100		
49	122.7	93.0	133.0
86	60.2	43.7	83.7

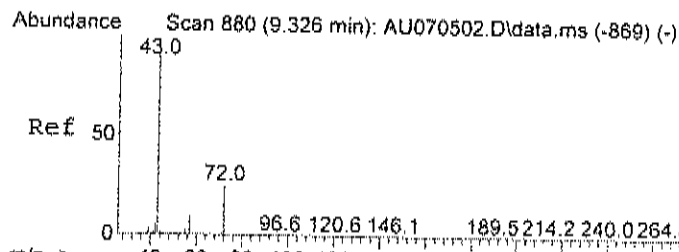


#23
Carbon disulfide
Concen: 6.62 ppb
RT: 7.954 min Scan# 638
Delta R.T. 0.006 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

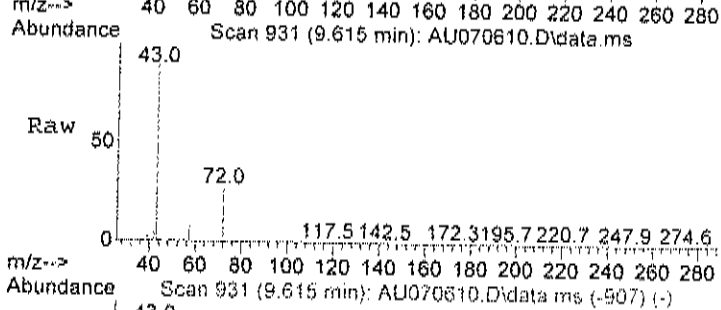


Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.1	0.0	29.3

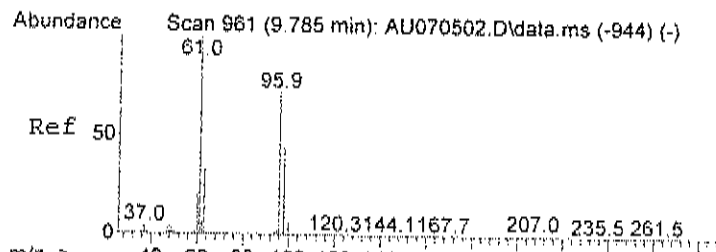
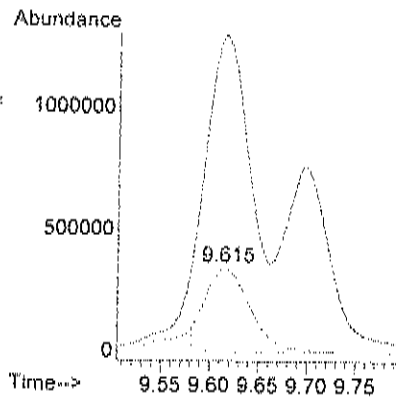
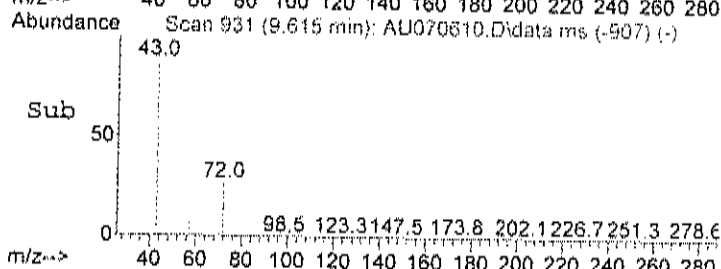




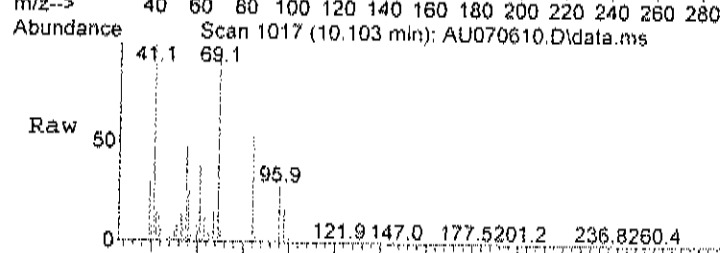
#28
Methyl Ethyl Ketone
Concen: 16.09 ppb m
RT: 9.615 min Scan# 931
Delta R.T. -0.011 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm



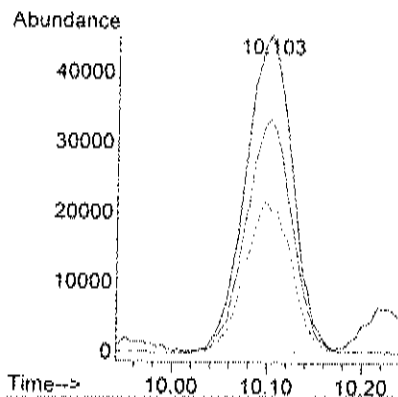
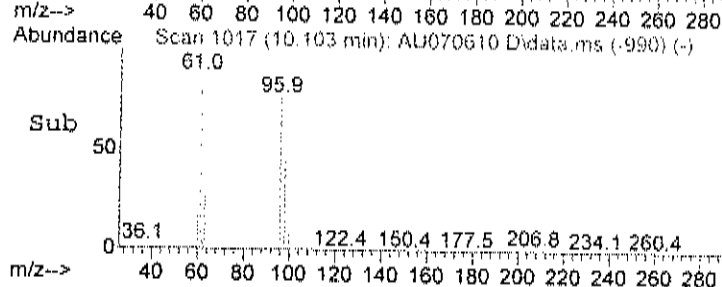
Tgt Ion: 72 Resp: 1108298
Ion Ratio Lower Upper
72 100
43 0.0 389.0 429.0#
72 116.0 80.0 120.0

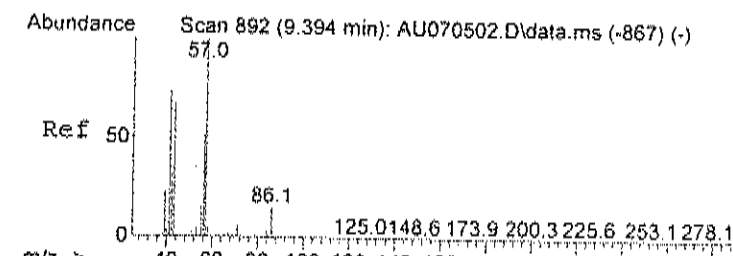


#29
cis-1,2-dichloroethene
Concen: 0.92 ppb
RT: 10.103 min Scan# 1017
Delta R.T. 0.006 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm



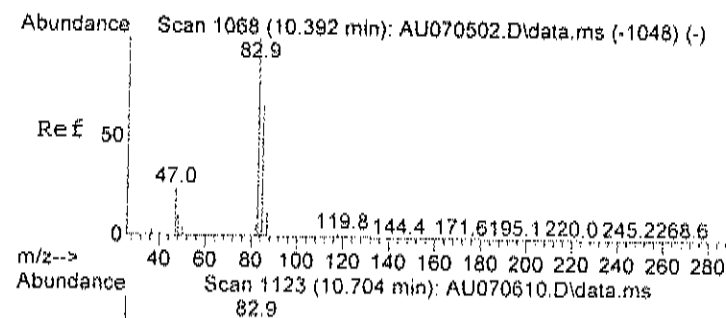
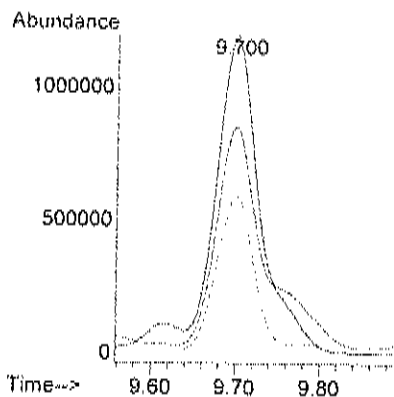
Tgt Ion: 61 Resp: 155007
Ion Ratio Lower Upper
61 100
96 73.7 64.4 104.4
98 48.9 34.6 74.6





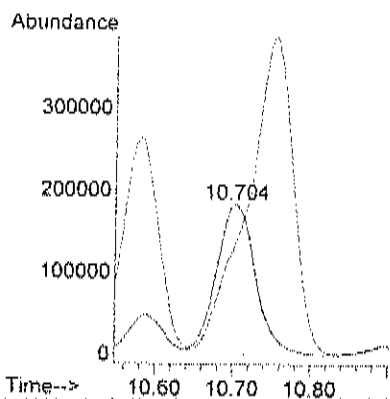
#30
Hexane
Concen: 19.74 ppb m
RT: 9.700 min Scan# 946
Delta R.T. 0.006 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

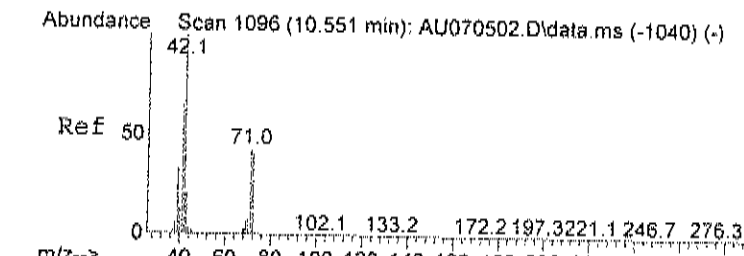
Tgt Ion	57	Ratio	100	Lower	Upper
Resp	4302119				
Ion	57	100			
Ratio	41	75.9	37.3	77.3	
Lower	56	46.2	24.8	64.8	
Upper					



#32
Chloroform
Concen: 2.67 ppb
RT: 10.704 min Scan# 1123
Delta R.T. 0.006 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

Tgt Ion	83	Ratio	100	Lower	Upper
Resp	644289				
Ion	83	100			
Ratio	85	0.0	44.6	84.6	
Lower					
Upper					





#33

Tetrahydrofuran

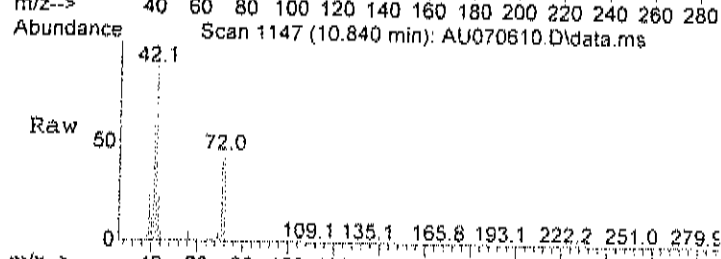
Concen: 30.25 ppb

RT: 10.840 min Scan# 1147

Delta R.T. -0.023 min

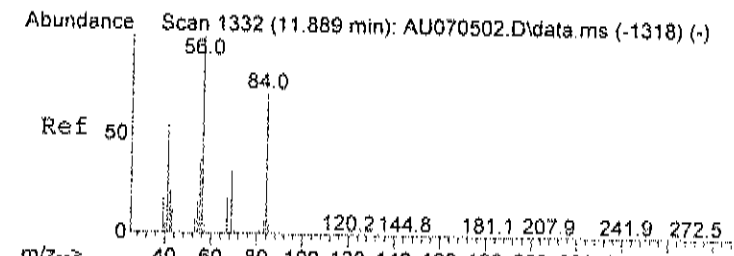
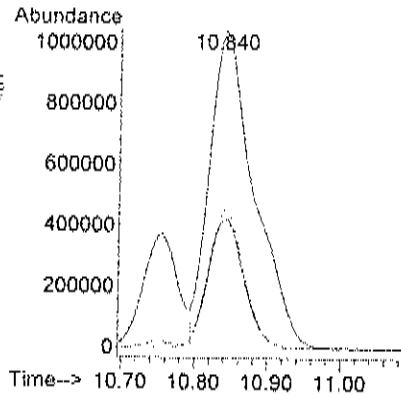
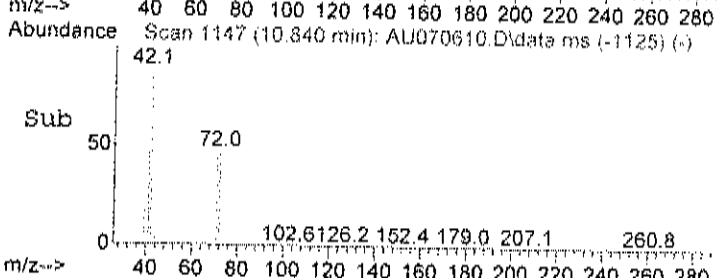
Lab File: AU070610.D

Acq: 6 Jul 2023 12:29 pm



Tgt Ion: 42 Resp: 4419799

Ion	Ratio	Lower	Upper
42	100		
71	32.9	27.1	67.1
72	34.9	30.8	70.8



#37

Cyclohexane

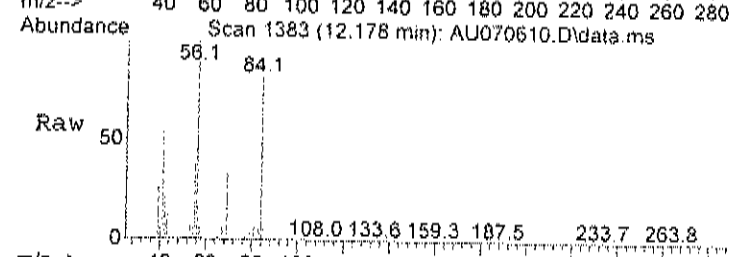
Concen: 16.22 ppb m

RT: 12.178 min Scan# 1383

Delta R.T. -0.000 min

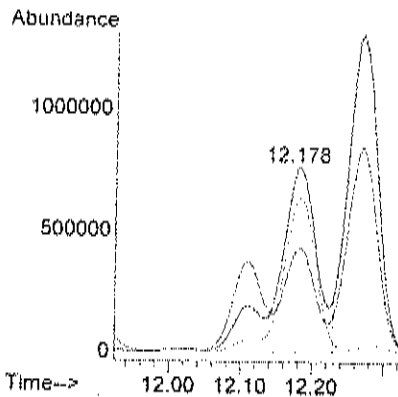
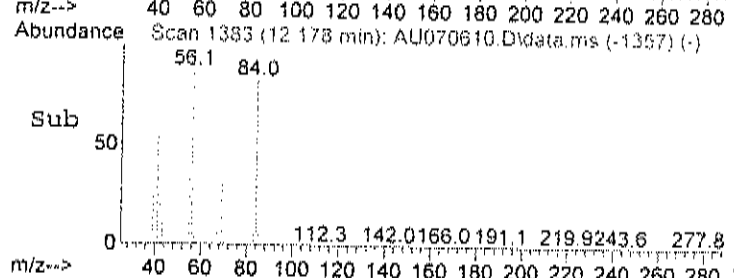
Lab File: AU070610.D

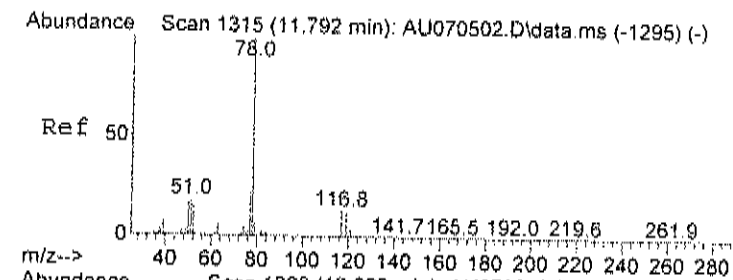
Acq: 6 Jul 2023 12:29 pm



Tgt Ion: 56 Resp: 3006266

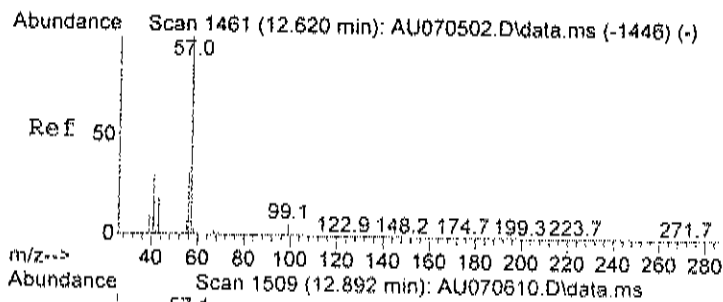
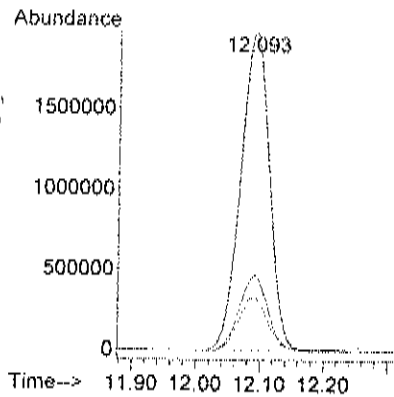
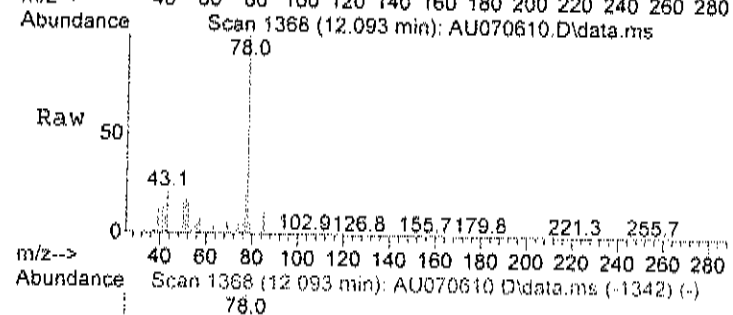
Ion	Ratio	Lower	Upper
56	100		
41	80.3	28.1	68.1#
84	60.8	85.3	125.3#





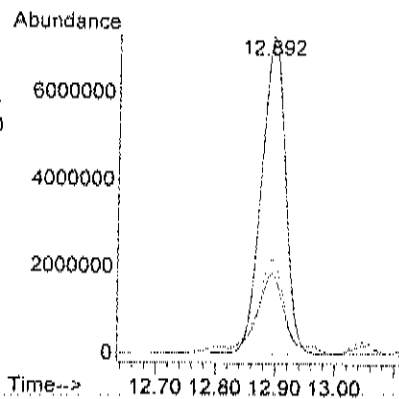
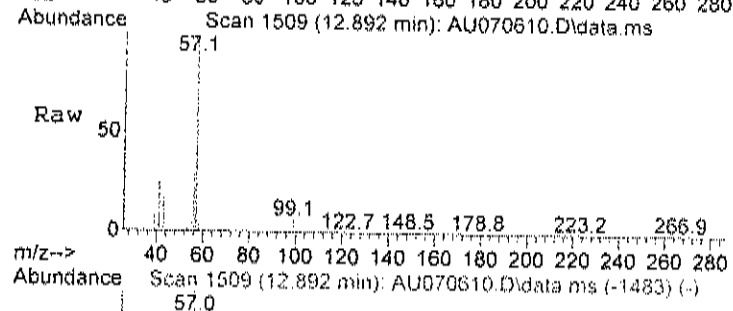
#39
Benzene
Concen: 18.23 ppb
RT: 12.093 min Scan# 1368
Delta R.T. -0.000 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

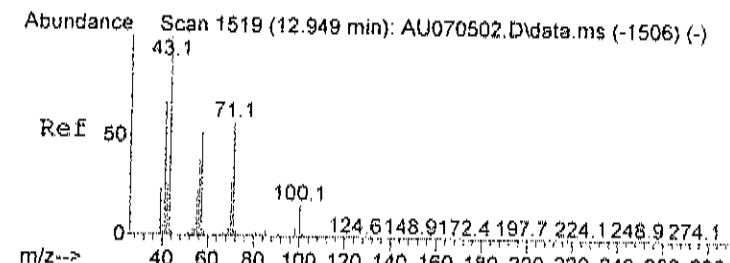
Tgt Ion:	78	Resp:	6191155
Ion	Ratio	Lower	Upper
78	100		
77	24.0	3.8	43.8
51	18.5	0.0	35.4



#42
2,2,4-trimethylpentane
Concen: 35.09 ppb
RT: 12.892 min Scan# 1509
Delta R.T. -0.000 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

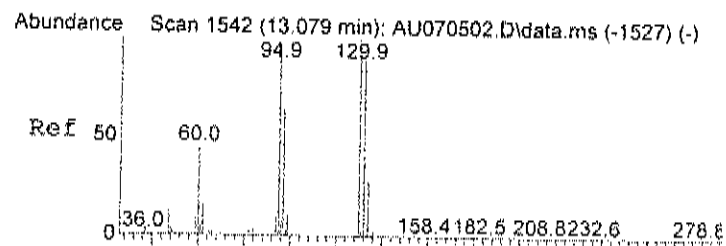
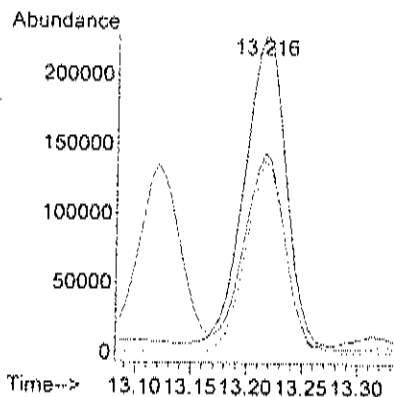
Tgt Ion:	57	Resp:	20548405
Ion	Ratio	Lower	Upper
57	100		
41	27.4	1.7	41.7
56	36.8	10.7	50.7





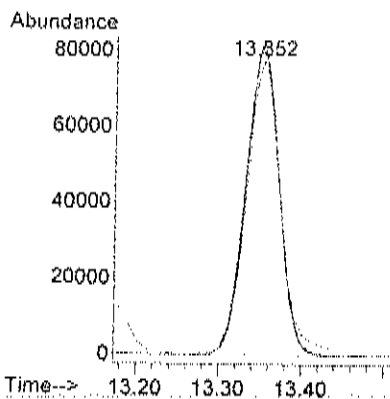
#43
Heptane
Concen: 2.57 ppb
RT: 13.216 min Scan# 1566
Delta R.T. -0.000 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

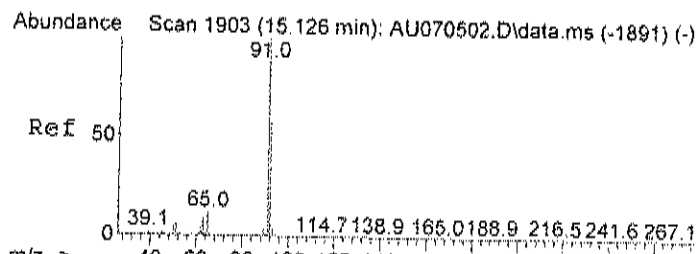
Tgt Ion:	43	Resp:	577341
Ion	Ratio	Lower	Upper
43	100		
57	61.3	40.9	80.9
71	59.3	51.1	91.1



#44
Trichloroethene
Concen: 1.51 ppb
RT: 13.352 min Scan# 1590
Delta R.T. 0.006 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

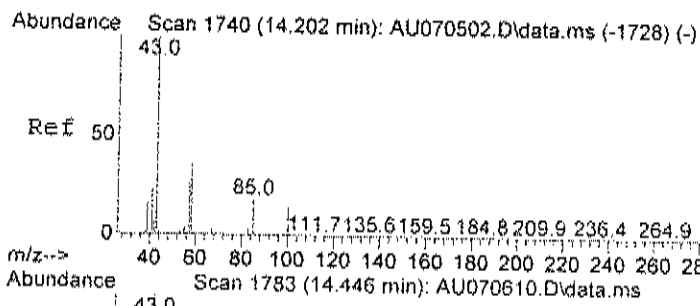
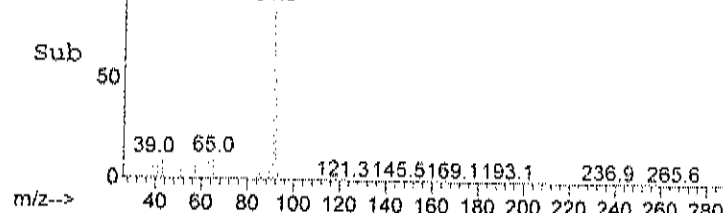
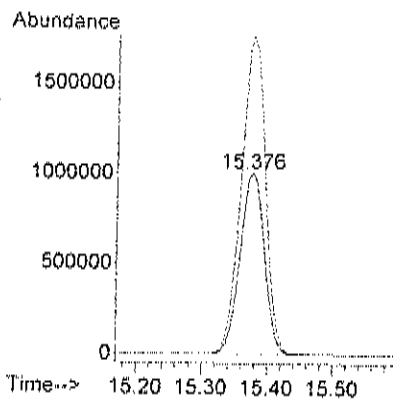
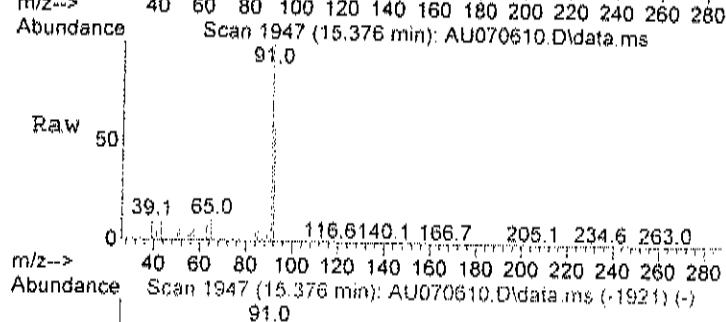
Tgt Ion:	130	Resp:	225448
Ion	Ratio	Lower	Upper
130	100		
132	96.2	76.3	116.3
95	107.2	72.9	112.9





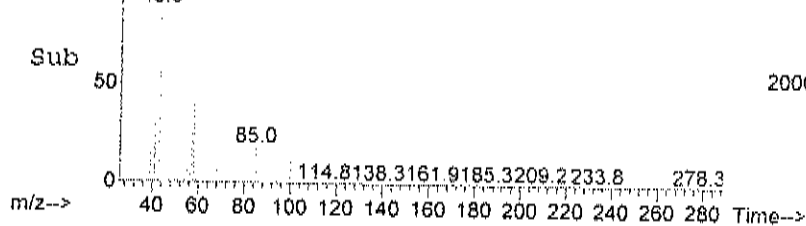
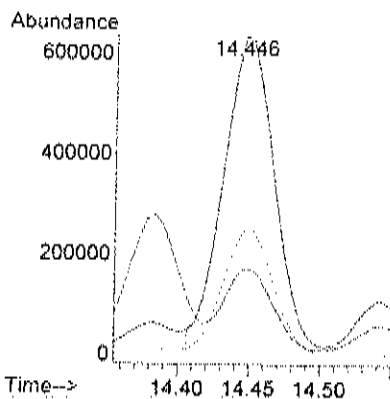
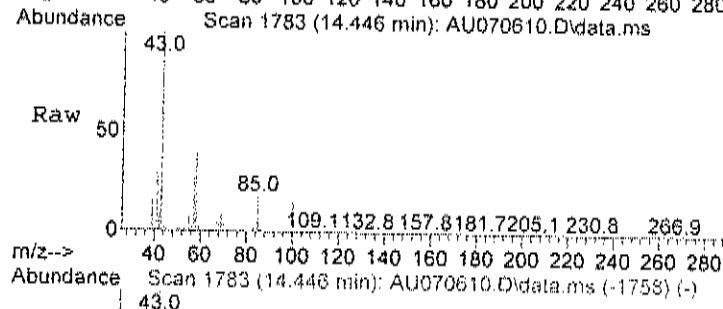
#51
Toluene
Concen: 10.25 ppb
RT: 15.376 min Scan# 1947
Delta R.T. -0.000 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

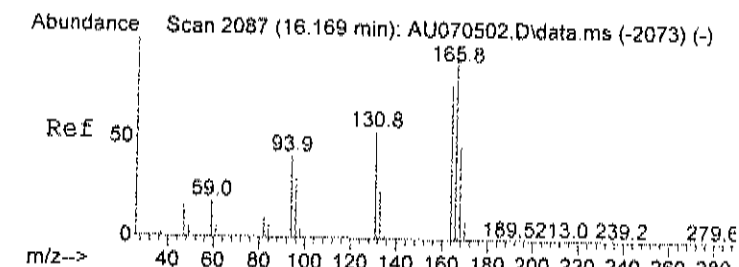
Tgt Ion: 92 Resp: 2580275
Ion Ratio Lower Upper
92 100
91 174.6 150.4 190.4



#52
Methyl Isobutyl Ketone
Concen: 4.36 ppb
RT: 14.446 min Scan# 1783
Delta R.T. -0.006 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

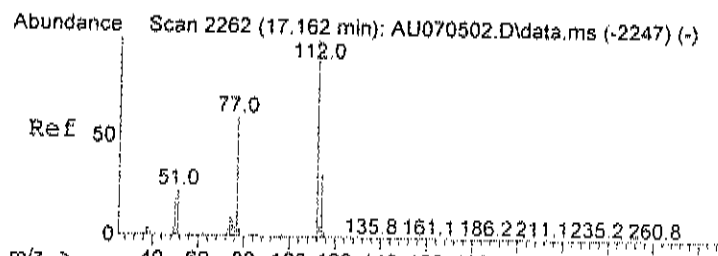
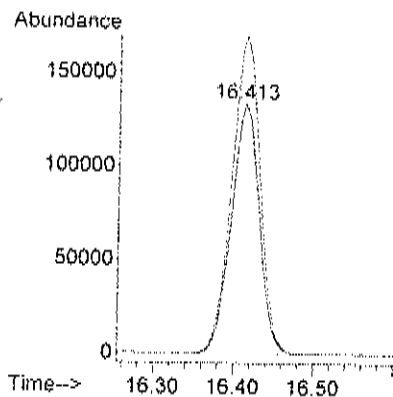
Tgt Ion: 43 Resp: 1541569
Ion Ratio Lower Upper
43 100
57 0.0 7.9 47.9#
58 41.4 24.7 64.7





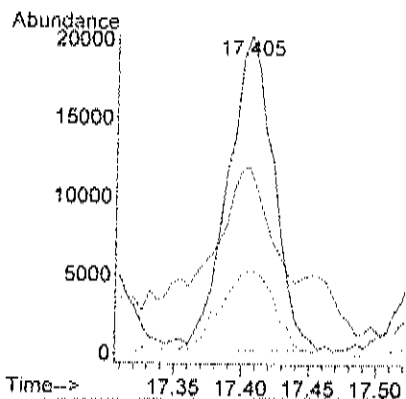
#56
Tetrachloroethylene
Concen: 2.27 ppb
RT: 16.413 min Scan# 2130
Delta R.T. -0.000 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

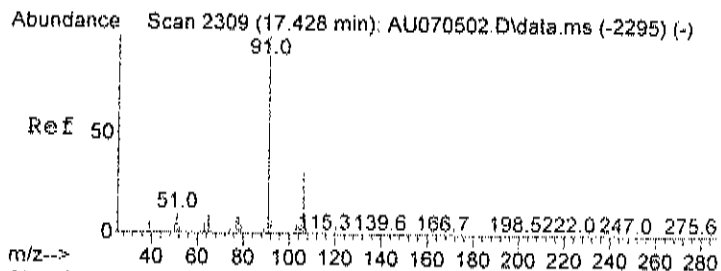
Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.0	107.9	147.9



#57
Chlorobenzene
Concen: 0.15 ppb
RT: 17.405 min Scan# 2305
Delta R.T. -0.000 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

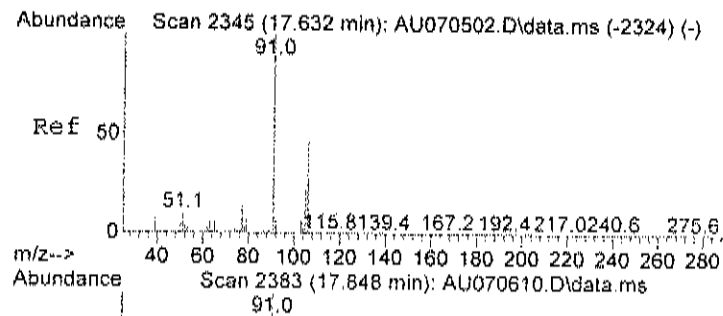
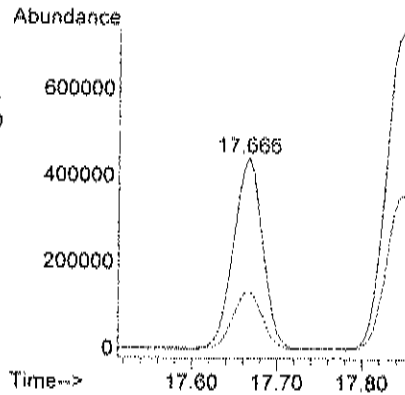
Tgt Ion	Ratio	Lower	Upper
112	100		
77	101.4	36.4	76.4#
114	33.9	11.7	51.7





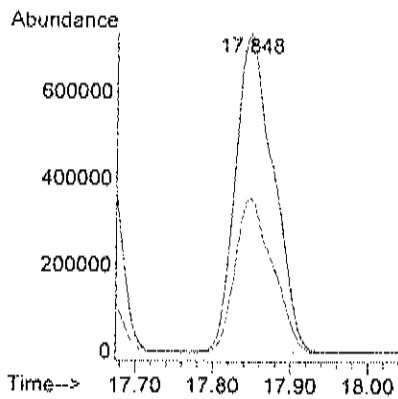
#58
Ethylbenzene
Concen: 1.90 ppb
RT: 17.666 min Scan# 2351
Delta R.T. 0.006 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

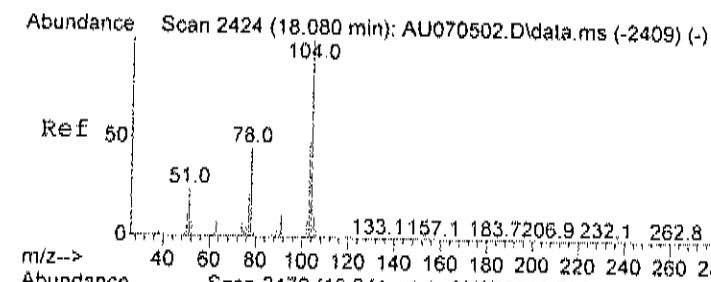
Tgt Ion: 91 Resp: 1041975
Ion Ratio Lower Upper
91 100
106 30.7 13.1 53.1



#59
m&p-xylene
Concen: 5.77 ppb
RT: 17.848 min Scan# 2383
Delta R.T. -0.017 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

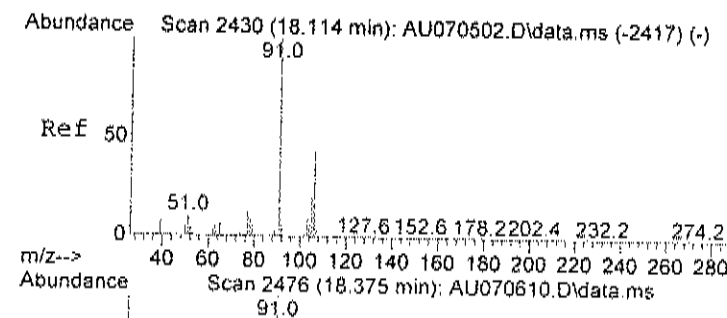
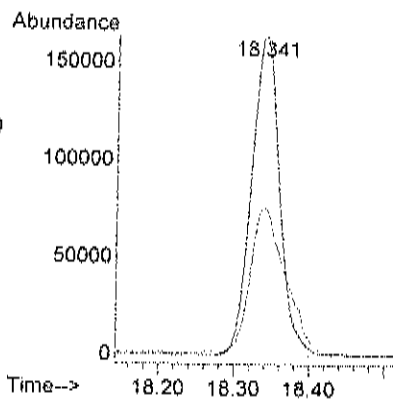
Tgt Ion: 91 Resp: 2503491
Ion Ratio Lower Upper
91 100
106 48.2 32.1 72.1





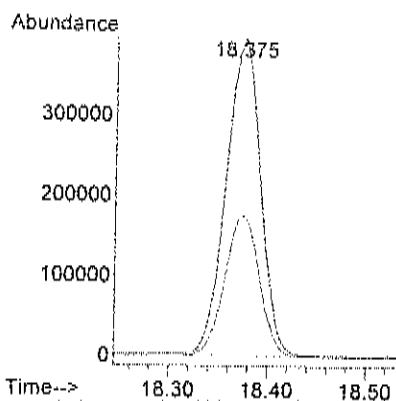
#61
Styrene
Concen: 1.29 ppb
RT: 18.341 min Scan# 2470
Delta R.T. 0.028 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

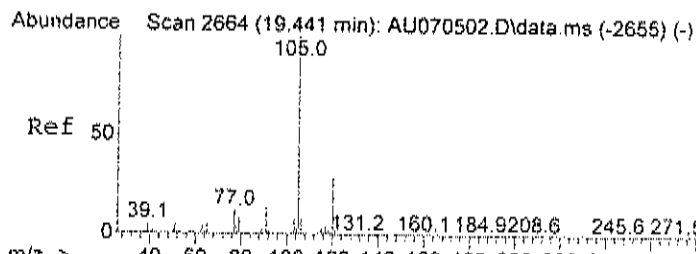
Tgt Ion: 104 Resp: 425703
Ion Ratio Lower Upper
104 100
78 57.1 25.8 65.8



#63
o-xylene
Concen: 2.16 ppb
RT: 18.375 min Scan# 2476
Delta R.T. 0.028 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

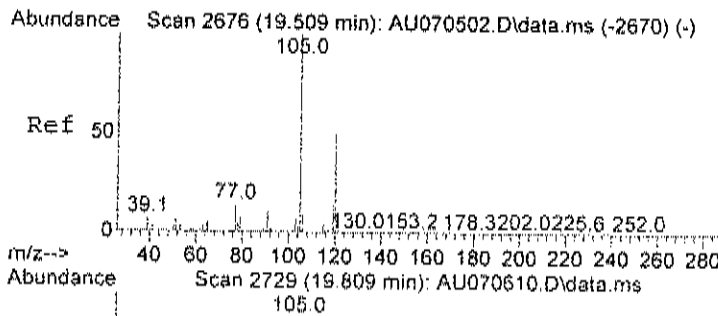
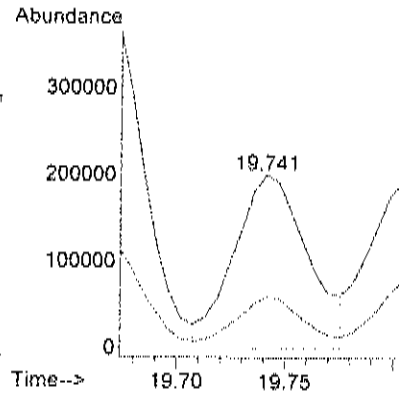
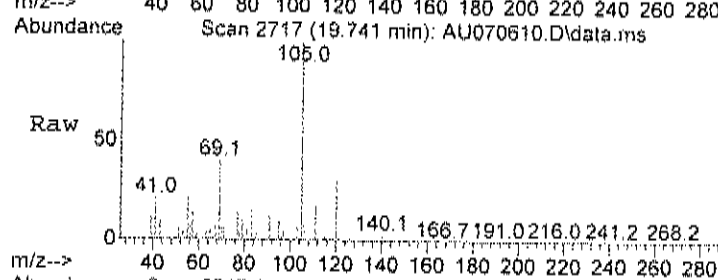
Tgt Ion: 91 Resp: 961272
Ion Ratio Lower Upper
91 100
106 45.2 29.0 69.0





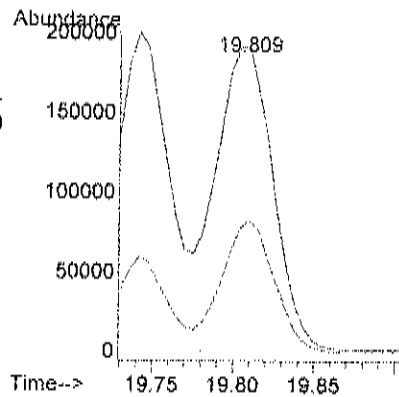
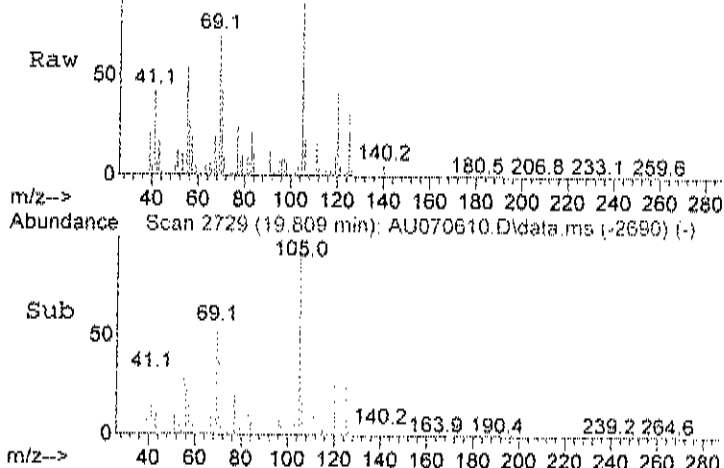
#69
4-ethyltoluene
Concen: 0.81 ppb m
RT: 19.741 min Scan# 2717
Delta R.T. 0.068 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

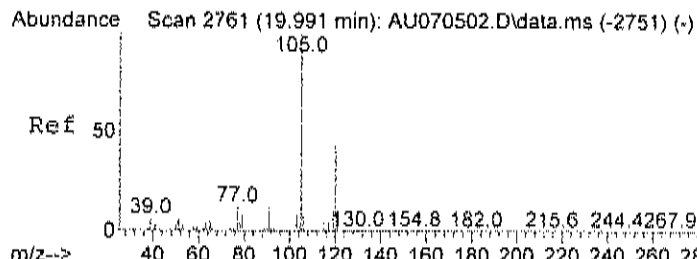
Tgt Ion	Ratio	Lower	Upper
105	100		
120	58.8	10.0	50.0



#70
1,3,5-trimethylbenzene
Concen: 0.95 ppb m
RT: 19.809 min Scan# 2729
Delta R.T. 0.074 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

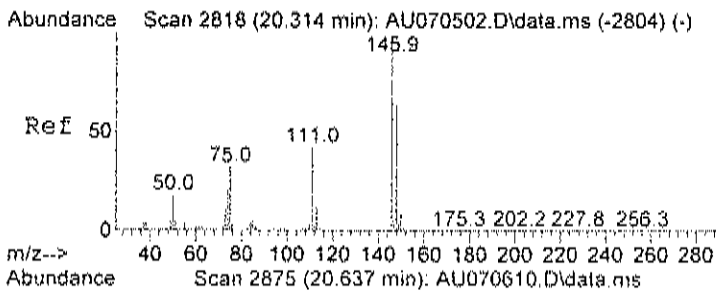
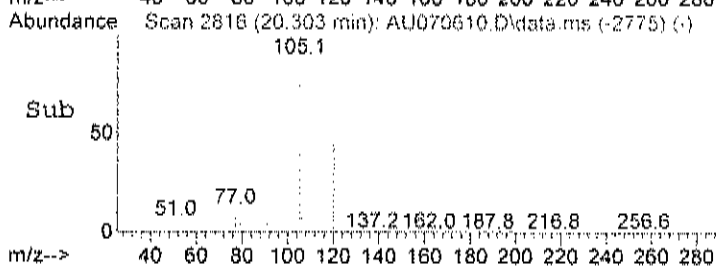
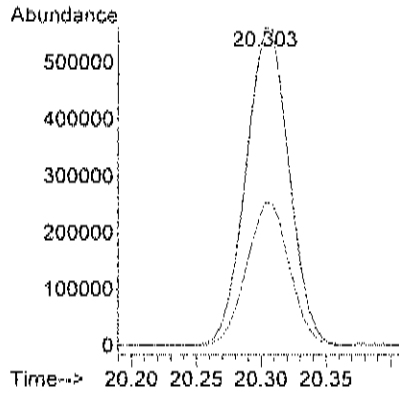
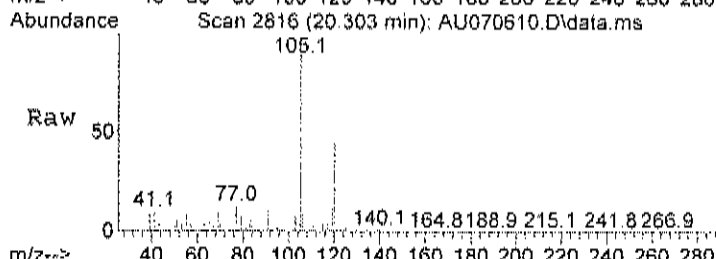
Tgt Ion	Ratio	Lower	Upper
105	100		
120	59.3	28.3	68.3





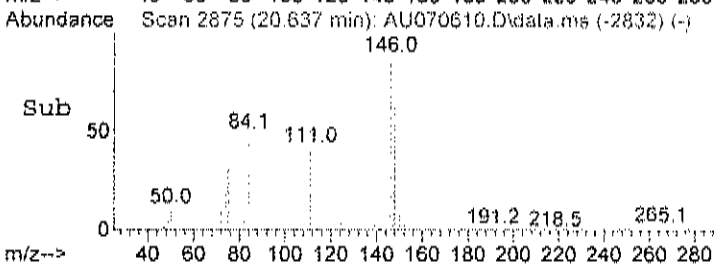
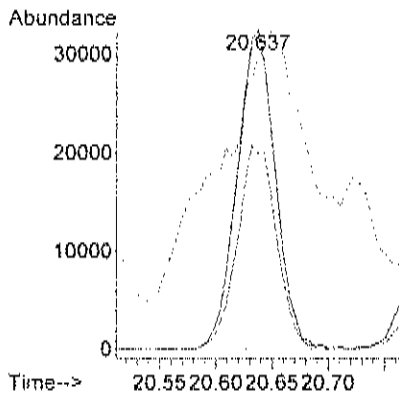
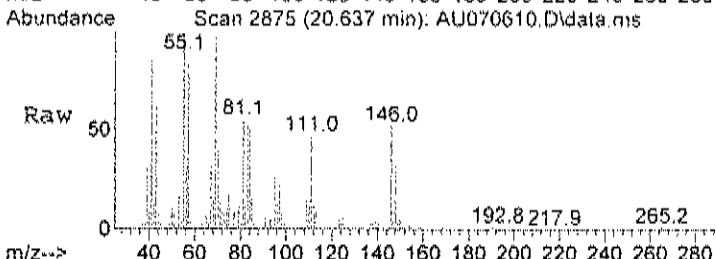
#71
1,2,4-trimethylbenzene
Concen: 2.66 ppb m
RT: 20.303 min Scan# 2816
Delta R.T. 0.085 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

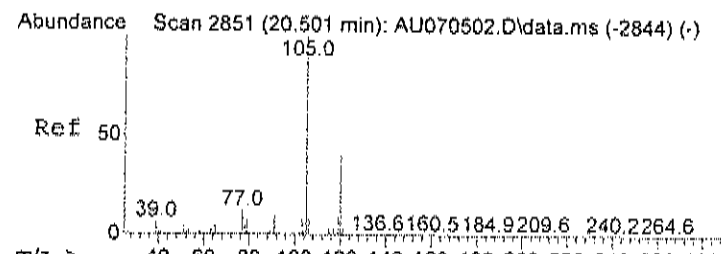
Tgt Ion	105	Resp	1306058
Ion Ratio	Lower	Upper	
105	100		
120	44.7	25.8	65.8



#72
1,3-dichlorobenzene
Concen: 0.30 ppb m
RT: 20.637 min Scan# 2875
Delta R.T. 0.096 min
Lab File: AU070610.D
Acq: 6 Jul 2023 12:29 pm

Tgt Ion	146	Resp	77013
Ion Ratio	Lower	Upper	
146	100		
148	63.7	40.1	80.1
111	145.9	18.8	58.8#





#75

1,2,3-trimethylbenzene

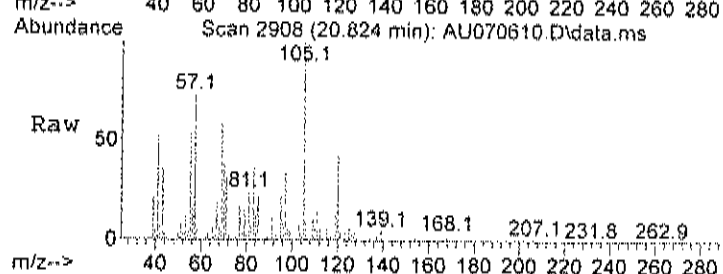
Concen: 0.76 ppb

RT: 20.824 min Scan# 2908

Delta R.T. 0.091 min

Lab File: AU070610.D

Acq: 6 Jul 2023 12:29 pm

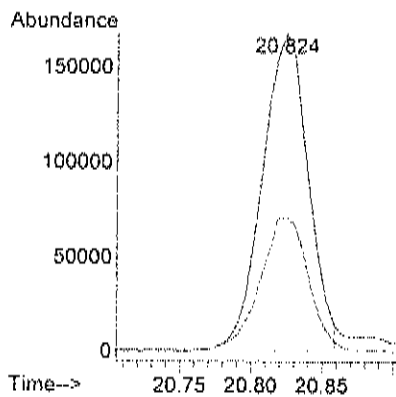
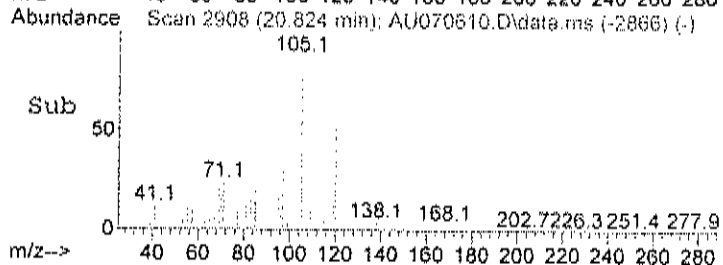


Tgt Ion: 105 Resp: 375247

Ion Ratio Lower Upper

105 100

120 45.1 31.9 53.1



Data Path : C:\msdchem\1\data\
 Data File : AU070713.D
 Acq On : 7 Jul 2023 4:34 pm
 Operator : RJP
 Sample : C2307002-017A 10X
 Misc : A629_1UG
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 08 11:11:57 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

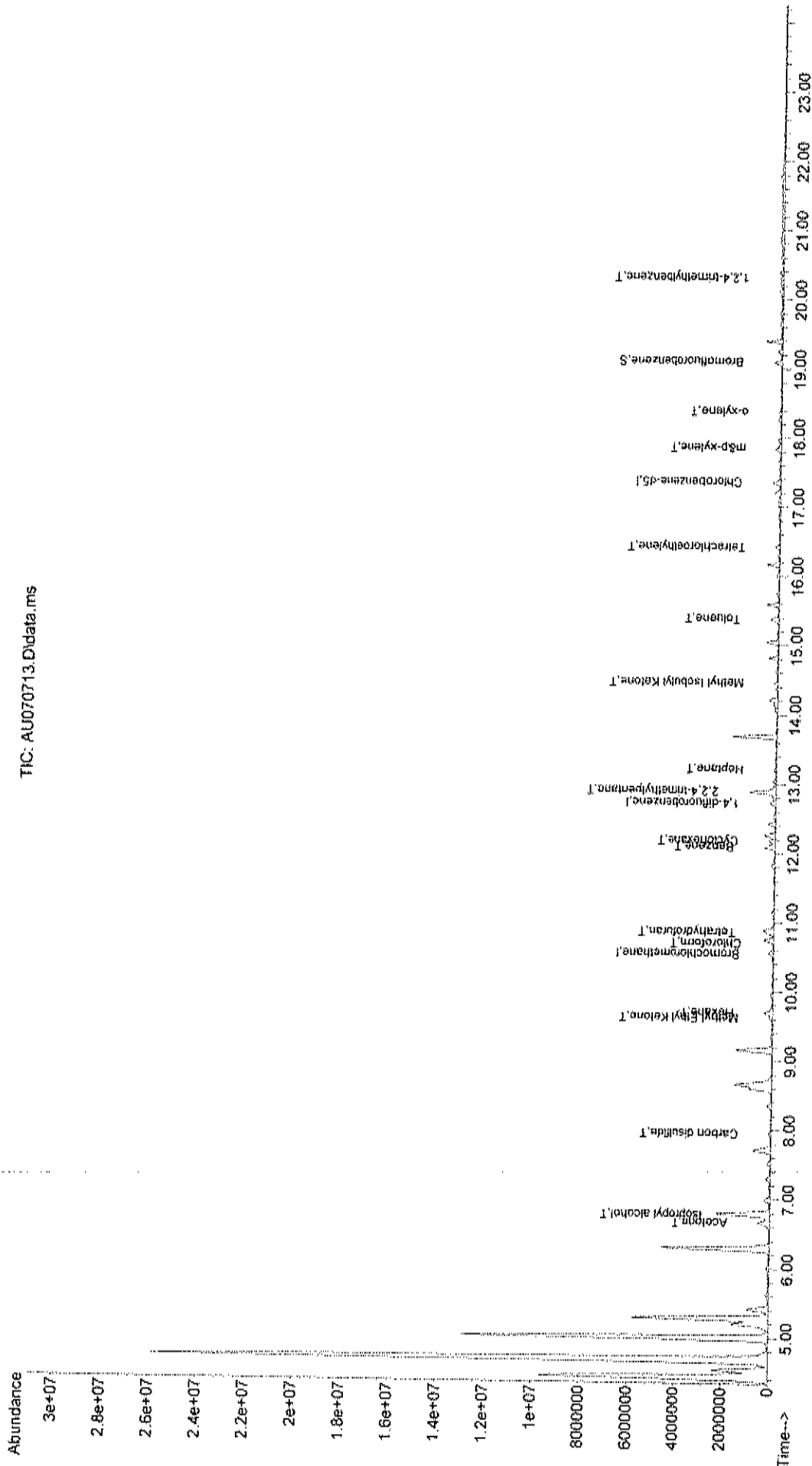
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.539	128	49852	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	258670	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	228597	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	141498	0.82	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	82.00%
Target Compounds						
						Qvalue
15) Acetone	6.661	58	391269	6.65	ppb	92
17) Isopropyl alcohol	6.769	45	124642	0.82	ppb	# 1
23) Carbon disulfide	7.943	76	203152	0.77	ppb	100
28) Methyl Ethyl Ketone	9.621	72	71213	1.52	ppb	# 24
30) Hexane	9.689	57	294528	1.98	ppb	84
32) Chloroform	10.698	83	51827	0.32	ppb	# 18
33) Tetrahydrofuran	10.857	42	290059	2.91	ppb	76
37) Cyclohexane	12.178	56	123269m	1.03	ppb	
39) Benzene	12.093	78	427003	1.95	ppb	93
42) 2,2,4-trimethylpentane	12.892	57	1390428	3.67	ppb	84
43) Heptane	13.210	43	33809m	0.23	ppb	
51) Toluene	15.376	92	162671	1.01	ppb	99
52) Methyl Isobutyl Ketone	14.451	43	89410m	0.40	ppb	
56) Tetrachloroethylene	16.413	164	21472	0.24	ppb	98
59) m&p-xylene	17.848	91	139920	0.51	ppb	92
63) o-xylene	18.375	91	52702m	0.19	ppb	
71) 1,2,4-trimethylbenzene	20.303	105	65633m	0.21	ppb	

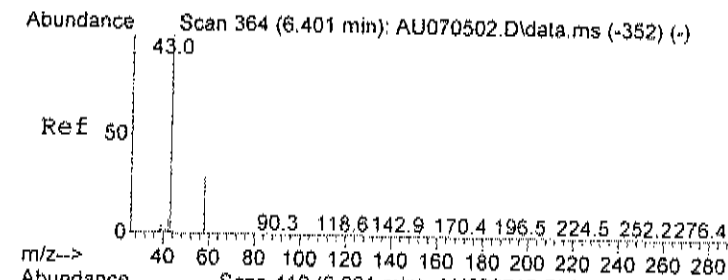
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : AU070713.D
 Acq On : 7 Jul 2023 4:34 pm
 Operator : RJP
 Sample : C2307002-017A 10X
 Misc : A629 1UG
 ALS Vial : 13 Sample Multiplier: 1

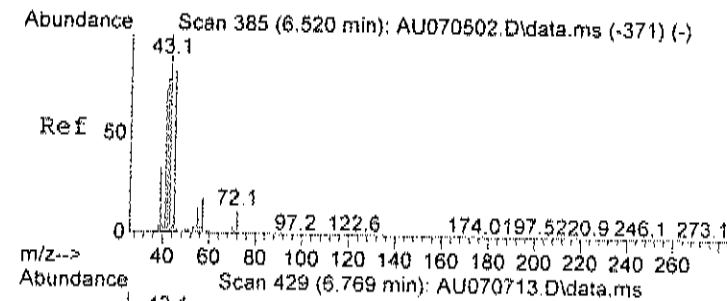
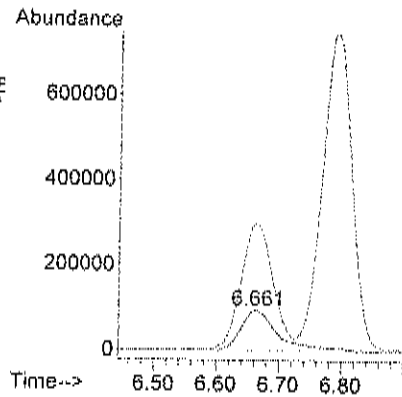
Quant Time: Jul 08 11:11:57 2023
 Quant Method : C:\msdchem\1\methods\A629 1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





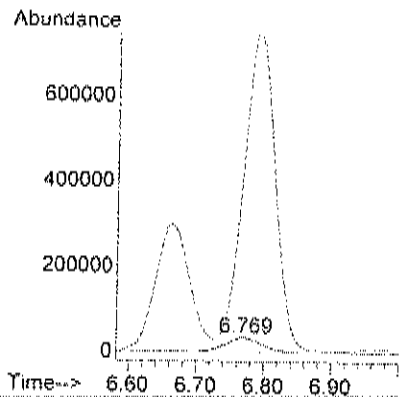
#15
Acetone
Concen: 6.65 ppb
RT: 6.661 min Scan# 410
Delta R.T. -0.006 min
Lab File: AU070713.D
Acq: 7 Jul 2023 4:34 pm

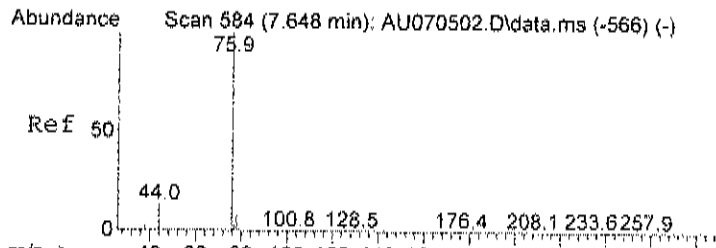
Tgt Ion: 58 Resp: 391269
Ion Ratio Lower Upper
58 100
43 268.9 224.5 284.5



#17
Isopropyl alcohol
Concen: 0.82 ppb
RT: 6.769 min Scan# 429
Delta R.T. -0.017 min
Lab File: AU070713.D
Acq: 7 Jul 2023 4:34 pm

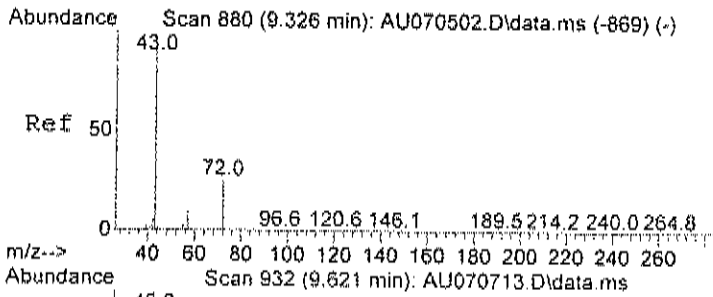
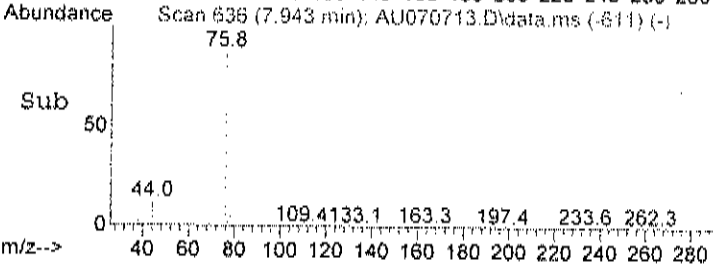
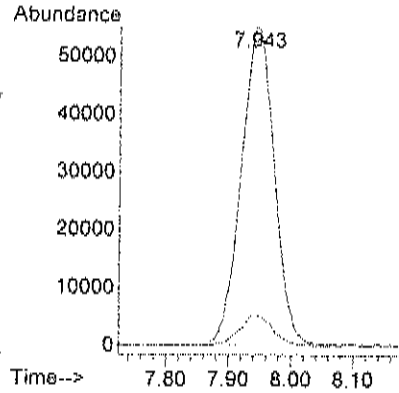
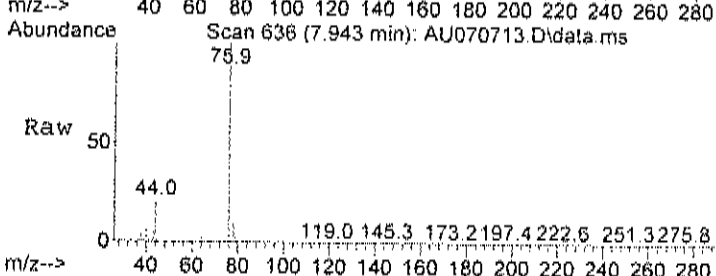
Tgt Ion: 45 Resp: 124642
Ion Ratio Lower Upper
45 100
43 1952.8 110.3 150.3#





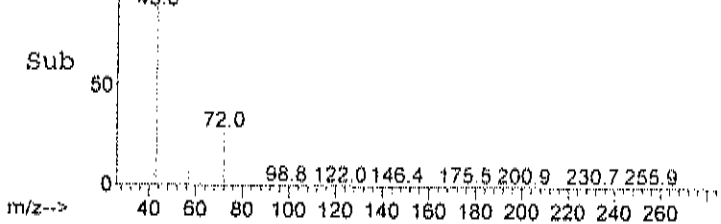
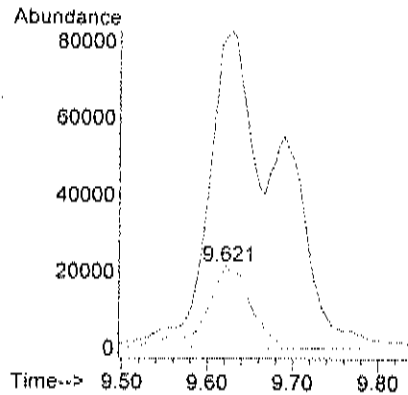
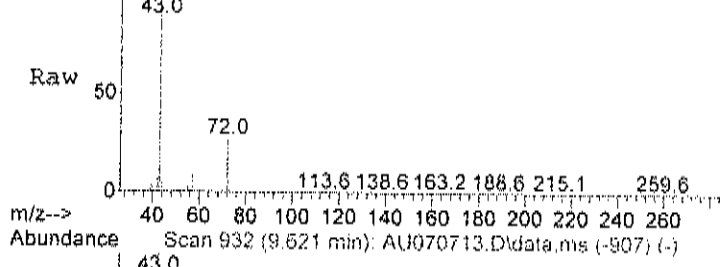
#23
Carbon disulfide
Concen: 0.77 ppb
RT: 7.943 min Scan# 636
Delta R.T. -0.006 min
Lab File: AU070713.D
Acq: 7 Jul 2023 4:34 pm

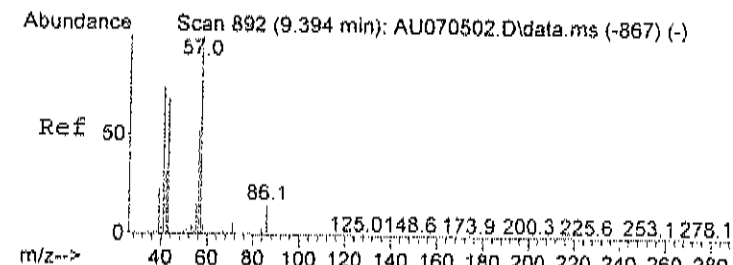
Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.4	0.0	29.3



#28
Methyl Ethyl Ketone
Concen: 1.52 ppb
RT: 9.621 min Scan# 932
Delta R.T. -0.006 min
Lab File: AU070713.D
Acq: 7 Jul 2023 4:34 pm

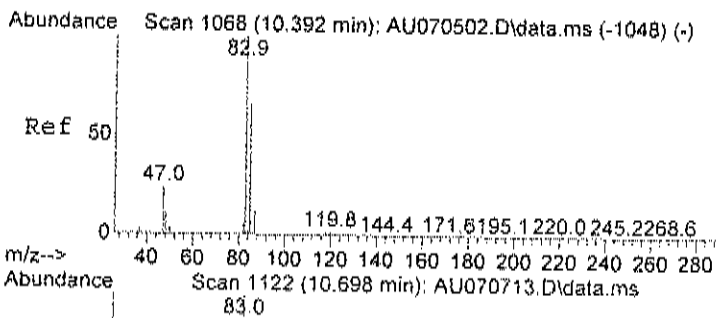
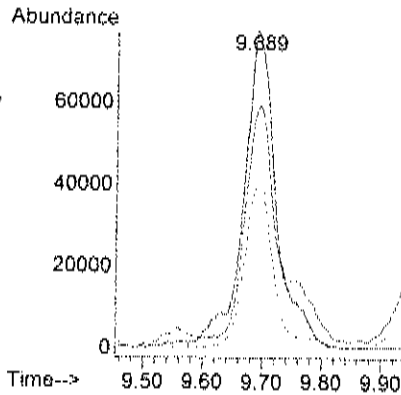
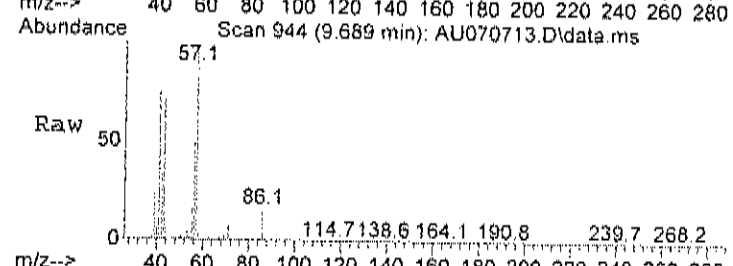
Tgt Ion	Ratio	Lower	Upper
72	100		
43	636.5	389.0	429.0#
72	100.0	80.0	120.0





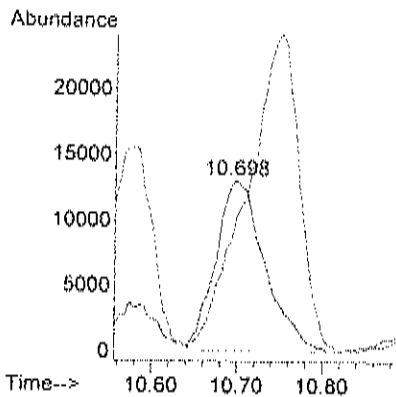
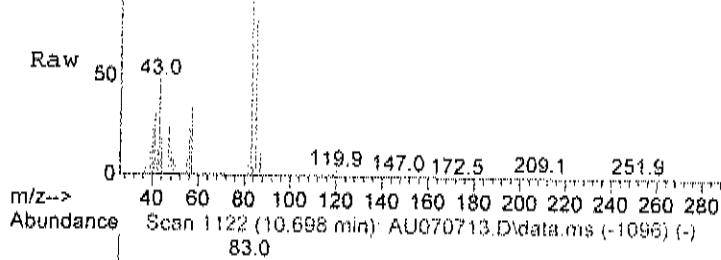
#30
Hexane
Concen: 1.98 ppb
RT: 9.689 min Scan# 944
Delta R.T. -0.006 min
Lab File: AU070713.D
Acq: 7 Jul 2023 4:34 pm

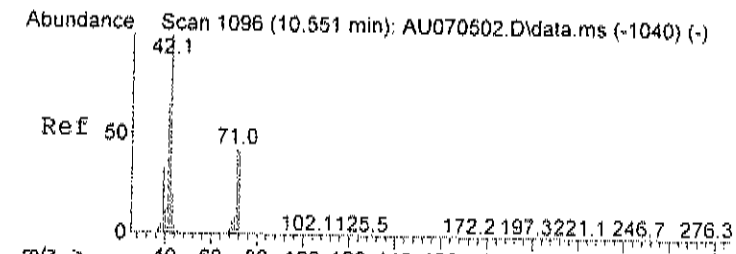
Tgt Ion	Resp	Ion Ratio	Lower	Upper
57	100			
41	77.2		37.3	77.3
56	46.8		24.8	64.8



#32
Chloroform
Concen: 0.32 ppb
RT: 10.698 min Scan# 1122
Delta R.T. -0.000 min
Lab File: AU070713.D
Acq: 7 Jul 2023 4:34 pm

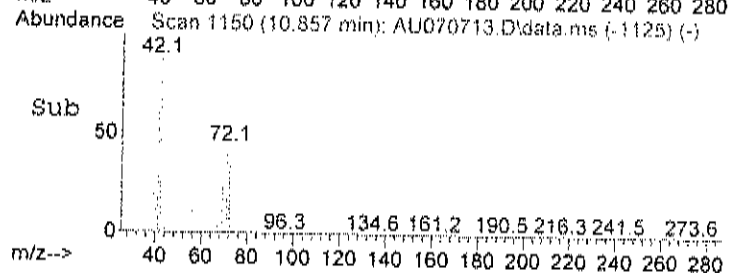
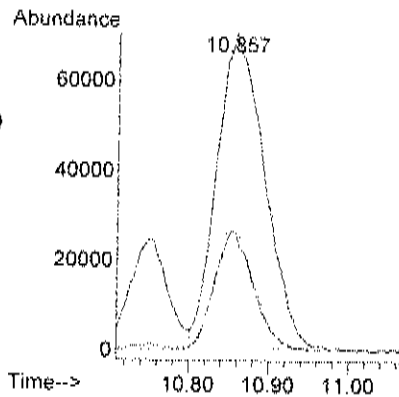
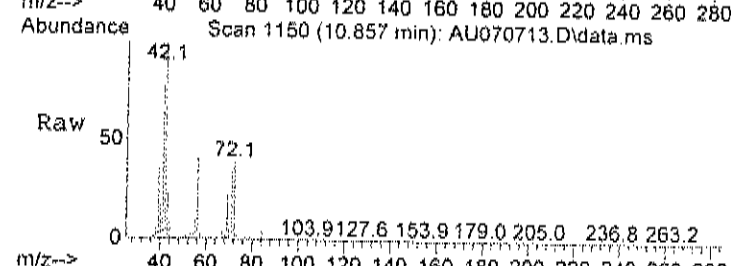
Tgt Ion	Resp	Ion Ratio	Lower	Upper
83	100			
85	0.0		44.6	84.6#





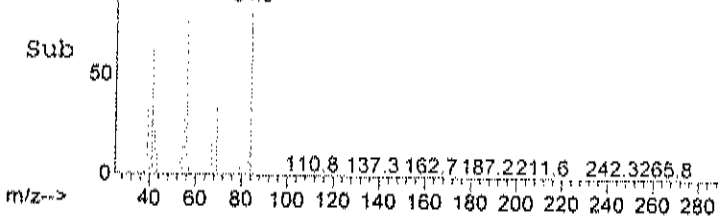
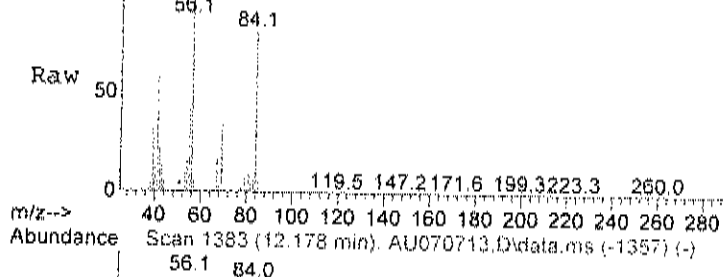
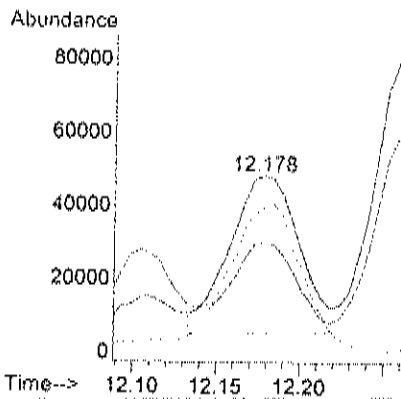
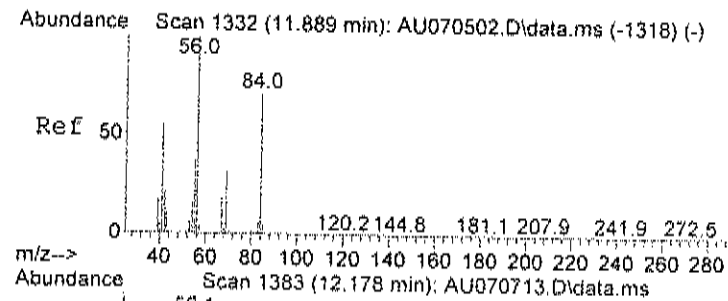
#33
Tetrahydrofuran
Concen: 2.91 ppb
RT: 10.857 min Scan# 1150
Delta R.T. -0.006 min
Lab File: AU070713.D
Acq: 7 Jul 2023 4:34 pm

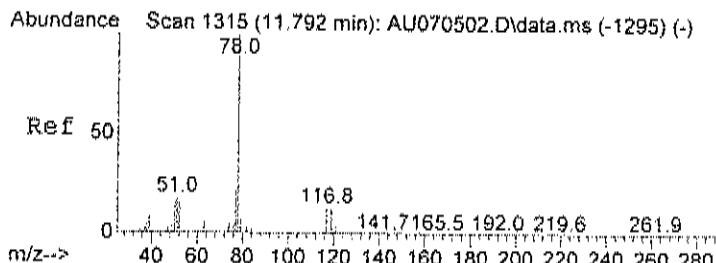
Tgt Ion	Ratio	Lower	Upper
42	100		
71	31.2	27.1	67.1
72	33.4	30.8	70.8



#37
Cyclohexane
Concen: 1.03 ppb m
RT: 12.178 min Scan# 1383
Delta R.T. -0.000 min
Lab File: AU070713.D
Acq: 7 Jul 2023 4:34 pm

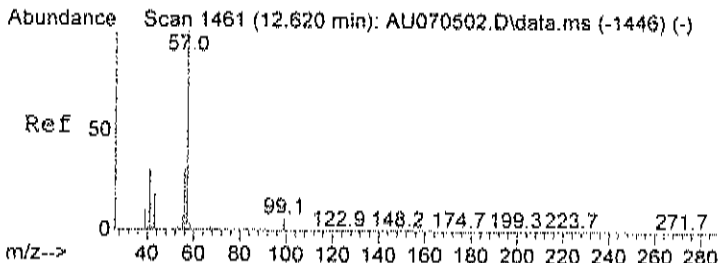
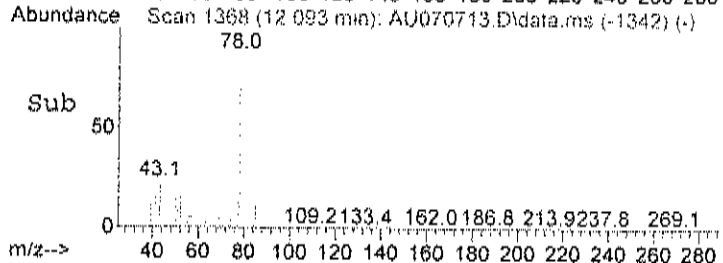
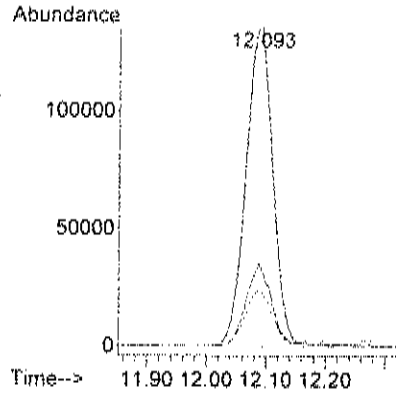
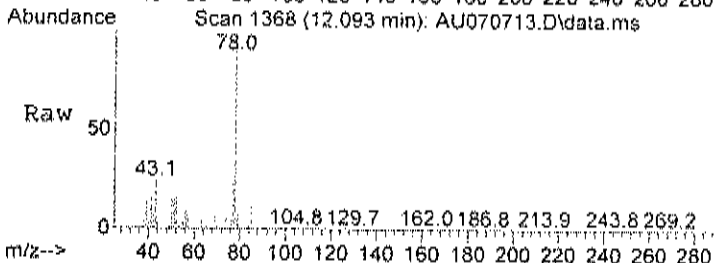
Tgt Ion	Ratio	Lower	Upper
56	100		
41	132.3	28.1	68.1#
84	112.5	85.3	125.3





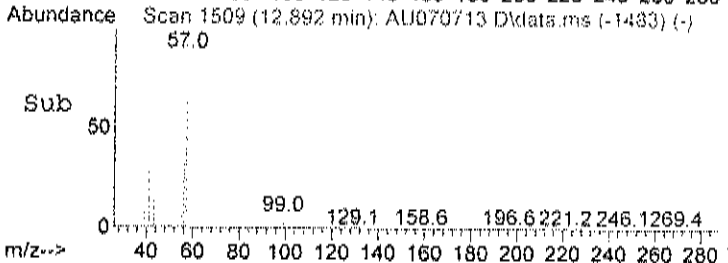
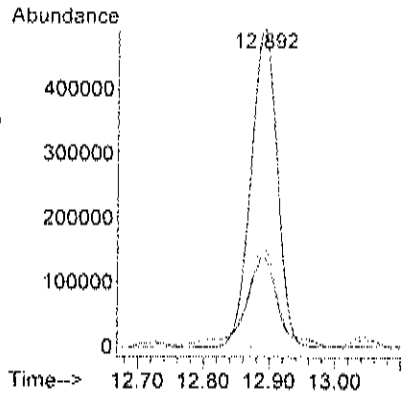
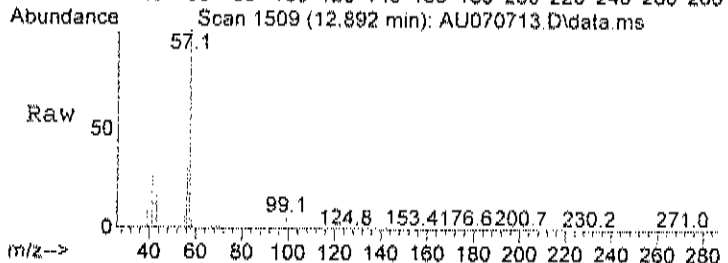
#39
Benzene
Concen: 1.95 ppb
RT: 12.093 min Scan# 1368
Delta R.T. -0.000 min
Lab File: AU070713.D
Acq: 7 Jul 2023 4:34 pm

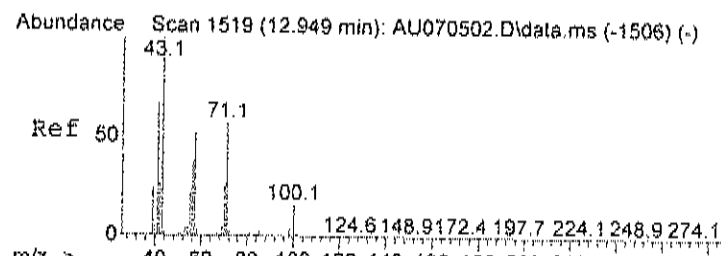
Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.6	3.8	43.8
51	19.9	0.0	35.4



#42
2,2,4-trimethylpentane
Concen: 3.67 ppb
RT: 12.892 min Scan# 1509
Delta R.T. -0.000 min
Lab File: AU070713.D
Acq: 7 Jul 2023 4:34 pm

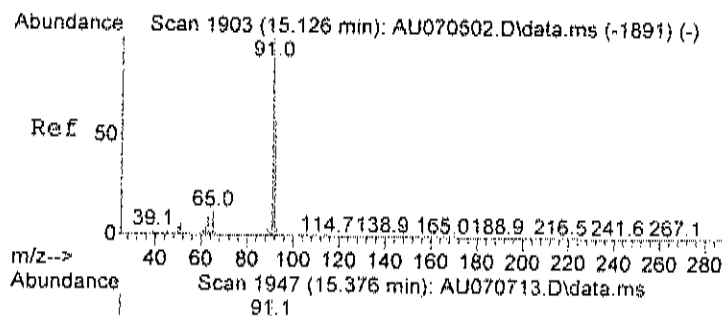
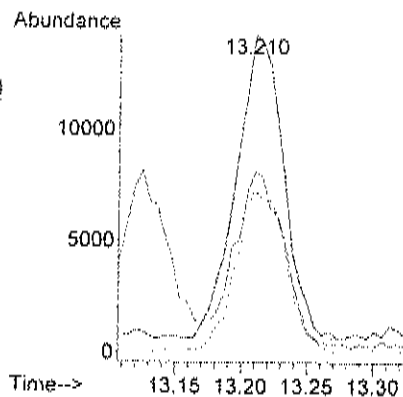
Tgt Ion	Ratio	Lower	Upper
57	100		
41	31.4	1.7	41.7
56	37.9	10.7	50.7





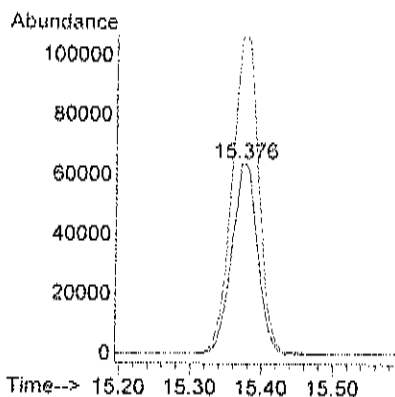
#43
Heptane
Concen: 0.23 ppb m
RT: 13.210 min Scan# 1565
Delta R.T. -0.006 min
Lab File: AU070713.D
Acq: 7 Jul 2023 4:34 pm

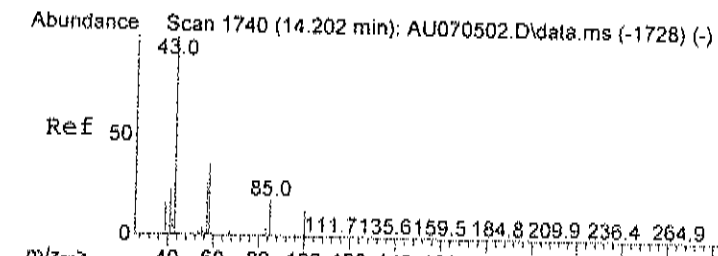
Tgt Ion	Ratio	Lower	Upper
43	100		
57	59.6	40.9	80.9
71	56.8	51.1	91.1



#51
Toluene
Concen: 1.01 ppb
RT: 15.376 min Scan# 1947
Delta R.T. -0.000 min
Lab File: AU070713.D
Acq: 7 Jul 2023 4:34 pm

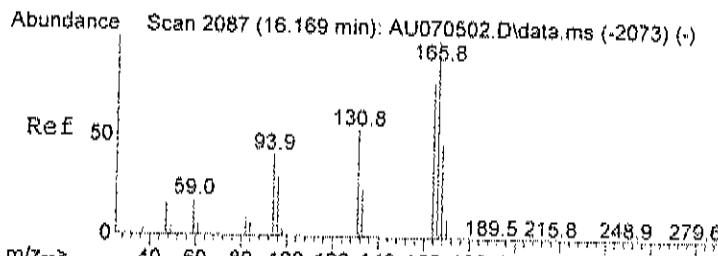
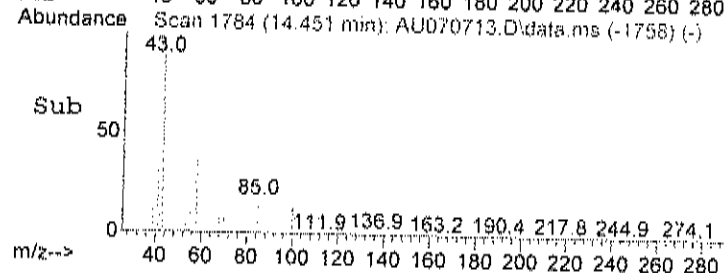
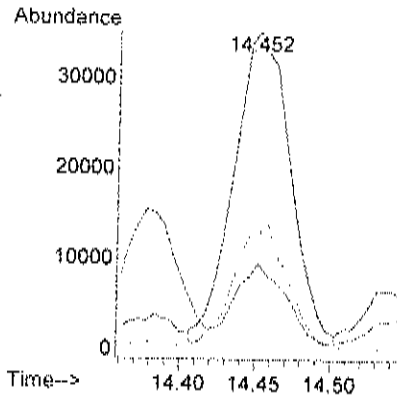
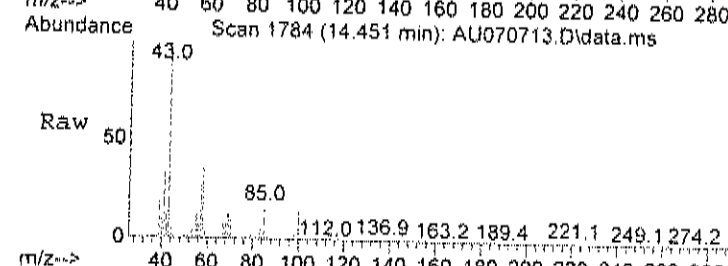
Tgt Ion	Ratio	Lower	Upper
92	100		
91	172.0	150.4	190.4





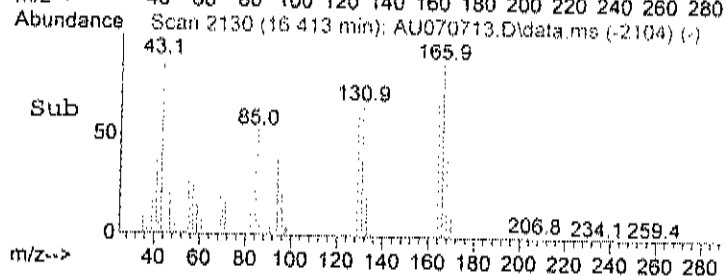
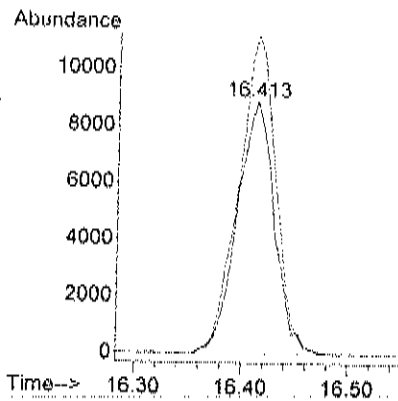
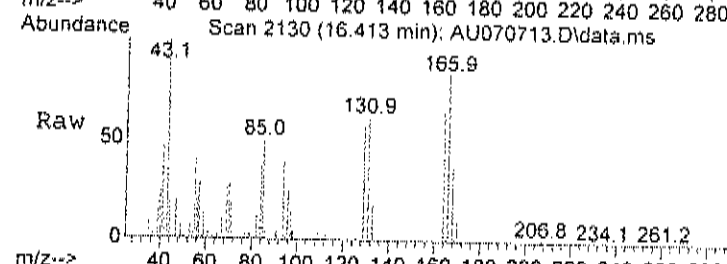
#52
Methyl Isobutyl Ketone
Concen: 0.40 ppb m
RT: 14.451 min Scan# 1784
Delta R.T. -0.000 min
Lab File: AU070713.D
Acq: 7 Jul 2023 4:34 pm

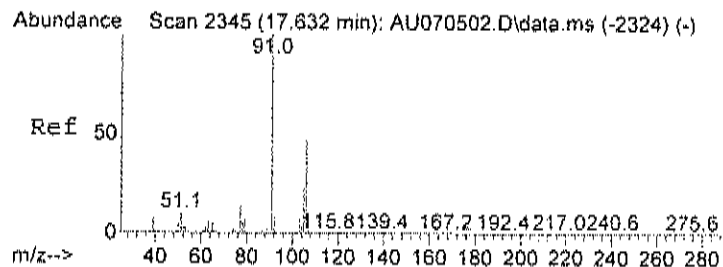
Tgt Ion	43	57	58
Ratio	100	24.7	39.5
Lower		7.9	24.7
Upper		47.9	64.7



#56
Tetrachloroethylene
Concen: 0.24 ppb
RT: 16.413 min Scan# 2130
Delta R.T. -0.000 min
Lab File: AU070713.D
Acq: 7 Jul 2023 4:34 pm

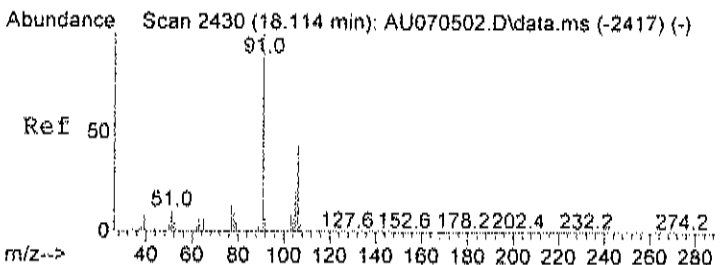
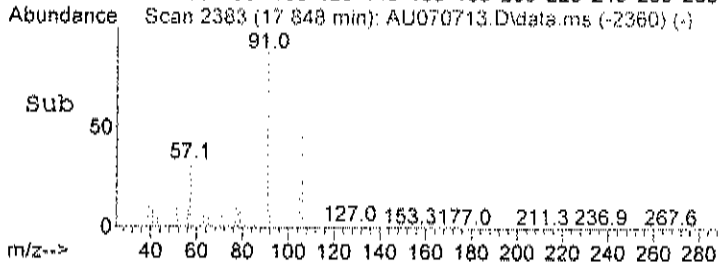
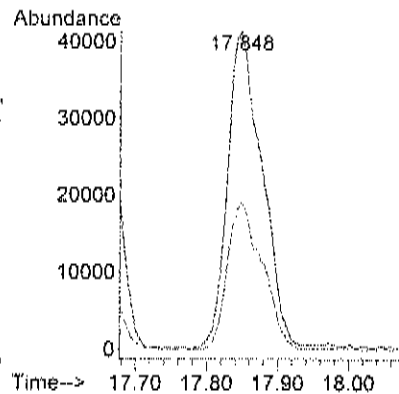
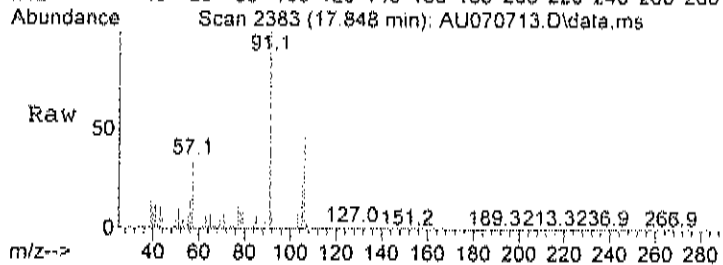
Tgt Ion	164	166
Ratio	100	125.4
Lower		107.9
Upper		147.9





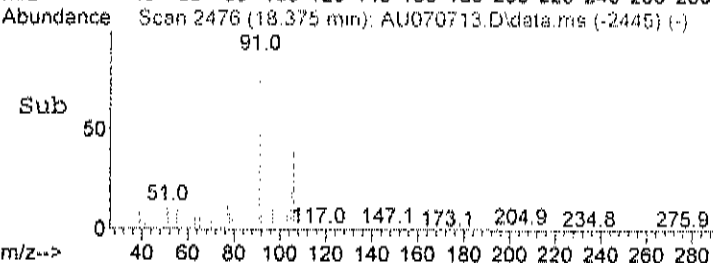
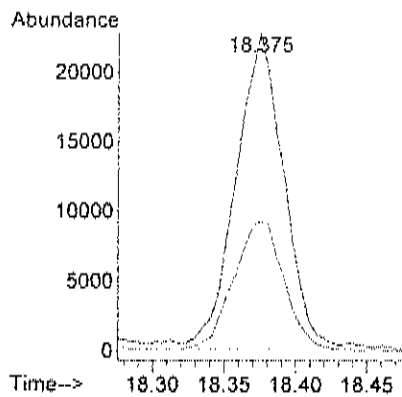
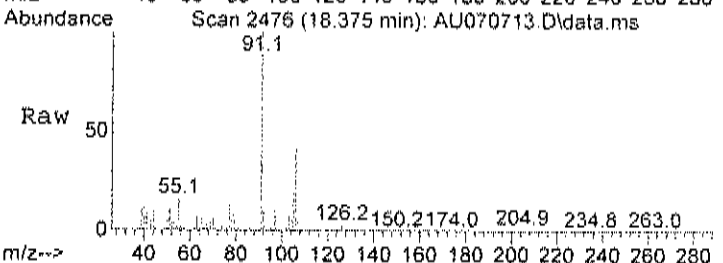
#59
m&p-xylene
Concen: 0.51 ppb
RT: 17.848 min Scan# 2383
Delta R.T. -0.017 min
Lab File: AU070713.D
Acq: 7 Jul 2023 4:34 pm

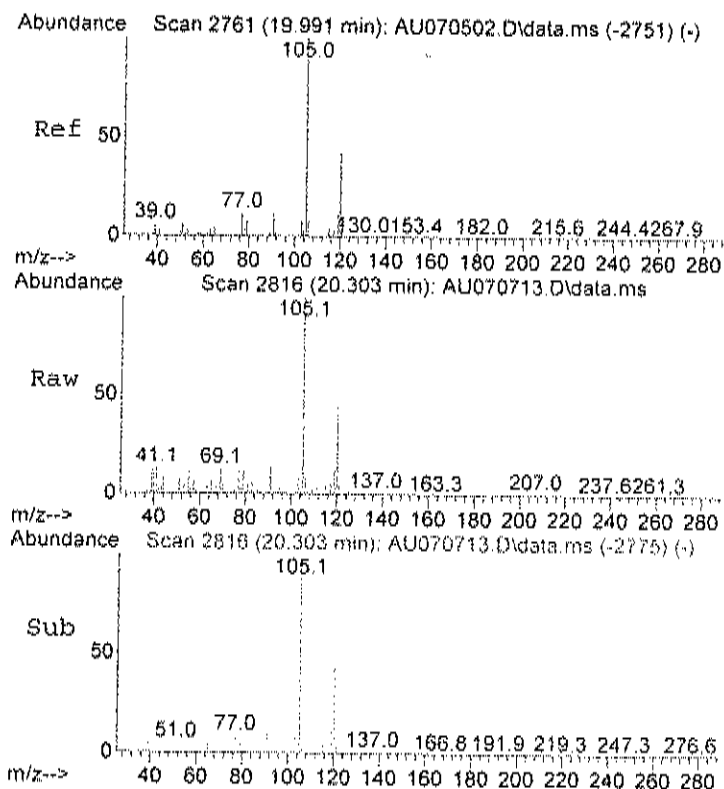
Tgt Ion	Ratio	Lower	Upper
91	100		
106	46.8	32.1	72.1



#63
o-xylene
Concen: 0.19 ppb m
RT: 18.375 min Scan# 2476
Delta R.T. 0.028 min
Lab File: AU070713.D
Acq: 7 Jul 2023 4:34 pm

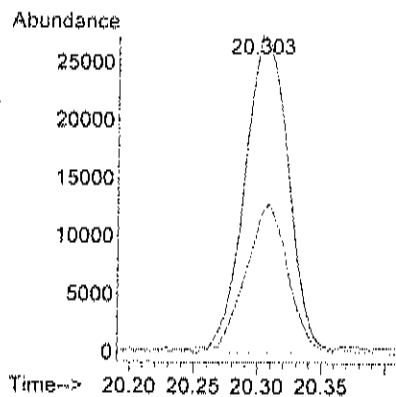
Tgt Ion	Ratio	Lower	Upper
91	100		
106	43.9	29.0	69.0





#71
1,2,4-trimethylbenzene
Concen: 0.21 ppb m
RT: 20.303 min Scan# 2816
Delta R.T. 0.085 min
Lab File: AU070713.D
Acq: 7 Jul 2023 4:34 pm

Tgt Ion: 105	Resp: 65633
Ion Ratio	Lower Upper
105	100
120	45.0 25.8 65.8



Data Path : C:\msdchem\1\data\
Data File : AU070714.D
Acq On : 7 Jul 2023 5:17 pm
Operator : RJP
Sample : C2307002-017A 40X
Misc : A629_1UG
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 08 11:11:59 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

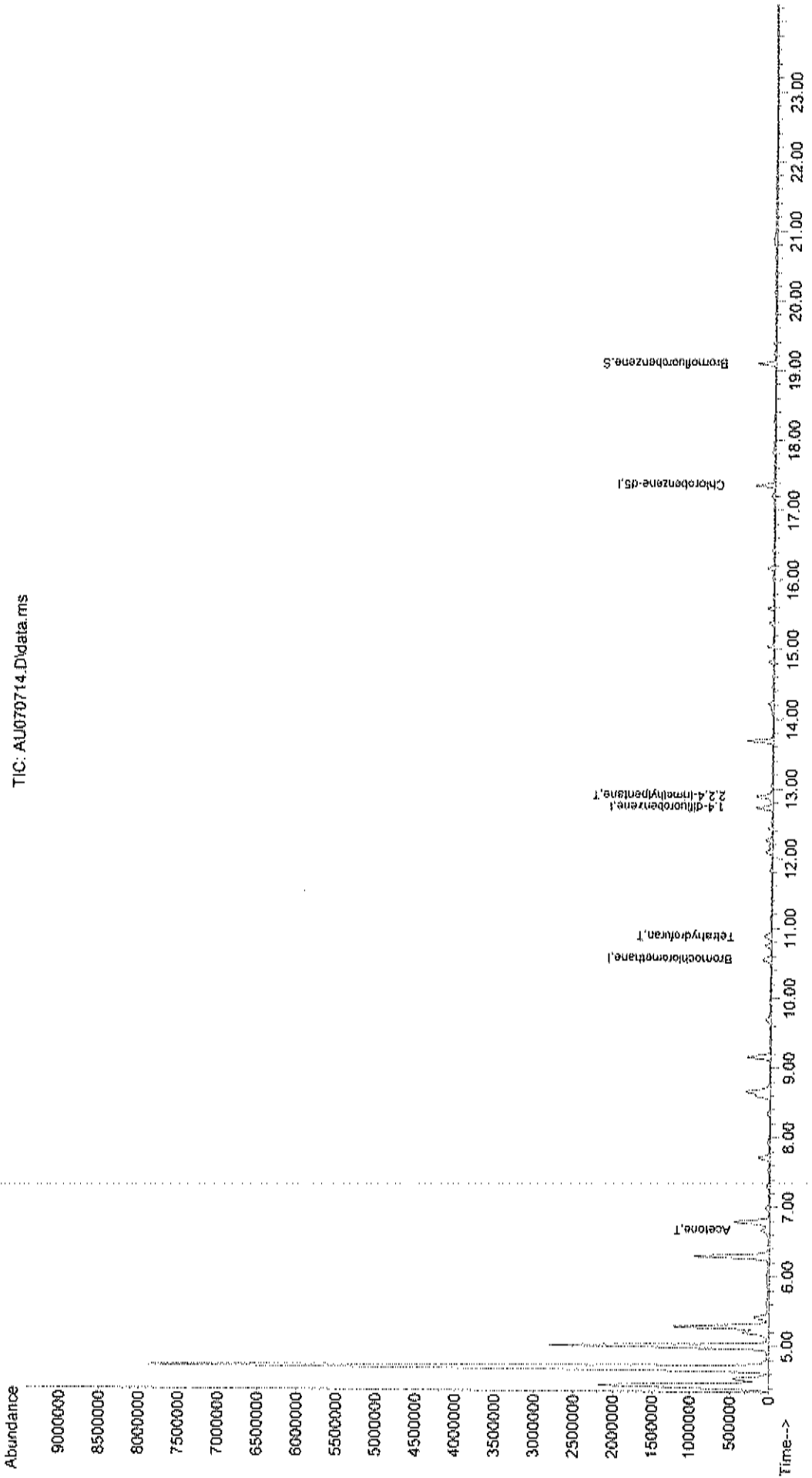
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

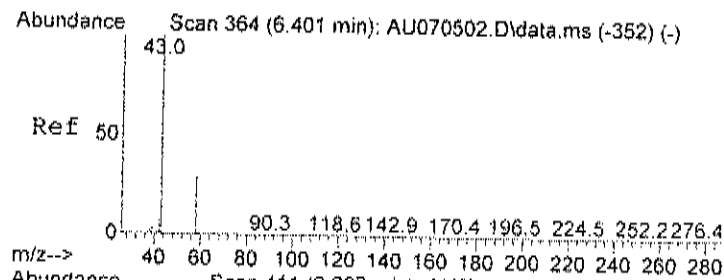
Internal Standards						
1) Bromochloromethane	10.551	128	48307	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.728	114	257155	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	199225	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.089	95	111614	0.74	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	74.00%
Target Compounds						
15) Acetone	6.667	58	67391m #	1.18	ppb	Qvalue
33) Tetrahydrofuran	10.874	42	50007	0.52	ppb	76
42) 2,2,4-trimethylpentane	12.892	57	249806	0.66	ppb	78

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

Data Path : C:\msdchem\1\data\
Data File : AU070714.D
Acq On : 7 Jul 2023 5:17 pm
Operator : RJP
Sample : C2307002-017A 40X
Misc : A629_IUG
ALS Vial : 14 Sample Multiplier: 1

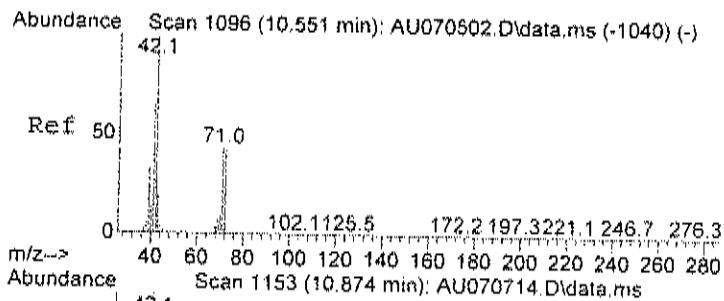
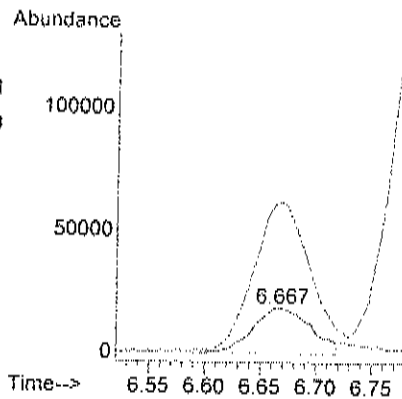
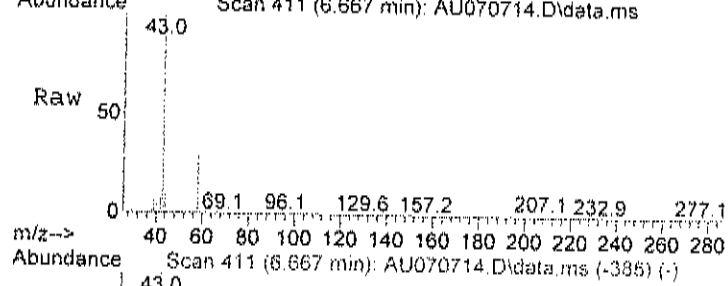
Quant Time: Jul 08 11:11:59 2023
Quant Method : C:\msdchem\1\methods\A629_IUG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration





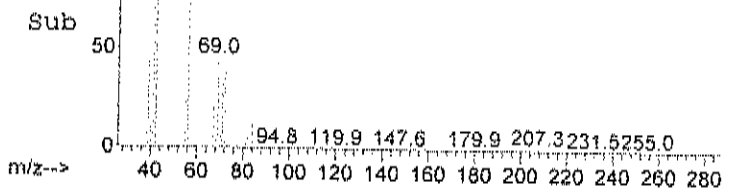
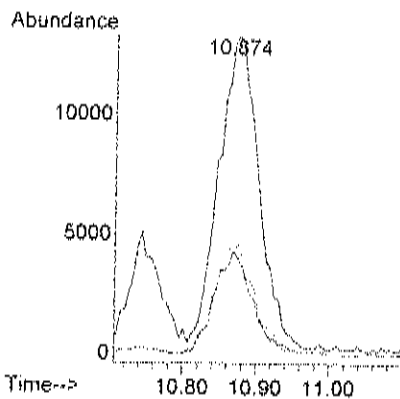
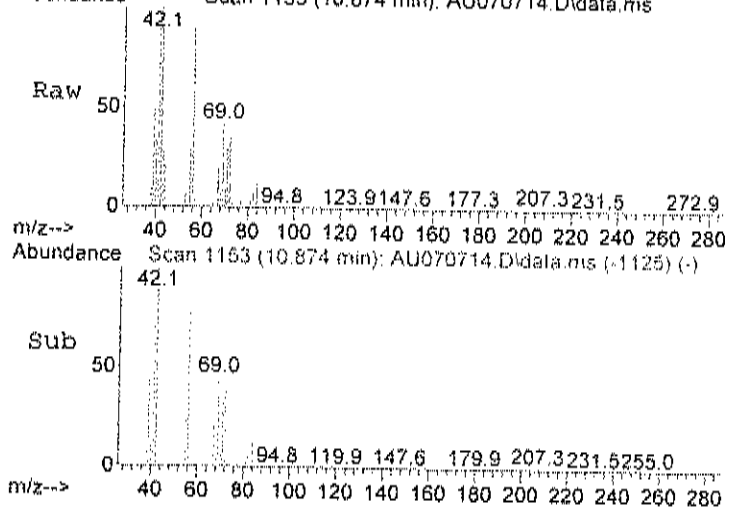
#15
Acetone
Concen: 1.18 ppb m
RT: 6.667 min Scan# 411
Delta R.T. -0.000 min
Lab File: AU070714.D
Acq: 7 Jul 2023 5:17 pm

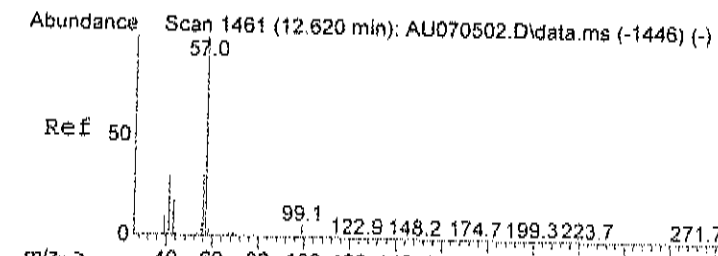
Tgt Ion	Ratio	Lower	Upper
58	100		
43	316.9	224.5	284.5#



#33
Tetrahydrofuran
Concen: 0.52 ppb
RT: 10.874 min Scan# 1153
Delta R.T. 0.011 min
Lab File: AU070714.D
Acq: 7 Jul 2023 5:17 pm

Tgt Ion	Ratio	Lower	Upper
42	100		
71	31.1	27.1	67.1
72	34.0	30.8	70.8





#42

2,2,4-trimethylpentane

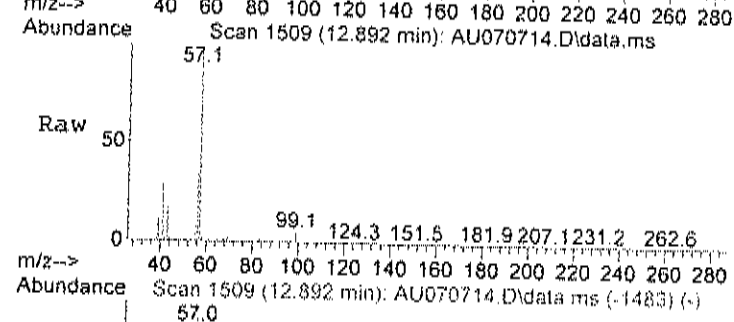
Concen: 0.66 ppb

RT: 12.892 min Scan# 1509

Delta R.T. -0.000 min

Lab File: AU070714.D

Acq: 7 Jul 2023 5:17 pm



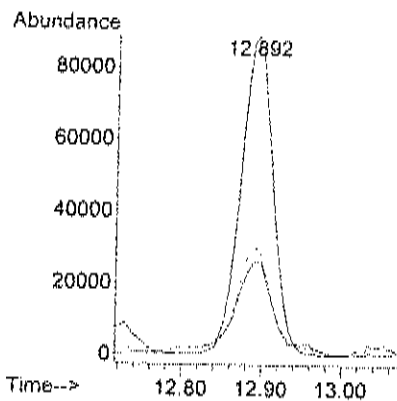
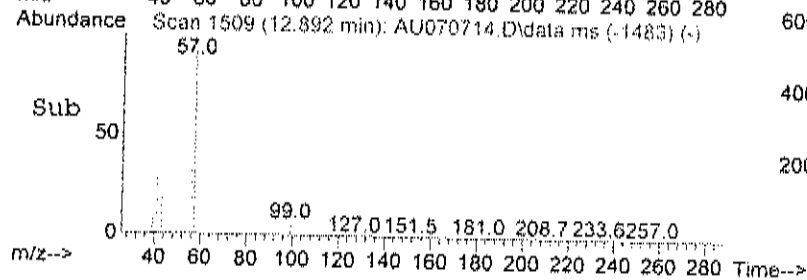
Tgt Ion: 57 Resp: 249806

Ion Ratio Lower Upper

57 100

41 36.3 1.7 41.7

56 39.3 10.7 50.7



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-1

Lab Order: C2307002

Tag Number: 171,402

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-018A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-4			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 4:17:00 PM
2,2,4-trimethylpentane	0.23	0.15		ppbV	1	7/5/2023 4:17:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Acetone	6.2	1.5		ppbV	5	7/6/2023 4:06:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Benzene	0.83	0.15		ppbV	1	7/5/2023 4:17:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Carbon disulfide	0.19	0.15		ppbV	1	7/5/2023 4:17:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Chloroform	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Chloromethane	0.67	0.15		ppbV	1	7/5/2023 4:17:00 PM
cis-1,2-Dichloroethene	0.18	0.15		ppbV	1	7/5/2023 4:17:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM

Qualifiers:

- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 35 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-1

Lab Order: C2307002

Tag Number: 171,402

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-018A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Ethyl acetate	0.86	0.15		ppbV	1	7/5/2023 4:17:00 PM
Ethylbenzene	0.11	0.15	J	ppbV	1	7/5/2023 4:17:00 PM
Freon 11	0.28	0.15		ppbV	1	7/5/2023 4:17:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Freon 12	0.53	0.15		ppbV	1	7/5/2023 4:17:00 PM
Heptane	0.20	0.15		ppbV	1	7/5/2023 4:17:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Hexane	0.54	0.15		ppbV	1	7/5/2023 4:17:00 PM
Isopropyl alcohol	6.1	0.75		ppbV	5	7/6/2023 4:06:00 PM
m&p-Xylene	0.28	0.30	J	ppbV	1	7/5/2023 4:17:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 4:17:00 PM
Methyl Ethyl Ketone	1.2	0.30		ppbV	1	7/5/2023 4:17:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 4:17:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Methylene chloride	0.32	0.15		ppbV	1	7/5/2023 4:17:00 PM
o-Xylene	0.13	0.15	J	ppbV	1	7/5/2023 4:17:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Tetrachloroethylene	1.1	0.15		ppbV	1	7/5/2023 4:17:00 PM
Tetrahydrofuran	0.31	0.15		ppbV	1	7/5/2023 4:17:00 PM
Toluene	2.0	0.15		ppbV	1	7/5/2023 4:17:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Trichloroethene	0.12	0.15	J	ppbV	1	7/5/2023 4:17:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 4:17:00 PM
Surr: Bromofluorobenzene	94.0	70-130		%REC	1	7/5/2023 4:17:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 36 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-1

Lab Order: C2307002

Tag Number: 171,402

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-018A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 4:17:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 4:17:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 4:17:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 4:17:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 4:17:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 4:17:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 4:17:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 4:17:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 4:17:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 4:17:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 4:17:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 4:17:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 4:17:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 4:17:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 4:17:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 4:17:00 PM
2,2,4-trimethylpentane	1.1	0.70		ug/m3	1	7/5/2023 4:17:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 4:17:00 PM
Acetone	15	3.6		ug/m3	5	7/6/2023 4:06:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 4:17:00 PM
Benzene	2.7	0.48		ug/m3	1	7/5/2023 4:17:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 4:17:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 4:17:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 4:17:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 4:17:00 PM
Carbon disulfide	0.59	0.47		ug/m3	1	7/5/2023 4:17:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 4:17:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 4:17:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 4:17:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	7/5/2023 4:17:00 PM
Chloromethane	1.4	0.31		ug/m3	1	7/5/2023 4:17:00 PM
cis-1,2-Dichloroethene	0.71	0.59		ug/m3	1	7/5/2023 4:17:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 4:17:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 4:17:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 4:17:00 PM
Ethyl acetate	3.1	0.54		ug/m3	1	7/5/2023 4:17:00 PM
Ethylbenzene	0.48	0.65	J	ug/m3	1	7/5/2023 4:17:00 PM
Freon 11	1.6	0.84		ug/m3	1	7/5/2023 4:17:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 4:17:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 4:17:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 35 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-1

Lab Order: C2307002

Tag Number: 171.402

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-018A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.6	0.74		ug/m3	1	7/5/2023 4:17:00 PM
Heptane	0.82	0.61		ug/m3	1	7/5/2023 4:17:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 4:17:00 PM
Hexane	1.9	0.53		ug/m3	1	7/5/2023 4:17:00 PM
Isopropyl alcohol	15	1.8		ug/m3	5	7/6/2023 4:06:00 PM
m&p-Xylene	1.2	1.3	J	ug/m3	1	7/5/2023 4:17:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 4:17:00 PM
Methyl Ethyl Ketone	3.5	0.88		ug/m3	1	7/5/2023 4:17:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 4:17:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 4:17:00 PM
Methylene chloride	1.1	0.52		ug/m3	1	7/5/2023 4:17:00 PM
o-Xylene	0.56	0.65	J	ug/m3	1	7/5/2023 4:17:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 4:17:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 4:17:00 PM
Tetrachloroethylene	7.5	1.0		ug/m3	1	7/5/2023 4:17:00 PM
Tetrahydrofuran	0.91	0.44		ug/m3	1	7/5/2023 4:17:00 PM
Toluene	7.5	0.57		ug/m3	1	7/5/2023 4:17:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 4:17:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 4:17:00 PM
Trichloroethene	0.64	0.81	J	ug/m3	1	7/5/2023 4:17:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 4:17:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 4:17:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 4:17:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 36 of 40

Data Path : C:\msdchem\1\data\
 Data File : AU070514.D
 Acq On : 5 Jul 2023 4:17 pm
 Operator : RJP
 Sample : C2307002-018A
 Misc : A629_1UG
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 07:55:17 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

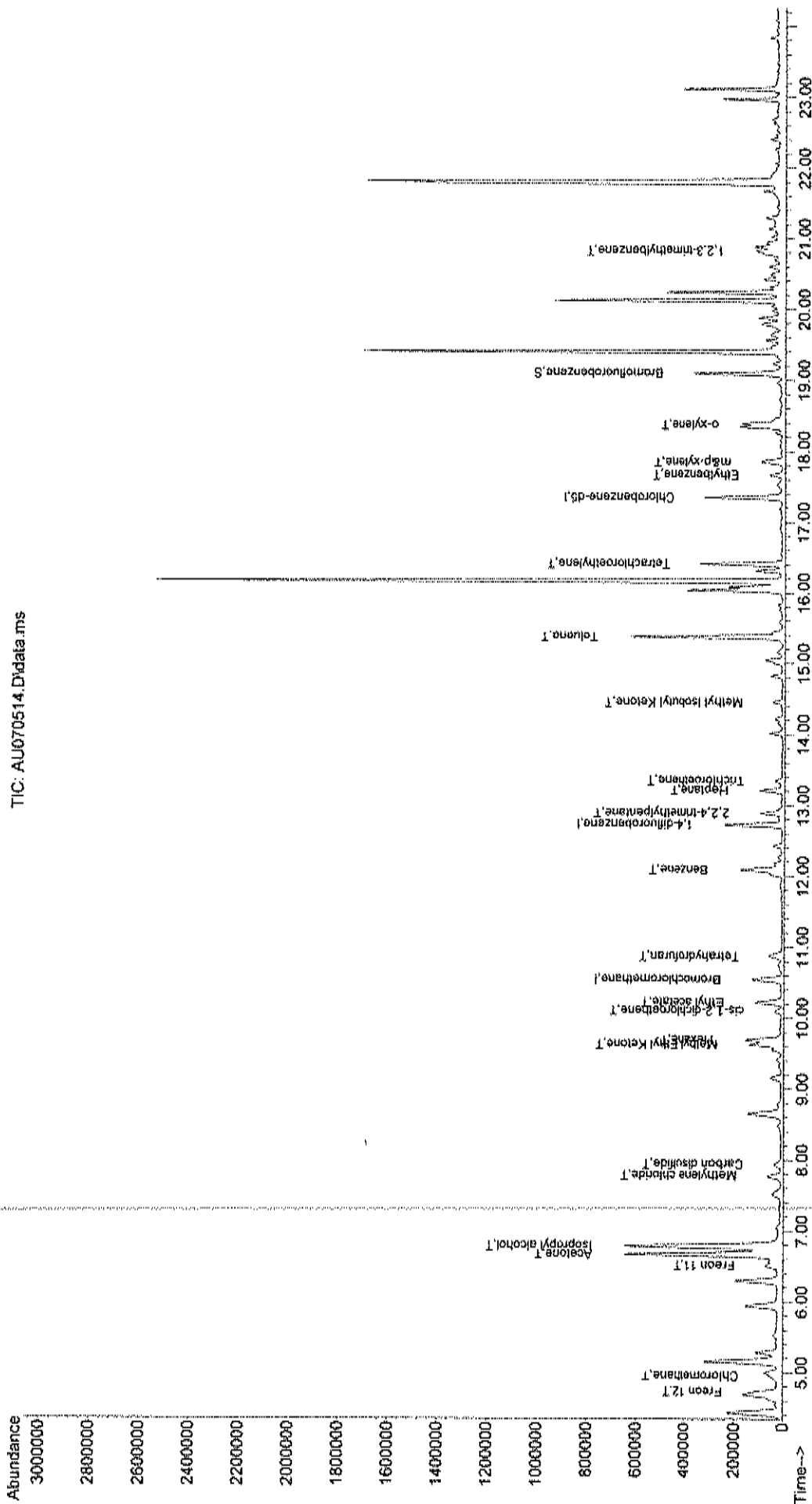
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

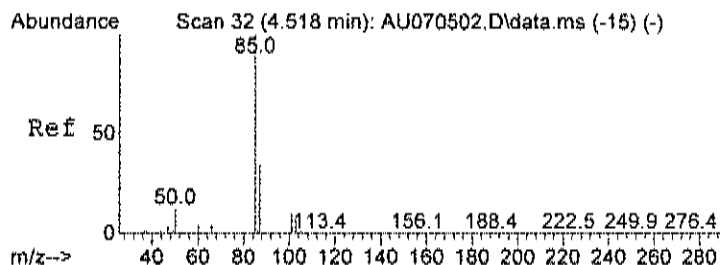
Internal Standards						
1) Bromochloromethane	10.545	128	58459	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.728	114	279191	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	245433	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	174654	0.94	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	94.00%
Target Compounds						
					Qvalue	
3) Freon 12	4.728	85	128150	0.53	ppb	99
4) Chloromethane	4.949	50	51003	0.67	ppb	86
14) Freon 11	6.508	101	67742	0.28	ppb	98
15) Acetone	6.661	58	462869m	6.71	ppb	
17) Isopropyl alcohol	6.780	45	1184371	6.62	ppb	# 1
21) Methylene chloride	7.778	84	47351	0.32	ppb	90
23) Carbon disulfide	7.937	76	59255	0.19	ppb	95
28) Methyl Ethyl Ketone	9.627	72	65029m	1.18	ppb	
29) cis-1,2-dichloroethene	10.103	61	24896	0.18	ppb	91
30) Hexane	9.689	57	93216	0.54	ppb	# 69
31) Ethyl acetate	10.222	43	209912	0.86	ppb	96
33) Tetrahydrofuran	10.868	42	36036	0.31	ppb	80
39) Benzene	12.087	78	196530	0.83	ppb	96
42) 2,2,4-trimethylpentane	12.892	57	95775	0.23	ppb	76
43) Heptane	13.210	43	31006m	0.20	ppb	
44) Trichloroethene	13.346	130	12650	0.12	ppb	92
51) Toluene	15.376	92	340476	1.98	ppb	99
52) Methyl Isobutyl Ketone	14.446	43	28696	0.12	ppb	91
56) Tetrachloroethylene	16.408	164	107581	1.10	ppb	100
58) Ethylbenzene	17.666	91	41348	0.11	ppb	94
59) m&p-xylene	17.848	91	84620	0.28	ppb	98
63) o-xylene	18.369	91	40173	0.13	ppb	89
75) 1,2,3-trimethylbenzene	20.824	105	42640	0.13	ppb	95

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

Data Path : C:\msdchem\1\data\
 Data File : AU070514.D
 Acq On : 5 Jul 2023 4:17 pm
 Operator : RJP
 Sample : C2307002-018A
 Misc : A629_1UG
 ALS Vial : 2 Sample Multiplier: 1

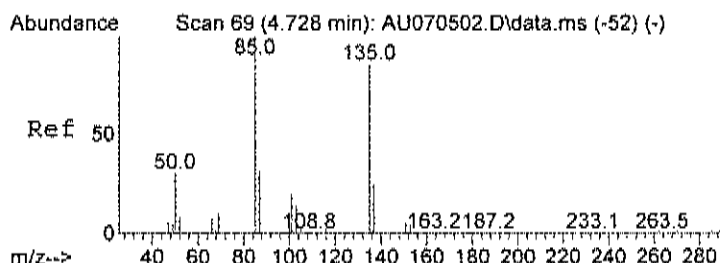
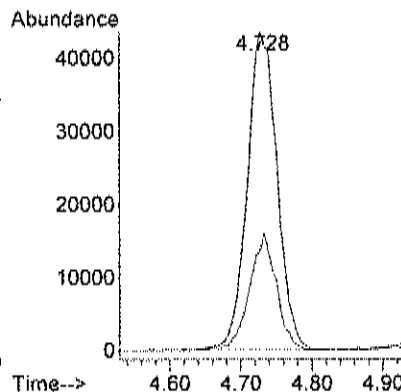
Quant Time: Jul 06 07:55:17 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





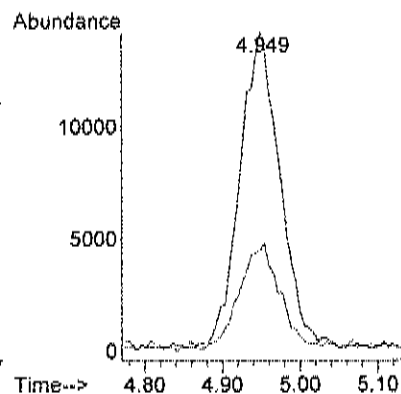
#3
Freon 12
Concen: 0.53 ppb
RT: 4.728 min Scan# 69
Delta R.T. -0.006 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

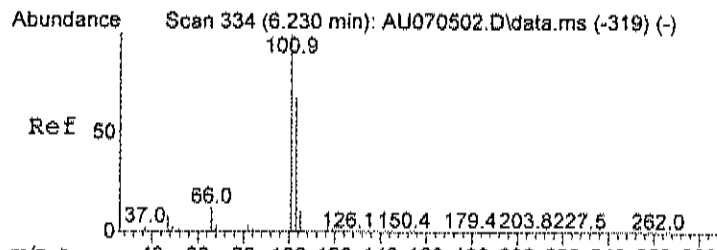
Tgt Ion: 85	Resp: 128150
Ion Ratio	Lower Upper
85	100
87	33.0 13.4 53.4



#4
Chloromethane
Concen: 0.67 ppb
RT: 4.949 min Scan# 108
Delta R.T. -0.006 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

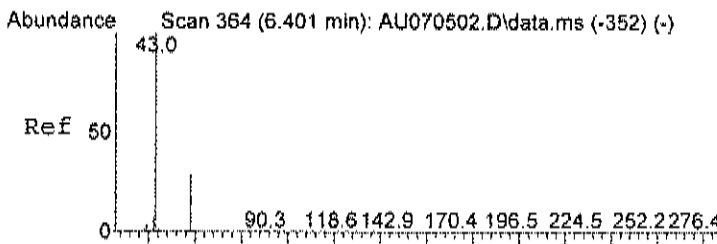
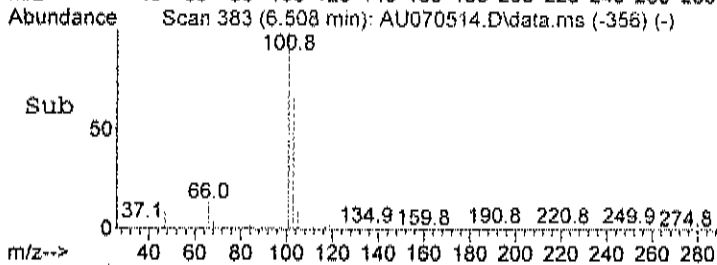
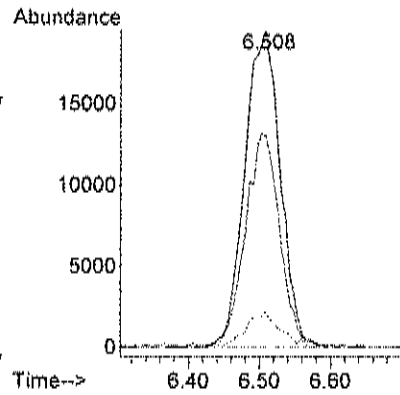
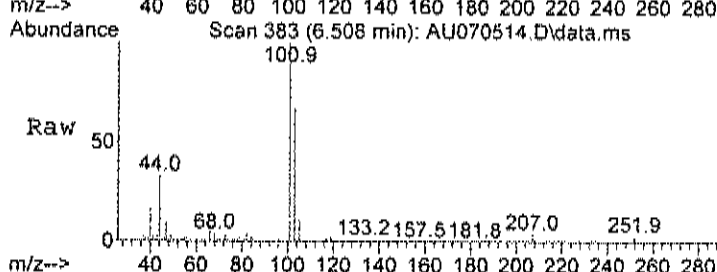
Tgt Ion: 50	Resp: 51003
Ion Ratio	Lower Upper
50	100
52	33.9 6.9 46.9





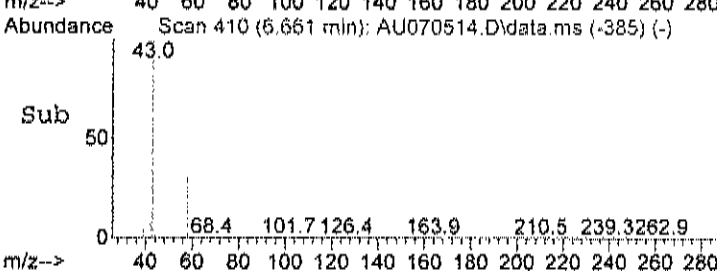
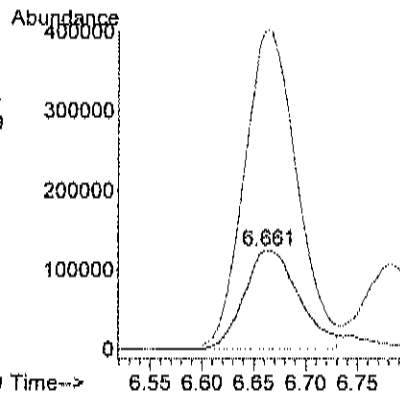
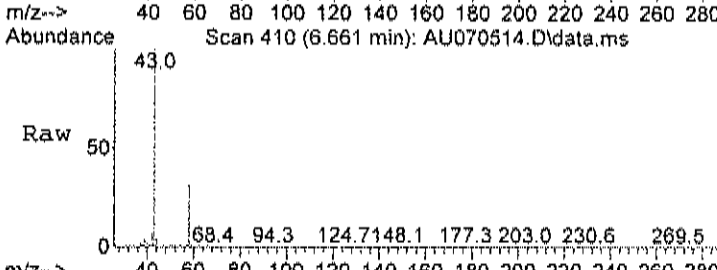
#14
Freon 11
Concen: 0.28 ppb
RT: 6.508 min Scan# 383
Delta R.T. 0.006 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

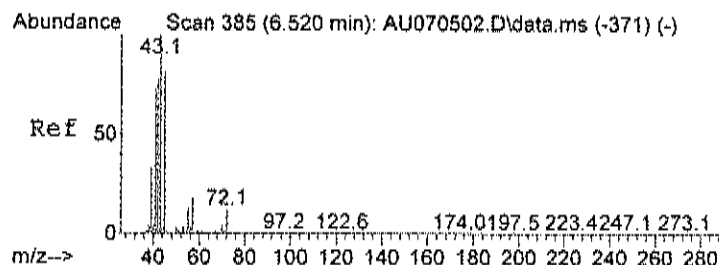
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	67742		
103	65.7		44.0	84.0
105	10.6		0.0	31.4



#15
Acetone
Concen: 6.71 ppb m
RT: 6.661 min Scan# 410
Delta R.T. -0.006 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

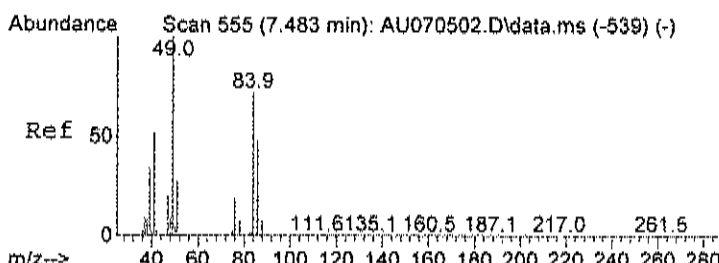
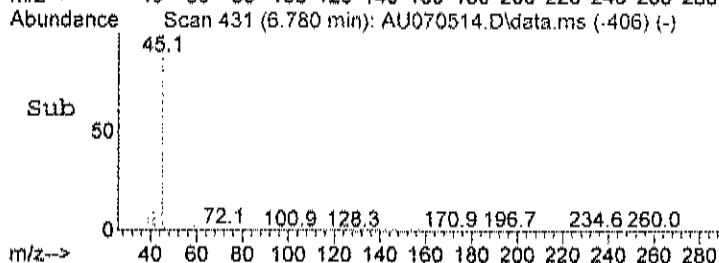
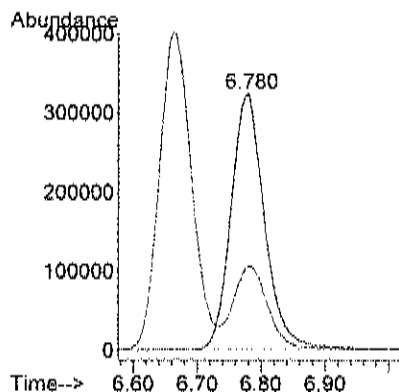
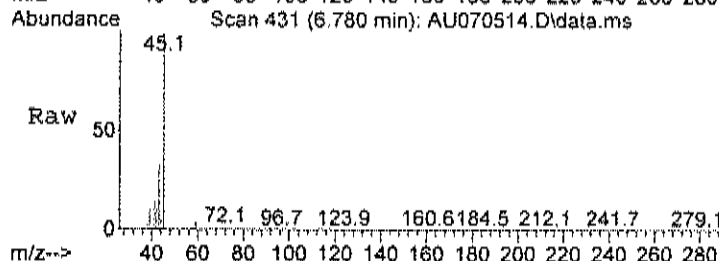
Tgt Ion	Ratio	Resp	Lower	Upper
58	100	462869		
43	371.1		224.5	284.5#





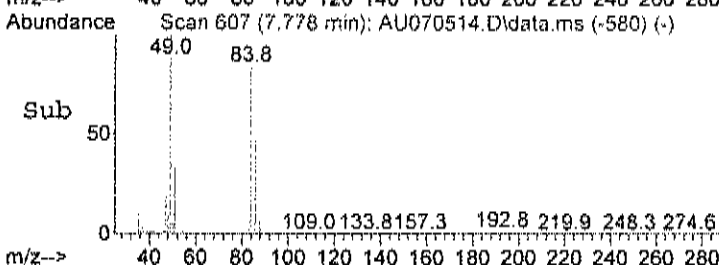
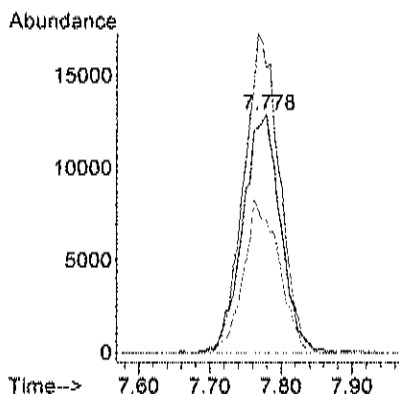
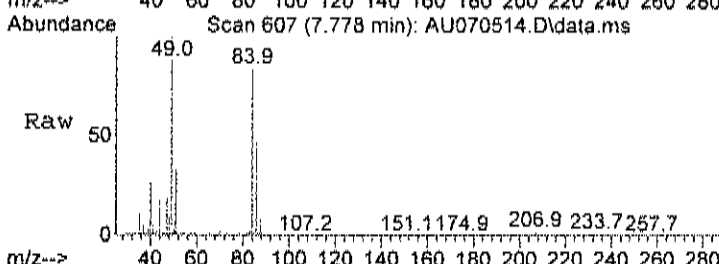
#17
Isopropyl alcohol
Concen: 6.62 ppb
RT: 6.780 min Scan# 431
Delta R.T. -0.006 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

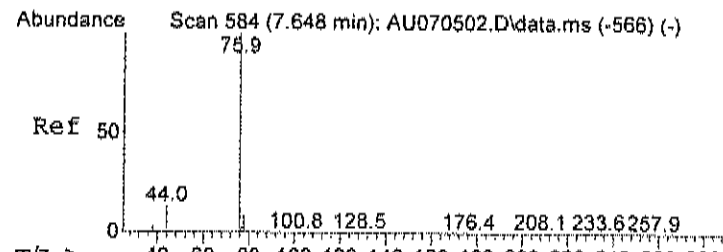
Tgt Ion:	45	Resp:	1184371
Ion Ratio	Lower	Upper	
45	100		
43	0.0	110.3	150.3#



#21
Methylene chloride
Concen: 0.32 ppb
RT: 7.778 min Scan# 607
Delta R.T. 0.006 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

Tgt Ion:	84	Resp:	47351
Ion Ratio	Lower	Upper	
84	100		
49	127.4	93.0	133.0
86	60.5	43.7	83.7





#23

Carbon disulfide

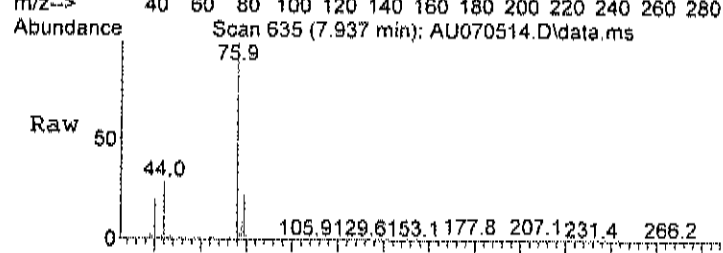
Concen: 0.19 ppb

RT: 7.937 min Scan# 635

Delta R.T. -0.011 min

Lab File: AU070514.D

Acq: 5 Jul 2023 4:17 pm

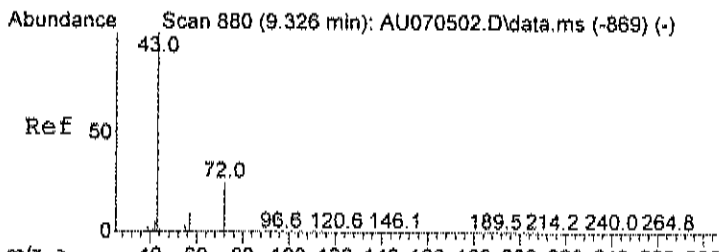
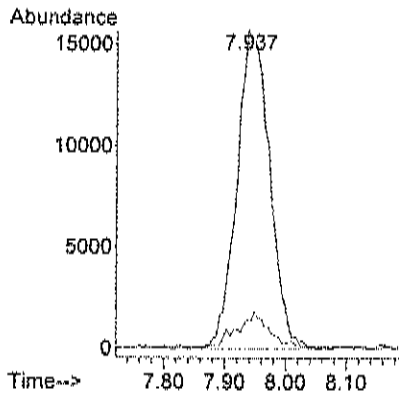
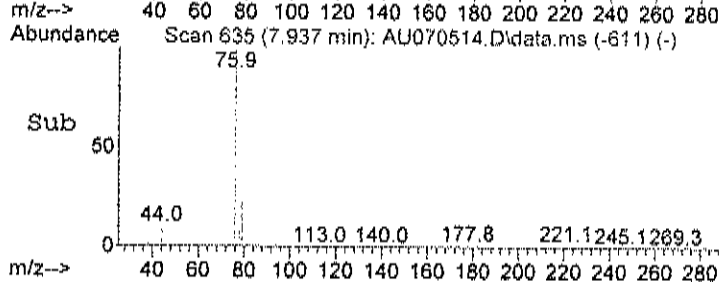


Tgt Ion: 76 Resp: 59255

Ion Ratio Lower Upper

76 100

78 11.0 0.0 29.3



#28

Methyl Ethyl Ketone

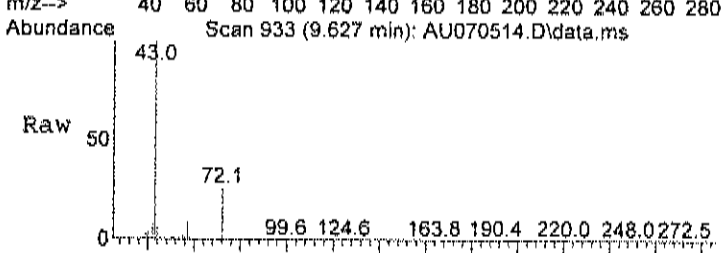
Concen: 1.18 ppb m

RT: 9.627 min Scan# 933

Delta R.T. -0.000 min

Lab File: AU070514.D

Acq: 5 Jul 2023 4:17 pm



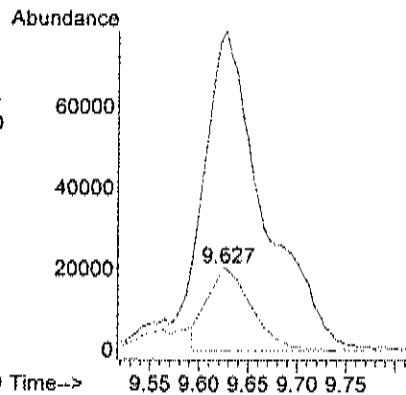
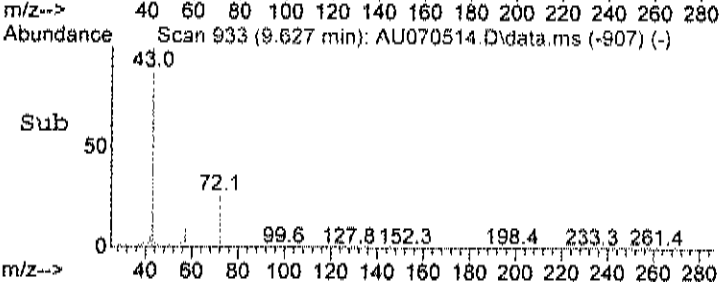
Tgt Ion: 72 Resp: 65029

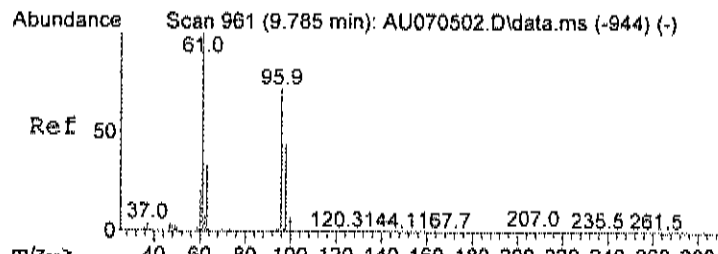
Ion Ratio Lower Upper

72 100

43 532.6 389.0 429.0#

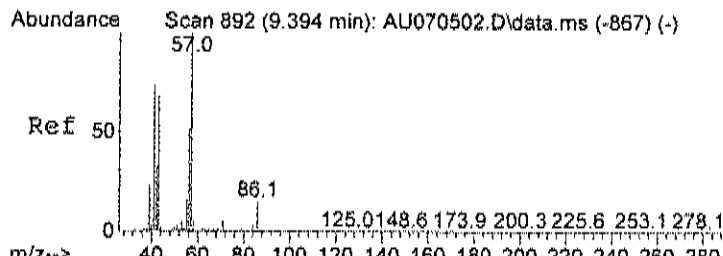
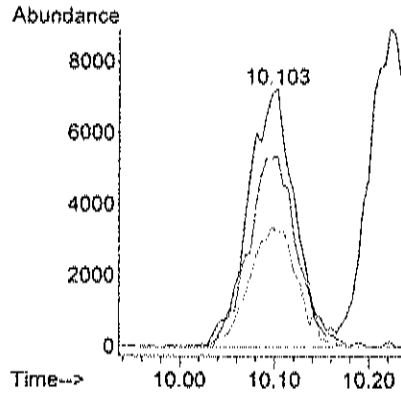
72 127.8 80.0 120.0#





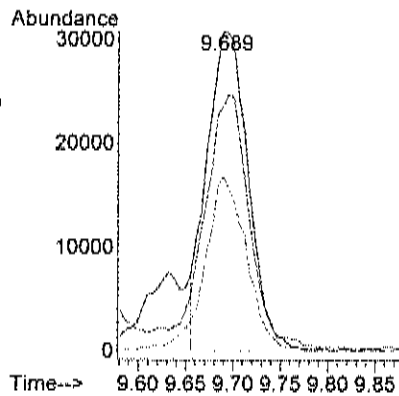
#29
cis-1,2-dichloroethene
Concen: 0.18 ppb
RT: 10.103 min Scan# 1017
Delta R.T. 0.006 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

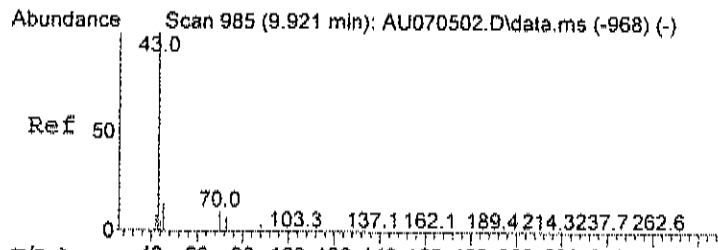
Tgt Ion:	61	Resp:	24896
Ion	Ratio	Lower	Upper
61	100		
96	75.9	64.4	104.4
98	48.0	34.6	74.6



#30
Hexane
Concen: 0.54 ppb
RT: 9.689 min Scan# 944
Delta R.T. -0.006 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

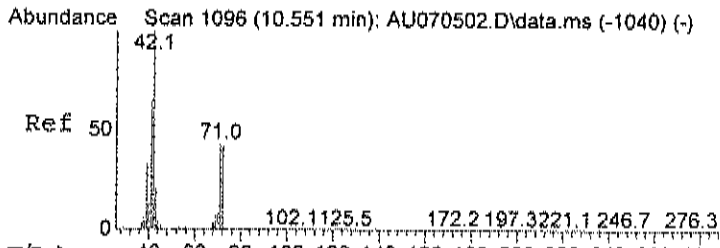
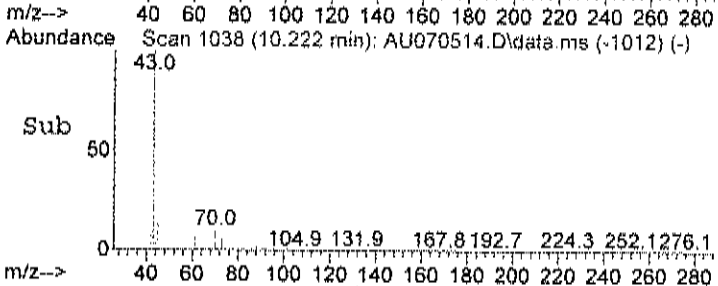
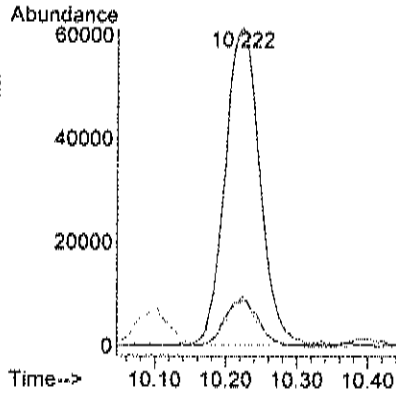
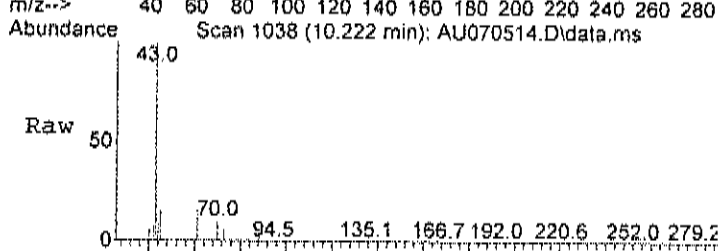
Tgt Ion:	57	Resp:	93216
Ion	Ratio	Lower	Upper
57	100		
41	88.9	37.3	77.3#
56	55.4	24.8	64.8





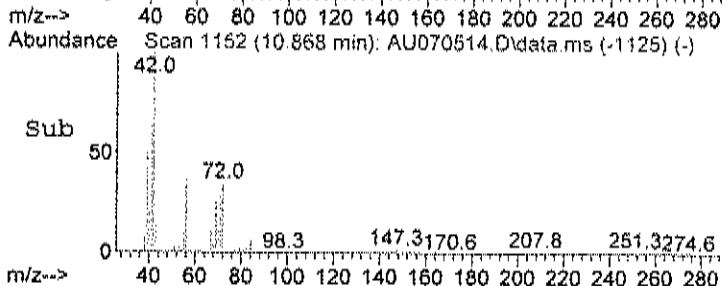
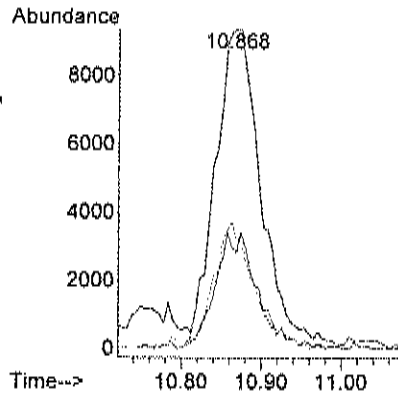
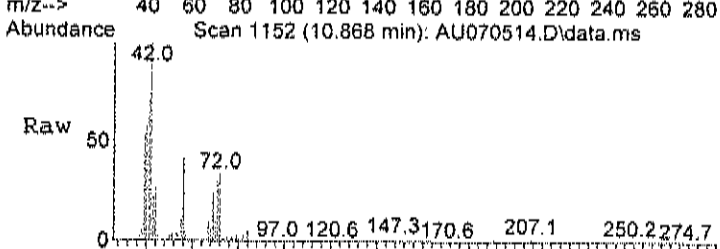
#31
Ethyl acetate
Concen: 0.86 ppb
RT: 10.222 min Scan# 1038
Delta R.T. ~0.000 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

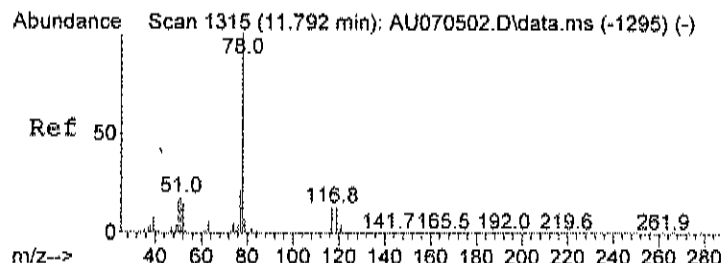
Tgt Ion:	43	Resp:	209912
Ion Ratio	Lower	Upper	
43	100		
45	15.2	0.0	35.3
61	13.7	0.0	37.0



#33
Tetrahydrofuran
Concen: 0.31 ppb
RT: 10.868 min Scan# 1152
Delta R.T. 0.006 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

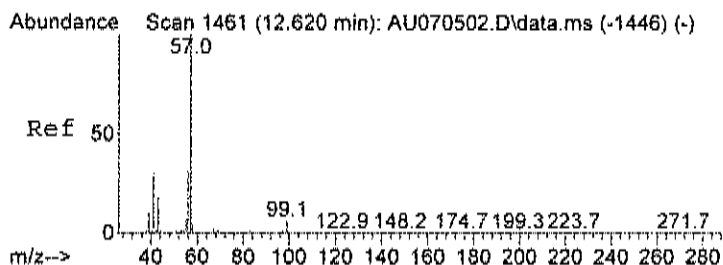
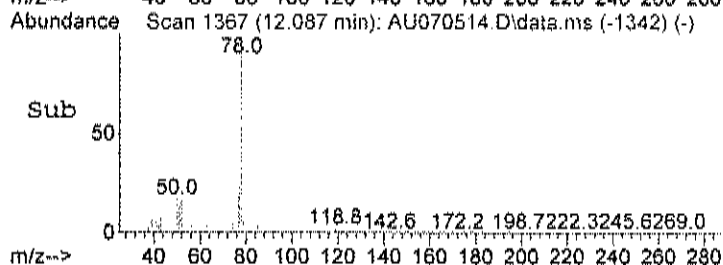
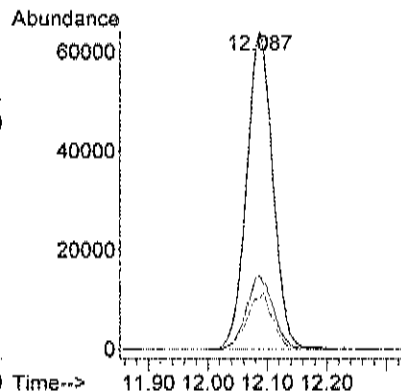
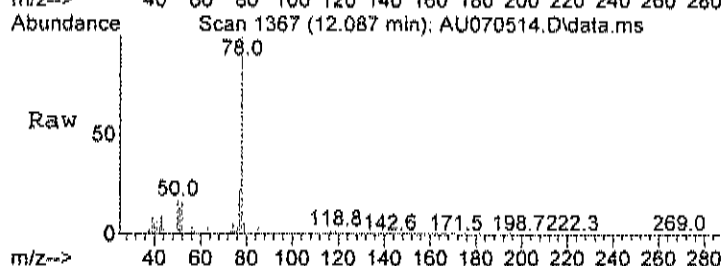
Tgt Ion:	42	Resp:	36036
Ion Ratio	Lower	Upper	
42	100		
71	34.6	27.1	67.1
72	35.5	30.8	70.8





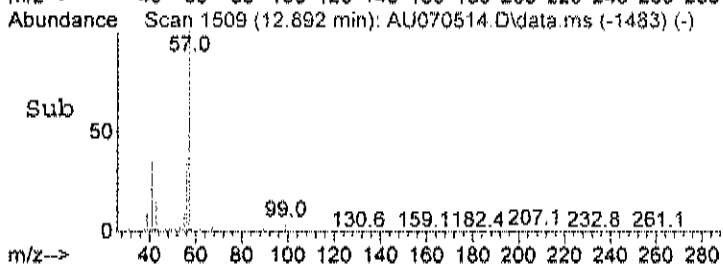
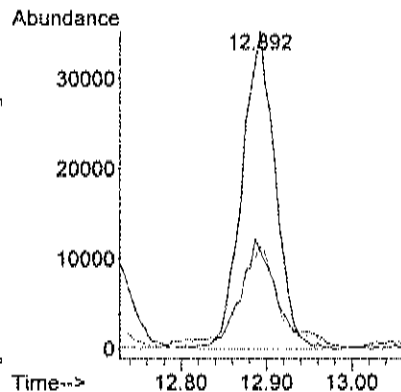
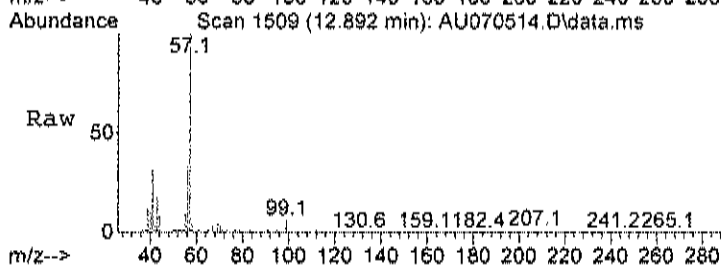
#39
Benzene
Concen: 0.83 ppb
RT: 12.087 min Scan# 1367
Delta R.T. -0.006 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

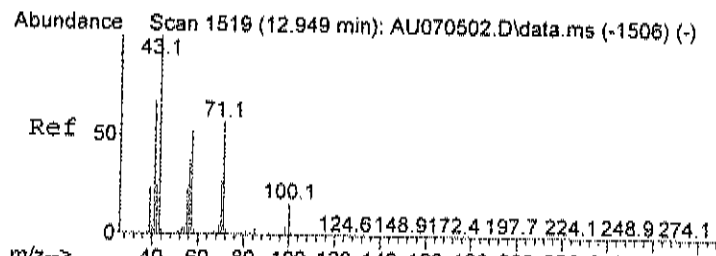
Tgt Ion:	78	Resp:	196530
Ion	Ratio	Lower	Upper
78	100		
77	24.3	3.8	43.8
51	18.5	0.0	35.4



#42
2,2,4-trimethylpentane
Concen: 0.23 ppb
RT: 12.892 min Scan# 1509
Delta R.T. -0.000 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

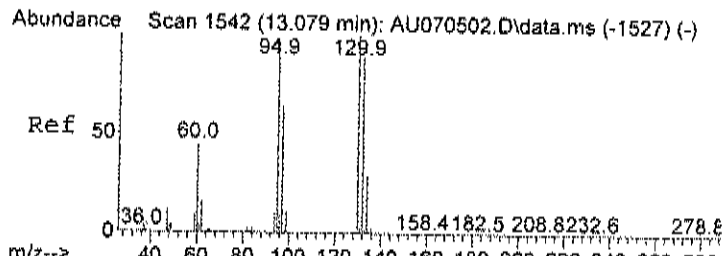
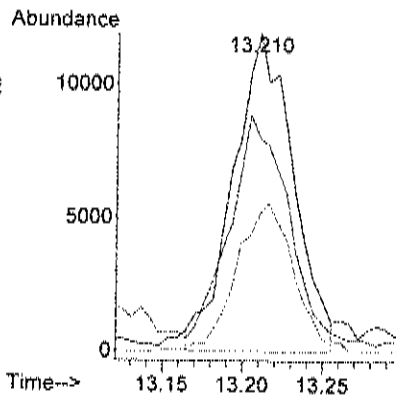
Tgt Ion:	57	Resp:	95775
Ion	Ratio	Lower	Upper
57	100		
41	40.7	1.7	41.7
56	38.1	10.7	50.7





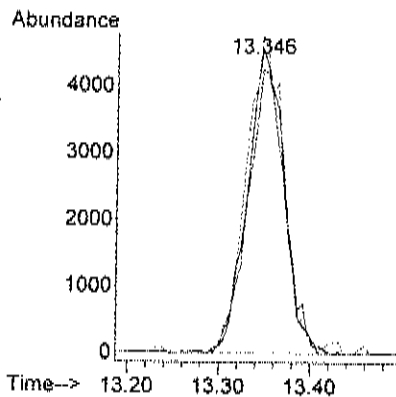
#43
Heptane
Concen: 0.20 ppb m
RT: 13.210 min Scan# 1565
Delta R.T. -0.006 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

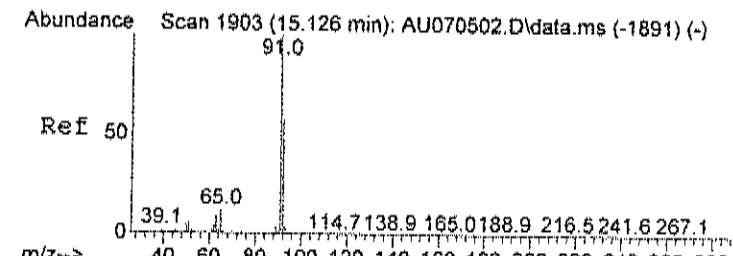
Tgt Ion	Ratio	Lower	Upper
43	100		
57	78.5	40.9	80.9
71	44.6	51.1	91.1#



#44
Trichloroethene
Concen: 0.12 ppb
RT: 13.346 min Scan# 1589
Delta R.T. -0.000 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

Tgt Ion	Ratio	Lower	Upper
130	100		
132	94.6	76.3	116.3
95	106.9	72.9	112.9





#51

Toluene

Concen: 1.98 ppb

RT: 15.376 min Scan# 1947

Delta R.T. -0.000 min

Lab File: AU070514.D

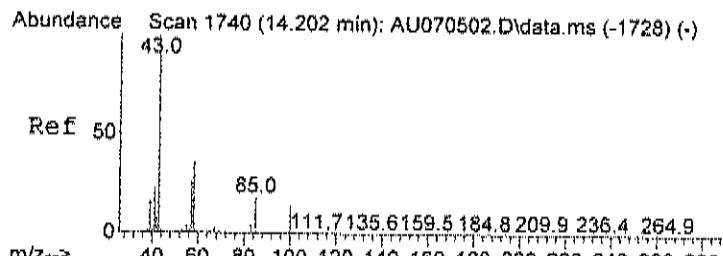
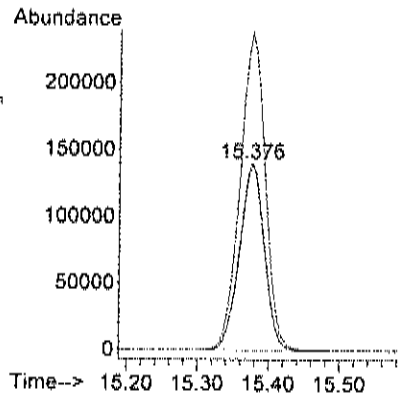
Acq: 5 Jul 2023 4:17 pm

Tgt Ion: 92 Resp: 340476

Ion Ratio Lower Upper

92 100

91 172.4 150.4 190.4



#52

Methyl Isobutyl Ketone

Concen: 0.12 ppb

RT: 14.446 min Scan# 1783

Delta R.T. -0.006 min

Lab File: AU070514.D

Acq: 5 Jul 2023 4:17 pm

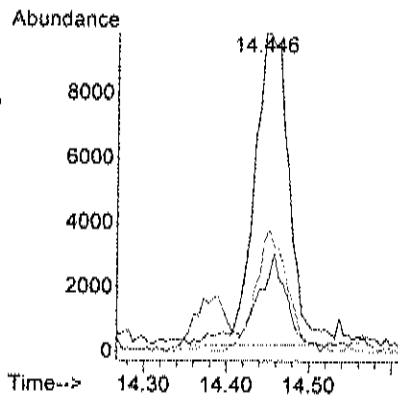
Tgt Ion: 43 Resp: 28696

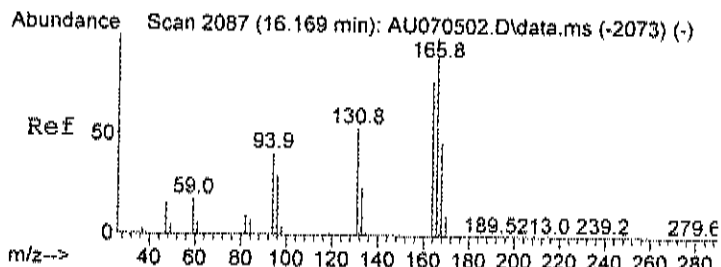
Ion Ratio Lower Upper

43 100

57 25.7 7.9 47.9

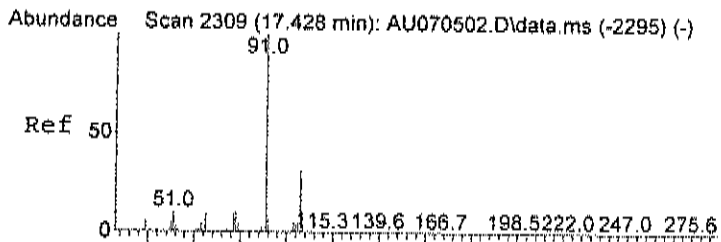
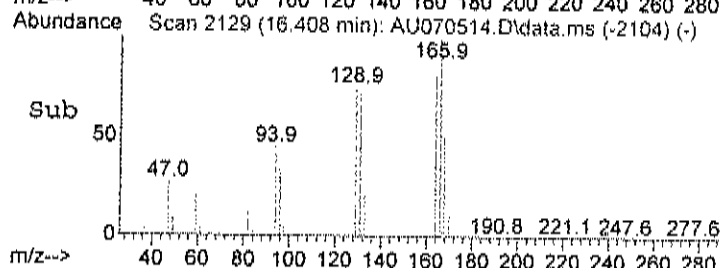
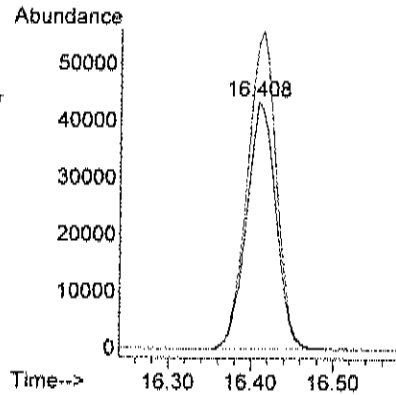
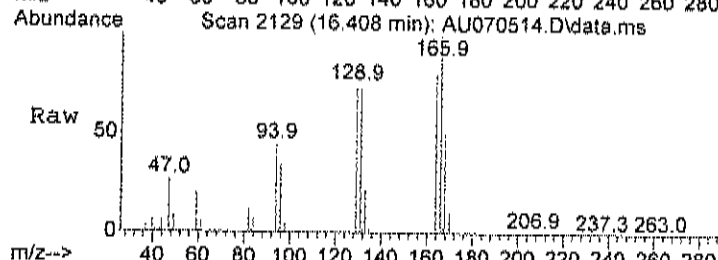
58 36.5 24.7 64.7





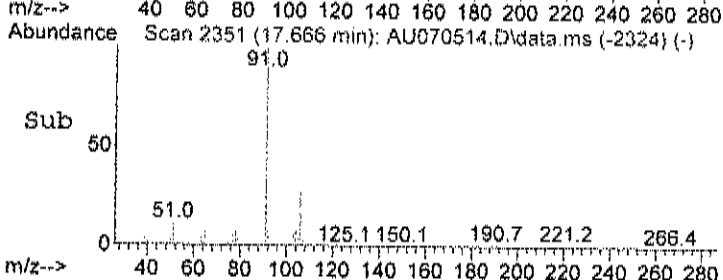
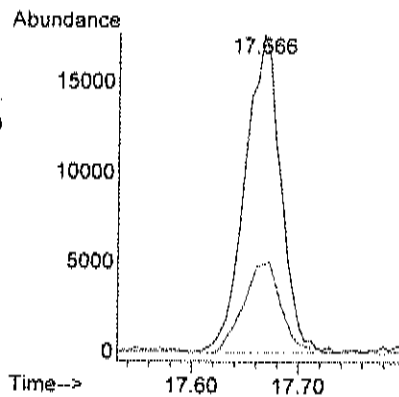
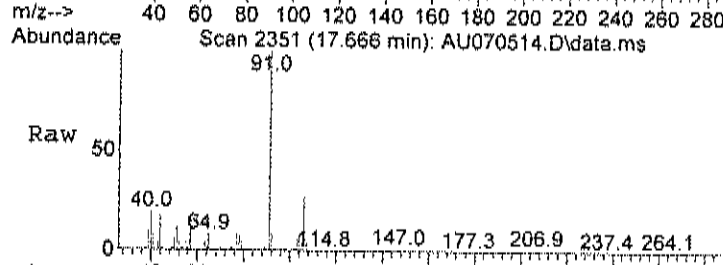
#56
Tetrachloroethylene
Concen: 1.10 ppb
RT: 16.408 min Scan# 2129
Delta R.T. -0.006 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

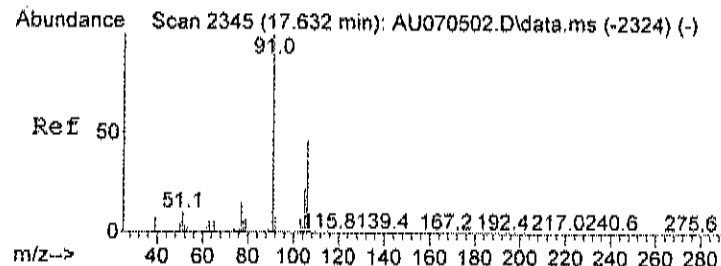
Tgt Ion: 164 Resp: 107581
Ion Ratio Lower Upper
164 100
166 127.3 107.9 147.9



#58
Ethylbenzene
Concen: 0.11 ppb
RT: 17.666 min Scan# 2351
Delta R.T. 0.006 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

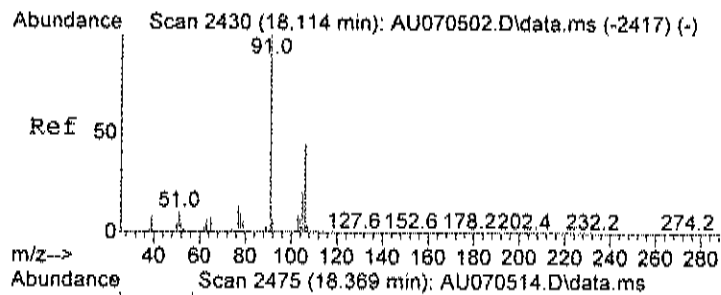
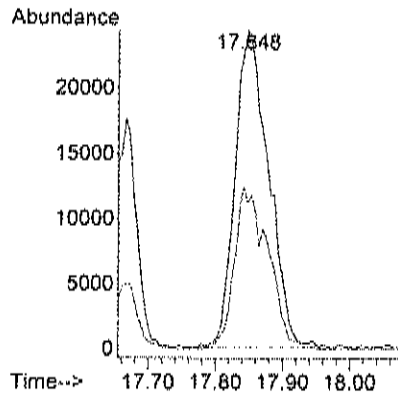
Tgt Ion: 91 Resp: 41348
Ion Ratio Lower Upper
91 100
106 30.0 13.1 53.1





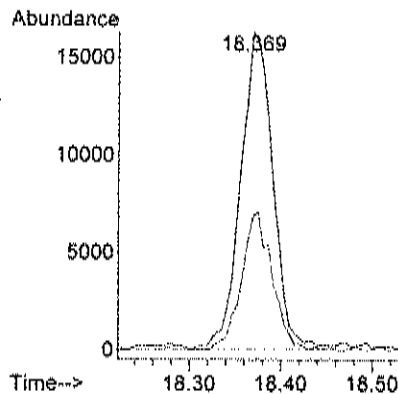
#59
m&p-xylene
Concen: 0.28 ppb
RT: 17.848 min Scan# 2383
Delta R.T. -0.017 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

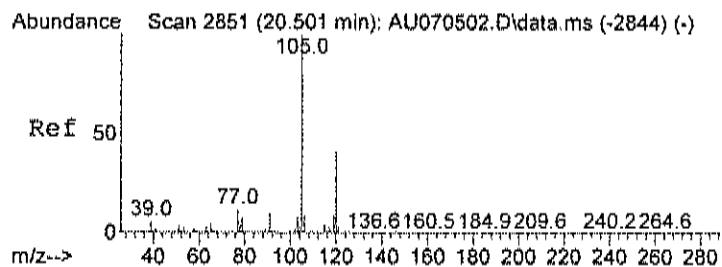
Tgt Ion:	91	Resp:	84620
Ion Ratio	Lower	Upper	
91	100		
106	50.9	32.1	72.1



#63
o-xylene
Concen: 0.13 ppb
RT: 18.369 min Scan# 2475
Delta R.T. 0.023 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

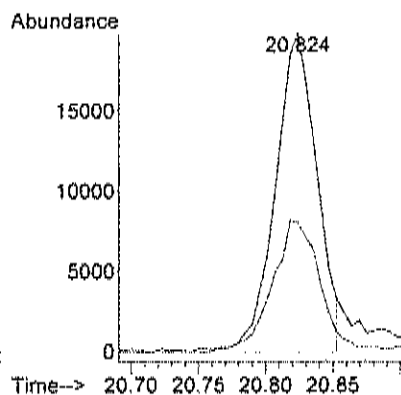
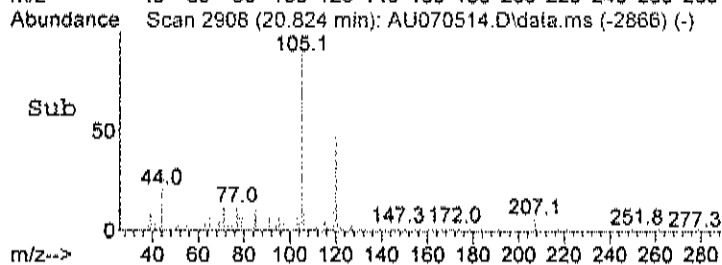
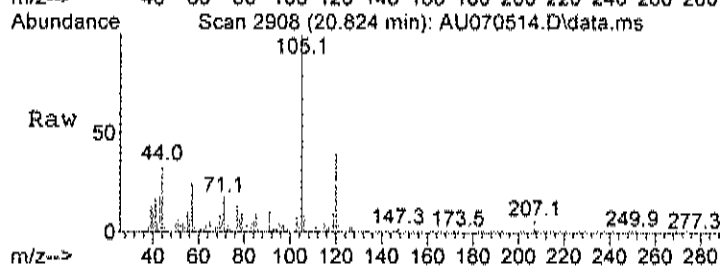
Tgt Ion:	91	Resp:	40173
Ion Ratio	Lower	Upper	
91	100		
106	41.3	29.0	69.0





#75
1,2,3-trimethylbenzene
Concen: 0.13 ppb
RT: 20.824 min Scan# 2908
Delta R.T. 0.091 min
Lab File: AU070514.D
Acq: 5 Jul 2023 4:17 pm

Tgt Ion:	105	Resp:	42640
Ion	Ratio	Lower	Upper
105	100		
120	45.6	31.9	53.1



Data Path : C:\msdchem\1\data\
Data File : AU070615.D
Acq On : 6 Jul 2023 4:06 pm
Operator : RJP
Sample : C2307002-018A 5X
Misc : A629_1UG
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 06 19:31:55 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

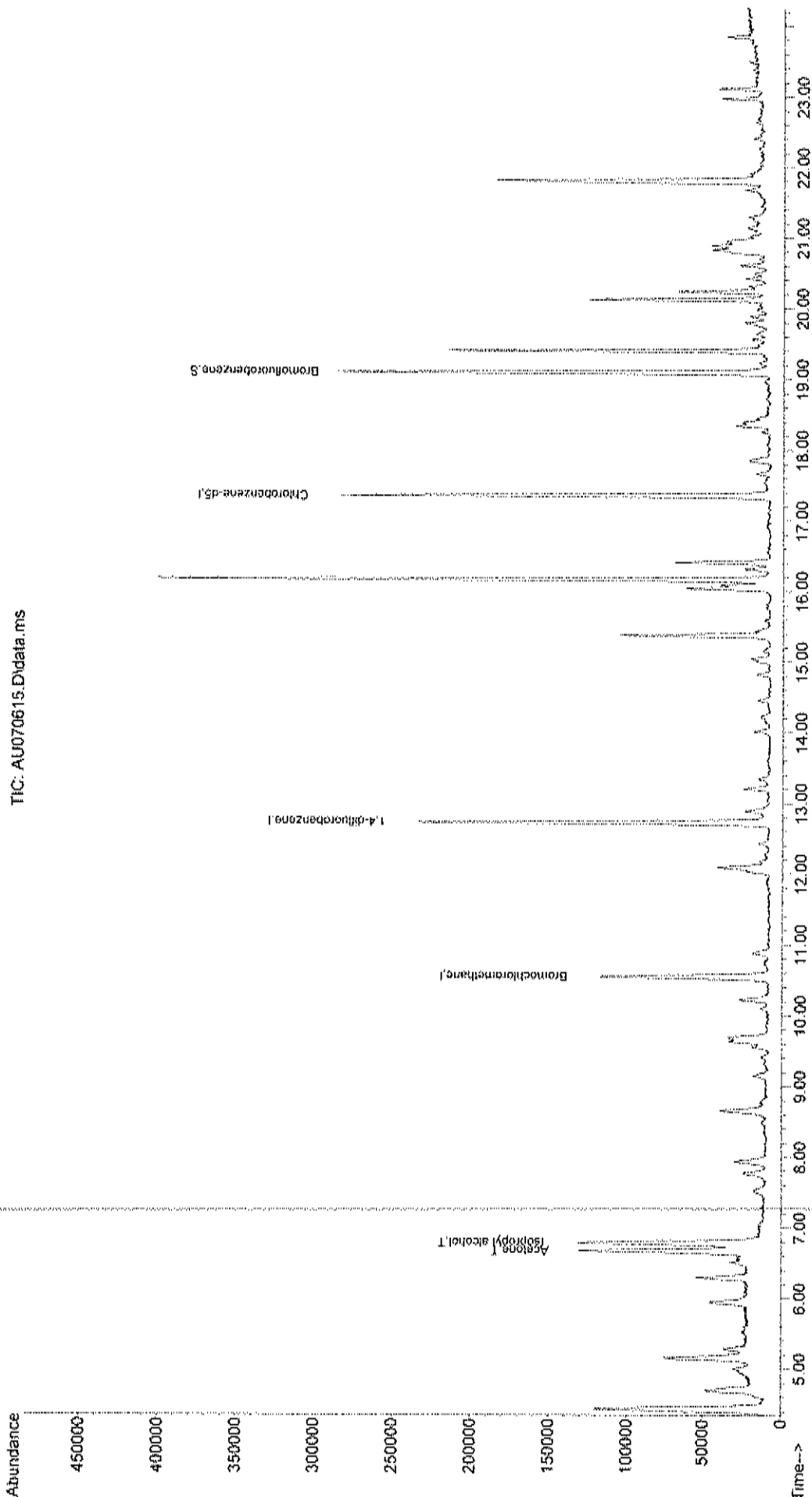
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

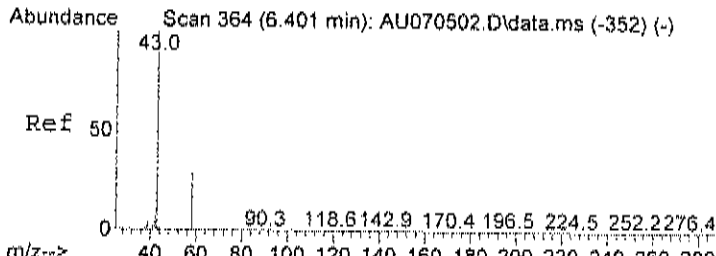
Internal Standards						
1) Bromochloromethane	10.545	128	57459	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.728	114	277058	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	222834	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.089	95	135507	0.81	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	81.00%
Target Compounds						
15) Acetone	6.667	58	84088m A	1.24	ppb	Qvalue
17) Isopropyl alcohol	6.780	45	214272	1.22	ppb	# 1

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

Quantitation Report (QT Reviewed)

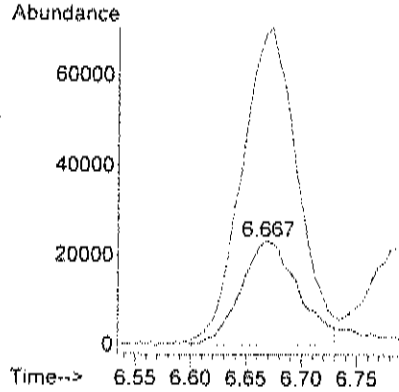
Data Path : C:\msdchem\1\data\
 Data File : AU070615.D
 Acq On : 6 Jul 2023 4:06 pm
 Operator : RJP
 Sample : C2307002-018A 5X
 Misc : A629_1UG
 ALS Vial : 11 Sample Multiplier: 1
 Quant Time: Jul 06 19:31:55 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VQA Standards for 5 point calibration
 Qlast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





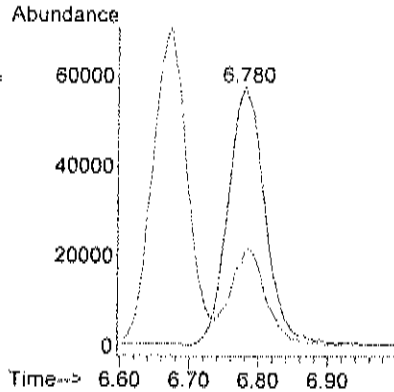
#15
Acetone
Concen: 1.24 ppb m
RT: 6.667 min Scan# 411
Delta R.T. -0.000 min
Lab File: AU070615.D
Acq: 6 Jul 2023 4:06 pm

Tgt Ion: 58 Resp: 84088
Ion Ratio Lower Upper
58 100
43 359.4 224.5 284.5#



#17
Isopropyl alcohol
Concen: 1.22 ppb
RT: 6.780 min Scan# 431
Delta R.T. -0.006 min
Lab File: AU070615.D
Acq: 6 Jul 2023 4:06 pm

Tgt Ion: 45 Resp: 214272
Ion Ratio Lower Upper
45 100
43 0.0 110.3 150.3#



Data Path : C:\msdchem\1\data\
Data File : AU070616.D
Acq On : 6 Jul 2023 4:47 pm
Operator : RJP
Sample : C2307002-019A 5X
Misc : A629_1UG
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 06 19:32:25 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

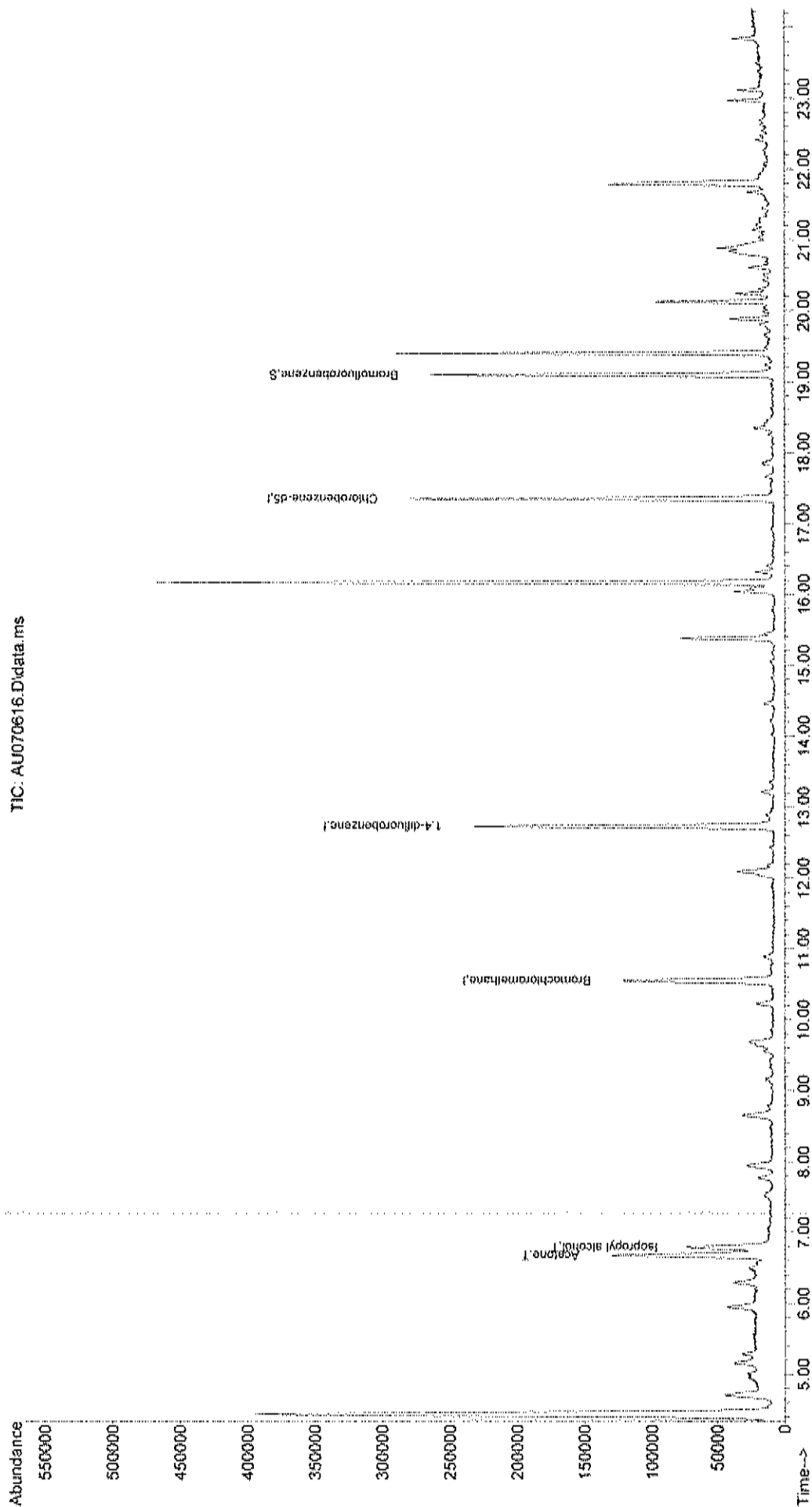
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

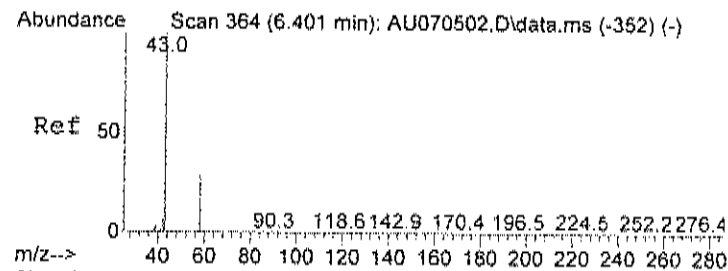
Internal Standards						
1) Bromochloromethane	10.551	128	57791	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.728	114	269401	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	221398	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	130813	0.78	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	78.00%
Target Compounds						Qvalue
15) Acetone	6.673	58	87201m	1.28	ppb	
17) Isopropyl alcohol	6.786	45	103645	0.59	ppb	# 1

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

Quantitation Report (QT Reviewed)

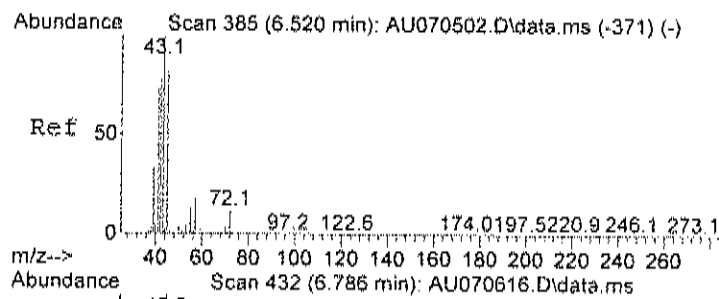
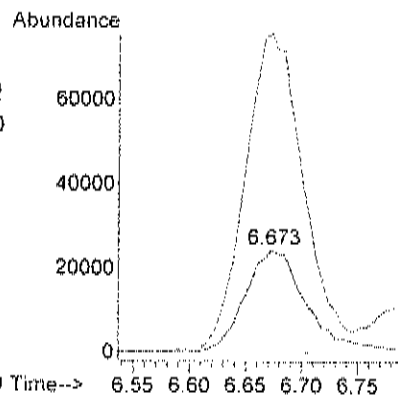
Data Path : C:\msdchem\1\data\
 Data File : AU070616.D
 Acq On : 6 Jul 2023 4:47 pm
 Operator : RJP
 Sample : C2307002-019A 5X
 Misc : A629_IUG
 ALS Vial : 12 Sample Multiplier: 1
 Quant Time: Jul 06 19:32:25 2023
 Quant Method : C:\msdchem\1\methods\A629_IUG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





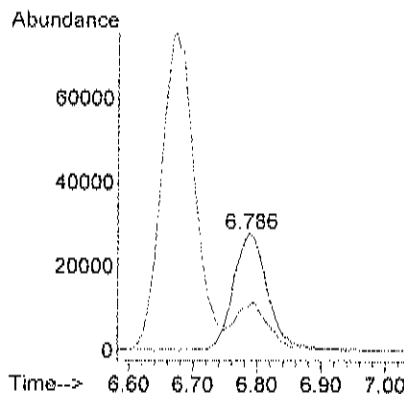
#15
Acetone
Concen: 1.28 ppb m
RT: 6.673 min Scan# 412
Delta R.T. 0.006 min
Lab File: AU070616.D
Acq: 6 Jul 2023 4:47 pm

Tgt Ion:	58	Resp:	87201
Ion Ratio	Lower	Upper	
58	100		
43	345.8	224.5	284.5#



#17
Isopropyl alcohol
Concen: 0.59 ppb
RT: 6.786 min Scan# 432
Delta R.T. -0.000 min
Lab File: AU070616.D
Acq: 6 Jul 2023 4:47 pm

Tgt Ion:	45	Resp:	103645
Ion Ratio	Lower	Upper	
45	100		
43	0.0	110.3	150.3#



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
Lab Order: C2307002
Project: IKEA Red Hook
Lab ID: C2307002-019A

Client Sample ID: AS-2
Tag Number: 459,124
Collection Date: 6/29/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-2			"Hg		7/3/2023
Lab Vacuum Out	-30			"Hg		7/3/2023
HELIUM LEAK TEST		GC		Analyst: RJP		
Helium	< 0.75	0.75		%	1	7/10/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 5:01:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Acetone	6.4	1.5		ppbV	5	7/6/2023 4:47:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Benzene	0.78	0.15		ppbV	1	7/5/2023 5:01:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Carbon disulfide	0.24	0.15		ppbV	1	7/5/2023 5:01:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Chloroform	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Chloromethane	0.58	0.15		ppbV	1	7/5/2023 5:01:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM

Qualifiers:

- Results reported are not blank corrected
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte, Quantitation estimated,
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- SC Sub-Contracted

Page 37 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-2

Lab Order: C2307002

Tag Number: 459,124

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-019A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Ethyl acetate	0.48	0.15		ppbV	1	7/5/2023 5:01:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Freon 11	0.26	0.15		ppbV	1	7/5/2023 5:01:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Freon 12	0.52	0.15		ppbV	1	7/5/2023 5:01:00 PM
Heptane	0.12	0.15	J	ppbV	1	7/5/2023 5:01:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Hexane	0.35	0.15		ppbV	1	7/5/2023 5:01:00 PM
Isopropyl alcohol	3.0	0.75		ppbV	5	7/6/2023 4:47:00 PM
m&p-Xylene	0.19	0.30	J	ppbV	1	7/5/2023 5:01:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 5:01:00 PM
Methyl Ethyl Ketone	0.52	0.30		ppbV	1	7/5/2023 5:01:00 PM
Methyl Isobutyl Ketone	0.13	0.30	J	ppbV	1	7/5/2023 5:01:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Methylene chloride	0.17	0.15		ppbV	1	7/5/2023 5:01:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Tetrahydrofuran	0.18	0.15		ppbV	1	7/5/2023 5:01:00 PM
Toluene	1.4	0.15		ppbV	1	7/5/2023 5:01:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 5:01:00 PM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	7/5/2023 5:01:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte, Quantitation estimated.
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Page 38 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-2

Lab Order: C2307002

Tag Number: 459,124

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-019A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 5:01:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 5:01:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 5:01:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 5:01:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:01:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 5:01:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 5:01:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 5:01:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:01:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 5:01:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 5:01:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 5:01:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 5:01:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:01:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 5:01:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 5:01:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 5:01:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 5:01:00 PM
Acetone	15	3.6		ug/m3	5	7/6/2023 4:47:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 5:01:00 PM
Benzene	2.5	0.48		ug/m3	1	7/5/2023 5:01:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 5:01:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 5:01:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 5:01:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 5:01:00 PM
Carbon disulfide	0.75	0.47		ug/m3	1	7/5/2023 5:01:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 5:01:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 5:01:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 5:01:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	7/5/2023 5:01:00 PM
Chloromethane	1.2	0.31		ug/m3	1	7/5/2023 5:01:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:01:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 5:01:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 5:01:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 5:01:00 PM
Ethyl acetate	1.7	0.54		ug/m3	1	7/5/2023 5:01:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 5:01:00 PM
Freon 11	1.5	0.84		ug/m3	1	7/5/2023 5:01:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 5:01:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 5:01:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 37 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: AS-2

Lab Order: C2307002

Tag Number: 459,124

Project: IKEA Rcd Hook

Collection Date: 6/29/2023

Lab ID: C2307002-019A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	2.6	0.74		ug/m3	1	7/5/2023 5:01:00 PM
Heptane	0.49	0.61	J	ug/m3	1	7/5/2023 5:01:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 5:01:00 PM
Hexane	1.2	0.53		ug/m3	1	7/5/2023 5:01:00 PM
Isopropyl alcohol	7.2	1.8		ug/m3	6	7/6/2023 4:47:00 PM
m&p-Xylene	0.82	1.3	J	ug/m3	1	7/5/2023 5:01:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 5:01:00 PM
Methyl Ethyl Ketone	1.5	0.88		ug/m3	1	7/5/2023 5:01:00 PM
Methyl Isobutyl Ketone	0.53	1.2	J	ug/m3	1	7/5/2023 5:01:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 5:01:00 PM
Methylene chloride	0.59	0.52		ug/m3	1	7/5/2023 5:01:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 5:01:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 5:01:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 5:01:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	7/5/2023 5:01:00 PM
Tetrahydrofuran	0.53	0.44		ug/m3	1	7/5/2023 5:01:00 PM
Toluene	5.5	0.57		ug/m3	1	7/5/2023 5:01:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 5:01:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 5:01:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 5:01:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 5:01:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 5:01:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 5:01:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 38 of 40

Data Path : C:\msdchem\1\data\
 Data File : AU070515.D
 Acq On : 5 Jul 2023 5:01 pm
 Operator : RJP
 Sample : C2307002-019A
 Misc : A629_1UG
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 06 07:55:19 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

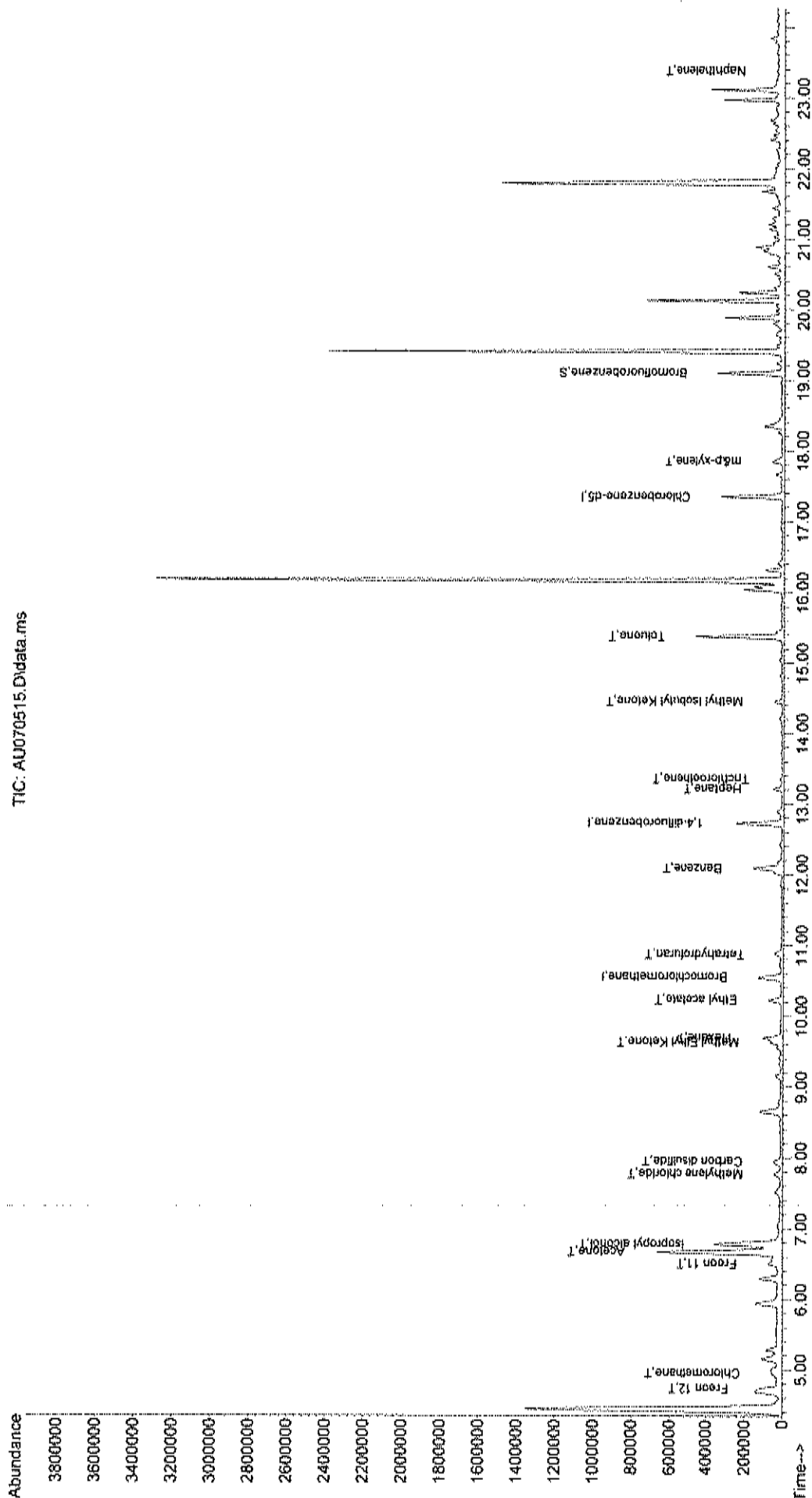
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

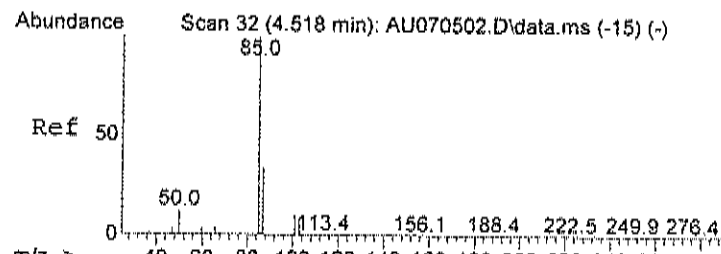
Internal Standards						
1) Bromochloromethane	10.551	128	62064	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.728	114	287284	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	255365	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	166857	0.87	ppb	0.05
Spiked Amount	1.000	Range 70 - 130	Recovery	=	87.00%	
Target Compounds						
					Qvalue	
3) Freon 12	4.734	85	134240	0.52	ppb	99
4) Chloromethane	4.949	50	47514	0.58	ppb	83
14) Freon 11	6.503	101	67545	0.26	ppb	97
15) Acetone	6.667	58	468188m	6.39	ppb	
17) Isopropyl alcohol	6.775	45	615220	3.24	ppb	# 1
21) Methylene chloride	7.773	84	27337	0.17	ppb	90
23) Carbon disulfide	7.949	76	77422	0.24	ppb	93
28) Methyl Ethyl Ketone	9.632	72	30299m	0.52	ppb	
30) Hexane	9.695	57	64270m	0.35	ppb	
31) Ethyl acetate	10.228	43	124047	0.48	ppb	97
33) Tetrahydrofuran	10.868	42	22686	0.18	ppb	80
39) Benzene	12.087	78	189383	0.78	ppb	96
43) Heptane	13.210	43	18863m	0.12	ppb	
44) Trichloroethene	13.352	130	4455	0.04	ppb	99
51) Toluene	15.376	92	260370	1.45	ppb	96
52) Methyl Isobutyl Ketone	14.457	43	32369	0.13	ppb	90
59) m&p-xylene	17.848	91	58730	0.19	ppb	95
78) Naphthalene	23.376	128	4995	0.03	ppb	80

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

Data Path : C:\msdchem\1\data\
 Data File : AU070515.D
 Acq On : 5 Jul 2023 5:01 pm
 Operator : RJP
 Sample : C2307002-019A
 Misc : A629.1UG
 ALS Vial : 3 Sample Multiplier: 1

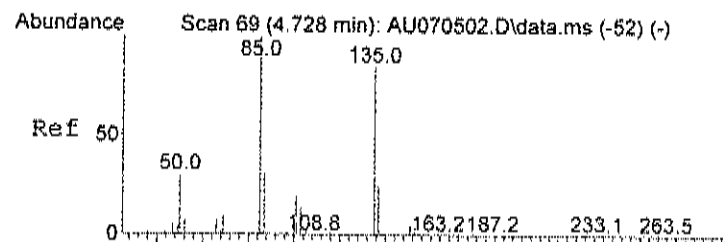
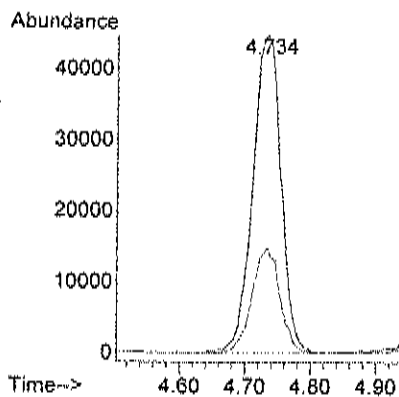
Quant Time: Jul 06 07:55:19 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





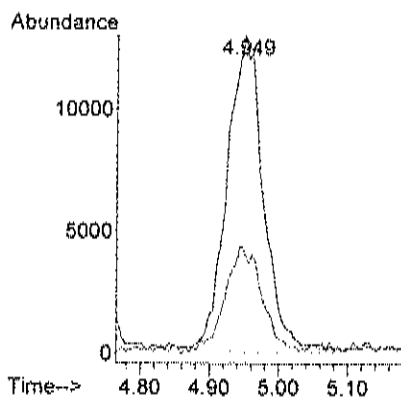
#3
Freon 12
Concen: 0.52 ppb
RT: 4.734 min Scan# 70
Delta R.T. 0.000 min
Lab File: AU070515.D
Acq: 5 Jul 2023 5:01 pm

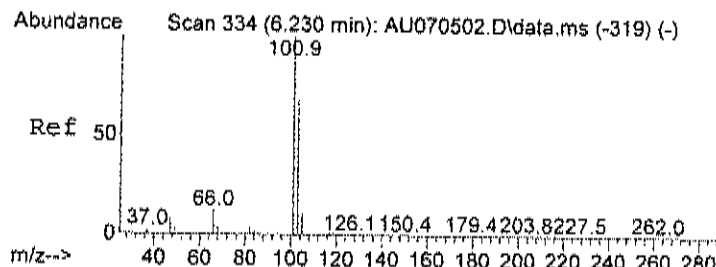
Tgt Ion: 85 Resp: 134240
Ion Ratio Lower Upper
85 100
87 32.7 13.4 53.4



#4
Chloromethane
Concen: 0.58 ppb
RT: 4.949 min Scan# 108
Delta R.T. -0.006 min
Lab File: AU070515.D
Acq: 5 Jul 2023 5:01 pm

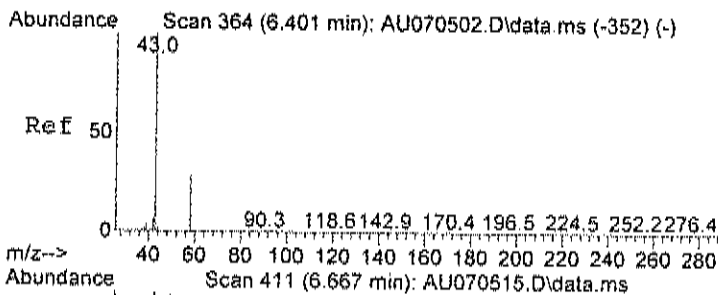
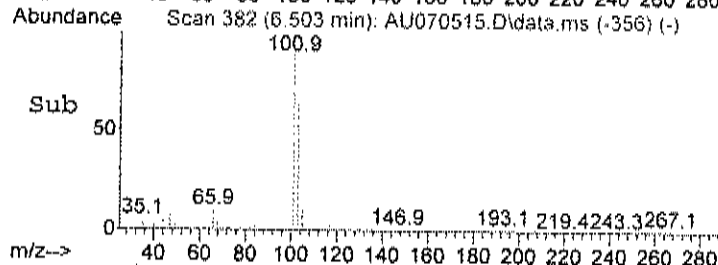
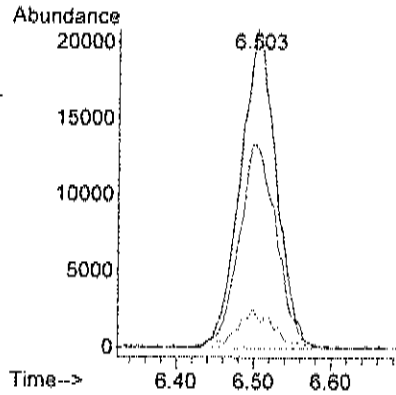
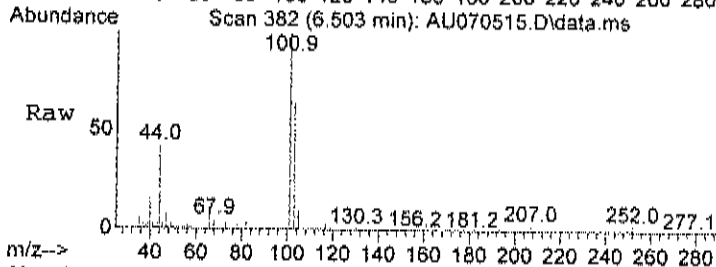
Tgt Ion: 50 Resp: 47514
Ion Ratio Lower Upper
50 100
52 35.5 6.9 46.9





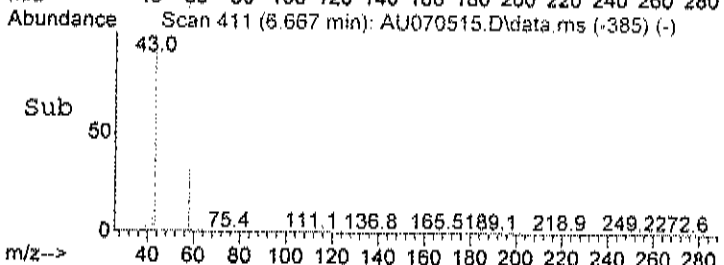
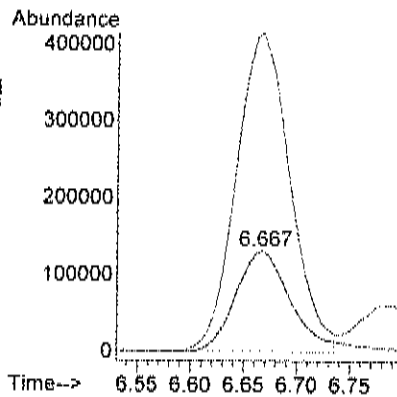
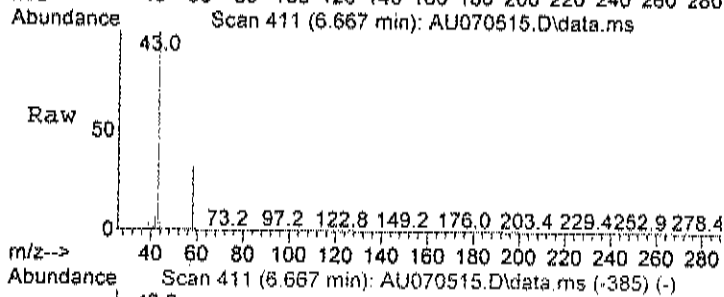
#14
Freon 11
Concen: 0.26 ppb
RT: 6.503 min Scan# 382
Delta R.T. 0.000 min
Lab File: AU070515.D
Acq: 5 Jul 2023 5:01 pm

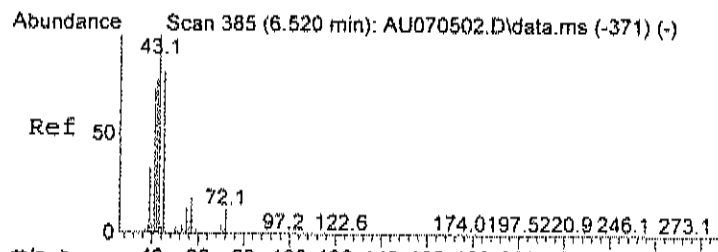
Tgt Ion	Ratio	Lower	Upper
101	100		
103	66.7	44.0	84.0
105	12.6	0.0	31.4



#15
Acetone
Concen: 6.39 ppb m
RT: 6.667 min Scan# 411
Delta R.T. 0.000 min
Lab File: AU070515.D
Acq: 5 Jul 2023 5:01 pm

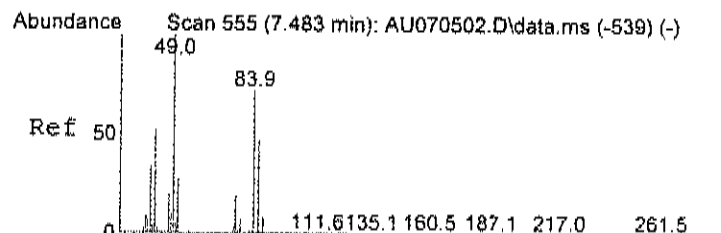
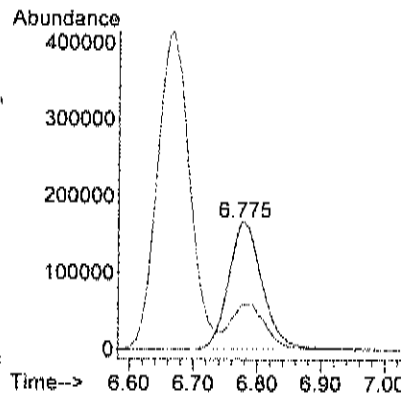
Tgt Ion	Ratio	Lower	Upper
58	100		
43	350.9	224.5	284.5#





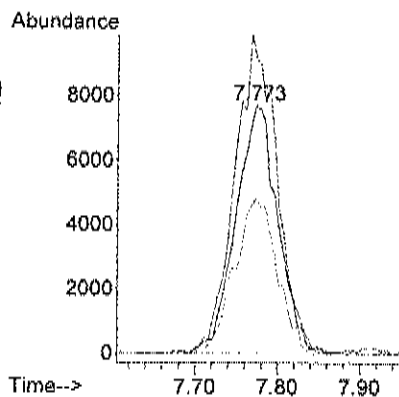
#17
Isopropyl alcohol
Concen: 3.24 ppb
RT: 6.775 min Scan# 430
Delta R.T. -0.011 min
Lab File: AU070515.D
Acq: 5 Jul 2023 5:01 pm

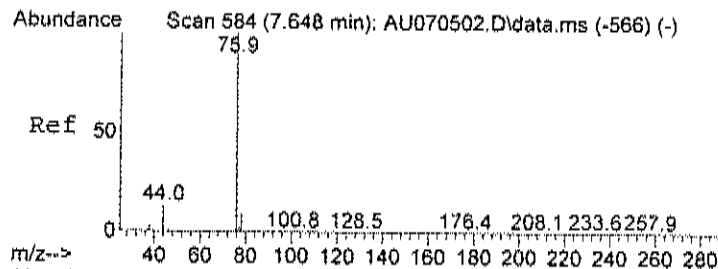
Tgt Ion: 45 Resp: 615220
Ion Ratio Lower Upper
45 100
43 0.0 110.3 150.3#



#21
Methylene chloride
Concen: 0.17 ppb
RT: 7.773 min Scan# 606
Delta R.T. 0.000 min
Lab File: AU070515.D
Acq: 5 Jul 2023 5:01 pm

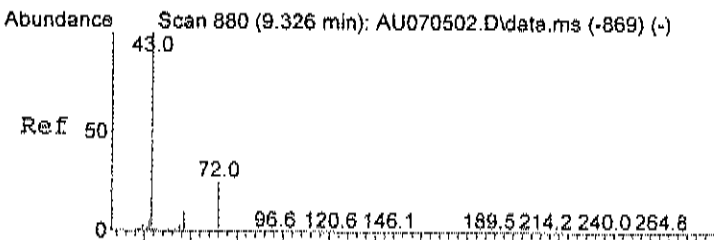
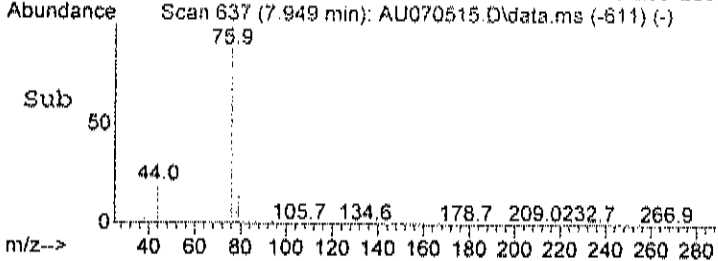
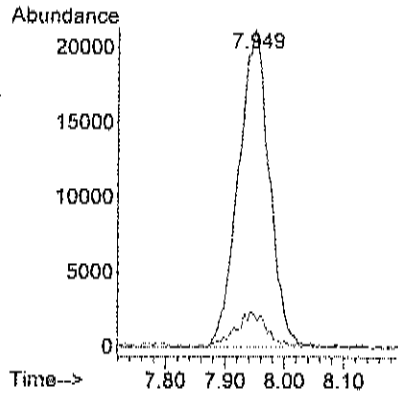
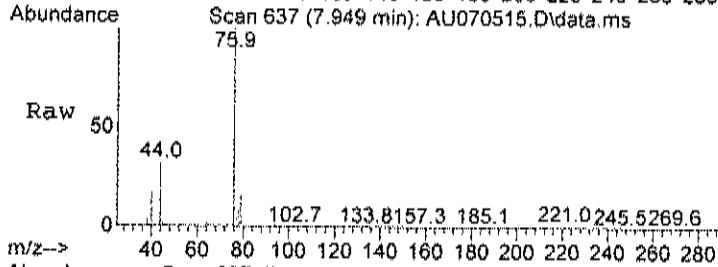
Tgt Ion: 84 Resp: 27337
Ion Ratio Lower Upper
84 100
49 129.3 93.0 133.0
86 63.9 43.7 83.7





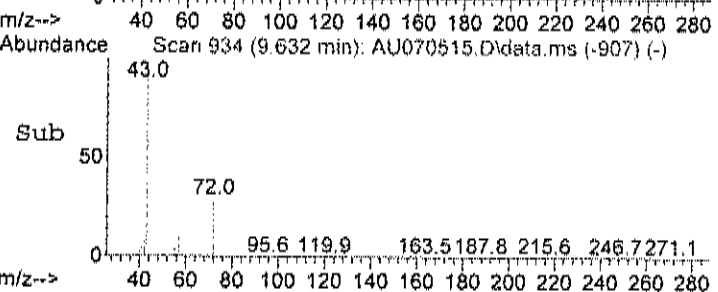
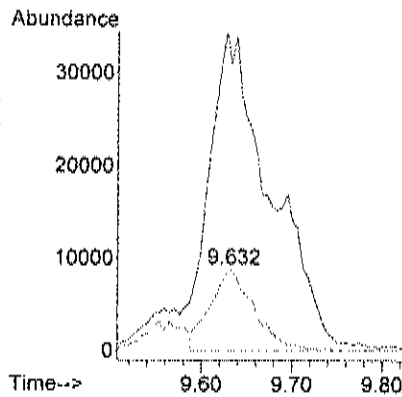
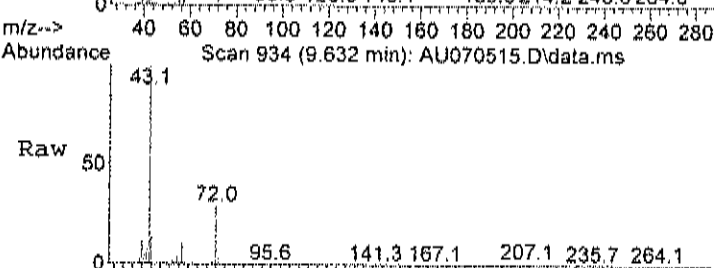
#23
Carbon disulfide
Concen: 0.24 ppb
RT: 7.949 min Scan# 637
Delta R.T. 0.000 min
Lab File: AU070515.D
Acq: 5 Jul 2023 5:01 pm

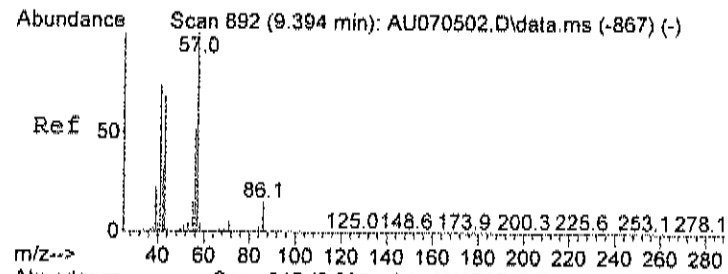
Tgt Ion	Ratio	Lower	Upper
76	100		
78	11.7	0.0	29.3



#28
Methyl Ethyl Ketone
Concen: 0.52 ppb m
RT: 9.632 min Scan# 934
Delta R.T. 0.006 min
Lab File: AU070515.D
Acq: 5 Jul 2023 5:01 pm

Tgt Ion	Ratio	Lower	Upper
72	100		
43	0.0	389.0	429.0#
72	129.5	80.0	120.0#





#30

Hexane

Concen: 0.35 ppb m

RT: 9.695 min Scan# 945

Delta R.T. 0.000 min

Lab File: AU070515.D

Acq: 5 Jul 2023 5:01 pm

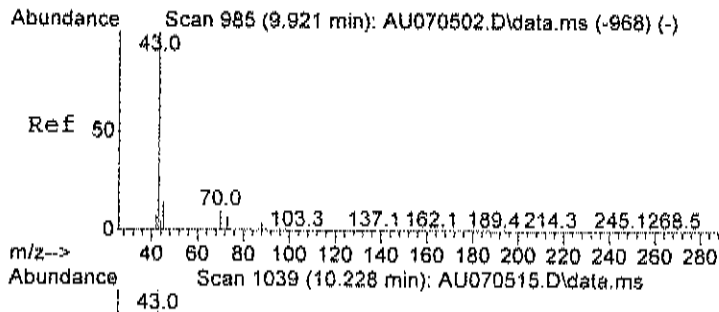
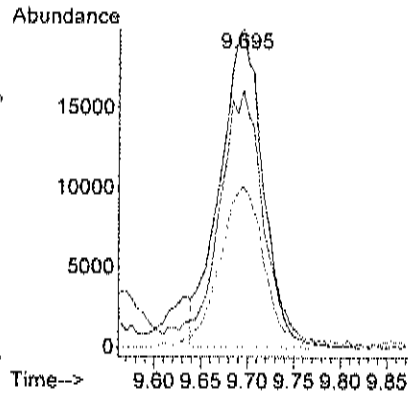
Tgt Ion: 57 Resp: 64270

Ion Ratio Lower Upper

57 100

41 84.5 37.3 77.3#

56 52.2 24.8 64.8



#31

Ethyl acetate

Concen: 0.48 ppb

RT: 10.228 min Scan# 1039

Delta R.T. 0.006 min

Lab File: AU070515.D

Acq: 5 Jul 2023 5:01 pm

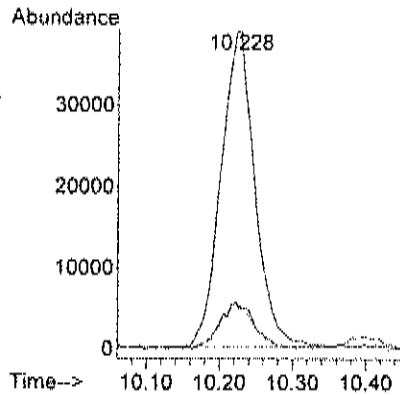
Tgt Ion: 43 Resp: 124047

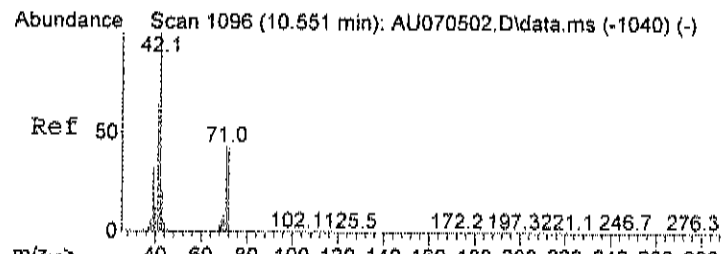
Ion Ratio Lower Upper

43 100

45 15.4 0.0 35.3

61 14.8 0.0 37.0





#33

Tetrahydrofuran

Concen: 0.18 ppb

RT: 10.868 min Scan# 1152

Delta R.T. 0.006 min

Lab File: AU070515.D

Acq: 5 Jul 2023 5:01 pm

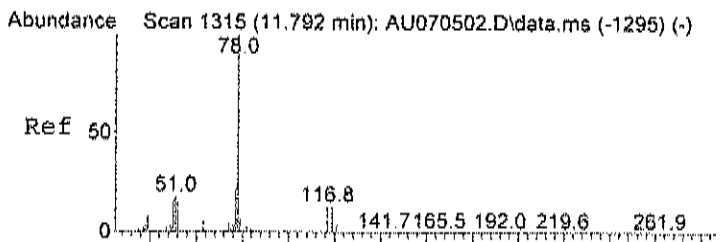
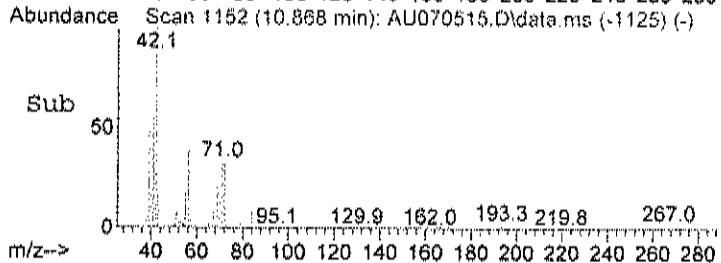
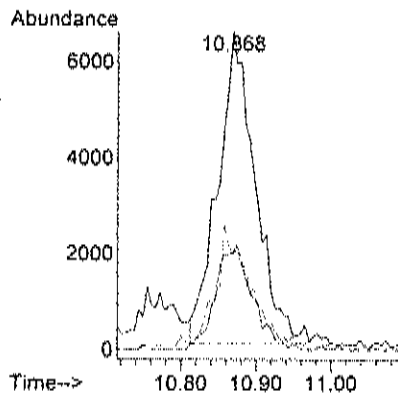
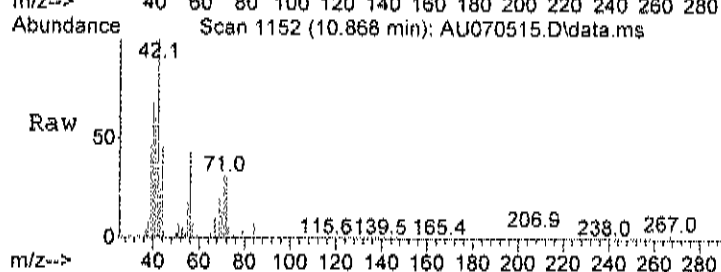
Tgt Ion: 42 Resp: 22686

Ion Ratio Lower Upper

42 100

71 33.5 27.1 67.1

72 37.0 30.8 70.8



#39

Benzene

Concen: 0.78 ppb

RT: 12.087 min Scan# 1367

Delta R.T. -0.006 min

Lab File: AU070515.D

Acq: 5 Jul 2023 5:01 pm

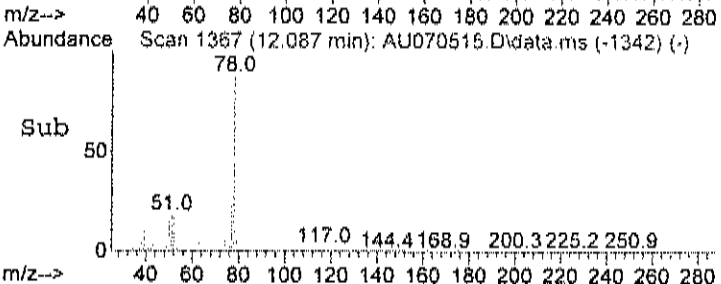
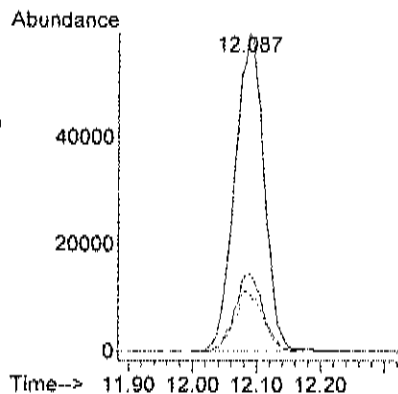
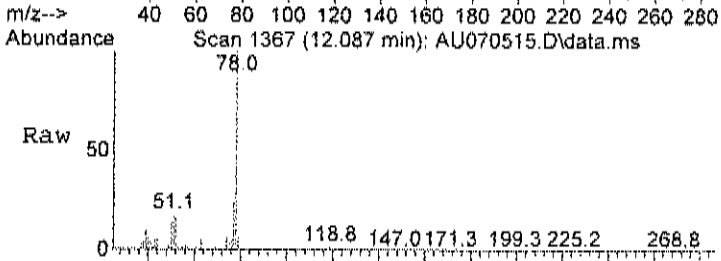
Tgt Ion: 78 Resp: 189383

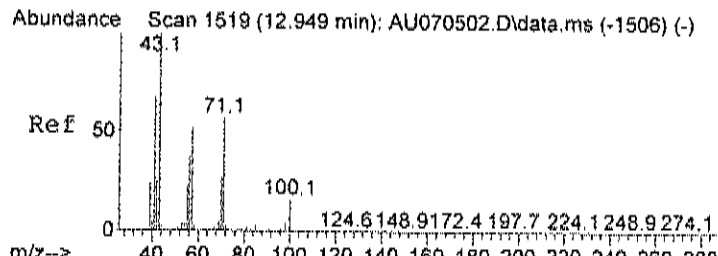
Ion Ratio Lower Upper

78 100

77 24.1 3.8 43.8

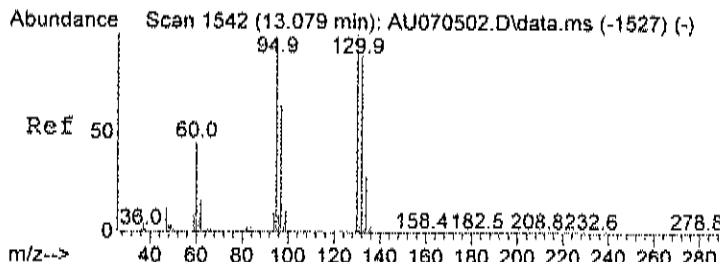
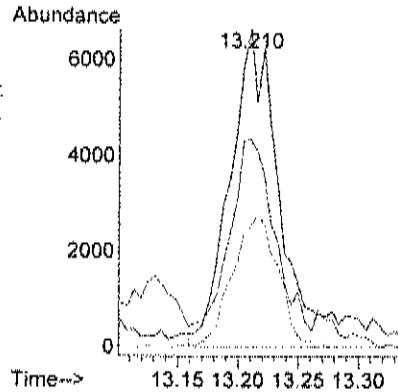
51 18.9 0.0 35.4





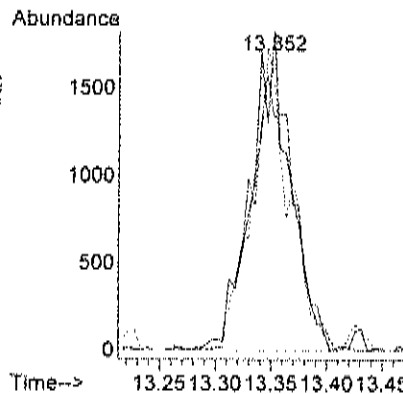
#43
Heptane
Concen: 0.12 ppb m
RT: 13.210 min Scan# 1565
Delta R.T. -0.006 min
Lab File: AU070515.D
Acq: 5 Jul 2023 5:01 pm

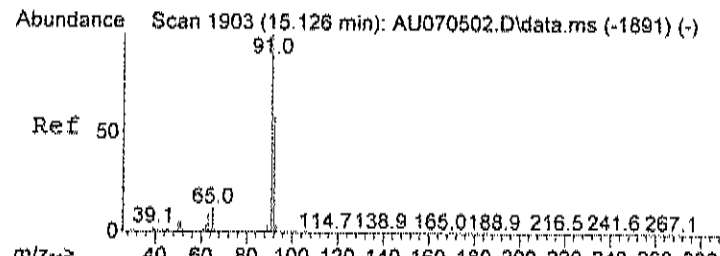
Tgt Ion	Ratio	Lower	Upper
43	100		
57	67.5	40.9	80.9
71	38.4	51.1	91.1#



#44
Trichloroethene
Concen: 0.04 ppb
RT: 13.352 min Scan# 1590
Delta R.T. 0.006 min
Lab File: AU070515.D
Acq: 5 Jul 2023 5:01 pm

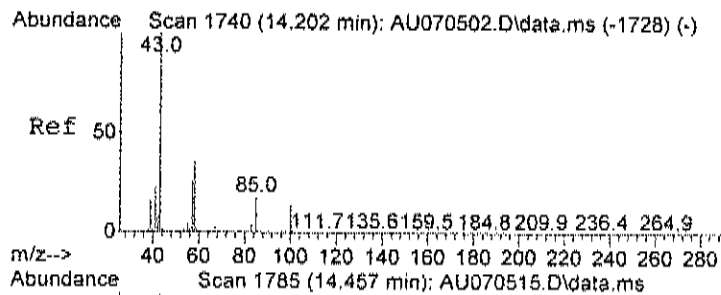
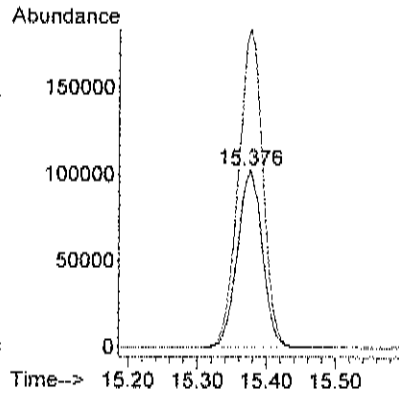
Tgt Ion	Ratio	Lower	Upper
130	100		
132	97.4	76.3	116.3
95	91.7	72.9	112.9





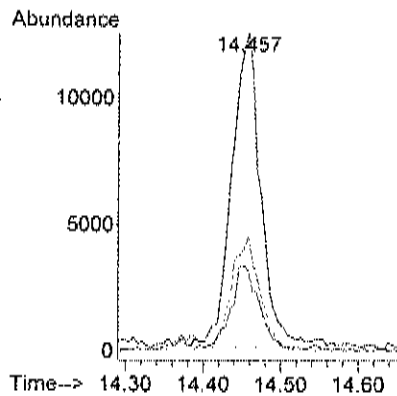
#51
Toluene
Concen: 1.45 ppb
RT: 15.376 min Scan# 1947
Delta R.T. 0.000 min
Lab File: AU070515.D
Acq: 5 Jul 2023 5:01 pm

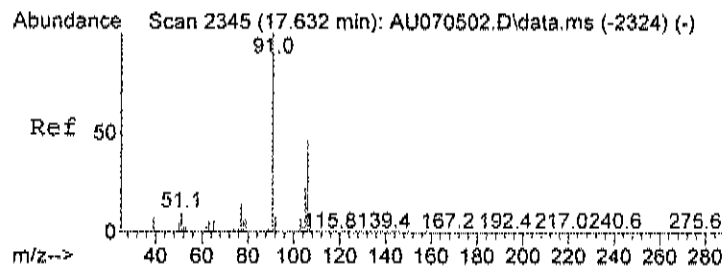
Tgt Ion:	92	Resp:	260370
Ion Ratio	Lower	Upper	
92	100		
91	176.1	150.4	190.4



#52
Methyl Isobutyl Ketone
Concen: 0.13 ppb
RT: 14.457 min Scan# 1785
Delta R.T. 0.006 min
Lab File: AU070515.D
Acq: 5 Jul 2023 5:01 pm

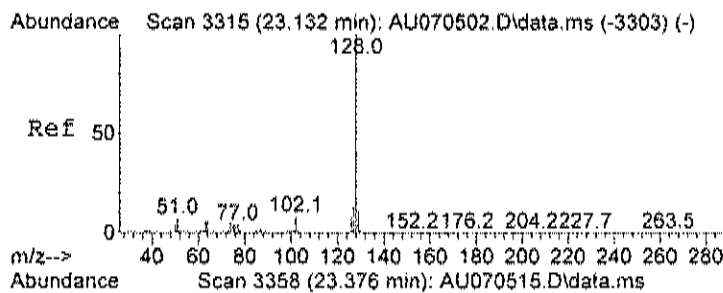
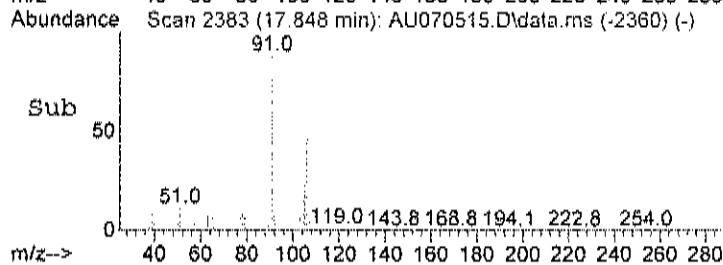
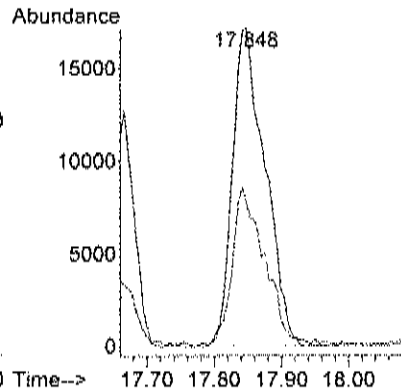
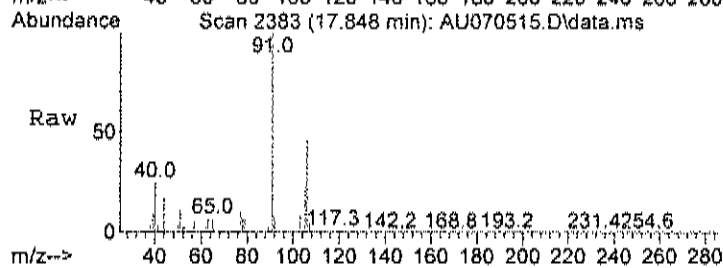
Tgt Ion:	43	Resp:	32369
Ion Ratio	Lower	Upper	
43	100		
57	26.3	7.9	47.9
58	35.4	24.7	64.7





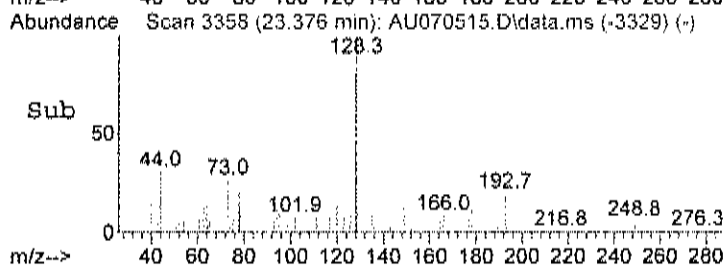
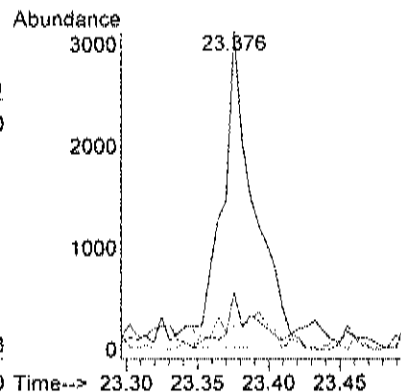
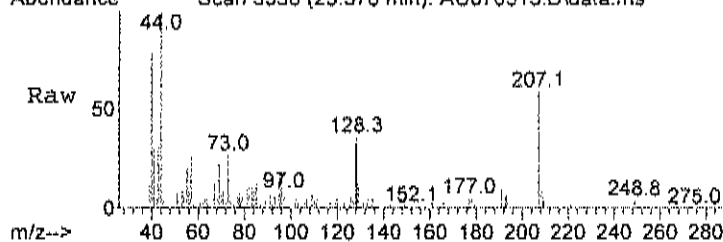
#59
m&p-xylene
Concen: 0.19 ppb
RT: 17.848 min Scan# 2383
Delta R.T. -0.017 min
Lab File: AU070515.D
Acq: 5 Jul 2023 5:01 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
106	48.8	32.1	72.1



#78
Naphthalene
Concen: 0.03 ppb
RT: 23.376 min Scan# 3358
Delta R.T. 0.017 min
Lab File: AU070515.D
Acq: 5 Jul 2023 5:01 pm

Tgt Ion	Ratio	Lower	Upper
128	100		
129	18.2	0.0	29.9
127	18.3	0.0	31.5



Data Path : C:\msdchem\1\data\
 Data File : AU070616.D
 Acq On : 6 Jul 2023 4:47 pm
 Operator : RJP
 Sample : C2307002-019A 5X
 Misc : A629_1UG
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 06 19:32:25 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

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

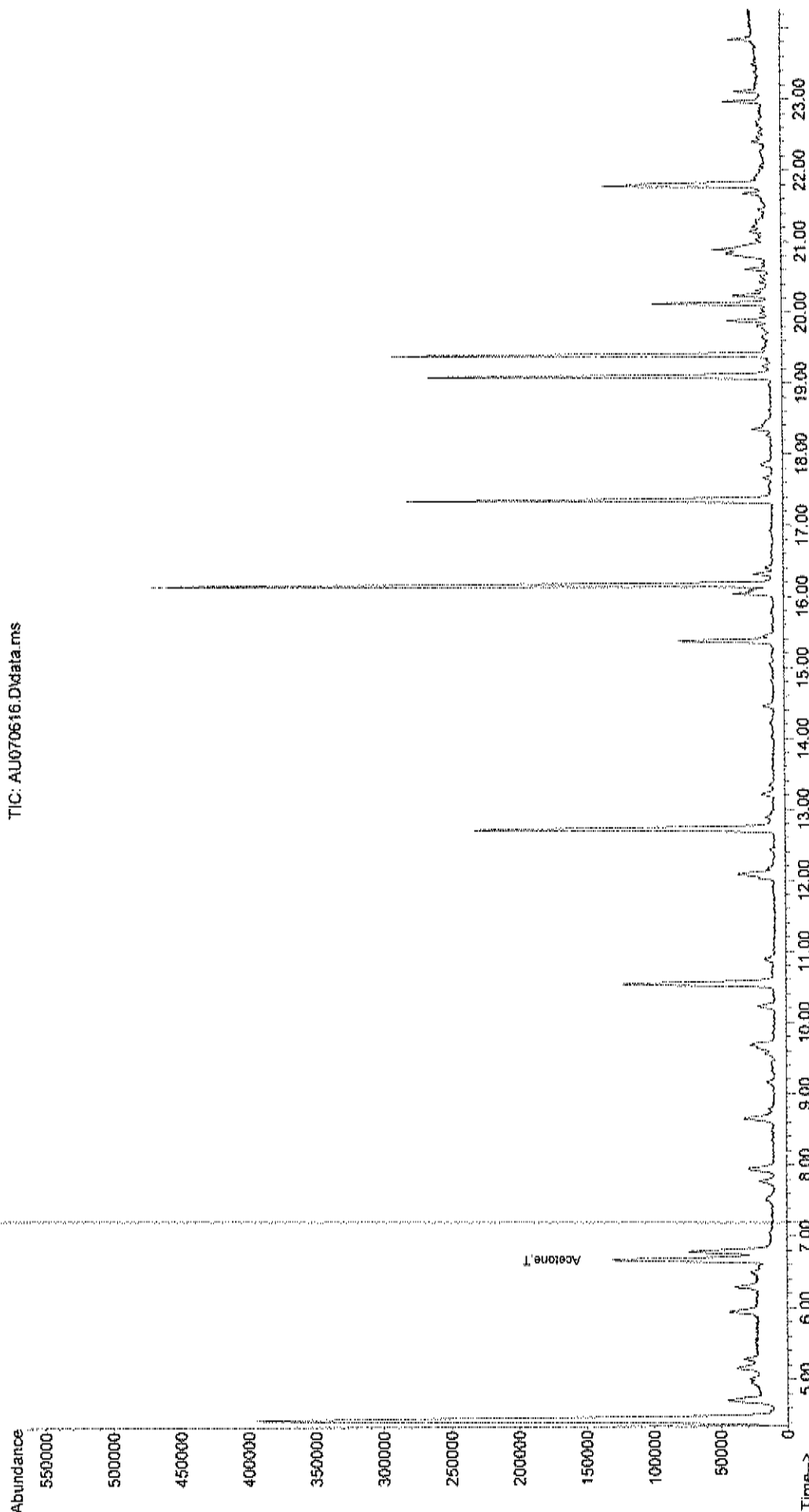
Internal Standards						
1) Bromochloromethane	10.551	128	57791	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.728	114	269401	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	221398	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	130813	0.78	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	78.00%
Target Compounds						
15) Acetone	6.673	58	87201m ^A	1.28	ppb	Qvalue

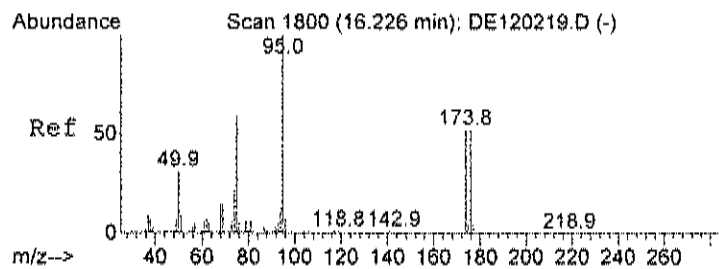
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\
 Data File : AU070616.D
 Acq On : 6 Jul 2023 4:47 pm
 Operator : RJP
 Sample : C2307002-019A 5X
 Misc : A629_IUG
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 06 19:32:25 2023
 Quant Method : C:\msdchem\1\methods\A629_IUG.M
 Quant Title : TO-15 VQA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

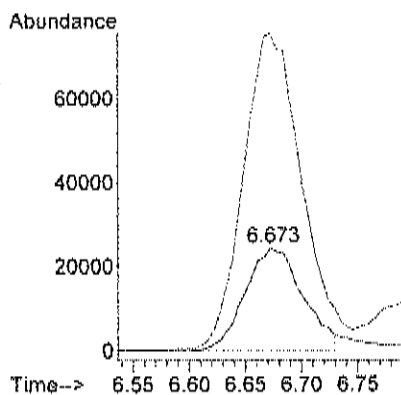
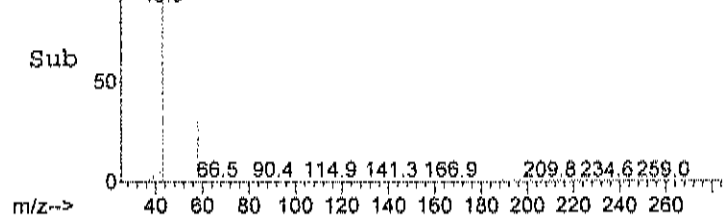
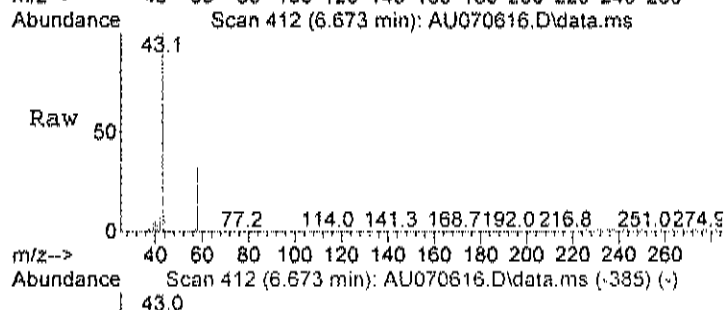
TIC: AU070616.D\data.ms





#15
Acetone
Concen: 1.28 ppb m
RT: 6.673 min Scan# 412
Delta R.T. 0.006 min
Lab File: AU070616.D
Acq: 6 Jul 2023 4:47 pm

Tgt Ion: 58 Resp: 87201
Ion Ratio Lower Upper
58 100
43 345.8 224.5 284.5#



Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: TB-1

Lab Order: C2307002

Tag Number: 170

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-020A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	+32			"Hg		7/3/2023
Lab Vacuum Out	+32			"Hg		7/3/2023
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	7/5/2023 3:33:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Acetone	0.59	0.30		ppbV	1	7/5/2023 3:33:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Benzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Bromoform	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Chloroform	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 39 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: TB-1

Lab Order: C2307002

Tag Number: 170

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-020A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Ethylbenzene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Freon 11	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Freon 113	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Freon 114	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Freon 12	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Heptane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Hexane	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Isopropyl alcohol	0.50	0.15		ppbV	1	7/5/2023 3:33:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	7/5/2023 3:33:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 3:33:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 3:33:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	7/5/2023 3:33:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Propylene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Styrene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Toluene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	7/5/2023 3:33:00 PM
Surr: Bromofluorobenzene	75.0	70-130		%REC	1	7/5/2023 3:33:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 40 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: TB-1

Lab Order: C2307002

Tag Number: 170

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-020A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 3:33:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	7/5/2023 3:33:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	7/5/2023 3:33:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 3:33:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 3:33:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	7/5/2023 3:33:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 3:33:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	7/5/2023 3:33:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 3:33:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	7/5/2023 3:33:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	7/5/2023 3:33:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	7/5/2023 3:33:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	7/5/2023 3:33:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 3:33:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	7/5/2023 3:33:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	7/5/2023 3:33:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	7/5/2023 3:33:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	7/5/2023 3:33:00 PM
Acetone	1.4	0.71		ug/m3	1	7/5/2023 3:33:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	7/5/2023 3:33:00 PM
Benzene	< 0.48	0.48		ug/m3	1	7/5/2023 3:33:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	7/5/2023 3:33:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	7/5/2023 3:33:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	7/5/2023 3:33:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	7/5/2023 3:33:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	7/5/2023 3:33:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	7/5/2023 3:33:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	7/5/2023 3:33:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	7/5/2023 3:33:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	7/5/2023 3:33:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	7/5/2023 3:33:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 3:33:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 3:33:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	7/5/2023 3:33:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	7/5/2023 3:33:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	7/5/2023 3:33:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	7/5/2023 3:33:00 PM
Freon 11	< 0.84	0.84		ug/m3	1	7/5/2023 3:33:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	7/5/2023 3:33:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	7/5/2023 3:33:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte, Quantitation estimated.

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 39 of 40

Centek/SanAir Technologies Laboratory

Date: 02-Aug-23

CLIENT: SOIL MECHANICS

Client Sample ID: TB-1

Lab Order: C2307002

Tag Number: 170

Project: IKEA Red Hook

Collection Date: 6/29/2023

Lab ID: C2307002-020A

Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: RJP		
Freon 12	< 0.74	0.74		ug/m3	1	7/5/2023 3:33:00 PM
Heptane	< 0.61	0.61		ug/m3	1	7/5/2023 3:33:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	7/5/2023 3:33:00 PM
Hexane	< 0.53	0.53		ug/m3	1	7/5/2023 3:33:00 PM
Isopropyl alcohol	1.2	0.37		ug/m3	1	7/5/2023 3:33:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	7/5/2023 3:33:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 3:33:00 PM
Methyl Ethyl Ketone	< 0.88	0.88		ug/m3	1	7/5/2023 3:33:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	7/5/2023 3:33:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	7/5/2023 3:33:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	7/5/2023 3:33:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	7/5/2023 3:33:00 PM
Propylene	< 0.26	0.26		ug/m3	1	7/5/2023 3:33:00 PM
Styrene	< 0.64	0.64		ug/m3	1	7/5/2023 3:33:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	7/5/2023 3:33:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	7/5/2023 3:33:00 PM
Toluene	< 0.57	0.57		ug/m3	1	7/5/2023 3:33:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	7/5/2023 3:33:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	7/5/2023 3:33:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	7/5/2023 3:33:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	7/5/2023 3:33:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	7/5/2023 3:33:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	7/5/2023 3:33:00 PM

Qualifiers:

DL Detection Limit

H Holding times for preparation or analysis exceeded

JN Non-routine analyte, Quantitation estimated,

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

SC Sub-Contracted

Page 40 of 40

Data Path : C:\msdchem\1\data\
 Data File : AU070513.D
 Acq On : 5 Jul 2023 3:33 pm
 Operator : RJP
 Sample : C2307002-020A
 Misc : A629_1UG
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 07:55:15 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

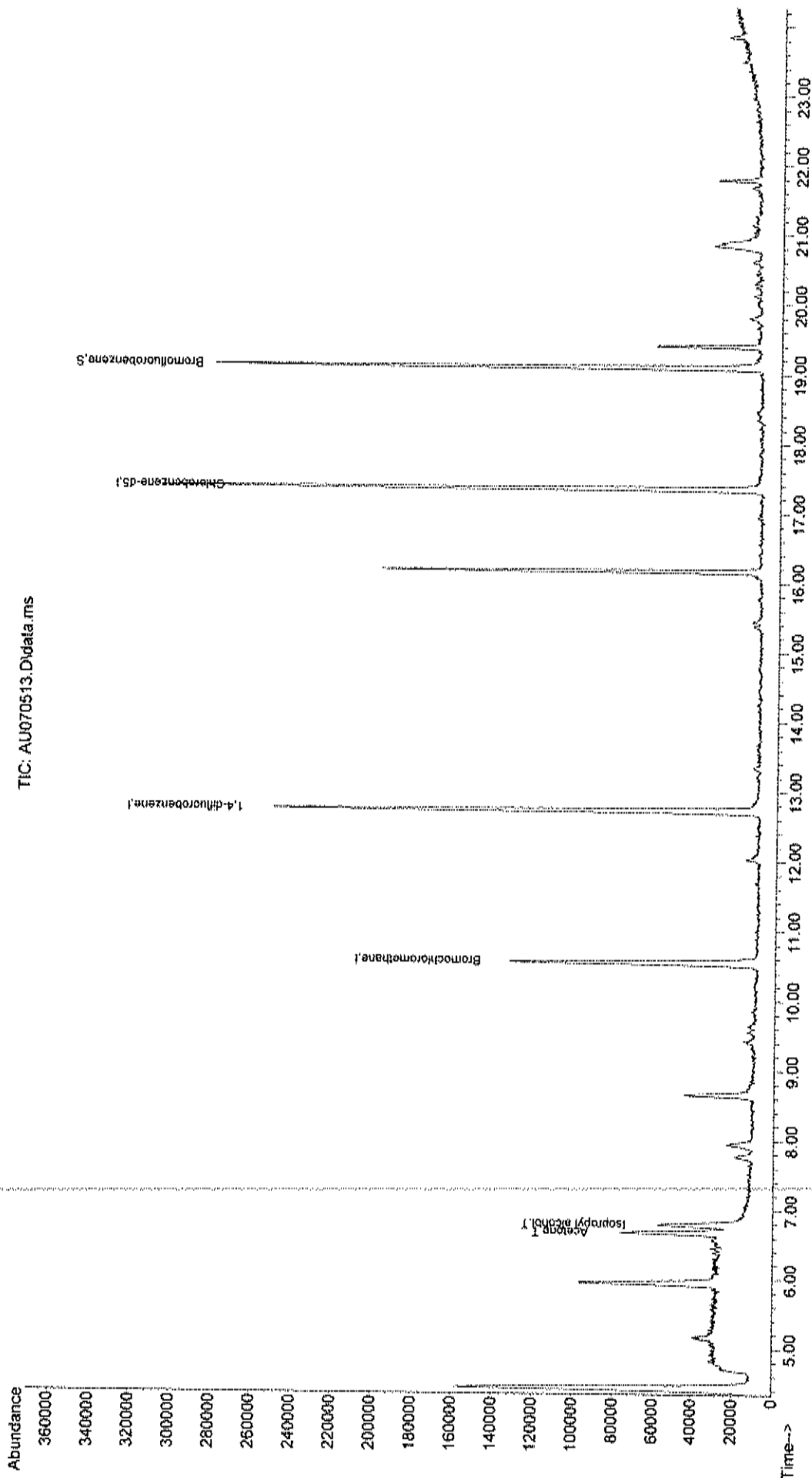
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

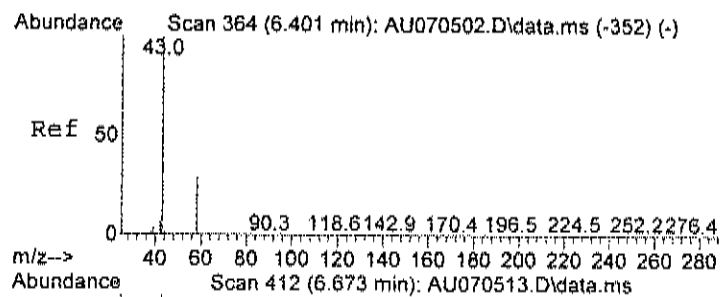
Internal Standards						
1) Bromochloromethane	10.551	128	60236	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.722	114	286759	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	244689	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.089	95	138589	0.75	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	75.00%
Target Compounds						Qvalue
15) Acetone	6.673	58	41725m A	0.59	ppb	
17) Isopropyl alcohol	6.781	45	92366	0.50	ppb	# 1

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

Quantitation Report (QT Reviewed)

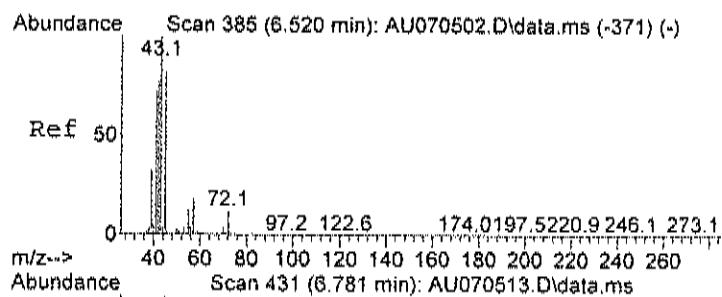
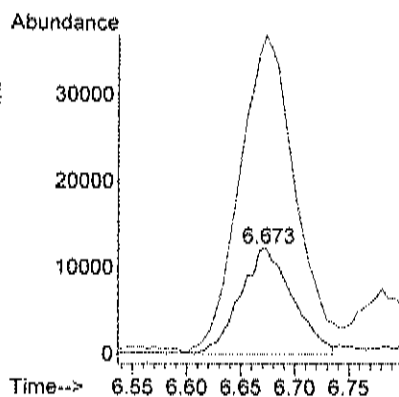
Data Path : C:\msdchem\1\data\
 Data File : AU070513.D
 Acq On : 5 Jul 2023 3:33 pm
 Operator : RJP
 Sample : C2307002-020A
 Misc : A629 IUG
 ALS Vial : 1 Sample Multiplier: 1
 Quant Time: Jul 06 07:55:15 2023
 Quant Method : C:\msdchem\1\methods\A629 IUG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





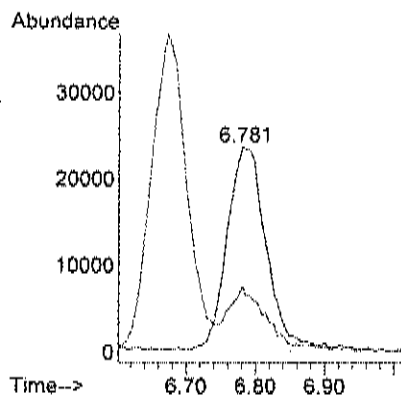
#15
Acetone
Concen: 0.59 ppb m
RT: 6.673 min Scan# 412
Delta R.T. 0.006 min
Lab File: AU070513.D
Acq: 5 Jul 2023 3:33 pm

Tgt Ion: 58 Resp: 41725
Ion Ratio Lower Upper
58 100
43 368.9 224.5 284.5#



#17
Isopropyl alcohol
Concen: 0.50 ppb
RT: 6.781 min Scan# 431
Delta R.T. -0.006 min
Lab File: AU070513.D
Acq: 5 Jul 2023 3:33 pm

Tgt Ion: 45 Resp: 92366
Ion Ratio Lower Upper
45 100
43 0.0 110.3 150.3#



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report Instrument 1

Method Path : C:\msdchem\1\methods\
 Method File : A629_1UG.M
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Aug 02 11:58:48 2023
 Response Via : Initial Calibration

Calibration Files

2.0 =AU062904.D 1.50=AU062905.D 1.25=AU062906.D 1.0 =AU062907.D 0.75=AU062908.D 0.50=AU062909.D 0.30=AU062910.D
 0.15=AU062911.D 0.10=AU062912.D 0.04=AU062913.D 0.03=AU062914.D

Compound		2.0	1.50	1.25	1.0	0.75	0.50	0.30	0.15	0.10	0.04	0.03	Avg	%RSD
-----ISTD-----														
1) I Bromochloromethane		1.432	1.399	1.438	1.456	1.511	1.474	1.384	1.412				1.438	2.88
2) T Propylene		3.972	3.974	3.997	4.085	4.205	4.259	4.231	4.262				4.123	3.15
3) T Freon 12		1.192	1.219	1.325	1.297	1.288	1.354	1.355	1.450				1.310	6.23
4) T Chloromethane		3.293	3.264	3.352	3.370	3.431	3.524	3.539	3.403				3.397	2.92
5) T Freon 114		1.203	1.208	1.224	1.263	1.265	1.302	1.300	1.358				1.239	8.10
6) T Vinyl Chloride		1.601	1.577	1.590	1.642	1.621	1.740	1.703	1.807	1.282	0.988		1.660	4.93
7) T Butane		1.221	1.204	1.270	1.295	1.352	1.334	1.363	1.328				1.296	4.60
8) T 1,3-butadiene		1.201	1.210	1.201	1.261	1.269	1.314	1.308	1.219				1.248	3.73
9) T Bromomethane		0.647	0.654	0.655	0.685	0.703	0.685	0.699	0.757				0.686	5.22
10) T Chloroethane		2.903	2.944	2.906	2.954	2.960	3.089	3.307	3.407				3.059	6.37
11) T Ethanol		0.548	0.470	0.521	0.489	0.522	0.648	0.569	0.505				0.534	10.42
12) T Acrolein		1.313	1.326	1.305	1.349	1.335	1.428	1.451	1.356				1.358	3.93
13) T Vinyl Bromide		3.991	3.974	4.007	4.143	4.240	4.278	4.201	4.176				4.126	2.90
14) T Freon 11		1.096	0.922	0.941	0.961	1.124	1.309	1.406	1.688				1.181	22.81
15) T Acetone		1.931	1.897	1.930	1.945	2.023	2.052	2.052	1.862				1.962	3.68
16) T Pentane		2.903	2.944	2.906	2.954	2.960	3.089	3.307	3.407	1.573	1.567		3.059	6.37
17) T Isopropyl alcohol		1.464	1.463	1.475	1.463	1.476	1.475	1.508	1.492				1.496	2.78
18) T 1,1-dichloroet...		3.035	3.050	3.052	3.058	3.100	3.070	3.046	2.934				3.043	1.59
19) T Freon 113		3.569	3.722	3.623	3.762	3.817	3.879	3.828	3.649				3.731	2.95
20) T t-Butyl alcohol		1.791	1.906	1.953	2.079	2.281	2.681	3.486	3.971				2.519	32.00
21) T Methylene chlo...		2.436	2.440	2.455	2.516	2.477	2.525	2.558	2.599				2.501	2.35
22) T Allyl chloride		4.533	4.554	4.587	4.748	4.913	5.221	5.959	7.593				5.264	20.05
23) T Carbon disulfide		2.369	2.326	2.314	2.397	2.381	2.420	2.367	2.344				2.365	1.50
24) T trans-1,2-dich...		5.003	4.973	4.979	4.967	5.140	5.132	5.199	5.013				5.051	1.81
25) T methyl tert-bu...		2.993	3.002	3.037	2.996	3.108	3.073	3.057	3.008				3.034	1.39
26) T 1,1-dichloroet...		4.311	4.256	4.336	4.282	4.447	4.283	4.301	4.497				4.339	1.99
27) T Vinyl acetate		0.955	0.944	0.913	0.927	0.974	0.931	0.916	0.971				0.941	2.51
28) T Methyl Ethyl K...		2.288	2.277	2.277	2.297	2.326	2.382	2.344	2.359	2.417	2.084		2.305	3.94
29) T cis-1,2-dichlo...		3.012	2.982	2.974	2.976	3.058	2.963	2.992	2.865				2.978	1.83
30) T Hexane		4.139	4.139	4.177	4.246	4.333	4.205	4.225	4.080				4.193	1.86
31) T Ethyl acetate		3.294	3.237	3.260	3.320	3.372	3.319	3.305	3.247				3.294	1.36
32) T Chloroform		1.983	1.943	1.970	1.953	1.993	2.016	2.046	2.068				1.997	2.21
33) T Tetrahydrofuran		2.380	2.389	2.394	2.433	2.472	2.540	2.448	2.456				2.439	2.17
34) T 1,2-dichloroet...														
-----ISTD-----														
35) I 1,4-difluorobenzene														
36) T 1,1,1-trichlor...		0.561	0.567	0.570	0.586	0.594	0.612	0.603	0.599				0.586	3.19
37) T Cyclohexane		0.456	0.459	0.455	0.462	0.461	0.491	0.471	0.451				0.463	2.72

Method Path : C:\msdchem\1\methods\

Method File : A629_IUG.M

Title : TO-15 VOA Standards for 5 point calibration

38) T	Carbon tetrach...	0.591	0.596	0.602	0.609	0.609	0.650	0.607	0.585	0.586	0.485	0.507	0.584	8.10
39) T	Benzene	0.839	0.837	0.831	0.845	0.859	0.899	0.864	0.815				0.849	3.03
40) T	Methyl methacr...	0.448	0.452	0.457	0.452	0.457	0.472	0.466	0.481				0.461	2.47
41) T	1,4-dioxane	0.217	0.223	0.224	0.221	0.229	0.238	0.228	0.233				0.227	2.99
42) T	2,2,4-trimethy...	1.453	1.459	1.454	1.450	1.491	1.535	1.483	1.380				1.463	3.02
43) T	Heptane	0.553	0.556	0.547	0.559	0.573	0.589	0.566	0.554				0.562	2.43
44) T	Trichloroethene	0.346	0.345	0.344	0.351	0.358	0.361	0.366	0.368	0.366	0.418	0.471	0.372	10.35
45) T	1,2-dichloropr...	0.315	0.317	0.316	0.316	0.326	0.339	0.331	0.318				0.322	2.74
46) T	Bromodichlorom...	0.535	0.542	0.547	0.554	0.561	0.581	0.558	0.542				0.553	2.66
47) T	cis-1,3-dichlo...	0.500	0.495	0.498	0.504	0.506	0.525	0.491	0.479				0.500	2.64
48) T	trans-1,3-dich...	0.477	0.474	0.476	0.479	0.481	0.495	0.466	0.430				0.472	4.03
49) T	1,1,2-trichlor...	0.300	0.301	0.302	0.310	0.318	0.315	0.313	0.320				0.310	2.55

50) I	Chlorobenzene-d5													
51) T	Toluene	0.695	0.704	0.692	0.700	0.697	0.731	0.693	0.703				0.702	1.80
52) T	Methyl Isobuty...	0.957	0.972	0.973	0.990	0.969	1.027	1.021	0.970				0.985	2.62
53) T	Dibromochlorom...	0.621	0.632	0.616	0.614	0.619	0.637	0.610	0.603				0.619	1.80
54) T	Methyl Butyl K...	0.979	0.988	0.983	1.002	0.988	1.024	1.020	0.903				0.986	3.81
55) T	1,2-dibromoethane	0.544	0.552	0.544	0.547	0.543	0.570	0.545	0.513				0.545	2.85
56) T	Tetrachloroeth...	0.393	0.398	0.390	0.396	0.398	0.411	0.401	0.397				0.398	1.58
57) T	Chlorobenzene	0.877	0.889	0.871	0.878	0.867	0.917	0.862	0.847				0.876	2.37
58) T	Ethylbenzene	1.529	1.541	1.525	1.537	1.534	1.576	1.517	1.459				1.527	2.14
59) T	mcp-xylene	1.208	1.219	1.205	1.211	1.222	1.261	1.196	1.157				1.210	2.40
60) T	Nonane	0.933	0.961	0.936	0.952	0.969	0.991	0.941	0.972				0.957	2.10
61) T	Styrene	0.947	0.934	0.928	0.926	0.916	0.933	0.906	0.843				0.917	3.51
62) T	Bromoform	0.577	0.567	0.554	0.559	0.541	0.555	0.523	0.497				0.547	4.71
63) T	o-xylene	1.240	1.247	1.223	1.238	1.234	1.289	1.238	1.196				1.238	2.10
64) T	Cumene	1.604	1.623	1.577	1.589	1.583	1.654	1.592	1.526				1.593	2.33
65) S	Bromofluoroben...	0.794	0.776	0.773	0.764	0.746	0.765	0.751	0.740	0.722	0.736	0.720	0.753	3.08
66) T	1,1,2,2-tetrac...	0.751	0.756	0.750	0.738	0.731	0.782	0.737	0.690				0.742	3.52
67) T	Propylbenzene	0.448	0.455	0.441	0.443	0.436	0.457	0.435	0.421				0.442	2.68
68) T	2-Chlorotoluene	0.392	0.391	0.384	0.390	0.381	0.398	0.376	0.358				0.384	3.30
69) T	4-ethyltoluene	1.675	1.681	1.652	1.634	1.607	1.683	1.576	1.466				1.622	4.52
70) T	1,3,5-trimethy...	1.383	1.394	1.381	1.384	1.367	1.422	1.366	1.390				1.386	1.27
71) T	1,2,4-trimethy...	1.384	1.403	1.362	1.374	1.349	1.397	1.365	1.319				1.369	1.97
72) T	1,3-dichlorobe...	0.790	0.755	0.748	0.729	0.725	0.746	0.662	0.603				0.720	8.27
73) T	benzyl chloride	1.052	0.949	0.967	0.890	0.871	0.835	0.714	0.707				0.873	13.77
74) T	1,4-dichlorobe...	0.764	0.728	0.730	0.696	0.680	0.676	0.620	0.532				0.678	10.81
75) T	1,2,3-trimethy...	1.385	1.372	1.379	1.357	1.374	1.453	1.322	1.317				1.370	3.07
76) T	1,2-dichlorobe...	0.743	0.719	0.706	0.686	0.680	0.699	0.627	0.557				0.677	8.73
77) T	1,2,4-trichlor...	0.293	0.239	0.262	0.209	0.202	0.208	0.153	0.145				0.214	23.62
78) T	Naphthalene	1.022	0.825	0.905	0.756	0.765	0.736	0.597	0.567	0.553	0.547	0.557	0.712	22.74
79) T	Hexachloro-1,3...	0.506	0.507	0.490	0.478	0.476	0.507	0.477	0.466				0.488	3.37

(#) = Out of Range

Data Path : C:\msdchem\1\data2\
 Data File : AU062904.D
 Acq On : 29 Jun 2023 7:30 pm
 Operator : RJP
 Sample : A1UG_2.0
 Misc : A629_1UG
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 13:17:33 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 13:09:37 2023
 Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

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

Internal Standards						
1) Bromochloromethane	10.233	128	58688	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.450	114	350512	1.00	ppb	0.00
50) Chlorobenzene-d5	17.111	117	296022	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.857	95	234955	1.04	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	= 104.00%		
Target Compounds						
						Qvalue
2) Propylene	4.462	41	168102	1.97	ppb	65
3) Freon 12	4.518	85	466258	1.94	ppb	97
4) Chloromethane	4.728	50	139899	1.79	ppb	99
5) Freon 114	4.728	85	386529	1.95	ppb	98
6) Vinyl Chloride	4.938	62	141145	1.90	ppb	99
7) Butane	5.046	43	187965	1.95	ppb	95
8) 1,3-butadiene	5.046	39	143303	1.89	ppb	92
9) Bromomethane	5.420	94	140982	1.91	ppb	96
10) Chloroethane	5.601	64	75911	1.89	ppb	99
11) Ethanol	6.503	45	340711	1.93	ppb	94
12) Acrolein	6.293	56	64339m	2.24	ppb	
13) Vinyl Bromide	5.941	106	154088	1.95	ppb	99
14) Freon 11	6.231	101	468434	1.93	ppb	99
15) Acetone	6.389	58	128660	2.23	ppb	# 64
16) Pentane	6.514	42	226643	1.98	ppb	97
17) Isopropyl alcohol	6.503	45	340711	1.93	ppb	94
18) 1,1-dichloroethene	7.019	96	171895	2.00	ppb	# 79
19) Freon 113	7.211	101	356249	1.98	ppb	98
20) t-Butyl alcohol	7.228	59	418921	1.90	ppb	94
21) Methylene chloride	7.478	84	210242	1.71	ppb	# 82
22) Allyl chloride	7.466	41	285975	1.94	ppb	86
23) Carbon disulfide	7.648	76	532078	1.91	ppb	100
24) trans-1,2-dichloroethene	8.430	61	278019	1.97	ppb	85
25) methyl tert-butyl ether	8.436	73	587240	2.00	ppb	91
26) 1,1-dichloroethane	8.850	63	351356	2.00	ppb	98
27) Vinyl acetate	8.827	43	506019	2.01	ppb	92
28) Methyl Ethyl Ketone	9.320	72	112135	2.07	ppb	# 1
29) cis-1,2-dichloroethene	9.785	61	268547	1.99	ppb	83
30) Hexane	9.389	57	353557	2.02	ppb	90
31) Ethyl acetate	9.910	43	485846	1.95	ppb	97
32) Chloroform	10.386	83	386598	1.98	ppb	99
33) Tetrahydrofuran	10.539	42	232783	2.03	ppb	85
34) 1,2-dichloroethane	11.481	62	279359	1.96	ppb	98
36) 1,1,1-trichloroethane	11.209	97	393371	1.91	ppb	98
37) Cyclohexane	11.889	56	319514	1.97	ppb	92
38) Carbon tetrachloride	11.832	117	414189	1.94	ppb	99
39) Benzene	11.792	78	588312	1.99	ppb	98
40) Methyl methacrylate	13.284	41	314309	1.99	ppb	# 78
41) 1,4-dioxane	13.301	88	152408	1.97	ppb	87
42) 2,2,4-trimethylpentane	12.615	57	1018529	2.00	ppb	94
43) Heptane	12.943	43	387458	1.98	ppb	85
44) Trichloroethene	13.079	130	242704	1.97	ppb	95

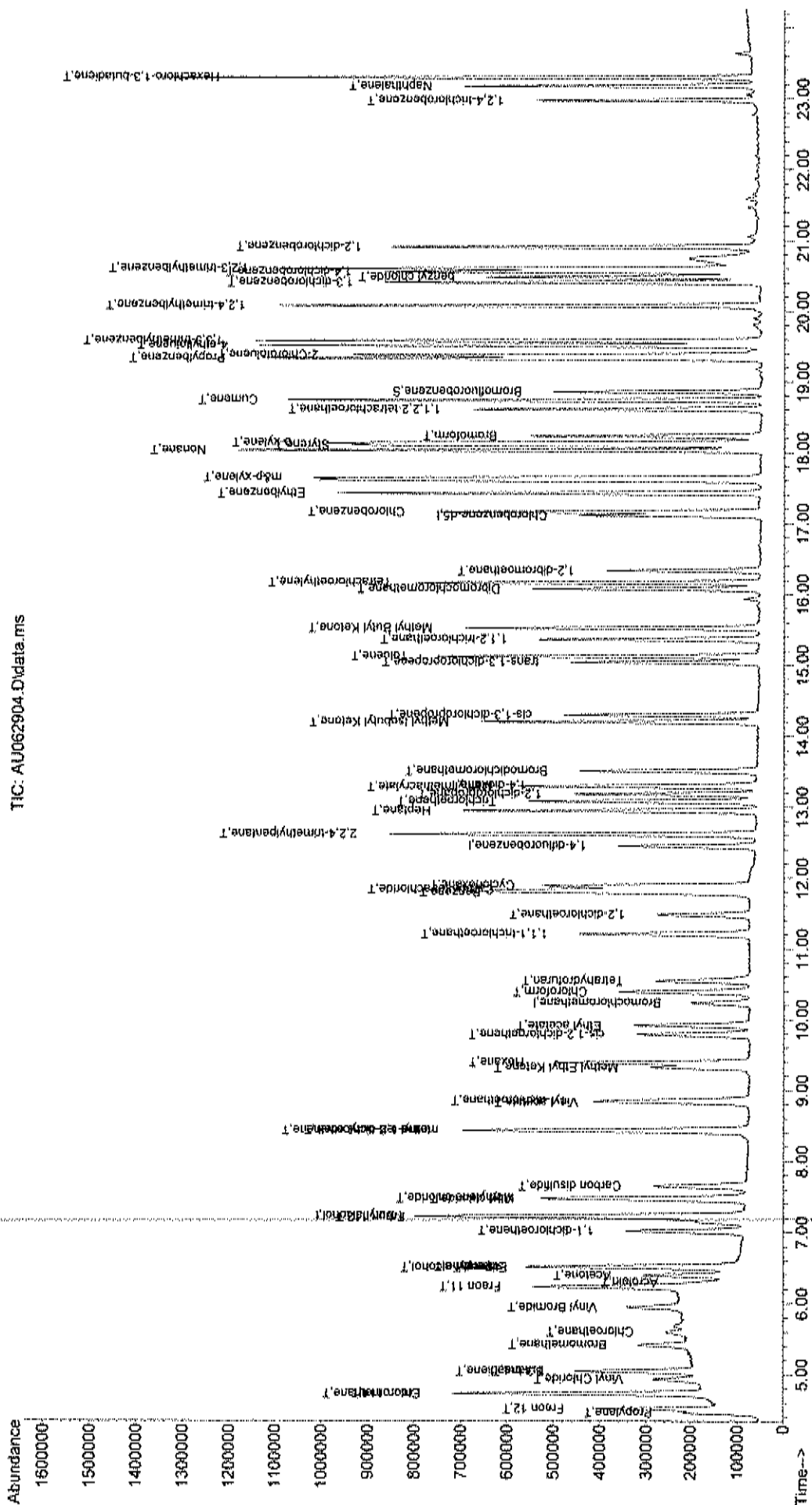
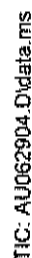
Data Path : C:\msdchem\1\data2\
 Data File : AU062904.D
 Acq On : 29 Jun 2023 7:30 pm
 Operator : RJP
 Sample : A1UG_2.0
 Misc : A629_1UG
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 13:17:33 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 13:09:37 2023
 Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.182	63	220548	1.99	ppb	98
46) Bromodichloromethane	13.505	83	374866	1.93	ppb	99
47) cis-1,3-dichloropropene	14.293	75	350823	1.99	ppb	96
48) trans-1,3-dichloropropene	15.041	75	334251	1.99	ppb	99
49) 1,1,2-trichloroethane	15.364	97	210445	1.94	ppb	100
51) Toluene	15.126	92	411541	1.99	ppb	99
52) Methyl Isobutyl Ketone	14.196	43	566539	1.94	ppb	92
53) Dibromochloromethane	16.079	129	367468	2.03	ppb	100
54) Methyl Butyl Ketone	15.523	43	579625	1.96	ppb	90
55) 1,2-dibromoethane	16.334	107	322181	1.99	ppb	99
56) Tetrachloroethylene	16.169	164	232881	1.99	ppb	100
57) Chlorobenzene	17.162	112	519314	2.00	ppb	93
58) Ethylbenzene	17.422	91	905108	1.99	ppb	95
59) m&p-xylene	17.638	91	1430212	3.99	ppb	93
60) Nonane	18.023	43	552350	1.96	ppb	90
61) Styrene	18.097	104	560744	2.05	ppb	84
62) Bromoform	18.228	173	341493	2.07	ppb	100
63) o-xylene	18.131	91	734192	2.01	ppb	93
64) Cumene	18.738	105	949623	2.02	ppb	97
66) 1,1,2,2-tetrachloroethane	18.607	83	444545	2.04	ppb	99
67) Propylbenzene	19.328	120	265257	2.02	ppb	79
68) 2-Chlorotoluene	19.373	126	232008	2.01	ppb	# 77
69) 4-ethyltoluene	19.509	105	991794	2.09	ppb	97
70) 1,3,5-trimethylbenzene	19.577	105	818993	2.00	ppb	100
71) 1,2,4-trimethylbenzene	20.076	105	819435	2.02	ppb	95
72) 1,3-dichlorobenzene	20.405	146	467563	2.17	ppb	99
73) benzyl chloride	20.478	91	622761	2.37	ppb	96
74) 1,4-dichlorobenzene	20.552	146	452186	2.18	ppb	96
75) 1,2,3-trimethylbenzene	20.598	105	819698	2.04	ppb	100
76) 1,2-dichlorobenzene	20.909	146	439913	2.16	ppb	97
77) 1,2,4-trichlorobenzene	22.973	180	173474m	2.81	ppb	
78) Naphthalene	23.177	128	605107m	2.71	ppb	
79) Hexachloro-1,3-butadiene	23.296	225	299345	2.12	ppb	94

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

Quant Time: Jul 01 13:17:33 2023
Quant Method : C:\msdchem\1\methods\A629_1DG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Sat Jul 01 13:09:37 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AUG062907.D



Data Path : C:\msdchem\1\data2\
 Data File : AU062905.D
 Acq On : 29 Jun 2023 8:16 pm
 Operator : RJP
 Sample : A1UG_1.50
 Misc : A629_1UG
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 13:16:37 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 13:09:37 2023
 Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

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

Internal Standards						
1) Bromochloromethane	10.239	128	57754	1.00	ppb	# 0.01
35) 1,4-difluorobenzene	12.445	114	339181	1.00	ppb	0.00
50) Chlorobenzene-d5	17.111	117	283832	1.00	ppb	0.00

System Monitoring Compounds						
65) Bromofluorobenzene	18.857	95	220115	1.02	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	102.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.456	41	121224	1.44	ppb	61
3) Freon 12	4.513	85	344278	1.46	ppb	99
4) Chloromethane	4.722	50	105632	1.38	ppb	97
5) Freon 114	4.728	85	282751	1.45	ppb	96
6) Vinyl Chloride	4.932	62	104683	1.44	ppb	96
7) Butane	5.040	43	136637	1.44	ppb	96
8) 1,3-butadiene	5.046	39	104284	1.39	ppb	94
9) Bromomethane	5.414	94	104847	1.44	ppb	96
10) Chloroethane	5.596	64	56666	1.43	ppb	100
11) Ethanol	6.497	45	255019	1.47	ppb	94
12) Acrolein	6.293	56	40714	1.44	ppb	92
13) Vinyl Bromide	5.953	106	114911	1.47	ppb	98
14) Freon 11	6.231	101	344237	1.44	ppb	99
15) Acetone	6.389	58	79889	1.41	ppb	# 63
16) Pentane	6.514	42	164373	1.46	ppb	98
17) Isopropyl alcohol	6.497	45	255019	1.47	ppb	94
18) 1,1-dichloroethene	7.013	96	126710	1.50	ppb	# 80
19) Freon 113	7.211	101	264221	1.50	ppb	97
20) t-Butyl alcohol	7.228	59	322443	1.48	ppb	94
21) Methylene chloride	7.478	84	165131m	1.36	ppb	
22) Allyl chloride	7.461	41	211419	1.46	ppb	86
23) Carbon disulfide	7.648	76	394479	1.44	ppb	99
24) trans-1,2-dichloroethene	8.425	61	201468	1.45	ppb	84
25) methyl tert-butyl ether	8.436	73	430846	1.49	ppb	91
26) 1,1-dichloroethane	8.856	63	260035	1.50	ppb	98
27) Vinyl acetate	8.827	43	368690	1.49	ppb	93
28) Methyl Ethyl Ketone	9.315	72	81751	1.53	ppb	# 44
29) cis-1,2-dichloroethene	9.786	61	197225	1.49	ppb	83
30) Hexane	9.389	57	258322	1.50	ppb	88
31) Ethyl acetate	9.916	43	358523	1.46	ppb	96
32) Chloroform	10.392	83	280455	1.46	ppb	99
33) Tetrahydrofuran	10.545	42	168340	1.49	ppb	87
34) 1,2-dichloroethane	11.475	62	206973	1.47	ppb	98
36) 1,1,1-trichloroethane	11.209	97	288352	1.45	ppb	99
37) Cyclohexane	11.883	56	233520	1.49	ppb	90
38) Carbon tetrachloride	11.827	117	303148	1.47	ppb	100
39) Benzene	11.793	78	425810	1.49	ppb	95
40) Methyl methacrylate	13.284	41	230193	1.50	ppb	# 77
41) 1,4-dioxane	13.306	88	113504	1.51	ppb	87
42) 2,2,4-trimethylpentane	12.615	57	742347	1.51	ppb	94
43) Heptane	12.949	43	282925	1.49	ppb	85
44) Trichloroethene	13.074	130	175531	1.48	ppb	94

Data Path : C:\msdchem\1\data2\
 Data File : AU062905.D
 Acq On : 29 Jun 2023 8:16 pm
 Operator : RJP
 Sample : A1UG_1.50
 Misc : A629_1UG
 ALS Vial : 4 Sample Multiplier: 1

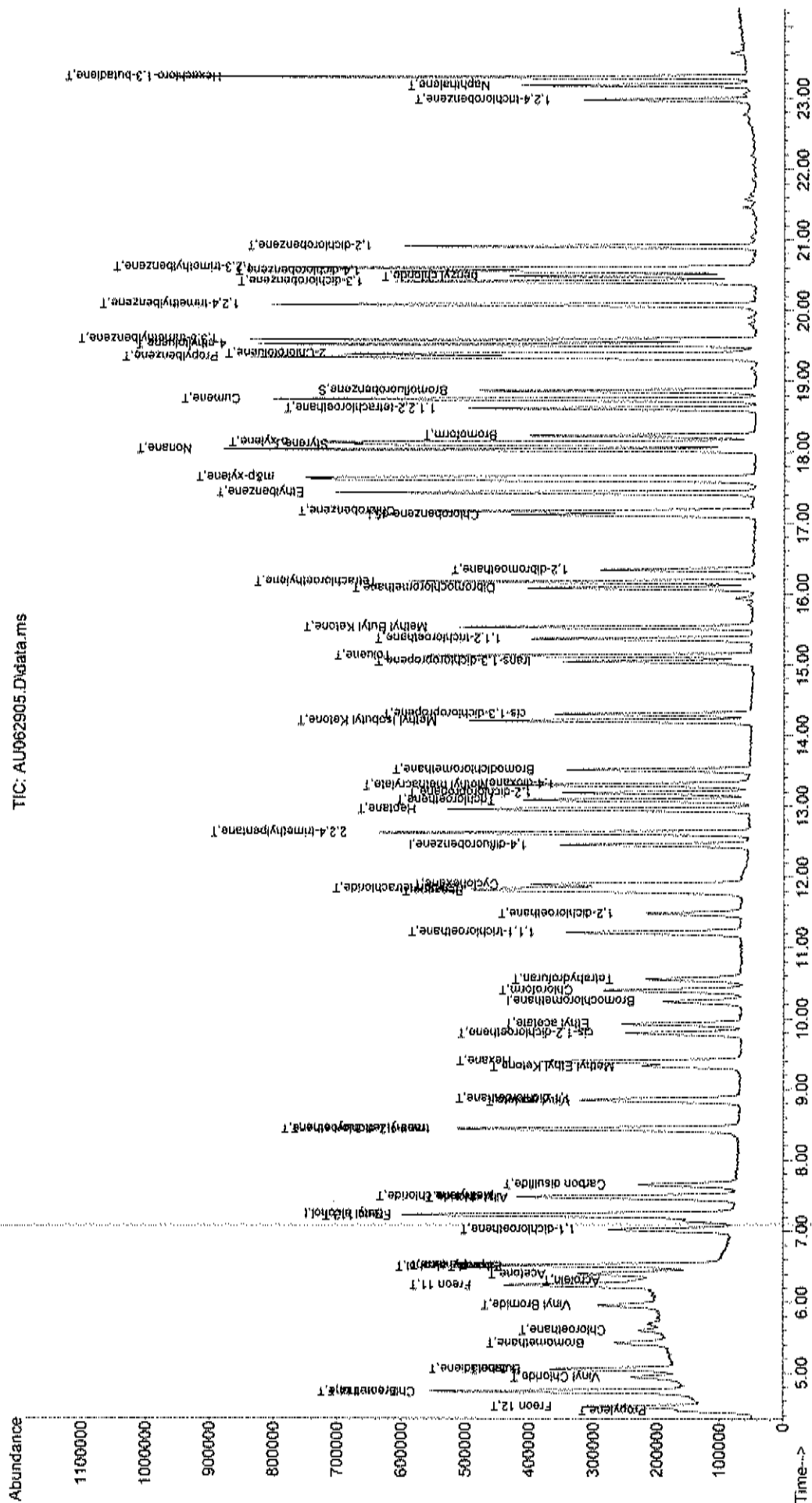
Quant Time: Jul 01 13:16:37 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 13:09:37 2023
 Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.182	63	161075	1.50	ppb	100
46) Bromodichloromethane	13.505	83	275830	1.47	ppb	99
47) cis-1,3-dichloropropene	14.299	75	252020	1.48	ppb	97
48) trans-1,3-dichloropropene	15.041	75	241166	1.49	ppb	95
49) 1,1,2-trichloroethane	15.365	97	153269	1.46	ppb	100
51) Toluene	15.121	92	299780	1.51	ppb	100
52) Methyl Isobutyl Ketone	14.197	43	413872	1.47	ppb	92
53) Dibromochloromethane	16.079	129	268908	1.55	ppb	99
54) Methyl Butyl Ketone	15.523	43	420827	1.48	ppb	89
55) 1,2-dibromoethane	16.334	107	234807	1.51	ppb	100
56) Tetrachloroethylene	16.164	164	169521	1.51	ppb	100
57) Chlorobenzene	17.162	112	378457	1.52	ppb	93
58) Ethylbenzene	17.423	91	656179	1.51	ppb	95
59) m&p-xylene	17.632	91	1037593	3.02	ppb	92
60) Nonane	18.029	43	409043	1.52	ppb	89
61) Styrene	18.097	104	397738	1.51	ppb	85
62) Bromoform	18.228	173	241240	1.52	ppb	99
63) o-xylene	18.131	91	530781	1.51	ppb	94
64) Cumene	18.732	105	691168	1.53	ppb	97
66) 1,1,2,2-tetrachloroethane	18.608	83	321896	1.54	ppb	99
67) Propylbenzene	19.328	120	193558	1.54	ppb	81
68) 2-Chlorotoluene	19.379	126	166586	1.50	ppb	# 1
69) 4-ethyltoluene	19.509	105	715581	1.57	ppb	97
70) 1,3,5-trimethylbenzene	19.577	105	593357	1.51	ppb	100
71) 1,2,4-trimethylbenzene	20.076	105	597307	1.53	ppb	95
72) 1,3-dichlorobenzene	20.405	146	321531	1.55	ppb	100
73) benzyl chloride	20.479	91	404181	1.60	ppb	95
74) 1,4-dichlorobenzene	20.552	146	310054	1.56	ppb	96
75) 1,2,3-trimethylbenzene	20.598	105	584047	1.51	ppb	100
76) 1,2-dichlorobenzene	20.904	146	306212	1.57	ppb	97
77) 1,2,4-trichlorobenzene	22.973	180	101771	1.72	ppb	99
78) Naphthalene	23.177	128	351048	1.64	ppb	100
79) Hexachloro-1,3-butadiene	23.291	225	216035	1.60	ppb	94

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

Quant Time: Jul 01 13:16:37 2023
Quant Method : C:\msdchem\1\methods\A629 IUG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Sat Jul 01 13:09:37 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

TIC: AU062905.D\data.ms



Data Path : C:\msdchem\1\data2\
 Data File : AU062906.D
 Acq On : 29 Jun 2023 9:01 pm
 Operator : RJP
 Sample : A1UG_1.25
 Misc : A629_1UG
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 13:15:55 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 13:09:37 2023
 Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

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

Internal Standards						
1) Bromochloromethane	10.233	128	56701	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.450	114	335454	1.00	ppb	0.00
50) Chlorobenzene-d5	17.111	117	282869	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.857	95	218705	1.01	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	= 101.00%		
Target Compounds						
						Qvalue
2) Propylene	4.456	41	101893	1.23	ppb	64
3) Freon 12	4.518	85	283299	1.22	ppb	98
4) Chloromethane	4.728	50	93936m	1.25	ppb	
5) Freon 114	4.728	85	237604	1.24	ppb	97
6) Vinyl Chloride	4.932	62	86764	1.21	ppb	99
7) Butane	5.040	43	112683	1.21	ppb	96
8) 1,3-butadiene	5.046	39	90032	1.23	ppb	87
9) Bromomethane	5.414	94	85112	1.19	ppb	98
10) Chloroethane	5.590	64	46433	1.19	ppb	100
11) Ethanol	6.503	45	205993	1.21	ppb	94
12) Acrolein	6.293	56	36955	1.33	ppb	96
13) Vinyl Bromide	5.941	106	92483	1.21	ppb	98
14) Freon 11	6.231	101	284014	1.21	ppb	99
15) Acetone	6.395	58	66676	1.20	ppb	# 69
16) Pentane	6.514	42	136816	1.24	ppb	97
17) Isopropyl alcohol	6.503	45	205993	1.21	ppb	94
18) 1,1-dichloroethene	7.013	96	104527	1.26	ppb	# 80
19) Freon 113	7.211	101	216284	1.25	ppb	97
20) t-Butyl alcohol	7.234	59	256784	1.20	ppb	# 92
21) Methylene chloride	7.484	84	138394	1.16	ppb	# 82
22) Allyl chloride	7.467	41	173968	1.22	ppb	85
23) Carbon disulfide	7.648	76	325109	1.21	ppb	99
24) trans-1,2-dichloroethene	8.425	61	164034	1.21	ppb	85
25) methyl tert-butyl ether	8.436	73	352874	1.24	ppb	90
26) 1,1-dichloroethane	8.856	63	215231	1.26	ppb	97
27) Vinyl acetate	8.827	43	307293	1.26	ppb	92
28) Methyl Ethyl Ketone	9.321	72	64722	1.24	ppb	# 36
29) cis-1,2-dichloroethene	9.786	61	161355	1.24	ppb	84
30) Hexane	9.389	57	210801	1.25	ppb	89
31) Ethyl acetate	9.916	43	296027	1.23	ppb	96
32) Chloroform	10.392	83	231060	1.23	ppb	100
33) Tetrahydrofuran	10.545	42	139630	1.26	ppb	86
34) 1,2-dichloroethane	11.481	62	169690	1.23	ppb	100
36) 1,1,1-trichloroethane	11.209	97	238916	1.21	ppb	99
37) Cyclohexane	11.883	56	190717	1.23	ppb	91
38) Carbon tetrachloride	11.827	117	252410	1.24	ppb	98
39) Benzene	11.793	78	348371	1.23	ppb	95
40) Methyl methacrylate	13.284	41	191419	1.26	ppb	# 78
41) 1,4-dioxane	13.312	88	94122	1.27	ppb	89
42) 2,2,4-trimethylpentane	12.615	57	609836	1.25	ppb	94
43) Heptane	12.949	43	229507	1.22	ppb	86
44) Trichloroethene	13.080	130	144421	1.23	ppb	93

Data Path : C:\msdchem\1\data2\
 Data File : AU062906.D
 Acq On : 29 Jun 2023 9:01 pm
 Operator : RJP
 Sample : A1UG_1.25
 Misc : A629_1UG
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 13:15:55 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 13:09:37 2023
 Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

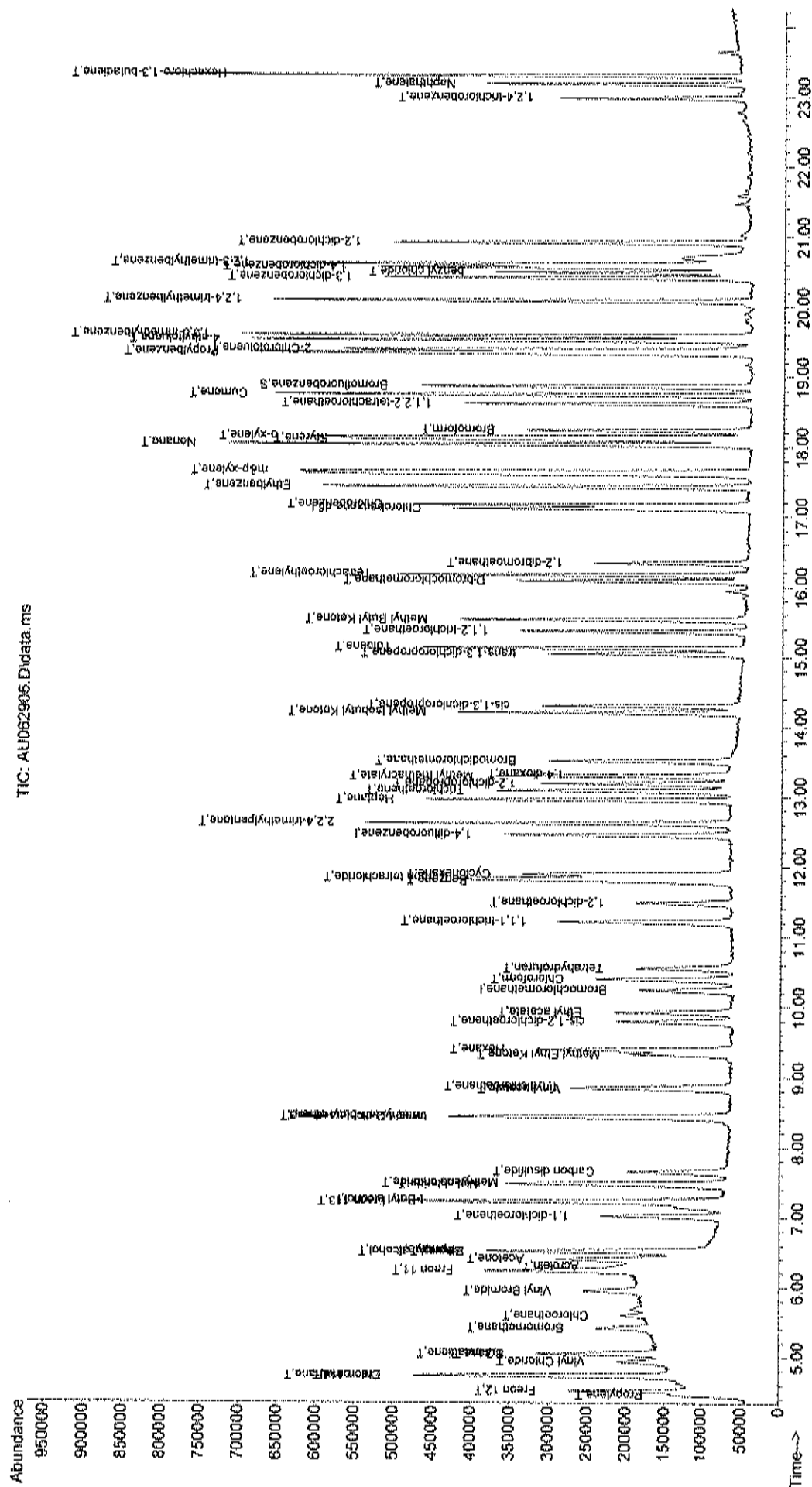
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.176	63	132499	1.25	ppb	98
46) Bromodichloromethane	13.505	83	229294	1.23	ppb	98
47) cis-1,3-dichloropropene	14.299	75	208966	1.24	ppb	96
48) trans-1,3-dichloropropene	15.041	75	199768	1.24	ppb	100
49) 1,1,2-trichloroethane	15.365	97	126581	1.22	ppb	98
51) Toluene	15.126	92	244617	1.24	ppb	97
52) Methyl Isobutyl Ketone	14.202	43	343895	1.23	ppb	92
53) Dibromochloromethane	16.079	129	217875	1.26	ppb	98
54) Methyl Butyl Ketone	15.523	43	347659	1.23	ppb	89
55) 1,2-dibromoethane	16.334	107	192469	1.24	ppb	99
56) Tetrachloroethylene	16.170	164	137727	1.23	ppb	99
57) Chlorobenzene	17.162	112	308087	1.24	ppb	91
58) Ethylbenzene	17.423	91	539340	1.24	ppb	94
59) m&p-xylene	17.632	91	852124	2.49	ppb	92
60) Nonane	18.024	43	330943	1.23	ppb	90
61) Styrene	18.097	104	328184	1.25	ppb	84
62) Bromoform	18.228	173	196047	1.24	ppb	100
63) o-xylene	18.131	91	432556	1.24	ppb	94
64) Cumene	18.732	105	557574	1.24	ppb	97
66) 1,1,2,2-tetrachloroethane	18.608	83	265225	1.27	ppb	99
67) Propylbenzene	19.328	120	155976	1.25	ppb	78
68) 2-Chlorotoluene	19.373	126	135876	1.23	ppb	# 75
69) 4-ethyltoluene	19.509	105	584266	1.29	ppb	97
70) 1,3,5-trimethylbenzene	19.577	105	488451	1.25	ppb	100
71) 1,2,4-trimethylbenzene	20.076	105	481565	1.24	ppb	94
72) 1,3-dichlorobenzene	20.405	146	264633	1.28	ppb	99
73) benzyl chloride	20.484	91	341744	1.36	ppb	95
74) 1,4-dichlorobenzene	20.552	146	258150	1.31	ppb	95
75) 1,2,3-trimethylbenzene	20.603	105	487562	1.27	ppb	99
76) 1,2-dichlorobenzene	20.904	146	249735	1.29	ppb	98
77) 1,2,4-trichlorobenzene	22.979	180	92501	1.57	ppb	98
78) Naphthalene	23.177	128	320126	1.50	ppb	99
79) Hexachloro-1,3-butadiene	23.296	225	173223	1.28	ppb	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
 Data File : AU062906.D
 Acq On : 29 Jun 2023 9:01 pm
 Operator : RJP
 Sample : A1UG 1.25
 Misc : A629_1UG
 ALS Vial : 5 Sample Multiplier: 1
 Quant Time: Jul 01 13:15:55 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 13:09:37 2023
 Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

TIC: AU062906.D\data.ms



Data Path : C:\msdchem\1\data2\
 Data File : AU062907.D
 Acq On : 29 Jun 2023 9:45 pm
 Operator : RJP
 Sample : A1UG_1.0
 Misc : A629_1UG
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 13:14:53 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 13:14:29 2023
 Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

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

Internal Standards						
1) Bromochloromethane	10.228	128	55069	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.450	114	324954	1.00	ppb	0.00
50) Chlorobenzene-d5	17.111	117	273345	1.00	ppb	0.00

System Monitoring Compounds						
65) Bromofluorobenzene	18.857	95	208709	1.00	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	= 100.00%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.462	41	80159	1.00	ppb	64
3) Freon 12	4.518	85	224955	1.00	ppb	99
4) Chloromethane	4.722	50	71424	0.98	ppb	98
5) Freon 114	4.728	85	185600	1.00	ppb	98
6) Vinyl Chloride	4.938	62	69536	1.00	ppb	97
7) Butane	5.046	43	90426	1.00	ppb	97
8) 1,3-butadiene	5.040	39	71296	1.00	ppb	94
9) Bromomethane	5.408	94	69433	1.00	ppb	99
10) Chloroethane	5.590	64	37734	1.00	ppb	97
11) Ethanol	6.508	45	162672	0.98	ppb	93
12) Acrolein	6.282	56	26925	1.00	ppb	89
13) Vinyl Bromide	5.953	106	74305	1.00	ppb	100
14) Freon 11	6.231	101	228138	1.00	ppb	99
15) Acetone	6.389	58	52903	0.98	ppb	# 58
16) Pentane	6.508	42	107099	1.00	ppb	97
17) Isopropyl alcohol	6.508	45	162672	0.98	ppb	93
18) 1,1-dichloroethene	7.019	96	80571	1.00	ppb	# 77
19) Freon 113	7.217	101	168427	1.00	ppb	97
20) t-Butyl alcohol	7.234	59	207188	1.00	ppb	# 92
21) Methylene chloride	7.478	84	114515	0.99	ppb	# 81
22) Allyl chloride	7.461	41	138532	1.00	ppb	84
23) Carbon disulfide	7.648	76	261486	1.00	ppb	99
24) trans-1,2-dichloroethene	8.425	61	131973	1.00	ppb	83
25) methyl tert-butyl ether	8.436	73	273513	0.99	ppb	88
26) 1,1-dichloroethane	8.850	63	165006	1.00	ppb	100
27) Vinyl acetate	8.827	43	235786	1.00	ppb	92
28) Methyl Ethyl Ketone	9.320	72	51049	1.00	ppb	# 1
29) cis-1,2-dichloroethene	9.785	61	126502	1.00	ppb	82
30) Hexane	9.389	57	163891	1.00	ppb	88
31) Ethyl acetate	9.916	43	233816	1.00	ppb	96
32) Chloroform	10.392	83	182812	1.00	ppb	100
33) Tetrahydrofuran	10.551	42	107536	1.00	ppb	89
34) 1,2-dichloroethane	11.475	62	133991	1.00	ppb	99
36) 1,1,1-trichloroethane	11.203	97	190397	1.00	ppb	99
37) Cyclohexane	11.883	56	150073	1.00	ppb	90
38) Carbon tetrachloride	11.827	117	197802	1.00	ppb	99
39) Benzene	11.793	78	274512	1.00	ppb	95
40) Methyl methacrylate	13.289	41	146803	1.00	ppb	# 79
41) 1,4-dioxane	13.312	88	71891	1.00	ppb	84
42) 2,2,4-trimethylpentane	12.615	57	471302	1.00	ppb	93
43) Heptane	12.949	43	181685	1.00	ppb	84
44) Trichloroethene	13.080	130	113961	1.00	ppb	94

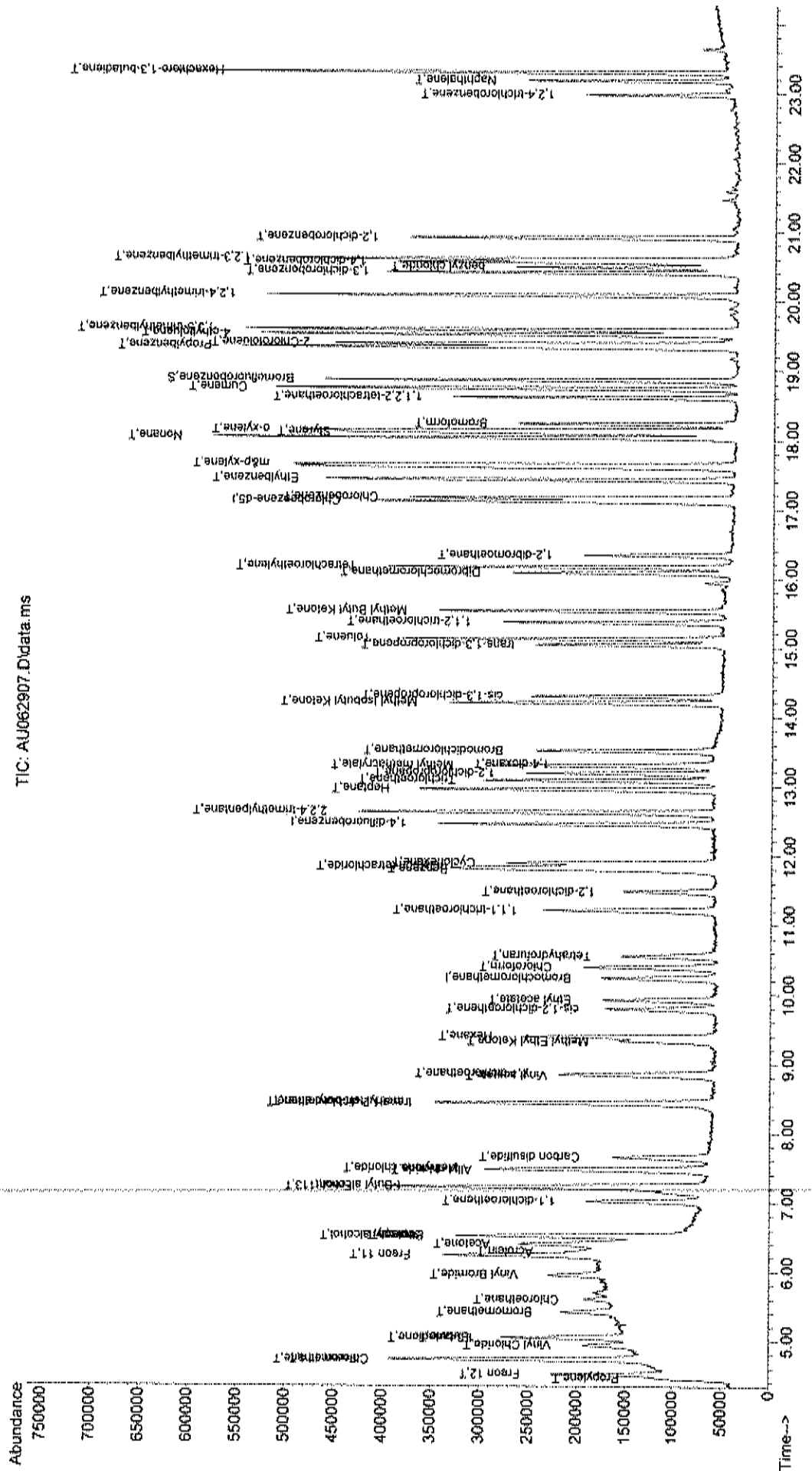
Data Path : C:\msdchem\1\data2\
 Data File : AU062907.D
 Acq On : 29 Jun 2023 9:45 pm
 Operator : RJP
 Sample : A1UG 1.0
 Misc : A629_1UG
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 13:14:53 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 13:14:29 2023
 Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.182	63	102689	1.00	ppb	100
46) Bromodichloromethane	13.505	83	180076	1.00	ppb	99
47) cis-1,3-dichloropropene	14.299	75	163672	1.00	ppb	96
48) trans-1,3-dichloropropene	15.036	75	155522	1.00	ppb	98
49) 1,1,2-trichloroethane	15.364	97	100600	1.00	ppb	99
51) Toluene	15.126	92	191338	1.00	ppb	98
52) Methyl Isobutyl Ketone	14.202	43	270544	1.00	ppb	91
53) Dibromochloromethane	16.079	129	167755	1.00	ppb	99
54) Methyl Butyl Ketone	15.523	43	273848	1.00	ppb	87
55) 1,2-dibromoethane	16.334	107	149604	1.00	ppb	99
56) Tetrachloroethylene	16.164	164	108135	1.00	ppb	99
57) Chlorobenzene	17.162	112	239880	1.00	ppb	92
58) Ethylbenzene	17.428	91	420037	1.00	ppb	94
59) m&p-xylene	17.638	91	662217	2.00	ppb	92
60) Nonane	18.023	43	260233	1.00	ppb	88
61) Styrene	18.097	104	253190	1.00	ppb	82
62) Bromoform	18.228	173	152816	1.00	ppb	100
63) o-xylene	18.131	91	338466	1.00	ppb	93
64) Cumene	18.732	105	434287	1.00	ppb	97
66) 1,1,2,2-tetrachloroethane	18.607	83	201747	1.00	ppb	98
67) Propylbenzene	19.328	120	121141	1.00	ppb	78
68) 2-Chlorotoluene	19.379	126	106736	1.00	ppb	# 1
69) 4-ethyltoluene	19.509	105	446638	1.02	ppb	97
70) 1,3,5-trimethylbenzene	19.577	105	378216	1.00	ppb	100
71) 1,2,4-trimethylbenzene	20.076	105	375495	1.00	ppb	94
72) 1,3-dichlorobenzene	20.410	146	199238	1.00	ppb	99
73) benzyl chloride	20.484	91	243348	1.00	ppb	96
74) 1,4-dichlorobenzene	20.552	146	190113	0.99	ppb	96
75) 1,2,3-trimethylbenzene	20.598	105	371053	1.00	ppb	99
76) 1,2-dichlorobenzene	20.904	146	187555	1.00	ppb	96
77) 1,2,4-trichlorobenzene	22.973	180	57250	1.01	ppb	100
78) Naphthalene	23.177	128	206642	1.00	ppb	99
79) Hexachloro-1,3-butadiene	23.291	225	130579	1.00	ppb	93

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

TIC: AU062907.D\data.ms



Data Path : C:\msdchem\1\data2\
 Data File : AU062908.D
 Acq On : 29 Jun 2023 10:28 pm
 Operator : RJP
 Sample : A1UG_0.75
 Misc : A629_1UG
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 13:18:54 2023

Quant Method : C:\msdchem\1\methods\A629_1UG.M

Quant Title : TO-15 VOA Standards for 5 point calibration

QLast Update : Sat Jul 01 13:09:37 2023

Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

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

Internal Standards						
1) Bromochloromethane	10.233	128	53717	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.445	114	315190	1.00	ppb	0.00
50) Chlorobenzene-d5	17.111	117	271342	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.857	95	202351	0.98	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	98.00%

Target Compounds

						Qvalue
2) Propylene	4.462	41	60863	0.78	ppb	# 55
3) Freon 12	4.518	85	169404	0.77	ppb	99
4) Chloromethane	4.722	50	51905	0.73	ppb	99
5) Freon 114	4.728	85	138230	0.76	ppb	95
6) Vinyl Chloride	4.932	62	50955	0.75	ppb	96
7) Butane	5.040	43	65295	0.74	ppb	93
8) 1,3-butadiene	5.046	39	54464	0.78	ppb	91
9) Bromomethane	5.414	94	51117	0.75	ppb	93
10) Chloroethane	5.596	64	28311	0.77	ppb	96
11) Ethanol	6.503	45	119238	0.74	ppb	95
12) Acrolein	6.282	56	21021	0.80	ppb	91
13) Vinyl Bromide	5.941	106	53798	0.74	ppb	100
14) Freon 11	6.236	101	170808	0.77	ppb	98
15) Acetone	6.395	58	45265	0.86	ppb	# 63
16) Pentane	6.508	42	81494	0.78	ppb	94
17) Isopropyl alcohol	6.503	45	119238	0.74	ppb	95
18) 1,1-dichloroethene	7.013	96	59452	0.76	ppb	# 77
19) Freon 113	7.217	101	124899	0.76	ppb	97
20) t-Butyl alcohol	7.240	59	153788	0.76	ppb	# 92
21) Methylene chloride	7.478	84	91905	0.81	ppb	# 81
22) Allyl chloride	7.461	41	99779	0.74	ppb	87
23) Carbon disulfide	7.654	76	197951	0.78	ppb	100
24) trans-1,2-dichloroethene	8.425	61	95924	0.74	ppb	85
25) methyl tert-butyl ether	8.442	73	207066	0.77	ppb	90
26) 1,1-dichloroethane	8.850	63	125209	0.78	ppb	99
27) Vinyl acetate	8.827	43	179142	0.78	ppb	92
28) Methyl Ethyl Ketone	9.321	72	39257	0.79	ppb	# 37
29) cis-1,2-dichloroethene	9.786	61	93728	0.76	ppb	82
30) Hexane	9.383	57	123205	0.77	ppb	88
31) Ethyl acetate	9.916	43	174571	0.77	ppb	96
32) Chloroform	10.386	83	135856	0.76	ppb	100
33) Tetrahydrofuran	10.557	42	80307	0.77	ppb	86
34) 1,2-dichloroethane	11.475	62	99603	0.76	ppb	97
36) 1,1,1-trichloroethane	11.209	97	140473	0.76	ppb	99
37) Cyclohexane	11.889	56	109041	0.75	ppb	90
38) Carbon tetrachloride	11.827	117	143861	0.75	ppb	100
39) Benzene	11.793	78	203023	0.76	ppb	96
40) Methyl methacrylate	13.289	41	108110	0.76	ppb	# 79
41) 1,4-dioxane	13.312	88	54111	0.78	ppb	88
42) 2,2,4-trimethylpentane	12.615	57	352482	0.77	ppb	93
43) Heptane	12.944	43	135545	0.77	ppb	84
44) Trichloroethene	13.085	130	84661	0.77	ppb	94

Data Path : C:\msdchem\1\data2\
Data File : AU062908.D
Acq On : 29 Jun 2023 10:28 pm
Operator : RJP
Sample : A1UG_0.75
Misc : A629_1UG
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 13:18:54 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Sat Jul 01 13:09:37 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.182	63	77001	0.77	ppb	97
46) Bromodichloromethane	13.505	83	132711	0.76	ppb	99
47) cis-1,3-dichloropropene	14.299	75	119605	0.75	ppb	97
48) trans-1,3-dichloropropene	15.041	75	113673	0.75	ppb	94
49) 1,1,2-trichloroethane	15.364	97	75184	0.77	ppb	99
51) Toluene	15.126	92	141812	0.75	ppb	99
52) Methyl Isobutyl Ketone	14.197	43	197187	0.74	ppb	92
53) Dibromochloromethane	16.079	129	125940	0.76	ppb	99
54) Methyl Butyl Ketone	15.523	43	201132	0.74	ppb	90
55) 1,2-dibromoethane	16.340	107	110436	0.74	ppb	99
56) Tetrachloroethylene	16.164	164	80897	0.75	ppb	99
57) Chlorobenzene	17.162	112	176531	0.74	ppb	90
58) Ethylbenzene	17.423	91	312112	0.75	ppb	94
59) m&p-xylene	17.632	91	497343	1.51	ppb	92
60) Nonane	18.024	43	197235	0.76	ppb	86
61) Styrene	18.103	104	186387	0.74	ppb	84
62) Bromoform	18.228	173	110012	0.73	ppb	99
63) o-xylene	18.137	91	251177	0.75	ppb	92
64) Cumene	18.732	105	322224	0.75	ppb	96
66) 1,1,2,2-tetrachloroethane	18.608	83	148772	0.74	ppb	98
67) Propylbenzene	19.328	120	88702	0.74	ppb	78
68) 2-Chlorotoluene	19.379	126	77547	0.73	ppb	# 1
69) 4-ethyltoluene	19.515	105	327106	0.75	ppb	97
70) 1,3,5-trimethylbenzene	19.577	105	278279	0.74	ppb	99
71) 1,2,4-trimethylbenzene	20.076	105	274607	0.74	ppb	94
72) 1,3-dichlorobenzene	20.411	146	147479	0.75	ppb	99
73) benzyl chloride	20.484	91	177295	0.73	ppb	95
74) 1,4-dichlorobenzene	20.552	146	138292	0.73	ppb	96
75) 1,2,3-trimethylbenzene	20.598	105	279612	0.76	ppb	99
76) 1,2-dichlorobenzene	20.904	146	138411	0.74	ppb	96
77) 1,2,4-trichlorobenzene	22.973	180	41192	0.73	ppb	99
78) Naphthalene	23.177	128	155713	0.76	ppb	100
79) Hexachloro-1,3-butadiene	23.296	225	96914	0.75	ppb	93

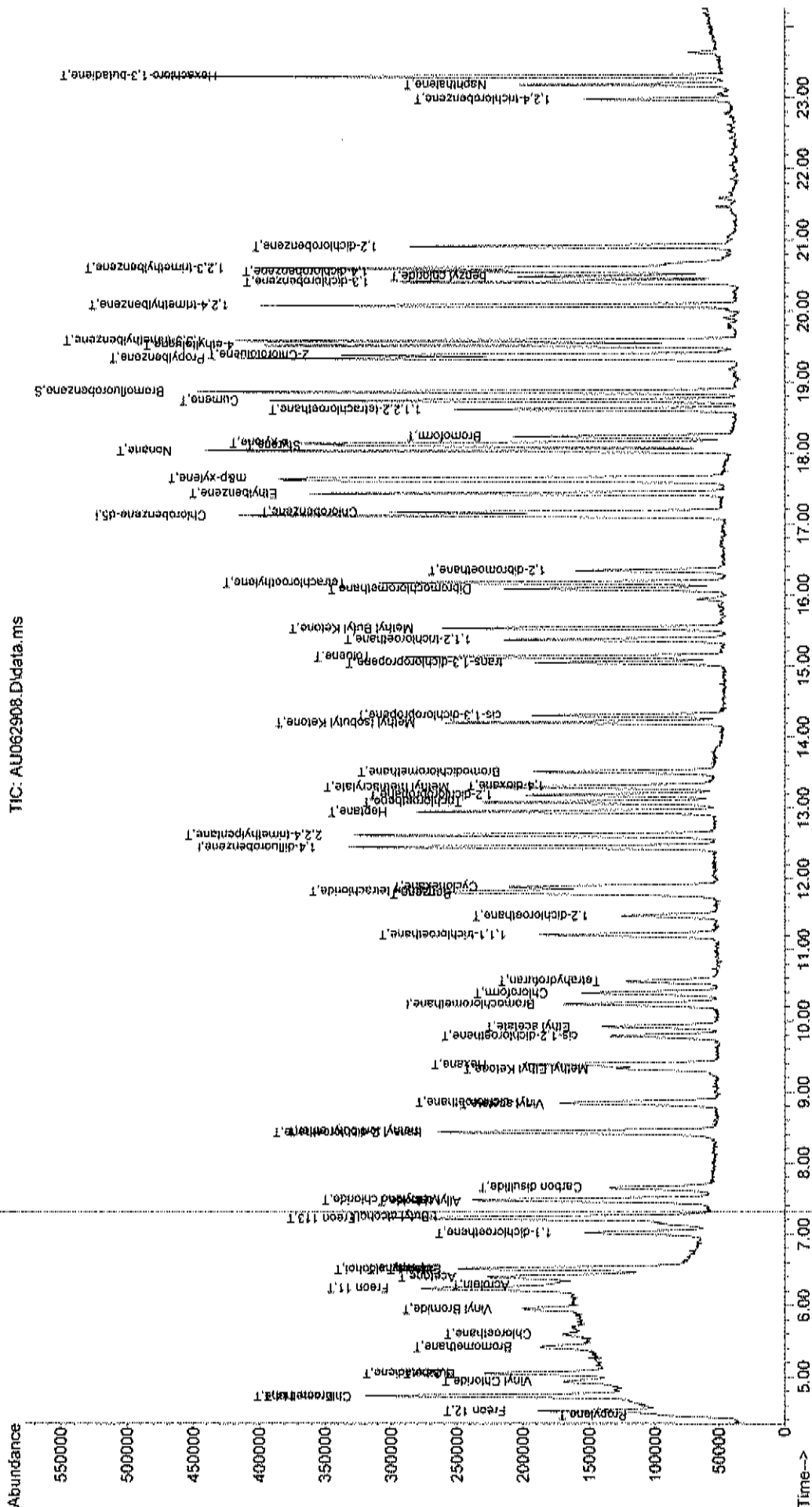
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
 Data File : AU062908.D
 Acq On : 29 Jun 2023 10:28 pm
 Operator : RJP
 Sample : A1UG 0.75
 Misc : A629_1UG
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 13:18:54 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 13:09:37 2023
 Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

TIC: AU062908.D\data.ms



Data Path : C:\msdchem\1\data2\
 Data File : AU062909.D
 Acq On : 29 Jun 2023 11:11 pm
 Operator : RJP
 Sample : A1UG_0.50
 Misc : A629_1UG
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 13:20:09 2023

Quant Method : C:\msdchem\1\methods\A629_1UG.M

Quant Title : TO-15 VOA Standards for 5 point calibration

QLast Update : Sat Jul 01 13:09:37 2023

Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

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

Internal Standards						
1) Bromochloromethane	10.228	128	53717	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.450	114	302392	1.00	ppb	0.00
50) Chlorobenzene-d5	17.111	117	255500	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.857	95	195387	1.00	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	100.00%

Target Compounds

						Qvalue
2) Propylene	4.456	41	39591m	0.51	ppb	
3) Freon 12	4.512	85	114389	0.52	ppb	100
4) Chloromethane	4.722	50	36363	0.51	ppb	99
5) Freon 114	4.734	85	94649	0.52	ppb	97
6) Vinyl Chloride	4.932	62	34958	0.52	ppb	97
7) Butane	5.040	43	46730	0.53	ppb	# 89
8) 1,3-butadiene	5.045	39	35819	0.52	ppb	88
9) Bromomethane	5.414	94	35280	0.52	ppb	99
10) Chloroethane	5.584	64	18406	0.50	ppb	# 78
11) Ethanol	6.508	45	82953	0.51	ppb	95
12) Acrolein	6.293	56	17401m	0.66	ppb	
13) Vinyl Bromide	5.941	106	38345	0.53	ppb	99
14) Freon 11	6.236	101	114893	0.52	ppb	97
15) Acetone	6.406	58	35159m	0.67	ppb	
16) Pentane	6.520	42	55127	0.53	ppb	97
17) Isopropyl alcohol	6.508	45	82953	0.51	ppb	95
18) 1,1-dichloroethene	7.013	96	39609	0.50	ppb	# 78
19) Freon 113	7.211	101	82443	0.50	ppb	97
20) t-Butyl alcohol	7.240	59	104192	0.52	ppb	# 89
21) Methylene chloride	7.478	84	72020	0.64	ppb	# 81
22) Allyl chloride	7.461	41	67812	0.50	ppb	86
23) Carbon disulfide	7.648	76	140238	0.55	ppb	98
24) trans-1,2-dichloroethene	8.425	61	64990	0.50	ppb	84
25) methyl tert-butyl ether	8.436	73	137840	0.51	ppb	89
26) 1,1-dichloroethane	8.855	63	82547	0.51	ppb	98
27) Vinyl acetate	8.833	43	115025	0.50	ppb	93
28) Methyl Ethyl Ketone	9.332	72	25008	0.50	ppb	# 37
29) cis-1,2-dichloroethene	9.785	61	63976	0.52	ppb	82
30) Hexane	9.388	57	79588	0.50	ppb	85
31) Ethyl acetate	9.921	43	112934	0.50	ppb	95
32) Chloroform	10.386	83	89134	0.50	ppb	99
33) Tetrahydrofuran	10.551	42	54142	0.52	ppb	87
34) 1,2-dichloroethane	11.475	62	68214	0.52	ppb	99
36) 1,1,1-trichloroethane	11.203	97	92509	0.52	ppb	100
37) Cyclohexane	11.883	56	74188	0.53	ppb	93
38) Carbon tetrachloride	11.826	117	98298	0.53	ppb	98
39) Benzene	11.792	78	135983	0.53	ppb	93
40) Methyl methacrylate	13.289	41	71421	0.52	ppb	# 79
41) 1,4-dioxane	13.318	88	36052	0.54	ppb	89
42) 2,2,4-trimethylpentane	12.614	57	232071	0.53	ppb	93
43) Heptane	12.943	43	89112	0.53	ppb	84
44) Trichloroethene	13.079	130	54617	0.52	ppb	93

Data Path : C:\msdchem\1\data2\
 Data File : AU062909.D
 Acq On : 29 Jun 2023 11:11 pm
 Operator : RJP
 Sample : A1UG_0.50
 Misc : A629_1UG
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 13:20:09 2023

Quant Method : C:\msdchem\1\methods\A629_1UG.M

Quant Title : TO-15 VOA Standards for 5 point calibration

QLast Update : Sat Jul 01 13:09:37 2023

Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

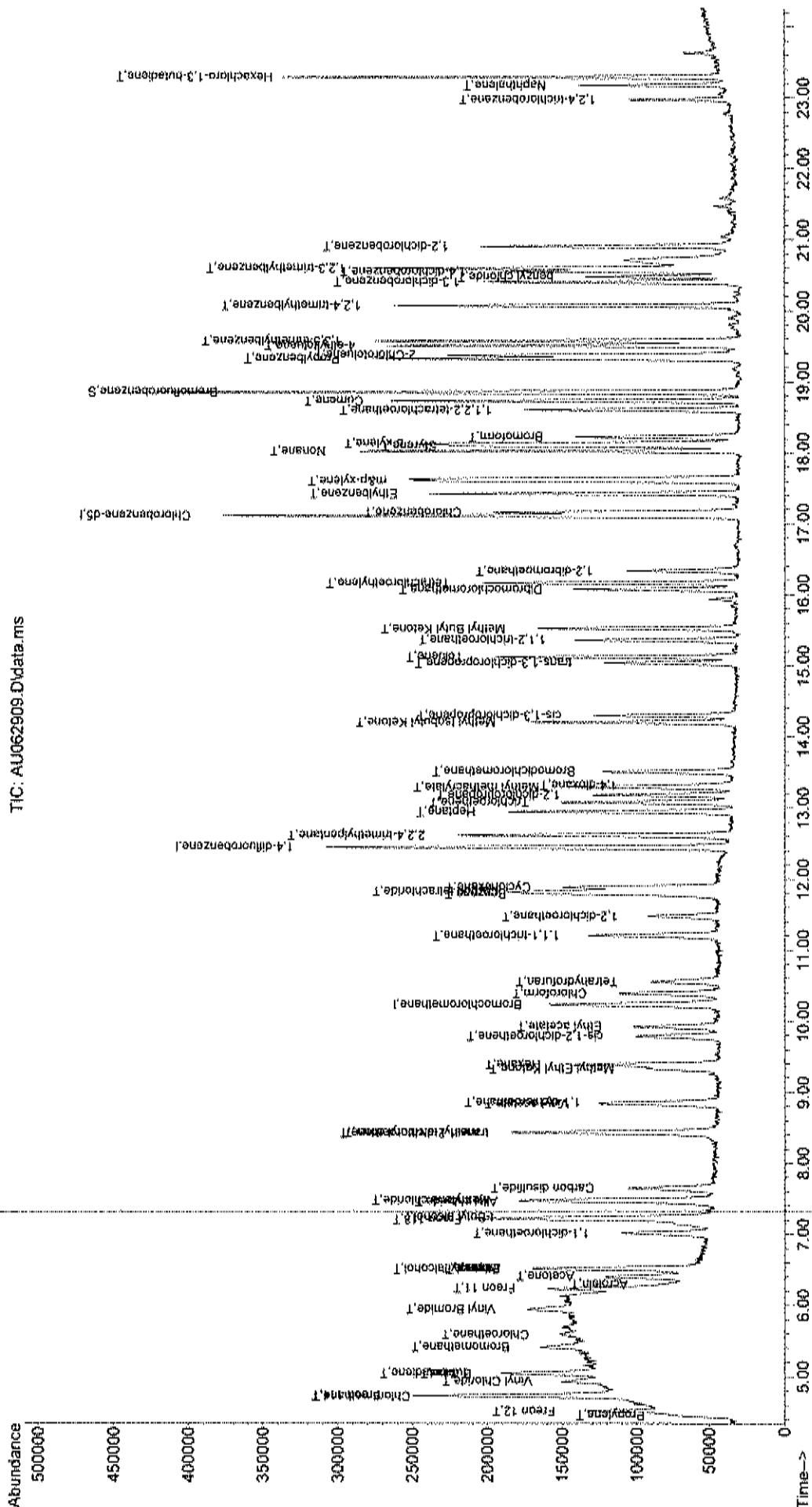
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.176	63	51223	0.54	ppb	99
46) Bromodichloromethane	13.510	83	87919	0.52	ppb	98
47) cis-1,3-dichloropropene	14.293	75	79343	0.52	ppb	96
48) trans-1,3-dichloropropene	15.041	75	74832	0.52	ppb	93
49) 1,1,2-trichloroethane	15.364	97	47657	0.51	ppb	100
51) Toluene	15.126	92	93396	0.52	ppb	98
52) Methyl Isobutyl Ketone	14.202	43	131234	0.52	ppb	92
53) Dibromochloromethane	16.073	129	81417	0.52	ppb	99
54) Methyl Butyl Ketone	15.523	43	130804	0.51	ppb	88
55) 1,2-dibromoethane	16.334	107	72839	0.52	ppb	99
56) Tetrachloroethylene	16.164	164	52486	0.52	ppb	98
57) Chlorobenzene	17.162	112	117189	0.52	ppb	90
58) Ethylbenzene	17.422	91	201273	0.51	ppb	96
59) m&p-xylene	17.604	91	322277	1.04	ppb	92
60) Nonane	18.023	43	126544	0.52	ppb	87
61) Styrene	18.097	104	119176	0.50	ppb	79
62) Bromoform	18.227	173	70849	0.50	ppb	99
63) o-xylene	18.137	91	164678	0.52	ppb	92
64) Cumene	18.738	105	211277	0.52	ppb	95
66) 1,1,2,2-tetrachloroethane	18.607	83	99903	0.53	ppb	98
67) Propylbenzene	19.327	120	58419	0.52	ppb	81
68) 2-Chlorotoluene	19.378	126	50878	0.51	ppb	# 1
69) 4-ethyltoluene	19.509	105	214959	0.53	ppb	96
70) 1,3,5-trimethylbenzene	19.577	105	181691	0.51	ppb	99
71) 1,2,4-trimethylbenzene	20.076	105	178403	0.51	ppb	95
72) 1,3-dichlorobenzene	20.410	146	95355	0.51	ppb	99
73) benzyl chloride	20.478	91	106623	0.47	ppb	100
74) 1,4-dichlorobenzene	20.552	146	86416	0.48	ppb	97
75) 1,2,3-trimethylbenzene	20.597	105	185614	0.53	ppb	98
76) 1,2-dichlorobenzene	20.904	146	89279	0.51	ppb	99
77) 1,2,4-trichlorobenzene	22.973	180	26623	0.50	ppb	97
78) Naphthalene	23.177	128	94076	0.49	ppb	99
79) Hexachloro-1,3-butadiene	23.296	225	64801	0.53	ppb	92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
 Data File : AU062909.D
 Acq On : 29 Jun 2023 11:11 pm
 Operator : RJP
 Sample : A1UG 0.50
 Misc : A629_1UG
 ALS Vial : 8 Sample Multiplier: 1
 Quant Time: Jul 01 13:20:09 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 13:09:37 2023
 Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

TIC: AU062909.D\data.ms



Data Path : C:\msdchem\1\data2\
Data File : AU062910.D
Acq On : 29 Jun 2023 11:52 pm
Operator : RJP
Sample : A1UG_0.30
Misc : A629_1UG
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 13:20:50 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Sat Jul 01 13:09:37 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.233	128	52408	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.450	114	304227	1.00	ppb	0.00
50) Chlorobenzene-d5	17.116	117	251329	1.00	ppb	0.00

System Monitoring Compounds						
65) Bromofluorobenzene	18.857	95	188725	0.98	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	98.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.461	41	21753m	0.29	ppb	
3) Freon 12	4.518	85	66514	0.31	ppb	100
4) Chloromethane	4.728	50	21298	0.31	ppb	97
5) Freon 114	4.728	85	55642	0.31	ppb	94
6) Vinyl Chloride	4.932	62	20446	0.31	ppb	96
7) Butane	5.040	43	26769	0.31	ppb	89
8) 1,3-butadiene	5.051	39	21431	0.32	ppb	92
9) Bromomethane	5.414	94	20561	0.31	ppb	94
10) Chloroethane	5.595	64	10991	0.31	ppb	# 83
11) Ethanol	6.503	45	52000	0.33	ppb	89
12) Acrolein	6.298	56	8941	0.35	ppb	95
13) Vinyl Bromide	5.953	106	22811	0.32	ppb	96
14) Freon 11	6.236	101	66051	0.30	ppb	94
15) Acetone	6.400	58	22111m	0.43	ppb	
16) Pentane	6.508	42	32263	0.32	ppb	96
17) Isopropyl alcohol	6.503	45	52000	0.33	ppb	89
18) 1,1-dichloroethene	7.013	96	23716	0.31	ppb	# 82
19) Freon 113	7.217	101	47889	0.30	ppb	96
20) t-Butyl alcohol	7.245	59	60182	0.30	ppb	# 83
21) Methylene chloride	7.478	84	54801	0.50	ppb	# 83
22) Allyl chloride	7.466	41	40225	0.31	ppb	88
23) Carbon disulfide	7.648	76	93695	0.38	ppb	98
24) trans-1,2-dichloroethene	8.425	61	37215	0.30	ppb	90
25) methyl tert-butyl ether	8.436	73	81744	0.31	ppb	90
26) 1,1-dichloroethane	8.855	63	48069	0.31	ppb	98
27) Vinyl acetate	8.833	43	67616	0.30	ppb	93
28) Methyl Ethyl Ketone	9.332	72	14401	0.30	ppb	# 1
29) cis-1,2-dichloroethene	9.785	61	36848	0.31	ppb	83
30) Hexane	9.388	57	47042	0.30	ppb	# 81
31) Ethyl acetate	9.921	43	66431	0.30	ppb	96
32) Chloroform	10.392	83	51964	0.30	ppb	100
33) Tetrahydrofuran	10.556	42	32169	0.31	ppb	84
34) 1,2-dichloroethane	11.481	62	38486	0.30	ppb	98
36) 1,1,1-trichloroethane	11.203	97	55049	0.31	ppb	100
37) Cyclohexane	11.889	56	42954	0.31	ppb	90
38) Carbon tetrachloride	11.826	117	55357	0.30	ppb	99
39) Benzene	11.792	78	78865	0.31	ppb	92
40) Methyl methacrylate	13.289	41	42527	0.31	ppb	# 79
41) 1,4-dioxane	13.318	88	20816	0.31	ppb	81
42) 2,2,4-trimethylpentane	12.614	57	135377	0.31	ppb	92
43) Heptane	12.943	43	51664	0.30	ppb	85
44) Trichloroethene	13.079	130	33409	0.31	ppb	93

Data Path : C:\msdchem\1\data2\
 Data File : AU062910.D
 Acq On : 29 Jun 2023 11:52 pm
 Operator : RJP
 Sample : A1UG_0.30
 Misc : A629_1UG
 ALS Vial : 9 Sample Multiplier: 1

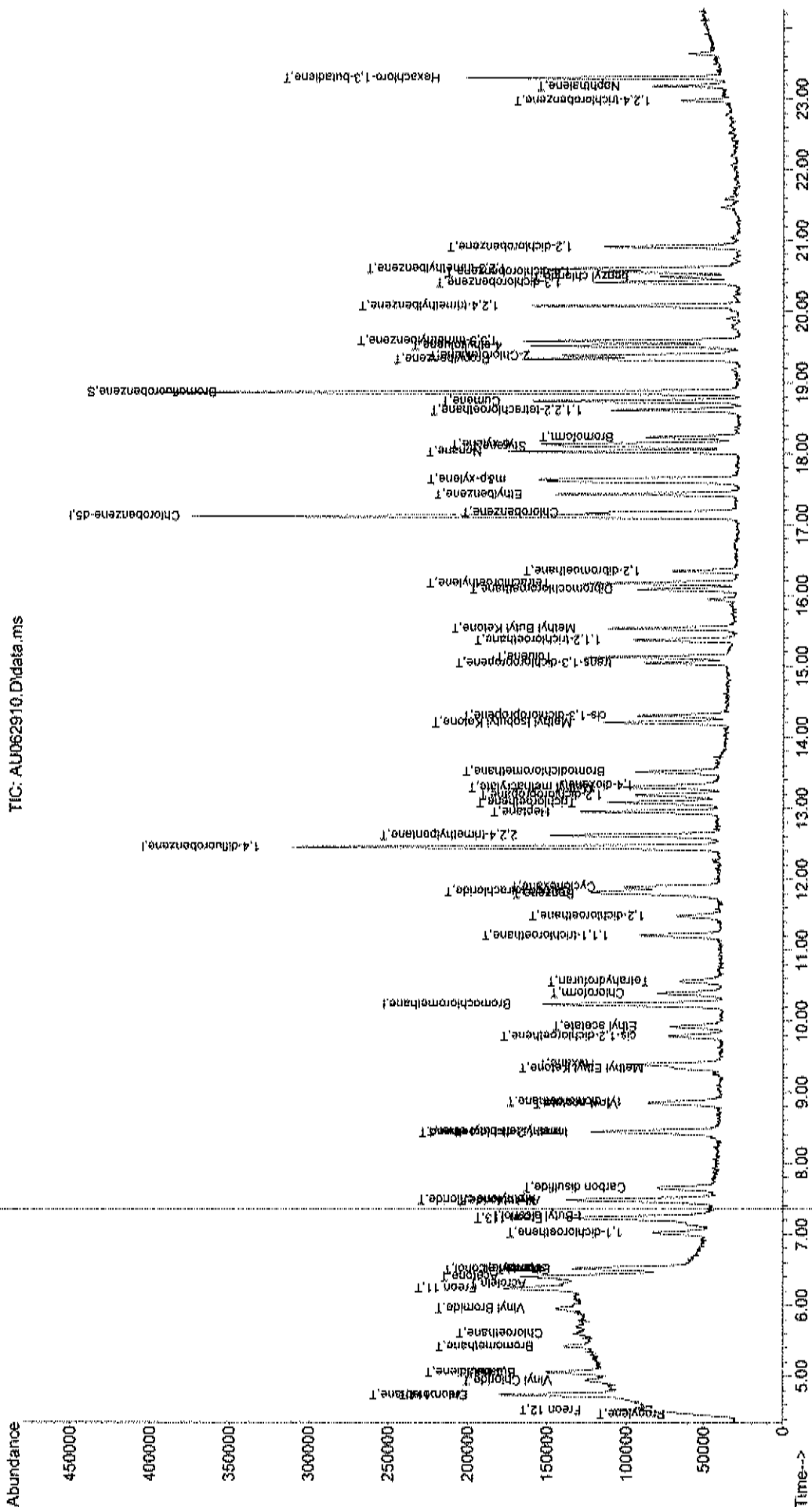
Quant Time: Jul 01 13:20:50 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 13:09:37 2023
 Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.181	63	30179	0.31	ppb	99
46) Bromodichloromethane	13.510	83	50963	0.30	ppb	99
47) cis-1,3-dichloropropene	14.293	75	44782	0.29	ppb	97
48) trans-1,3-dichloropropene	15.041	75	42502	0.29	ppb	93
49) 1,1,2-trichloroethane	15.364	97	28577	0.30	ppb	100
51) Toluene	15.126	92	52236	0.30	ppb	93
52) Methyl Isobutyl Ketone	14.202	43	76945	0.31	ppb	91
53) Dibromochloromethane	16.084	129	46012	0.30	ppb	100
54) Methyl Butyl Ketone	15.529	43	76943	0.31	ppb	86
55) 1,2-dibromoethane	16.339	107	41125	0.30	ppb	97
56) Tetrachloroethylene	16.169	164	30261	0.30	ppb	97
57) Chlorobenzene	17.167	112	65017	0.30	ppb	89
58) Ethylbenzene	17.422	91	114367	0.30	ppb	94
59) m&p-xylene	17.632	91	180391	0.59	ppb	92
60) Nonane	18.029	43	70920	0.30	ppb	89
61) Styrene	18.103	104	68277	0.29	ppb	81
62) Bromoform	18.227	173	39440	0.28	ppb	100
63) o-xylene	18.131	91	93366	0.30	ppb	93
64) Cumene	18.738	105	119998	0.30	ppb	95
66) 1,1,2,2-tetrachloroethane	18.607	83	55545	0.30	ppb	99
67) Propylbenzene	19.327	120	32796	0.29	ppb	80
68) 2-Chlorotoluene	19.378	126	28346	0.29	ppb	# 1
69) 4-ethyltoluene	19.515	105	118836	0.30	ppb	95
70) 1,3,5-trimethylbenzene	19.583	105	102975	0.30	ppb	99
71) 1,2,4-trimethylbenzene	20.076	105	102934	0.30	ppb	92
72) 1,3-dichlorobenzene	20.405	146	49898	0.27	ppb	97
73) benzyl chloride	20.484	91	53822	0.24	ppb	96
74) 1,4-dichlorobenzene	20.552	146	46776	0.27	ppb	96
75) 1,2,3-trimethylbenzene	20.597	105	99695	0.29	ppb	97
76) 1,2-dichlorobenzene	20.904	146	47307	0.27	ppb	100
77) 1,2,4-trichlorobenzene	22.973	180	11530	0.22	ppb	99
78) Naphthalene	23.177	128	45050	0.24	ppb	99
79) Hexachloro-1,3-butadiene	23.296	225	35990	0.30	ppb	92

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

Quant Time: Jul 01 13:20:50 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
Quant Update : Sat Jul 01 13:09:37 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

TIC: AU062910.D\data.ms



Data Path : C:\msdchem\1\data2\
 Data File : AU062911.D
 Acq On : 30 Jun 2023 12:35 am
 Operator : RJP
 Sample : A1UG_0.15
 Misc : A629_1UG
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 13:21:35 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 13:09:37 2023
 Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.233	128	51462	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.445	114	290952	1.00	ppb	0.00
50) Chlorobenzene-d5	17.111	117	242842	1.00	ppb	0.00

System Monitoring Compounds						
65) Bromofluorobenzene	18.851	95	179783	0.97	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	97.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.450	41	10903m	0.15	ppb	
3) Freon 12	4.518	85	32900	0.16	ppb	100
4) Chloromethane	4.728	50	11194	0.16	ppb	91
5) Freon 114	4.728	85	26270	0.15	ppb	93
6) Vinyl Chloride	4.932	62	10484	0.16	ppb	92
7) Butane	5.046	43	13949	0.17	ppb	# 76
8) 1,3-butadiene	5.046	39	10251m	0.15	ppb	
9) Bromomethane	5.420	94	9407	0.14	ppb	84
10) Chloroethane	5.596	64	5842	0.17	ppb	92
11) Ethanol	6.503	45	26302	0.17	ppb	# 83
12) Acrolein	6.287	56	3896m	0.15	ppb	
13) Vinyl Bromide	5.947	106	10468	0.15	ppb	93
14) Freon 11	6.231	101	32238	0.15	ppb	98
15) Acetone	6.406	58	13029m	0.26	ppb	
16) Pentane	6.514	42	14374m	0.14	ppb	
17) Isopropyl alcohol	6.503	45	26302	0.17	ppb	# 83
18) 1,1-dichloroethene	7.013	96	11516	0.15	ppb	# 83
19) Freon 113	7.211	101	22647	0.14	ppb	94
20) t-Butyl alcohol	7.245	59	28164	0.15	ppb	# 77
21) Methylene chloride	7.478	84	30657m	0.28	ppb	
22) Allyl chloride	7.455	41	20061	0.15	ppb	85
23) Carbon disulfide	7.648	76	58613	0.24	ppb	96
24) trans-1,2-dichloroethene	8.425	61	18096	0.15	ppb	85
25) methyl tert-butyl ether	8.436	73	38700	0.15	ppb	78
26) 1,1-dichloroethane	8.856	63	23217	0.15	ppb	97
27) Vinyl acetate	8.827	43	34717	0.16	ppb	93
28) Methyl Ethyl Ketone	9.338	72	7493	0.16	ppb	# 52
29) cis-1,2-dichloroethene	9.791	61	18212	0.15	ppb	85
30) Hexane	9.389	57	22115	0.14	ppb	84
31) Ethyl acetate	9.922	43	31498	0.14	ppb	94
32) Chloroform	10.392	83	25064	0.15	ppb	98
33) Tetrahydrofuran	10.557	42	15967	0.16	ppb	85
34) 1,2-dichloroethane	11.475	62	18958	0.15	ppb	98
36) 1,1,1-trichloroethane	11.197	97	26134	0.15	ppb	97
37) Cyclohexane	11.883	56	19679	0.15	ppb	89
38) Carbon tetrachloride	11.821	117	25541	0.14	ppb	96
39) Benzene	11.787	78	35556	0.14	ppb	89
40) Methyl methacrylate	13.289	41	20991	0.16	ppb	# 74
41) 1,4-dioxane	13.318	88	10178	0.16	ppb	77
42) 2,2,4-trimethylpentane	12.615	57	60218	0.14	ppb	88
43) Heptane	12.949	43	24164	0.15	ppb	87
44) Trichloroethene	13.074	130	16071	0.16	ppb	90

Data Path : C:\msdchem\1\data2\
 Data File : AU062911.D
 Acq On : 30 Jun 2023 12:35 am
 Operator : RJP
 Sample : A1UG_0.15
 Misc : A629_1UG
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 13:21:35 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 13:09:37 2023
 Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.182	63	13875	0.15	ppb	90
46) Bromodichloromethane	13.505	83	23665	0.15	ppb	99
47) cis-1,3-dichloropropene	14.299	75	20904	0.14	ppb	98
48) trans-1,3-dichloropropene	15.041	75	18748	0.13	ppb	94
49) 1,1,2-trichloroethane	15.365	97	13959	0.16	ppb	98
51) Toluene	15.126	92	25610	0.15	ppb	99
52) Methyl Isobutyl Ketone	14.202	43	35337	0.15	ppb	92
53) Dibromochloromethane	16.079	129	21959	0.15	ppb	97
54) Methyl Butyl Ketone	15.529	43	32885	0.14	ppb	92
55) 1,2-dibromoethane	16.340	107	18700	0.14	ppb	97
56) Tetrachloroethylene	16.170	164	14460	0.15	ppb	98
57) Chlorobenzene	17.167	112	30850	0.14	ppb	# 82
58) Ethylbenzene	17.423	91	53141	0.14	ppb	96
59) m&p-xylene	17.632	91	84267	0.29	ppb	91
60) Nonane	18.029	43	35402	0.15	ppb	84
61) Styrene	18.103	104	30714	0.14	ppb	82
62) Bromoform	18.228	173	18103	0.13	ppb	98
63) o-xylene	18.131	91	43551	0.15	ppb	94
64) Cumene	18.738	105	55585	0.14	ppb	96
66) 1,1,2,2-tetrachloroethane	18.613	83	25148	0.14	ppb	98
67) Propylbenzene	19.328	120	15318	0.14	ppb	83
68) 2-Chlorotoluene	19.373	126	13032	0.14	ppb	# 74
69) 4-ethyltoluene	19.509	105	53409	0.14	ppb	96
70) 1,3,5-trimethylbenzene	19.577	105	50616	0.15	ppb	95
71) 1,2,4-trimethylbenzene	20.076	105	48055	0.14	ppb	92
72) 1,3-dichlorobenzene	20.405	146	21965	0.12	ppb	99
73) benzyl chloride	20.484	91	25755m	0.12	ppb	
74) 1,4-dichlorobenzene	20.558	146	19365m	0.11	ppb	
75) 1,2,3-trimethylbenzene	20.598	105	47981	0.15	ppb	96
76) 1,2-dichlorobenzene	20.904	146	20283	0.12	ppb	98
77) 1,2,4-trichlorobenzene	22.979	180	5268	0.10	ppb	94
78) Naphthalene	23.177	128	20660m	0.11	ppb	
79) Hexachloro-1,3-butadiene	23.296	225	16977	0.15	ppb	89

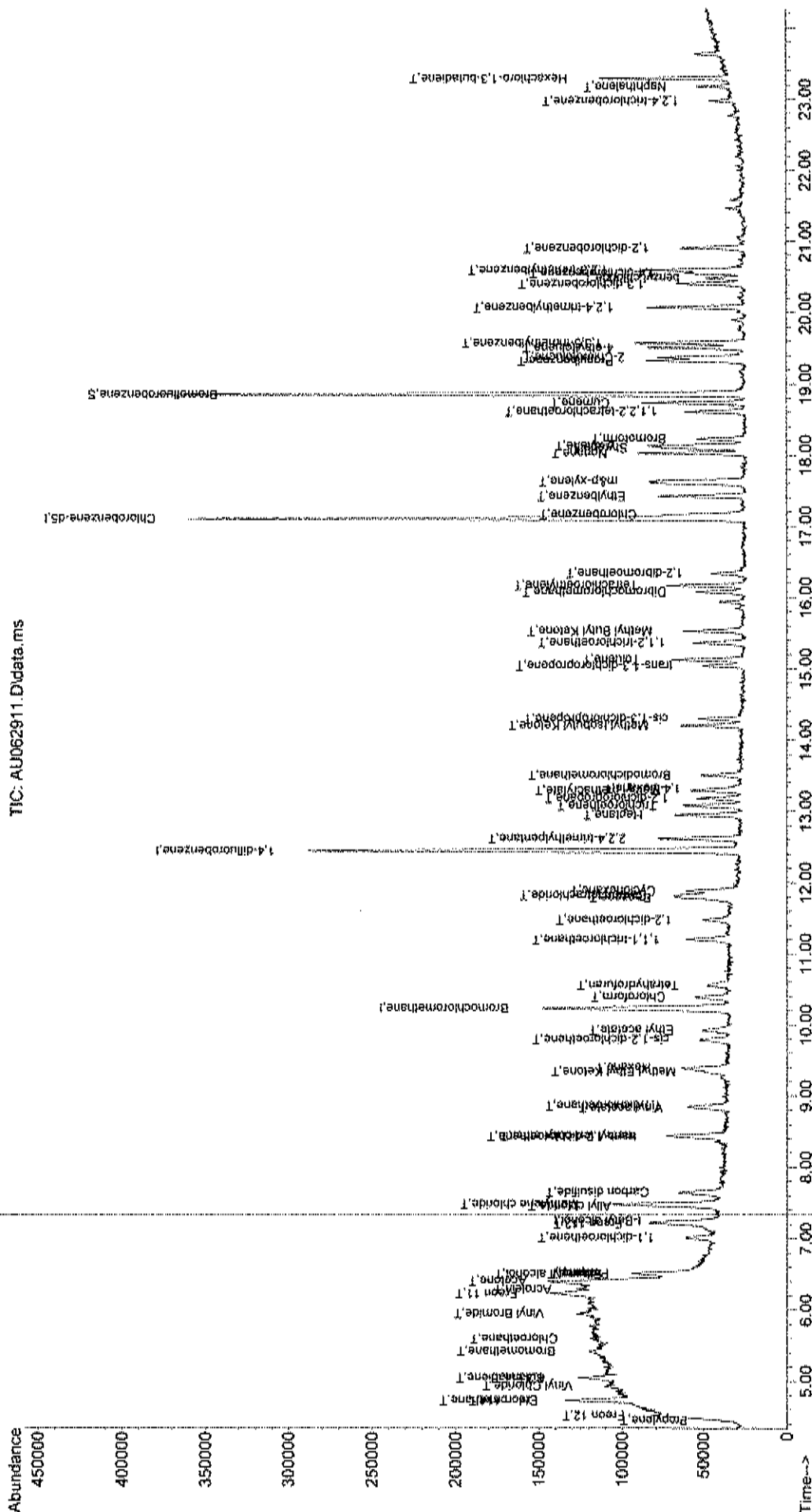
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QF Reviewed)

Data Path : C:\msdchem\1\data2\
 Data File : AU062911.D
 Acq On : 30 Jun 2023 12:35 am
 Operator : RJP
 Sample : A1UG 0.15
 Misc : A629_1UG
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 13:21:35 2023
 Quant Method : C:\msdchem\1\methods\A629 1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 13:09:37 2023
 Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

TIC: AU062911.D\data.ms



Data Path : C:\msdchem\1\data2\
 Data File : AU062912.D
 Acq On : 30 Jun 2023 1:17 am
 Operator : RJP
 Sample : A1UG_0.10
 Misc : A629_1UG
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 01 13:22:36 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 13:09:37 2023
 Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

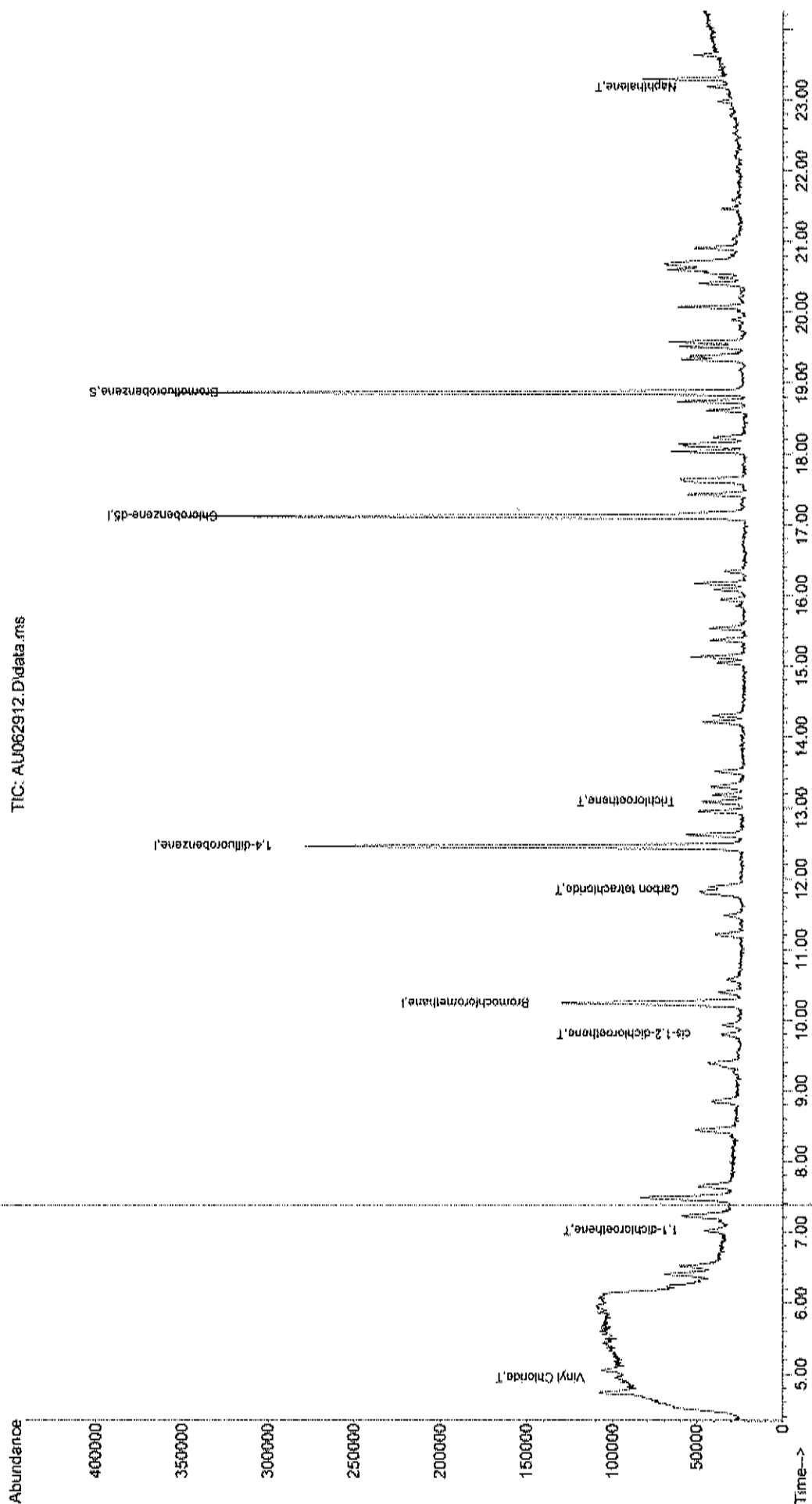
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	10.233	128	48664	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.450	114	285440	1.00	ppb	0.00
50) Chlorobenzene-d5	17.111	117	238182	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.857	95	171947	0.95	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	95.00%
Target Compounds						
6) Vinyl Chloride	4.943	62	6241m /	0.10	ppb	Qvalue
18) 1,1-dichloroethene	7.019	96	7653	0.11	ppb	# 83
29) cis-1,2-dichloroethene	9.791	61	11762	0.11	ppb	# 79
38) Carbon tetrachloride	11.838	117	16716	0.10	ppb	98
44) Trichloroethene	13.085	130	10444	0.10	ppb	# 84
78) Naphthalene	23.183	128	13171m /	0.07	ppb	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU062912.D
Acq On : 30 Jun 2023 1:17 am
Operator : RJP
Sample : A1UG 0.10
Misc : A629_1UG
ALS Vial : 11 Sample Multiplier: 1
Quant Time: Jul 01 13:22:36 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
Qlast Update : Sat Jul 01 13:09:37 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D



Data Path : C:\msdchem\1\data2\
Data File : AU062913.D
Acq On : 30 Jun 2023 1:59 am
Operator : RJP
Sample : A1UG_0.04
Misc : A629_1UG
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 01 13:24:06 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Sat Jul 01 13:09:37 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

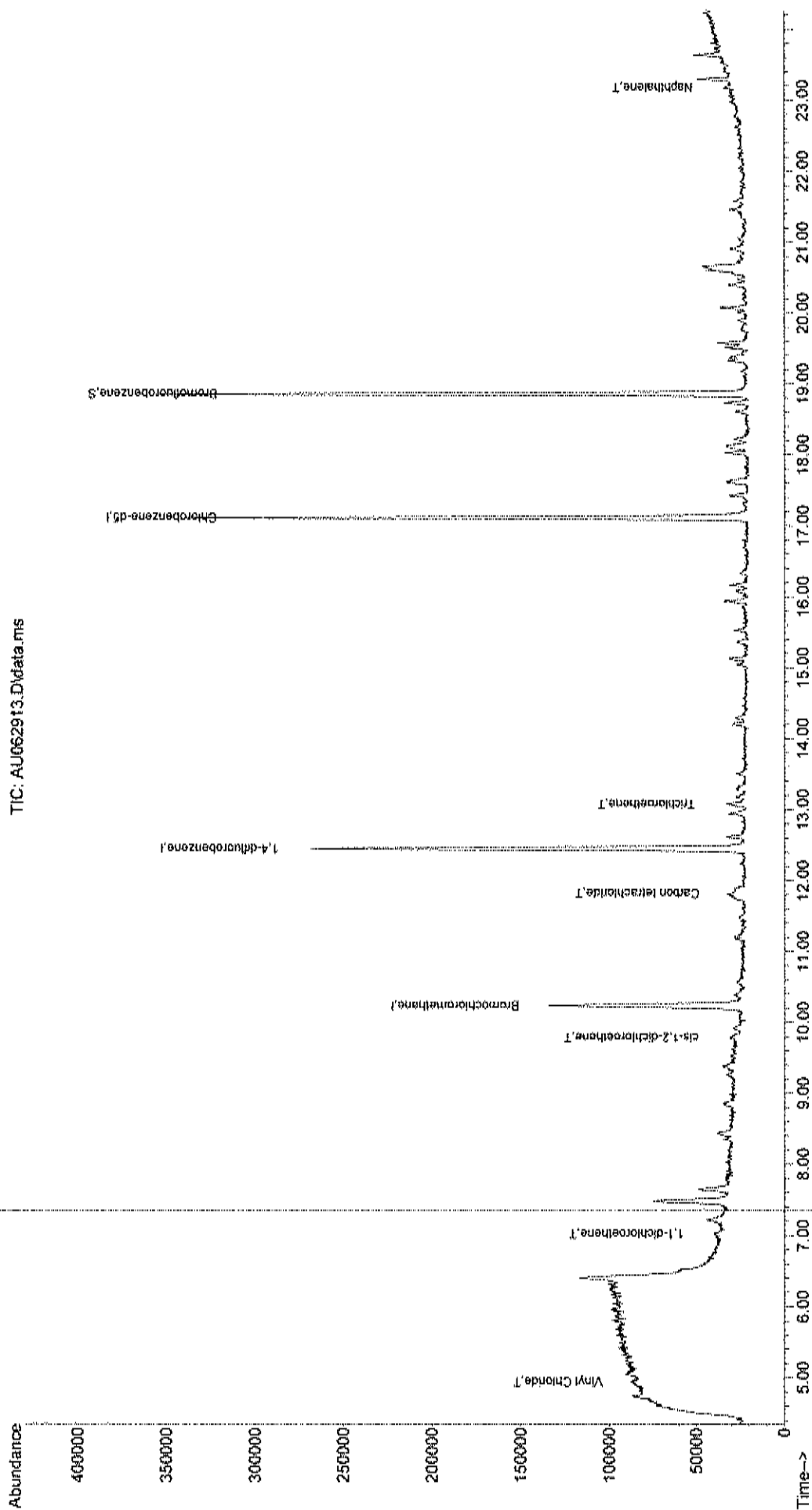
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	10.228	128	48450	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.444	114	276821	1.00	ppb	0.00
50) Chlorobenzene-d5	17.111	117	231006	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.857	95	170134	0.97	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	97.00%
Target Compounds						
6) Vinyl Chloride	4.938	62	1914m	0.03	ppb	Qvalue
18) 1,1-dichloroethene	7.018	96	3037	0.04	ppb	91
29) cis-1,2-dichloroethene	9.780	61	4039	0.04	ppb	98
38) Carbon tetrachloride	11.821	117	5367m	0.03	ppb	
44) Trichloroethene	13.074	130	4630	0.05	ppb	# 88
78) Naphthalene	23.177	128	5057	0.03	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data2\
Data File : AU062913.D
Acq On : 30 Jun 2023 1:59 am
Operator : RJP
Sample : A1UG 0.04
Misc : A629_1UG
ALS Vial : 12 Sample Multiplier: 1
Quant Time: Jul 01 13:24:06 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Sat Jul 01 13:09:37 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D



Data Path : C:\msdchem\1\data2\
Data File : AU062914.D
Acq On : 30 Jun 2023 2:41 am
Operator : RJP
Sample : A1UG_0.03
Misc : A629_1UG
ALS Vial : 13 Sample Multiplier: 1

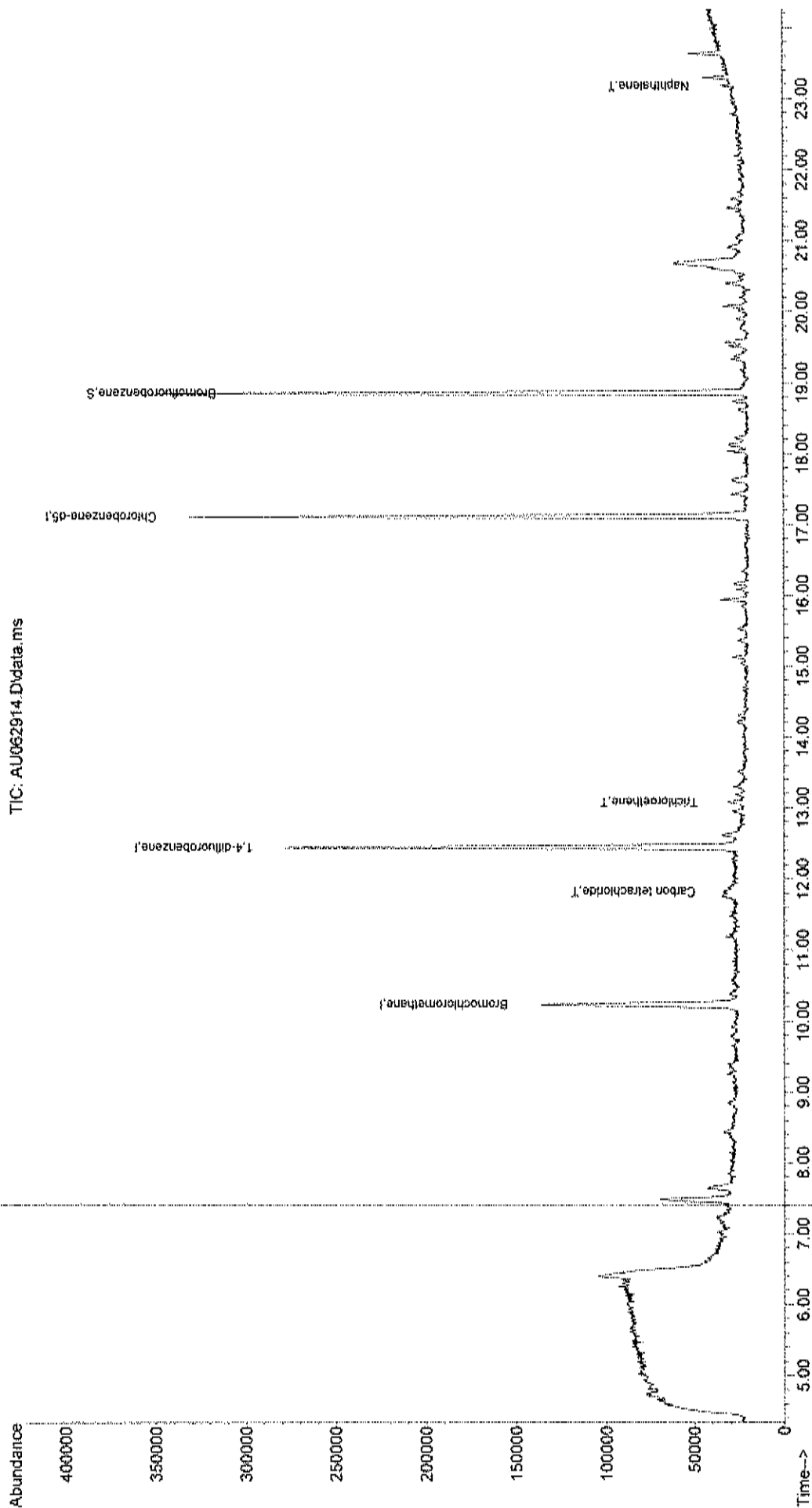
Quant Time: Jul 01 13:24:32 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Sat Jul 01 13:09:37 2023
Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D

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

Internal Standards						
1) Bromochloromethane	10.233	128	48995	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.444	114	279693	1.00	ppb	0.00
50) Chlorobenzene-d5	17.111	117	228188	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.857	95	164259	0.94	ppb	0.00
Spiked Amount	1.000	Range	70 ~ 130	Recovery	=	94.00%
Target Compounds						
38) Carbon tetrachloride	11.821	117	4256m	0.03	ppb	Qvalue
44) Trichloroethene	13.079	130	3948	0.04	ppb	# 88
78) Naphthalene	23.177	128	3814	0.02	ppb	89

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

Data Path : C:\msdchem\1\data2\
 Data File : AU062914.D
 Acq On : 30 Jun 2023 2:41 am
 Operator : RJP
 Sample : A1UG 0.03
 Misc : A629_1UG
 ALS Vial : 13 Sample Multiplier: 1
 Quant Time: Jul 01 13:24:32 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 Quant Update : Sat Jul 01 13:09:37 2023
 Response via : Continuing Cal File: C:\msdchem\1\data\AU062907.D



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Data Path : C:\msdchem\1\data\
 Data File : AU070502.D
 Acq On : 5 Jul 2023 6:51 am
 Operator : RJP
 Sample : A1UG_1.0
 Misc : A629_1UG
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 05 07:19:13 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 14:27:33 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	112	-0.31
2 T	Propylene	1.438	1.223	15.0	94	-0.22
3 T	Freon 12	4.123	4.629	-12.3	127	-0.22
4 T	Chloromethane	1.310	1.480	-13.0	128	-0.23
5 T	Freon 114	3.397	4.273	-25.8	142	-0.23
6 T	Vinyl Chloride	1.239	1.506	-21.5	133	-0.23
7 T	Butane	1.660	1.878	-13.1	128	-0.23
8 T	1,3-butadiene	1.296	1.417	-9.3	122	-0.23
9 T	Bromomethane	1.248	1.569	-25.7	139	-0.26
10 T	Chloroethane	0.686	0.802	-16.9	131	-0.26
11 T	Ethanol	3.059	2.262	26.1	86	-0.27
12 T	Acrolein	0.534	0.580	-8.6	133	-0.27
13 T	Vinyl Bromide	1.358	1.605	-18.2	133	-0.27
14 T	Freon 11	4.126	4.534	-9.9	122	-0.27
15 T	Acetone	1.181	1.102	6.7	128	-0.27
16 T	Pentane	1.962	1.787	8.9	103	-0.27
17 T	Isopropyl alcohol	3.059	2.262	26.1	86	-0.27
18 T	1,1-dichloroethene	1.496	1.415	5.4	108	-0.28
19 T	Freon 113	3.043	3.311	-8.8	121	-0.28
20 t	t-Butyl alcohol	3.731	2.635	29.4	78	-0.29
21 T	Methylene chloride	2.519	1.963	22.1	106	-0.29
22 T	Allyl chloride	2.501	1.911	23.6	85	-0.28
23 T	Carbon disulfide	5.264	4.929	6.4	116	-0.30
24 T	trans-1,2-dichloroethene	2.365	2.191	7.4	102	-0.30
25 T	methyl tert-butyl ether	5.051	3.561	29.5	80	-0.30
26 T	1,1-dichloroethane	3.034	2.910	4.1	109	-0.31
27 T	Vinyl acetate	4.339	3.728	14.1	97	-0.31
28 T	Methyl Ethyl Ketone	0.941	0.807	14.2	97	-0.30
29 T	cis-1,2-dichloroethene	2.305	2.011	12.8	98	-0.31
30 T	Hexane	2.978	2.467	17.2	93	-0.30
31 T	Ethyl acetate	4.193	3.282	21.7	86	-0.30
32 T	Chloroform	3.294	3.340	-1.4	112	-0.31
33 T	Tetrahydrofuran	1.997	1.506	24.6	86	-0.31
34 T	1,2-dichloroethane	2.439	2.379	2.5	109	-0.29
35 I	1,4-difluorobenzene	1.000	1.000	0.0	90	-0.27
36 T	1,1,1-trichloroethane	0.586	0.643	-9.7	99	-0.31
37 T	Cyclohexane	0.463	0.434	6.3	85	-0.29
38 T	Carbon tetrachloride	0.584	0.676	-15.8	100	-0.29
39 T	Benzene	0.849	0.958	-12.8	102	-0.30
40 T	Methyl methacrylate	0.461	0.396	14.1	79	-0.26
41 T	1,4-dioxane	0.227	0.250	-10.1	102	-0.27
42 T	2,2,4-trimethylpentane	1.463	1.492	-2.0	93	-0.27
43 T	Heptane	0.562	0.521	7.3	84	-0.27
44 T	Trichloroethene	0.372	0.430	-15.6	111	-0.27
45 T	1,2-dichloropropane	0.322	0.355	-10.2	101	-0.27
46 T	Bromodichloromethane	0.553	0.681	-23.1	111	-0.27
47 T	cis-1,3-dichloropropene	0.500	0.502	-0.4	90	-0.25

Data Path : C:\msdchem\1\data\
 Data File : AU070502.D
 Acq On : 5 Jul 2023 6:51 am
 Operator : RJP
 Sample : A1UG_1.0
 Misc : A629_1UG
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 05 07:19:13 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 14:27:33 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRRF	CCRF	%Dev	Area%	Dev(min)
48 T	trans-1,3-dichloropropene	0.472	0.398	15.7	75	-0.24
49 T	1,1,2-trichloroethane	0.310	0.385	-24.2	112	-0.25
50 I	Chlorobenzene-d5	1.000	1.000	0.0	96	-0.24
51 T	Toluene	0.702	0.721	-2.7	99	-0.25
52 T	Methyl Isobutyl Ketone	0.985	0.854	13.3	83	-0.25
53 T	Dibromochloromethane	0.619	0.703	-13.6	110	-0.25
54 T	Methyl Butyl Ketone	0.986	0.862	12.6	83	-0.24
55 T	1,2-dibromoethane	0.545	0.612	-12.3	108	-0.25
56 T	Tetrachloroethylene	0.398	0.472	-18.6	115	-0.24
57 T	Chlorobenzene	0.876	0.984	-12.3	108	-0.24
58 T	Ethylbenzene	1.527	1.484	2.8	93	-0.23
59 T	m&p-xylene	1.210	1.272	-5.1	101	-0.23
60 T	Nonane	0.957	0.847	11.5	86	-0.23
61 T	Styrene	0.917	1.040	-13.4	108	-0.23
62 T	Bromoform	0.547	0.629	-15.0	108	-0.24
63 T	o-xylene	1.238	1.423	-14.9	111	-0.23
64 T	Cumene	1.593	1.541	3.3	93	-0.23
65 S	Bromofluorobenzene	0.753	0.798	-6.0	101	-0.23
66 T	1,1,2,2-tetrachloroethane	0.742	0.878	-18.3	115	-0.23
67 T	Propylbenzene	0.442	0.449	-1.6	98	-0.23
68 T	2-Chlorotoluene	0.384	0.453	-18.0	112	-0.24
69 T	4-ethyltoluene	1.622	1.766	-8.9	104	-0.23
70 T	1,3,5-trimethylbenzene	1.386	1.569	-13.2	109	-0.23
71 T	1,2,4-trimethylbenzene	1.369	1.320	3.6	93	-0.23
72 T	1,3-dichlorobenzene	0.720	0.886	-23.1	117	-0.23
73 T	benzyl chloride	0.873	0.513	41.2#	56	-0.23
74 T	1,4-dichlorobenzene	0.678	0.842	-24.2	117	-0.23
75 T	1,2,3-trimethylbenzene	1.370	1.426	-4.1	101	-0.23
76 T	1,2-dichlorobenzene	0.677	0.828	-22.3	116	-0.23
77 T	1,2,4-trichlorobenzene	0.214	0.232	-8.4	107	-0.22
78 T	Naphthalene	0.712	0.659	7.4	84	-0.23
79 T	Hexachloro-1,3-butadiene	0.488	0.629	-28.9	127	-0.22

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : C:\msdchem\1\data\
 Data File : AU070502.D
 Acq On : 5 Jul 2023 6:51 am
 Operator : RJP
 Sample : A1UG_1.0
 Misc : A629_1UG
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 05 07:19:13 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 14:27:33 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	10.233	128	61556	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.450	114	293168	1.00	ppb	0.00
50) Chlorobenzene-d5	17.111	117	263405	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene 18.811 95 210085 1.06 ppb -0.05
 Spiked Amount 1.000 Range 70 - 130 Recovery = 106.00%

Target Compounds

						Qvalue
2) Propylene	4.456	41	75299	0.85	ppb	62
3) Freon 12	4.518	85	284943	1.12	ppb	98
4) Chloromethane	4.728	50	91088	1.13	ppb	100
5) Freon 114	4.734	85	263041	1.26	ppb	97
6) Vinyl Chloride	4.943	62	92676	1.21	ppb	99
7) Butane	5.051	43	115600	1.13	ppb	95
8) 1,3-butadiene	5.051	39	87201	1.09	ppb	91
9) Bromomethane	5.414	94	96604	1.26	ppb	97
10) Chloroethane	5.590	64	49342	1.17	ppb	98
11) Ethanol	6.520	45	139236	0.74	ppb	90
12) Acrolein	6.293	56	35682	1.09	ppb	94
13) Vinyl Bromide	5.947	106	98788	1.18	ppb	98
14) Freon 11	6.230	101	279105	1.10	ppb	99
15) Acetone	6.401	58	67808	0.93	ppb	# 63
16) Pentane	6.520	42	109999	0.91	ppb	94
17) Isopropyl alcohol	6.520	45	139236	0.74	ppb	89
18) 1,1-dichloroethene	7.024	96	87109	0.95	ppb	# 82
19) Freon 113	7.217	101	203798	1.09	ppb	97
20) t-Butyl alcohol	7.240	59	162222m	0.71	ppb	
21) Methylene chloride	7.483	84	120840	0.78	ppb	# 87
22) Allyl chloride	7.466	41	117657	0.76	ppb	90
23) Carbon disulfide	7.648	76	303413	0.94	ppb	99
24) trans-1,2-dichloroethene	8.430	61	134883	0.93	ppb	89
25) methyl tert-butyl ether	8.436	73	219229	0.71	ppb	69
26) 1,1-dichloroethane	8.855	63	179132	0.96	ppb	99
27) Vinyl acetate	8.827	43	229488m	0.86	ppb	
28) Methyl Ethyl Ketone	9.326	72	49688	0.86	ppb	# 1
29) cis-1,2-dichloroethene	9.785	61	123788	0.87	ppb	86
30) Hexane	9.394	57	151856	0.83	ppb	83
31) Ethyl acetate	9.921	43	201997	0.78	ppb	96
32) Chloroform	10.392	83	205612	1.01	ppb	99
33) Tetrahydrofuran	10.551	42	92674m	0.75	ppb	
34) 1,2-dichloroethane	11.481	62	146469	0.98	ppb	98
36) 1,1,1-trichloroethane	11.203	97	188490	1.10	ppb	100
37) Cyclohexane	11.889	56	127226	0.94	ppb	91
38) Carbon tetrachloride	11.832	117	198314	1.16	ppb	100
39) Benzene	11.792	78	280815	1.13	ppb	96
40) Methyl methacrylate	13.289	41	116137	0.86	ppb	86
41) 1,4-dioxane	13.312	88	73278	1.10	ppb	87
42) 2,2,4-trimethylpentane	12.620	57	437331	1.02	ppb	90
43) Heptane	12.949	43	152776	0.93	ppb	89
44) Trichloroethene	13.079	130	125976	1.15	ppb	95

Data Path : C:\msdchem\1\data\
 Data File : AU070502.D
 Acq On : 5 Jul 2023 6:51 am
 Operator : RJP
 Sample : A1UG_1.0
 Misc : A629_1UG
 ALS Vial : 2 Sample Multiplier: 1

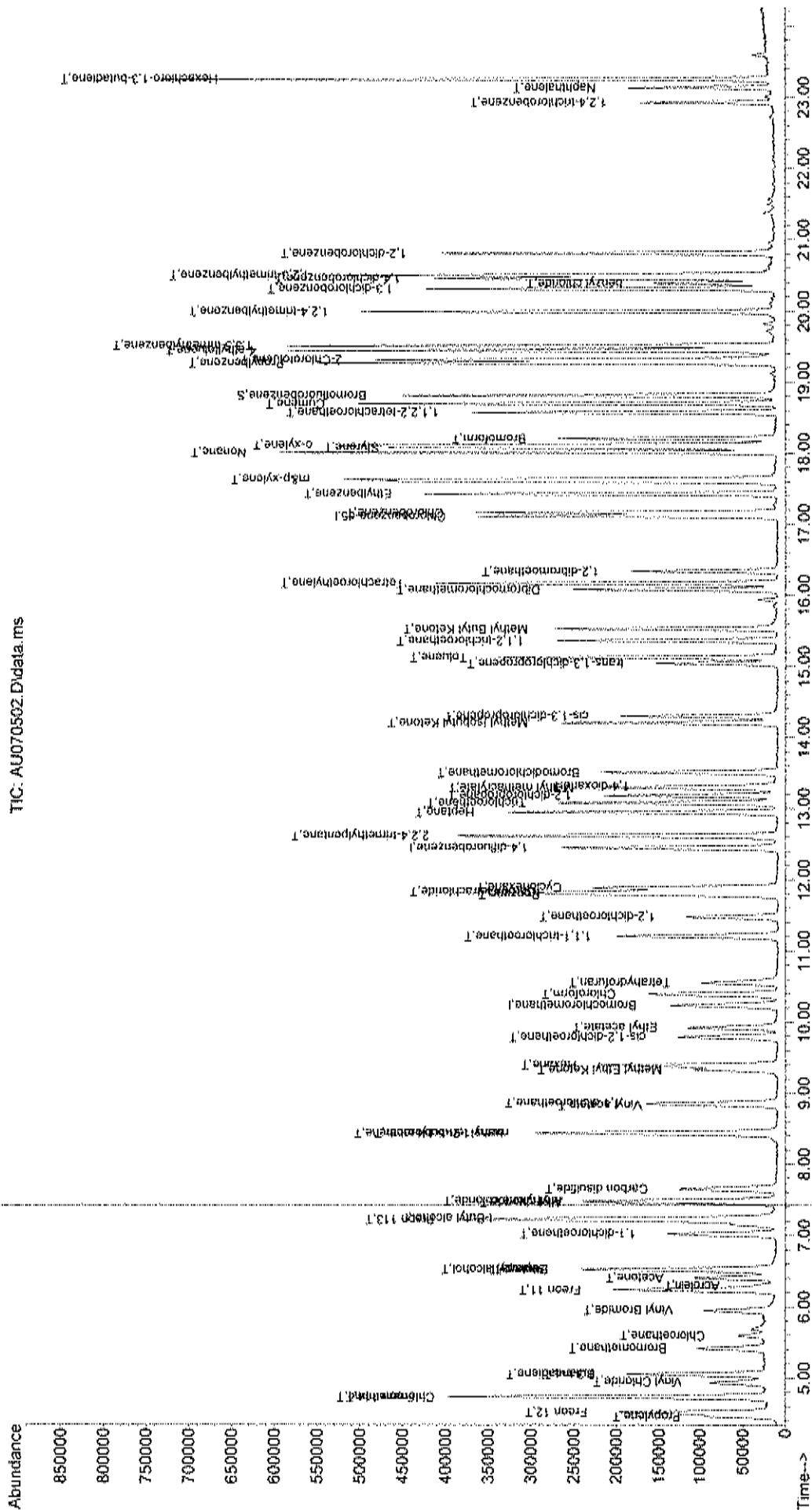
Quant Time: Jul 05 07:19:13 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 14:27:33 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.181	63	103987	1.10	ppb	99
46) Bromodichloromethane	13.499	83	199631	1.23	ppb	100
47) cis-1,3-dichloropropene	14.298	75	147259	1.01	ppb	97
48) trans-1,3-dichloropropene	15.041	75	116536	0.84	ppb	92
49) 1,1,2-trichloroethane	15.359	97	112845	1.24	ppb	97
51) Toluene	15.126	92	190019	1.03	ppb	99
52) Methyl Isobutyl Ketone	14.202	43	225074	0.87	ppb	91
53) Dibromochloromethane	16.073	129	185160	1.14	ppb	99
54) Methyl Butyl Ketone	15.523	43	227179	0.87	ppb	89
55) 1,2-dibromoethane	16.334	107	161330	1.12	ppb	99
56) Tetrachloroethylene	16.169	164	124335	1.19	ppb	98
57) Chlorobenzene	17.162	112	259096	1.12	ppb	95
58) Ethylbenzene	17.428	91	391004	0.97	ppb	95
59) m&p-xylene	17.632	91	670217	2.10	ppb	93
60) Nonane	18.012	43	223157	0.89	ppb	91
61) Styrene	18.080	104	273894	1.13	ppb	89
62) Bromoform	18.205	173	165704	1.15	ppb	100
63) o-xylene	18.114	91	374841	1.15	ppb	95
64) Cumene	18.692	105	405902	0.97	ppb	97
66) 1,1,2,2-tetrachloroethane	18.573	83	231209	1.18	ppb	99
67) Propylbenzene	19.265	120	118246	1.02	ppb	70
68) 2-Chlorotoluene	19.310	126	119368	1.18	ppb	# 93
69) 4-ethyltoluene	19.441	105	465060m	1.09	ppb	
70) 1,3,5-trimethylbenzene	19.509	105	413363	1.13	ppb	100
71) 1,2,4-trimethylbenzene	19.991	105	347615	0.96	ppb	96
72) 1,3-dichlorobenzene	20.314	146	233437m	1.23	ppb	
73) benzyl chloride	20.382	91	135231	0.59	ppb	98
74) 1,4-dichlorobenzene	20.456	146	221739	1.24	ppb	95
75) 1,2,3-trimethylbenzene	20.501	105	375553	1.04	ppb	99
76) 1,2-dichlorobenzene	20.807	146	218192	1.22	ppb	97
77) 1,2,4-trichlorobenzene	22.928	180	61080	1.08	ppb	100
78) Naphthalene	23.132	128	173483	0.93	ppb	100
79) Hexachloro-1,3-butadiene	23.257	225	165802m	1.29	ppb	

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

Quant Time: Jul 05 07:19:13 2023
Quant Method : C:\msdchem\1\methods\A629_IUG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Sat Jul 01 14:27:33 2023
Response via : Initial Calibration

TIC: AU070502.D\data.ms



Data Path : C:\msdchem\1\data\
 Data File : AU070603.D
 Acq On : 6 Jul 2023 7:13 am
 Operator : RJP
 Sample : A1UG_1.0
 Misc : A629_1UG
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 06 07:42:43 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	126	0.00
2 T	Propylene	1.438	1.079	25.0	93	0.00
3 T	Freon 12	4.123	3.632	11.9	112	0.00
4 T	Chloromethane	1.310	1.169	10.8	114	0.00
5 T	Freon 114	3.397	3.335	1.8	125	0.00
6 T	Vinyl Chloride	1.239	1.168	5.7	117	0.00
7 T	Butane	1.660	1.465	11.7	112	0.00
8 T	1,3-butadiene	1.296	1.058	18.4	103	0.00
9 T	Bromomethane	1.248	1.238	0.8	124	0.00
10 T	Chloroethane	0.686	0.645	6.0	119	0.00
11 T	Ethanol	3.059	2.155	29.6	92	0.00
12 T	Acrolein	0.534	0.454	18.0	117	0.00
13 T	Vinyl Bromide	1.358	1.325	2.4	124	0.00
14 T	Freon 11	4.126	3.926	4.8	119	0.00
15 T	Acetone	1.181	0.839	29.0	110	0.00
16 T	Pentane	1.962	1.599	18.5	104	0.00
17 T	Isopropyl alcohol	3.059	2.389	21.9	102	0.00
18 T	1,1-dichloroethene	1.496	1.303	12.9	112	0.00
19 T	Freon 113	3.043	2.868	5.8	118	0.00
20 t	t-Butyl alcohol	3.731	2.361	36.7#	79	0.00
21 T	Methylene chloride	2.519	1.762	30.1#	107	0.00
22 T	Allyl chloride	2.501	1.772	29.1	89	0.00
23 T	Carbon disulfide	5.264	4.387	16.7	116	0.00
24 T	trans-1,2-dichloroethene	2.365	1.943	17.8	102	0.00
25 T	methyl tert-butyl ether	5.051	3.643	27.9	92	0.00
26 T	1,1-dichloroethane	3.034	2.520	16.9	106	0.00
27 T	Vinyl acetate	4.339	3.628	16.4	107	0.00
28 T	Methyl Ethyl Ketone	0.941	0.748	20.5	102	0.00
29 T	cis-1,2-dichloroethene	2.305	1.820	21.0	100	0.00
30 T	Hexane	2.978	2.305	22.6	98	0.00
31 T	Ethyl acetate	4.193	3.330	20.6	99	0.00
32 T	Chloroform	3.294	2.764	16.1	105	0.00
33 T	Tetrahydrofuran	1.997	1.637	18.0	106	0.00
34 T	1,2-dichloroethane	2.439	1.906	21.9	99	0.00
35 I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00
36 T	1,1,1-trichloroethane	0.586	0.522	10.9	91	0.00
37 T	Cyclohexane	0.463	0.379	18.1	84	0.00
38 T	Carbon tetrachloride	0.584	0.525	10.1	88	0.00
39 T	Benzene	0.849	0.809	4.7	98	0.00
40 T	Methyl methacrylate	0.461	0.323	29.9	73	0.00
41 T	1,4-dioxane	0.227	0.183	19.4	85	0.00
42 T	2,2,4-trimethylpentane	1.463	1.237	15.4	87	0.00
43 T	Heptane	0.562	0.432	23.1	79	0.00
44 T	Trichloroethene	0.372	0.357	4.0	104	0.00
45 T	1,2-dichloropropane	0.322	0.297	7.8	96	0.00
46 T	Bromodichloromethane	0.553	0.529	4.3	98	0.00
47 T	cis-1,3-dichloropropene	0.500	0.415	17.0	84	0.00

Data Path : C:\msdchem\1\data\
 Data File : AU070603.D
 Acq On : 6 Jul 2023 7:13 am
 Operator : RJP
 Sample : A1UG_1.0
 Misc : A629_1UG
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 06 07:42:43 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48 T	trans-1,3-dichloropropene	0.472	0.337	28.6	72	0.00
49 T	1,1,2-trichloroethane	0.310	0.314	-1.3	104	0.00
50 I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
51 T	Toluene	0.702	0.624	11.1	92	0.00
52 T	Methyl Isobutyl Ketone	0.985	0.695	29.4	72	0.00
53 T	Dibromochloromethane	0.619	0.613	1.0	103	0.00
54 T	Methyl Butyl Ketone	0.986	0.712	27.8	73	0.00
55 T	1,2-dibromoethane	0.545	0.528	3.1	99	0.00
56 T	Tetrachloroethylene	0.398	0.414	-4.0	108	0.00
57 T	Chlorobenzene	0.876	0.860	1.8	101	0.00
58 T	Ethylbenzene	1.527	1.270	16.8	85	0.00
59 T	m&p-xylene	1.210	1.072	11.4	91	0.00
60 T	Nonane	0.957	0.699	27.0	76	0.00
61 T	Styrene	0.917	0.826	9.9	92	0.00
62 T	Bromoform	0.547	0.544	0.5	100	0.00
63 T	o-xylene	1.238	1.183	4.4	98	0.00
64 T	Cumene	1.593	1.344	15.6	87	0.00
65 S	Bromofluorobenzene	0.753	0.734	2.5	99	0.00
66 T	1,1,2,2-tetrachloroethane	0.742	0.736	0.8	103	0.00
67 T	Propylbenzene	0.442	0.380	14.0	88	0.00
68 T	2-Chlorotoluene	0.384	0.382	0.5	101	0.00
69 T	4-ethyltoluene	1.622	1.467	9.6	92	0.00
70 T	1,3,5-trimethylbenzene	1.386	1.262	8.9	94	0.00
71 T	1,2,4-trimethylbenzene	1.369	1.067	22.1	80	0.00
72 T	1,3-dichlorobenzene	0.720	0.739	-2.6	104	0.00
73 T	benzyl chloride	0.873	0.445	49.0#	52	0.00
74 T	1,4-dichlorobenzene	0.678	0.696	-2.7	103	0.00
75 T	1,2,3-trimethylbenzene	1.370	1.172	14.5	89	0.00
76 T	1,2-dichlorobenzene	0.677	0.699	-3.2	105	0.00
77 T	1,2,4-trichlorobenzene	0.214	0.202	5.6	100	0.00
78 T	Naphthalene	0.712	0.458	35.7#	62	0.00
79 T	Hexachloro-1,3-butadiene	0.488	0.512	-4.9	110	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : C:\msdchem\1\data\
 Data File : AU070603.D
 Acq On : 6 Jul 2023 7:13 am
 Operator : RJP
 Sample : A1UG_1.0
 Misc : A629_1UG
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 06 07:42:43 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	10.539	128	69373	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	332815	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	281418	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	19.044	95	206587	0.97	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	97.00%

Target Compounds

						Qvalue
2) Propylene	4.677	41	74882m	0.75	ppb	
3) Freon 12	4.734	85	251960	0.88	ppb	99
4) Chloromethane	4.955	50	81113	0.89	ppb	96
5) Freon 114	4.960	85	231325	0.98	ppb	97
6) Vinyl Chloride	5.170	62	81056	0.94	ppb	97
7) Butane	5.284	43	101662	0.88	ppb	98
8) 1,3-butadiene	5.278	39	73400	0.82	ppb	97
9) Bromomethane	5.669	94	85916	0.99	ppb	97
10) Chloroethane	5.851	64	44749	0.94	ppb	98
11) Ethanol	6.786	45	149482	0.70	ppb	95
12) Acrolein	6.565	56	31473	0.85	ppb	91
13) Vinyl Bromide	6.213	106	91942	0.98	ppb	100
14) Freon 11	6.503	101	272386	0.95	ppb	98
15) Acetone	6.667	58	58173m	0.71	ppb	
16) Pentane	6.786	42	110893	0.81	ppb	96
17) Isopropyl alcohol	6.786	45	165751m	0.78	ppb	
18) 1,1-dichloroethene	7.302	96	90399	0.87	ppb	# 85
19) Freon 113	7.500	101	198938	0.94	ppb	98
20) t-Butyl alcohol	7.529	59	163814	0.63	ppb	# 80
21) Methylene chloride	7.773	84	122218m	0.70	ppb	
22) Allyl chloride	7.750	41	122911	0.71	ppb	92
23) Carbon disulfide	7.948	76	304339	0.83	ppb	99
24) trans-1,2-dichloroethene	8.731	61	134772	0.82	ppb	92
25) methyl tert-butyl ether	8.736	73	252701m	0.72	ppb	
26) 1,1-dichloroethane	9.162	63	174843	0.83	ppb	100
27) Vinyl acetate	9.133	43	251700m	0.84	ppb	
28) Methyl Ethyl Ketone	9.627	72	51909	0.79	ppb	# 1
29) cis-1,2-dichloroethene	10.097	61	126285	0.79	ppb	88
30) Hexane	9.695	57	159914	0.77	ppb	88
31) Ethyl acetate	10.222	43	231010m	0.79	ppb	
32) Chloroform	10.698	83	191777	0.84	ppb	100
33) Tetrahydrofuran	10.863	42	113543m	0.82	ppb	
34) 1,2-dichloroethane	11.775	62	132252	0.78	ppb	98
36) 1,1,1-trichloroethane	11.515	97	173723	0.89	ppb	100
37) Cyclohexane	12.178	56	126204	0.82	ppb	95
38) Carbon tetrachloride	12.127	117	174741	0.90	ppb	100
39) Benzene	12.093	78	269305	0.95	ppb	94
40) Methyl methacrylate	13.550	41	107355	0.70	ppb	86
41) 1,4-dioxane	13.584	88	60751	0.80	ppb	89
42) 2,2,4-trimethylpentane	12.892	57	411669	0.85	ppb	93
43) Heptane	13.216	43	143764	0.77	ppb	89
44) Trichloroethene	13.346	130	118654	0.96	ppb	97

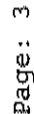
Data Path : C:\msdchem\1\data\
 Data File : AU070603.D
 Acq On : 6 Jul 2023 7:13 am
 Operator : RJP
 Sample : A1UG_1.0
 Misc : A629_1UG
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 06 07:42:43 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.454	63	98687	0.92	ppb	100
46) Bromodichloromethane	13.771	83	176161	0.96	ppb	100
47) cis-1,3-dichloropropene	14.548	75	138130	0.83	ppb	98
48) trans-1,3-dichloropropene	15.285	75	112250	0.71	ppb	99
49) 1,1,2-trichloroethane	15.608	97	104660	1.01	ppb	99
51) Toluene	15.376	92	175542	0.89	ppb	96
52) Methyl Isobutyl Ketone	14.452	43	195545m	0.71	ppb	
53) Dibromochloromethane	16.323	129	172398	0.99	ppb	98
54) Methyl Butyl Ketone	15.767	43	200358m	0.72	ppb	
55) 1,2-dibromoethane	16.583	107	148709	0.97	ppb	99
56) Tetrachloroethylene	16.413	164	116573	1.04	ppb	99
57) Chlorobenzene	17.405	112	242148	0.98	ppb	95
58) Ethylbenzene	17.661	91	357301	0.83	ppb	96
59) m&p-xylene	17.865	91	603546	1.77	ppb	95
60) Nonane	18.239	43	196755	0.73	ppb	92
61) Styrene	18.313	104	232417	0.90	ppb	89
62) Bromoform	18.443	173	152988	0.99	ppb	99
63) o-xylene	18.347	91	332926	0.96	ppb	96
64) Cumene	18.925	105	378133	0.84	ppb	97
66) 1,1,2,2-tetrachloroethane	18.800	83	207025	0.99	ppb	100
67) Propylbenzene	19.498	120	107022	0.86	ppb	# 1
68) 2-Chlorotoluene	19.549	126	107498	1.00	ppb	# 1
69) 4-ethyltoluene	19.673	105	412890	0.90	ppb	97
70) 1,3,5-trimethylbenzene	19.736	105	355189	0.91	ppb	99
71) 1,2,4-trimethylbenzene	20.218	105	300238	0.78	ppb	99
72) 1,3-dichlorobenzene	20.541	146	208061	1.03	ppb	96
73) benzyl chloride	20.615	91	125362	0.51	ppb	98
74) 1,4-dichlorobenzene	20.683	146	195838	1.03	ppb	99
75) 1,2,3-trimethylbenzene	20.734	105	329792	0.86	ppb	100
76) 1,2-dichlorobenzene	21.040	146	196667	1.03	ppb	97
77) 1,2,4-trichlorobenzene	23.143	180	56978	0.95	ppb	96
78) Naphthalene	23.359	128	128878	0.64	ppb	96
79) Hexachloro-1,3-butadiene	23.478	225	144059	1.05	ppb	94

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

Quant Time: Jul 06 07:42:43 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
Quant Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\
 Data File : AU070702.D
 Acq On : 7 Jul 2023 7:35 am
 Operator : RJP
 Sample : A1UG 1.0
 Misc : A629 1UG
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 11:12:57 2023
 Quant Method : C:\msdchem\1\methods\A629 1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	91	0.00
2 T	Propylene	1.438	1.260	12.4	79	0.00
3 T	Freon 12	4.123	4.960	-20.3	110	0.00
4 T	Chloromethane	1.310	1.579	-20.5	111	0.00
5 T	Freon 114	3.397	4.355	-28.2	117	0.00
6 T	Vinyl Chloride	1.239	1.605	-29.5	115	0.00
7 T	Butane	1.660	2.131	-28.4	118	0.00
8 T	1,3-butadiene	1.296	1.599	-23.4	112	0.01
9 T	Bromomethane	1.248	1.574	-26.1	113	0.00
10 T	Chloroethane	0.686	0.871	-27.0	115	0.00
11 T	Ethanol	3.059	2.840	7.2	87	-0.01
12 T	Acrolein	0.534	0.659	-23.4	122	0.00
13 T	Vinyl Bromide	1.358	1.740	-28.1	117	0.00
14 T	Freon 11	4.126	5.252	-27.3	115	0.00
15 T	Acetone	1.181	1.041	11.9	98	0.00
16 T	Pentane	1.962	2.125	-8.3	99	0.00
17 T	Isopropyl alcohol	3.059	2.840	7.2	87	-0.01
18 T	1,1-dichloroethene	1.496	1.618	-8.2	100	0.00
19 T	Freon 113	3.043	3.723	-22.3	111	0.00
20 T	t-Butyl alcohol	3.731	3.051	18.2	74	0.00
21 T	Methylene chloride	2.519	1.783	29.2	78	0.00
22 T	Allyl chloride	2.501	2.242	10.4	81	0.00
23 T	Carbon disulfide	5.264	5.629	-6.9	108	0.00
24 T	trans-1,2-dichloroethene	2.365	2.551	-7.9	97	0.00
25 T	methyl tert-butyl ether	5.051	4.328	14.3	79	0.00
26 T	1,1-dichloroethane	3.034	3.410	-12.4	103	0.00
27 T	Vinyl acetate	4.339	3.541	18.4	75	0.00
28 T	Methyl Ethyl Ketone	0.941	0.922	2.0	90	0.00
29 T	cis-1,2-dichloroethene	2.305	2.367	-2.7	94	0.00
30 T	Hexane	2.978	2.868	3.7	88	0.00
31 T	Ethyl acetate	4.193	3.708	11.6	79	0.00
32 T	Chloroform	3.294	3.803	-15.5	104	0.00
33 T	Tetrahydrofuran	1.997	1.789	10.4	83	0.00
34 T	1,2-dichloroethane	2.439	2.713	-11.2	101	0.00
35 I	1,4-difluorobenzene	1.000	1.000	0.0	79	0.00
36 T	1,1,1-trichloroethane	0.586	0.716	-22.2	96	0.00
37 T	Cyclohexane	0.463	0.524	-13.2	89	0.00
38 T	Carbon tetrachloride	0.584	0.744	-27.4	96	-0.01
39 T	Benzene	0.849	1.087	-28.0	101	0.00
40 T	Methyl methacrylate	0.461	0.414	10.2	72	0.00
41 T	1,4-dioxane	0.227	0.227	0.0	81	-0.01
42 T	2,2,4-trimethylpentane	1.463	1.692	-15.7	92	0.00
43 T	Heptane	0.562	0.549	2.3	77	0.00
44 T	Trichloroethene	0.372	0.440	-18.3	99	0.00
45 T	1,2-dichloropropane	0.322	0.376	-16.8	93	0.00
46 T	Bromodichloromethane	0.553	0.703	-27.1	100	0.00
47 T	cis-1,3-dichloropropene	0.500	0.536	-7.2	84	0.00

Data Path : C:\msdchem\1\data\
 Data File : AU070702.D
 Acq On : 7 Jul 2023 7:35 am
 Operator : RJP
 Sample : A1UG_1.0
 Misc : A629_1UG
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 11:12:57 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRRF	CCRF	%Dev	Area%	Dev(min)
48 T	trans-1,3-dichloropropene	0.472	0.441	6.6	72	0.00
49 T	1,1,2-trichloroethane	0.310	0.382	-23.2	97	0.00
50 I	Chlorobenzene-d5	1.000	1.000	0.0	70	0.00
51 T	Toluene	0.702	0.876	-24.8	88	0.00
52 T	Methyl Isobutyl Ketone	0.985	0.908	7.8	65	0.00
53 T	Dibromochloromethane	0.619	0.871	-40.7#	100	0.00
54 T	Methyl Butyl Ketone	0.986	0.810	17.8	57	0.00
55 T	1,2-dibromoethane	0.545	0.718	-31.7#	92	0.00
56 T	Tetrachloroethylene	0.398	0.513	-28.9	91	0.00
57 T	Chlorobenzene	0.876	1.133	-29.3	91	0.00
58 T	Ethylbenzene	1.527	1.706	-11.7	78	0.02
59 T	m&p-xylene	1.210	1.456	-20.3	85	0.02
60 T	Nonane	0.957	1.014	-6.0	75	0.03
61 T	Styrene	0.917	1.113	-21.4	85	0.04
62 T	Bromoform	0.547	0.744	-36.0#	94	0.04
63 T	o-xylene	1.238	1.556	-25.7	88	0.04
64 T	Cumene	1.593	1.762	-10.6	78	0.06
65 S	Bromofluorobenzene	0.753	0.793	-5.3	73	0.06
66 T	1,1,2,2-tetrachloroethane	0.742	1.043	-40.6#	99	0.06
67 T	Propylbenzene	0.442	0.517	-17.0	82	0.08
68 T	2-Chlorotoluene	0.384	0.518	-34.9#	93	0.07
69 T	4-ethyltoluene	1.622	2.003	-23.5	86	0.08
70 T	1,3,5-trimethylbenzene	1.386	1.792	-29.3	91	0.09
71 T	1,2,4-trimethylbenzene	1.369	1.453	-6.1	74	0.10
72 T	1,3-dichlorobenzene	0.720	0.967	-34.3#	93	0.09
73 T	benzyl chloride	0.873	0.747	14.4	59	0.09
74 T	1,4-dichlorobenzene	0.678	0.988	-45.7#	100	0.09
75 T	1,2,3-trimethylbenzene	1.370	1.655	-20.8	86	0.09
76 T	1,2-dichlorobenzene	0.677	0.950	-40.3#	97	0.09
77 T	1,2,4-trichlorobenzene	0.214	0.261	-22.0	88	0.03
78 T	Naphthalene	0.712	0.543	23.7	51	0.02
79 T	Hexachloro-1,3-butadiene	0.488	0.708	-45.1#	104	0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : C:\msdchem\1\data\
 Data File : AU070702.D
 Acq On : 7 Jul 2023 7:35 am
 Operator : RJP
 Sample : A1UG_1.0
 Misc : A629_1UG
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 11:12:57 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	10.540	128	50017	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.728	114	255144	1.00	ppb	0.00
50) Chlorobenzene-d5	17.360	117	192366	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene 19.107 95 152501 1.05 ppb 0.06
 Spiked Amount 1.000 Range 70 - 130 Recovery = 105.00%

Target Compounds

						Qvalue
2) Propylene	4.683	41	63032	0.88	ppb	59
3) Freon 12	4.728	85	248108	1.20	ppb	98
4) Chloromethane	4.949	50	78968m	1.21	ppb	
5) Freon 114	4.955	85	217824m	1.28	ppb	
6) Vinyl Chloride	5.170	62	80280m	1.30	ppb	
7) Butane	5.284	43	106591	1.28	ppb	96
8) 1,3-butadiene	5.289	39	79985	1.23	ppb	93
9) Bromomethane	5.664	94	78714m	1.26	ppb	
10) Chloroethane	5.851	64	43540m	1.27	ppb	
11) Ethanol	6.775	45	142042	0.93	ppb	94
12) Acrolein	6.559	56	32963	1.23	ppb	96
13) Vinyl Bromide	6.214	106	87042m	1.28	ppb	
14) Freon 11	6.503	101	262686m	1.27	ppb	
15) Acetone	6.667	58	52046	0.88	ppb	# 75
16) Pentane	6.792	42	106269	1.08	ppb	96
17) Isopropyl alcohol	6.775	45	142042	0.93	ppb	94
18) 1,1-dichloroethene	7.302	96	80911	1.08	ppb	# 82
19) Freon 113	7.506	101	186197	1.22	ppb	97
20) t-Butyl alcohol	7.523	59	152620	0.82	ppb	# 73
21) Methylene chloride	7.767	84	89164	0.71	ppb	# 86
22) Allyl chloride	7.750	41	112129	0.90	ppb	92
23) Carbon disulfide	7.949	76	281527	1.07	ppb	100
24) trans-1,2-dichloroethene	8.731	61	127573	1.08	ppb	89
25) methyl tert-butyl ether	8.737	73	216462	0.86	ppb	72
26) 1,1-dichloroethane	9.162	63	170567	1.12	ppb	99
27) Vinyl acetate	9.128	43	177091	0.82	ppb	95
28) Methyl Ethyl Ketone	9.632	72	46093	0.98	ppb	# 48
29) cis-1,2-dichloroethene	10.092	61	118379	1.03	ppb	87
30) Hexane	9.689	57	143464	0.96	ppb	83
31) Ethyl acetate	10.222	43	185486	0.88	ppb	97
32) Chloroform	10.698	83	190215	1.15	ppb	99
33) Tetrahydrofuran	10.857	42	89491	0.90	ppb	88
34) 1,2-dichloroethane	11.776	62	135689	1.11	ppb	98
36) 1,1,1-trichloroethane	11.509	97	182651	1.22	ppb	98
37) Cyclohexane	12.178	56	133813	1.13	ppb	94
38) Carbon tetrachloride	12.116	117	189943m	1.27	ppb	
39) Benzene	12.087	78	277220	1.28	ppb	94
40) Methyl methacrylate	13.550	41	105579	0.90	ppb	# 81
41) 1,4-dioxane	13.573	88	57911	1.00	ppb	89
42) 2,2,4-trimethylpentane	12.893	57	431669	1.16	ppb	92
43) Heptane	13.216	43	140000	0.98	ppb	90
44) Trichloroethene	13.352	130	112281	1.18	ppb	96

Data Path : C:\msdchem\1\data\
 Data File : AU070702.D
 Acq On : 7 Jul 2023 7:35 am
 Operator : RJP
 Sample : A1UG_1.0
 Misc : A629_1UG
 ALS Vial : 2 Sample Multiplier: 1

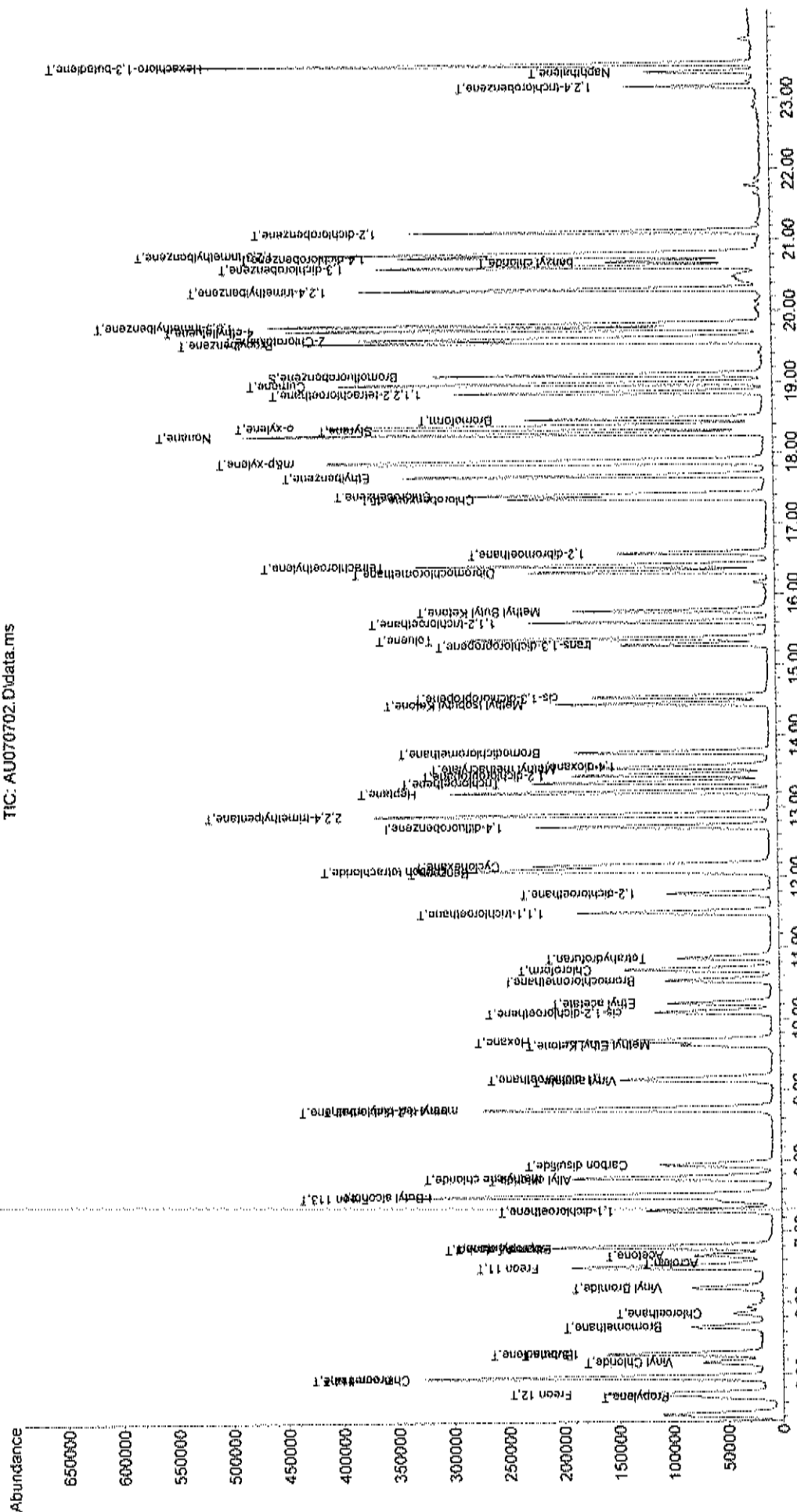
Quant Time: Jul 08 11:12:57 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.454	63	95864	1.17	ppb	99
46) Bromodichloromethane	13.771	83	179372	1.27	ppb	99
47) cis-1,3-dichloropropene	14.548	75	136884	1.07	ppb	98
48) trans-1,3-dichloropropene	15.285	75	112511	0.93	ppb	99
49) 1,1,2-trichloroethane	15.608	97	97586	1.23	ppb	99
51) Toluene	15.376	92	168580	1.25	ppb	98
52) Methyl Isobutyl Ketone	14.457	43	174653	0.92	ppb	90
53) Dibromochloromethane	16.323	129	167508	1.41	ppb	99
54) Methyl Butyl Ketone	15.767	43	155811	0.82	ppb	86
55) 1,2-dibromoethane	16.578	107	138076	1.32	ppb	99
56) Tetrachloroethylene	16.413	164	98705m	1.29	ppb	
57) Chlorobenzene	17.411	112	217986	1.29	ppb	95
58) Ethylbenzene	17.678	91	328116	1.12	ppb	94
59) m&p-xylene	17.888	91	560138	2.41	ppb	94
60) Nonane	18.273	43	195003	1.06	ppb	90
61) Styrene	18.352	104	214113	1.21	ppb	88
62) Bromoform	18.483	173	143053m	1.36	ppb	
63) o-xylene	18.386	91	299289m	1.26	ppb	
64) Cumene	18.987	105	338953	1.11	ppb	97
66) 1,1,2,2-tetrachloroethane	18.857	83	200688	1.41	ppb	99
67) Propylbenzene	19.577	120	99421	1.17	ppb	# 8
68) 2-Chlorotoluene	19.622	126	99611	1.35	ppb	# 1
69) 4-ethyltoluene	19.753	105	385374	1.24	ppb	97
70) 1,3,5-trimethylbenzene	19.821	105	344630m	1.29	ppb	
71) 1,2,4-trimethylbenzene	20.314	105	279546	1.06	ppb	98
72) 1,3-dichlorobenzene	20.632	146	186097m	1.34	ppb	
73) benzyl chloride	20.700	91	143654	0.86	ppb	99
74) 1,4-dichlorobenzene	20.773	146	189999m	1.46	ppb	
75) 1,2,3-trimethylbenzene	20.819	105	318349	1.21	ppb	99
76) 1,2-dichlorobenzene	21.125	146	182769	1.40	ppb	96
77) 1,2,4-trichlorobenzene	23.172	180	50117	1.22	ppb	94
78) Naphthalene	23.376	128	104542	0.76	ppb	96
79) Hexachloro-1,3-butadiene	23.489	225	136113	1.45	ppb	93

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

Quant Time: Jul 08 11:12:57 2023
Quant Method : C:\msdchem\1\methods\A629 1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
Quant Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

TIC: AU070702.D\data.ms



GC/MS VOLATILES-WHOLE AIR

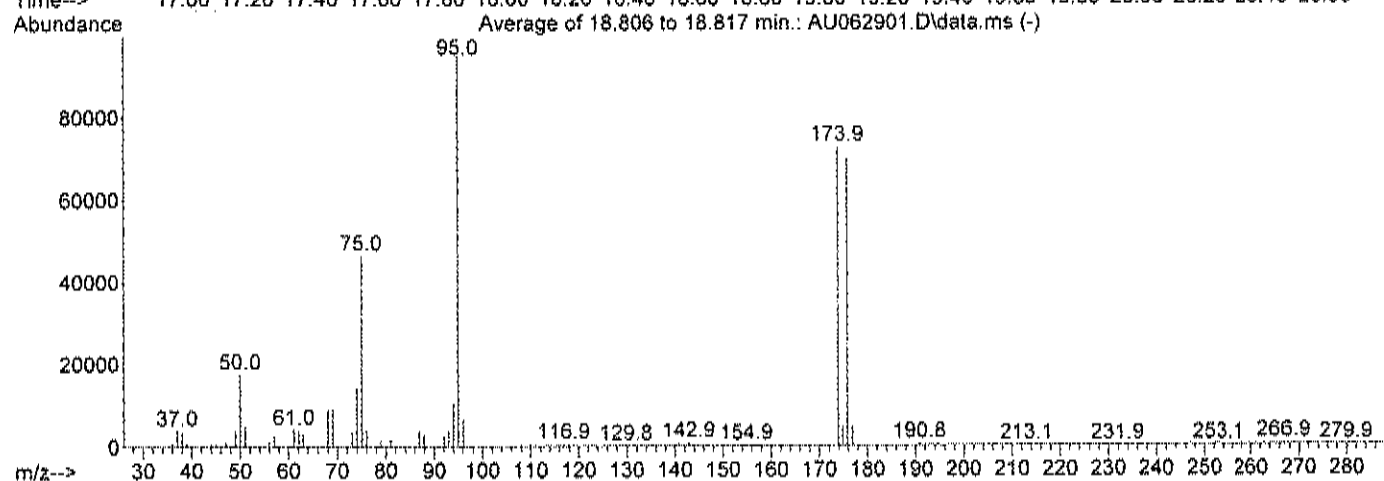
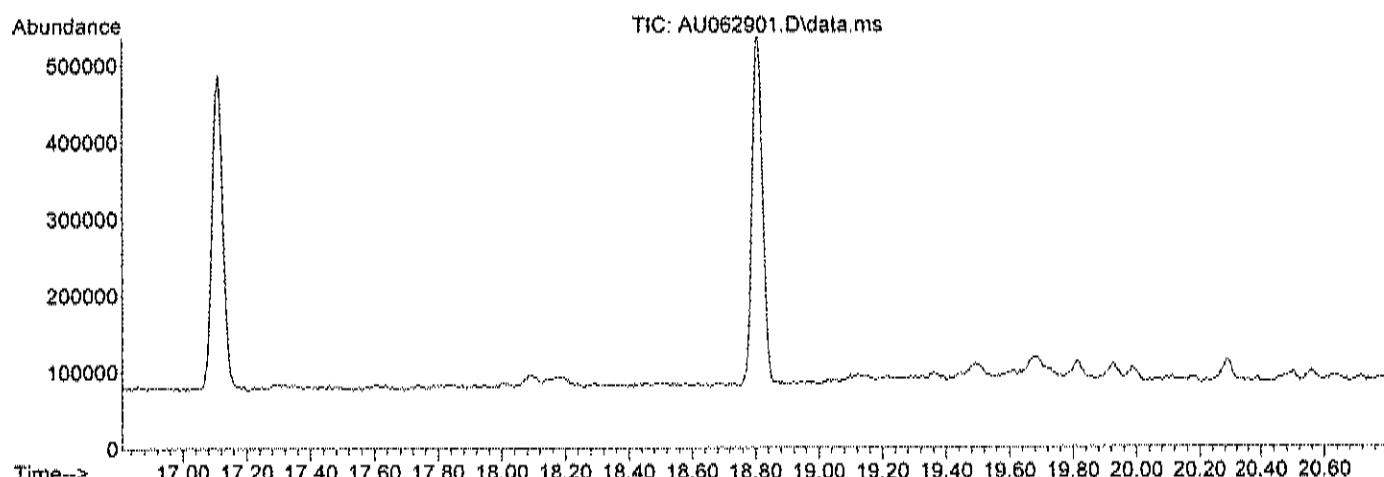
METHOD TO-15

RAW DATA

Data Path : C:\msdchem\1\data2\
Data File : AU062901.D
Acq On : 29 Jun 2023 5:01 pm
Operator : RJP
Sample : BFB1UG
Misc : A629_1UG
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\A629_1UG.M
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Aug 02 11:58:48 2023



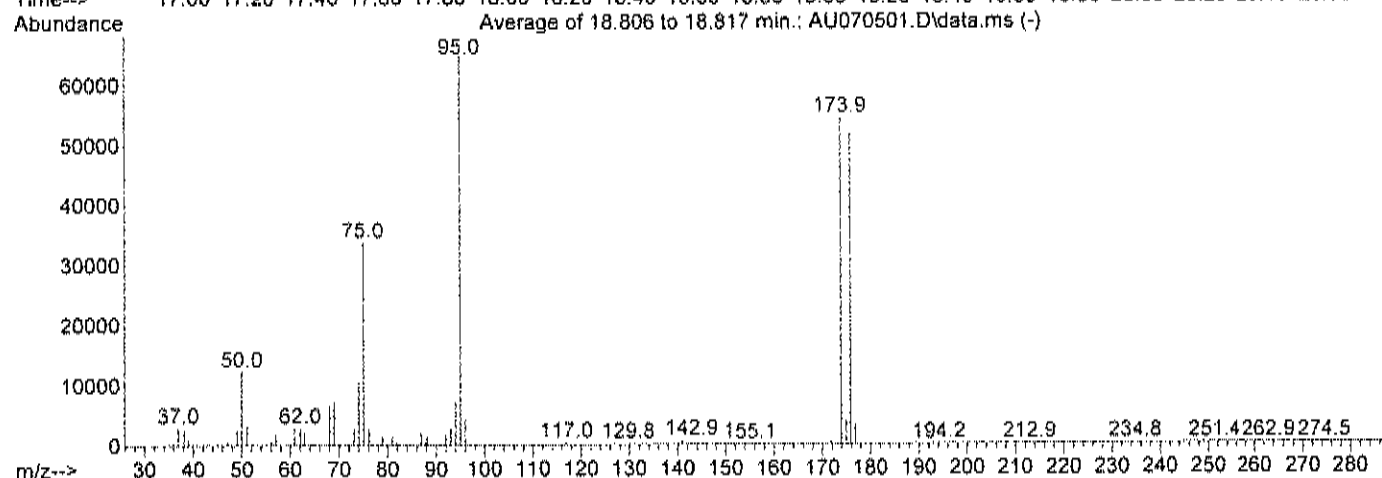
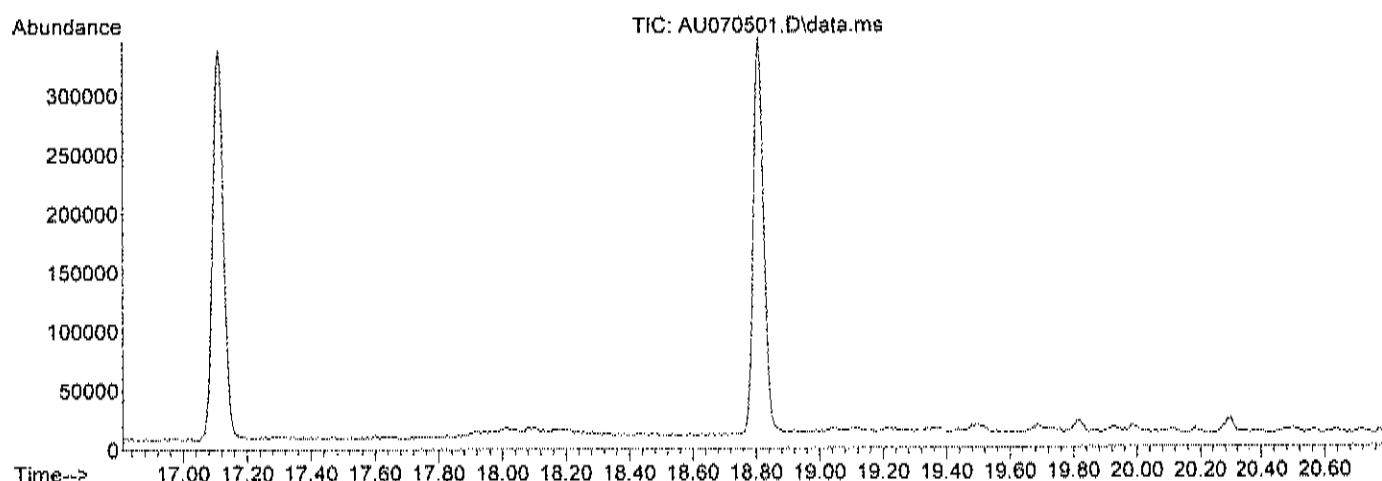
Spectrum Information: Average of 18.806 to 18.817 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.5	17607	PASS
75	95	30	66	48.9	46528	PASS
95	95	100	100	100.0	95160	PASS
96	95	5	9	7.1	6759	PASS
173	174	0.00	2	0.3	233	PASS
174	95	50	120	76.5	72812	PASS
175	174	4	9	6.8	4943	PASS
176	174	95	101	96.3	70136	PASS
177	176	5	9	6.8	4790	PASS

Data Path : C:\msdchem\1\data\
Data File : AU070501.D
Acq On : 5 Jul 2023 6:03 am
Operator : RJP
Sample : BFB1UG
Misc : A629_1UG
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\A629_1UG.M
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Aug 02 11:58:48 2023



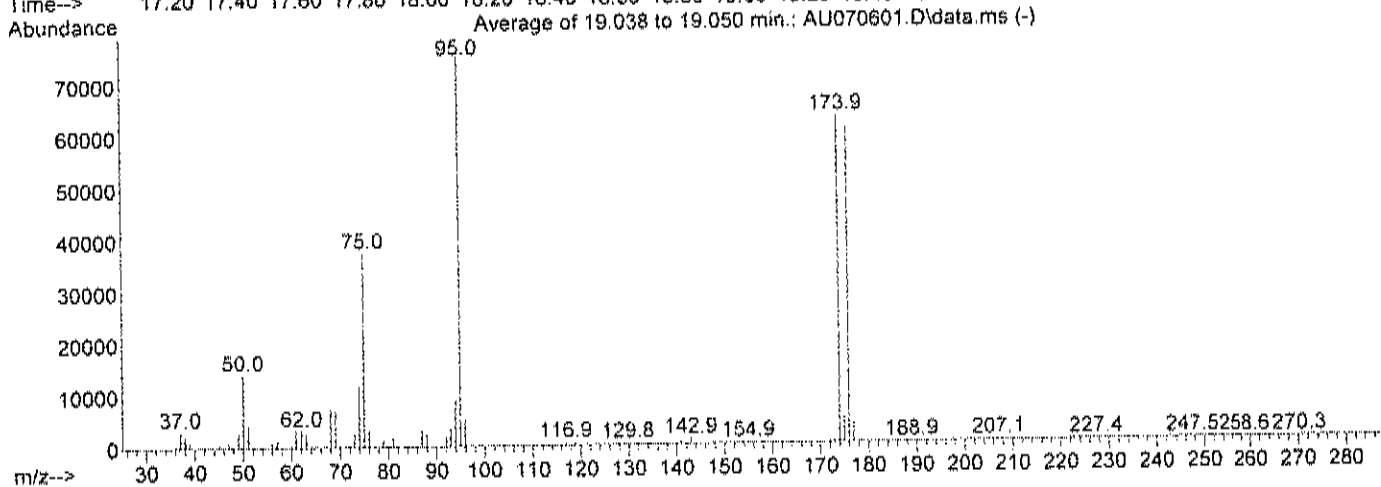
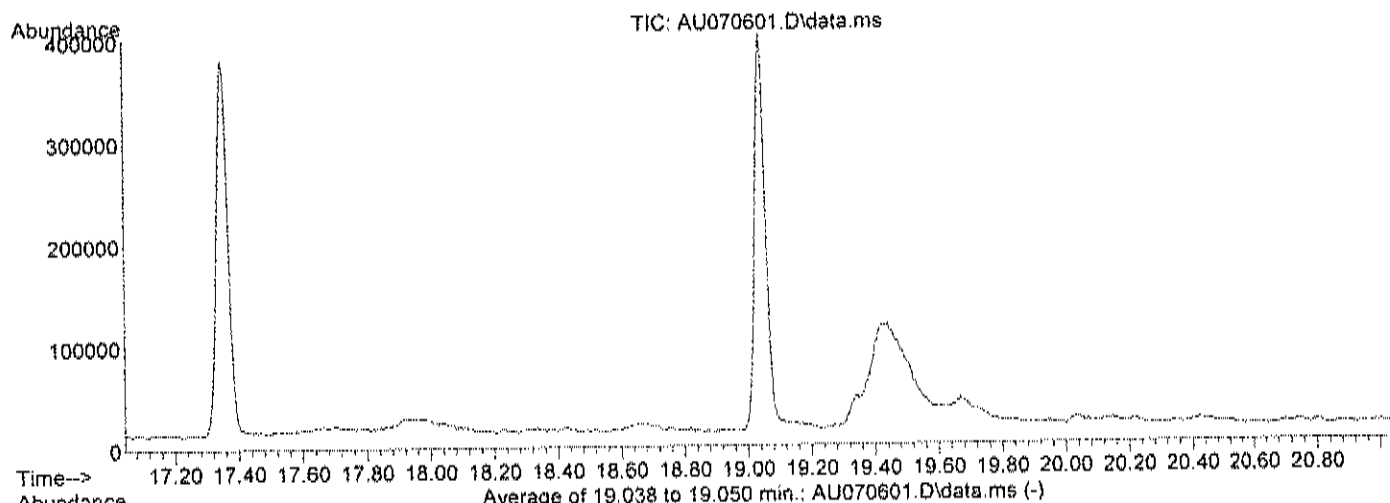
Spectrum Information: Average of 18.806 to 18.817 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.9	12289	PASS
75	95	30	66	51.8	33768	PASS
95	95	100	100	100.0	65131	PASS
96	95	5	9	6.5	4253	PASS
173	174	0.00	2	0.7	385	PASS
174	95	50	120	83.5	54397	PASS
175	174	4	9	7.4	4020	PASS
176	174	95	101	95.2	51774	PASS
177	176	5	9	6.5	3373	PASS

Data Path : C:\msdchem\1\data\
Data File : AU070601.D
Acq On : 6 Jul 2023 5:42 am
Operator : RJP
Sample : BFB1UG
Misc : A629_1UG
ALS Vial : 20 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\A629_1UG.M
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Aug 02 11:58:48 2023



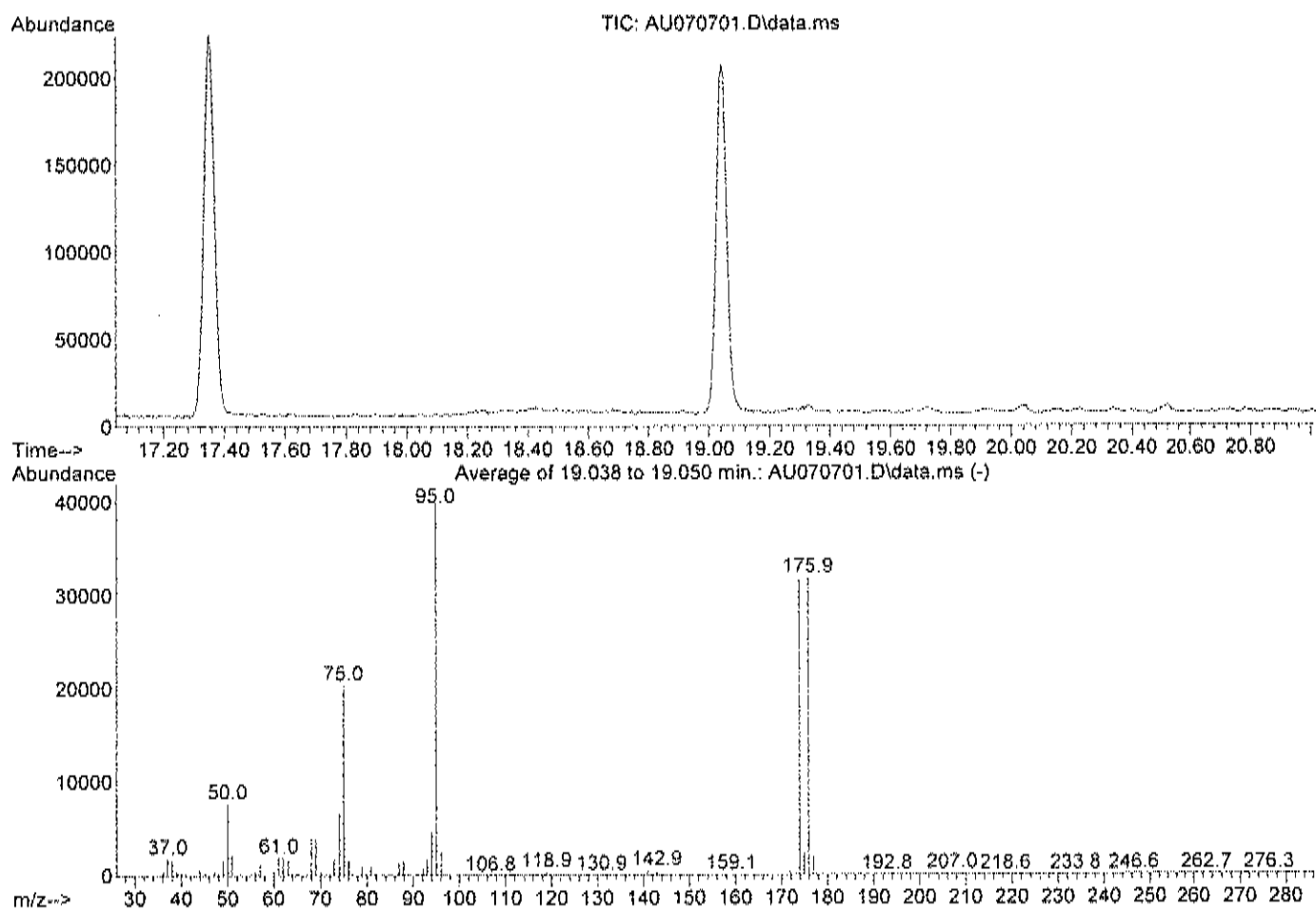
Spectrum Information: Average of 19.038 to 19.050 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.6	14081	PASS
75	95	30	66	49.7	37547	PASS
95	95	100	100	100.0	75572	PASS
96	95	5	9	6.9	5220	PASS
173	174	0.00	2	0.7	445	PASS
174	95	50	120	83.6	63189	PASS
175	174	4	9	7.6	4791	PASS
176	174	95	101	96.4	60925	PASS
177	176	5	9	6.4	3890	PASS

Data Path : C:\msdchem\1\data\
Data File : AU070701.D
Acq On : 7 Jul 2023 5:22 am
Operator : RJP
Sample : BFB1UG
Misc : A629_1UG
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\A629_1UG.M
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Aug 02 11:58:48 2023



Spectrum Information: Average of 19.038 to 19.050 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.3	7680	PASS
75	95	30	66	51.3	20464	PASS
95	95	100	100	100.0	39883	PASS
96	95	5	9	6.6	2643	PASS
173	174	0.00	2	0.8	262	PASS
174	95	50	120	79.2	31581	PASS
175	174	4	9	7.5	2371	PASS
176	174	95	101	100.9	31872	PASS
177	176	5	9	6.2	1981	PASS

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

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Date: 02-Aug-23

ANALYTICAL QC SUMMARY REPORT

CLIENT: SOIL MECHANICS
Work Order: C2307002
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: AMB1UG-070523	Sample Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbv	Prep Date:	RunNo: 20587						
Client ID: ZZZZZ	Batch ID: R20587	TestNo: TO-15		Analysis Date: 7/5/2023	SeqNo: 235674						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Quantifiers:	H	R	Results reported are not blank corrected	DL	Detection Limit	J	Analyte detected below quantitation limit	S	Spike Recovery outside accepted recovery limits	E	Estimated Value above quantitation range
			Holding times for preparation or analysis exceeded							ND	Not Detected at the Limit of Detection
			RPD outside accepted recovery limits								

CLIENT: SOIL MECHANICS
 Work Order: C2307002
 Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: AMB1UG-070523	Sample Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20587						
Client ID: ZZZZZ	Batch ID: R20587	TestNo: TO-15		Analysis Date: 7/5/2023	SeqNo: 235674						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HightLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m,p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: SOIL MECHANICS
 Work Order: C2307002
 Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: AMB1UG-070523	Sample Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20587						
Client ID: ZZZZZ	Batch ID: R20587	TestNo: TO-15		Analysis Date: 7/6/2023	SeqNo: 235674						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID: AMB1UG-070623	Sample Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20588						
Client ID: ZZZZZ	Batch ID: R20588	TestNo: TO-15		Analysis Date: 7/6/2023	SeqNo: 235656						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
2,4-ethyltoluene	< 0.15	0.15									

Qualifiers: H Results reported are not blank corrected
 R Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS
Work Order: C2307002
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: AMB1UG-070623	Sample Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20588						
Client ID: ZZZZZ	Batch ID: R20588	TestNo: TO-15		Analysis Date: 7/6/2023	SeqNo: 235696						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:

H	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
R	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: SOIL MECHANICS
Work Order: C2307002
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: AMB1UG-070623	Sample Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20588						
Client ID: ZZZZZ	Batch ID: R20588	TestNo: TO-15		Analysis Date: 7/6/2023	SeqNo: 235696						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID: AMB1UG-070723	Sample Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20589						
Client ID: ZZZZZ	Batch ID: R20589	TestNo: TO-15		Analysis Date: 7/7/2023	SeqNo: 236719						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									

Qualifiers:

H	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
R	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: SOIL MECHANICS
Work Order: C2307002
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: AMB1UG-070723	Samp Type: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20589
Client ID: ZZZZZ	Batch ID: R20589	TestNo: TO-15		Analysis Date: 7/7/2023	SeqNo: 235719

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									

Qualifiers:	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: SOIL MECHANICS
Work Order: C2307002
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: AMB1UG-070723	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbv	Prep Date:	RunNo: 20589						
Client ID: ZZZZZ	Batch ID: R20589	TestNo: TO-15		Analysis Date: 7/7/2023	SeqNo: 235719						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantization limit	ND	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Data Path : C:\msdchem\1\data\
Data File : AU070505.D
Acq On : 5 Jul 2023 9:07 am
Operator : RJP
Sample : AMB1UG-070523
Misc : A629_1UG
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 05 10:00:02 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Sat Jul 01 14:27:33 2023
Response via : Initial Calibration

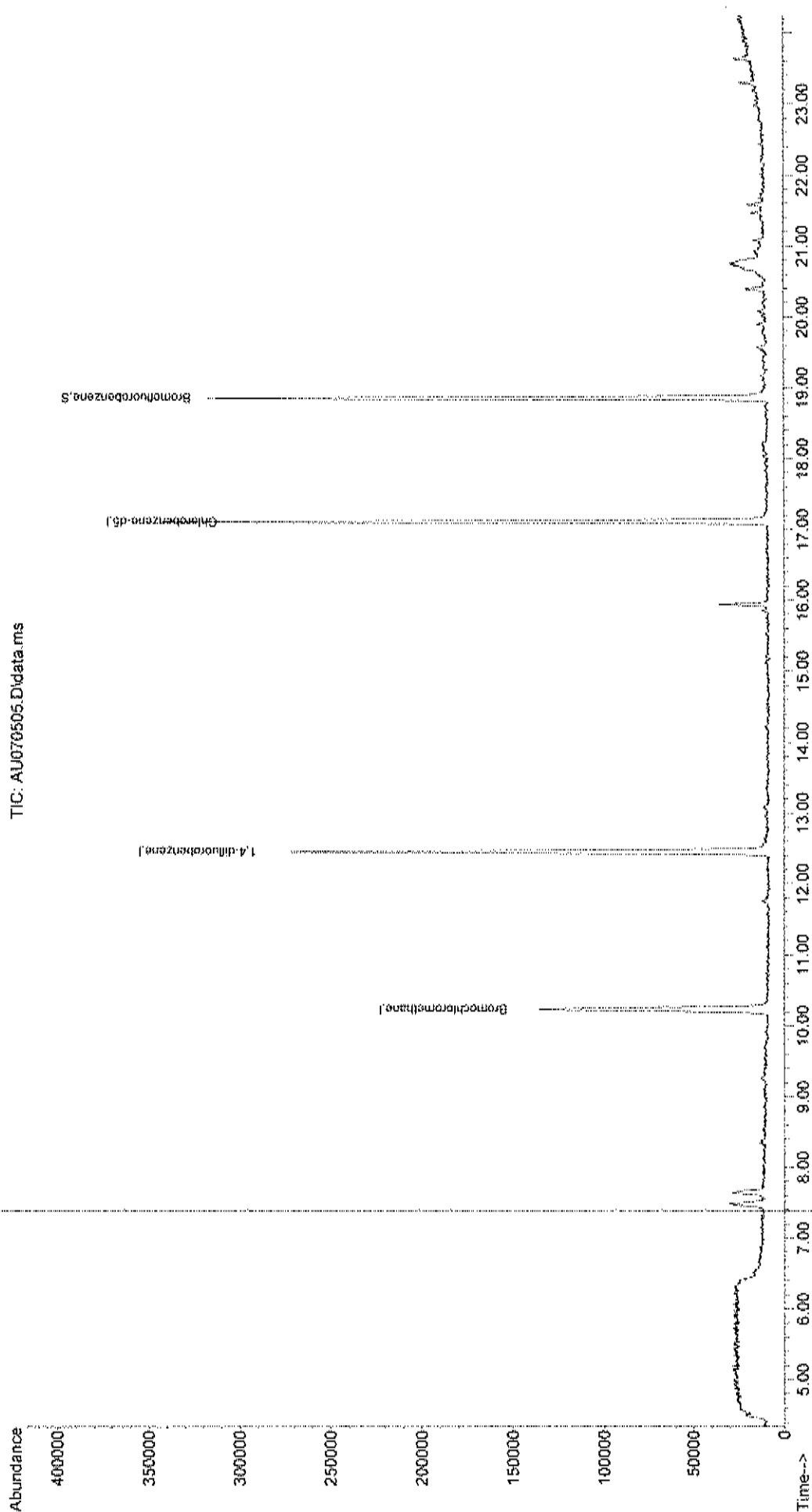
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.233	128	61838	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.450	114	299091	1.00	ppb	0.00
50) Chlorobenzene-d5	17.111	117	255385	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.863	95	150003	0.78	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	78.00%

Target Compounds	Qvalue
------------------	--------

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

Data Path : C:\msdchem\1\data\
 Data File : AU070505.D
 Acq On : 5 Jul 2023 9:07 am
 Operator : RJP
 Sample : AMB1UG-070523
 Misc : A629_1UG
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 05 10:00:02 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 14:27:33 2023
 Response via : Initial Calibration



Data Path : C:\msdchem\1\data\
Data File : AU070606.D
Acq On : 6 Jul 2023 9:32 am
Operator : RJP
Sample : AMB1UG-070623
Misc : A629 1UG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 06 19:38:13 2023
Quant Method : C:\msdchem\1\methods\A629 1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	10.551	128	65057	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.728	114	317303	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	247605	1.00	ppb	0.00

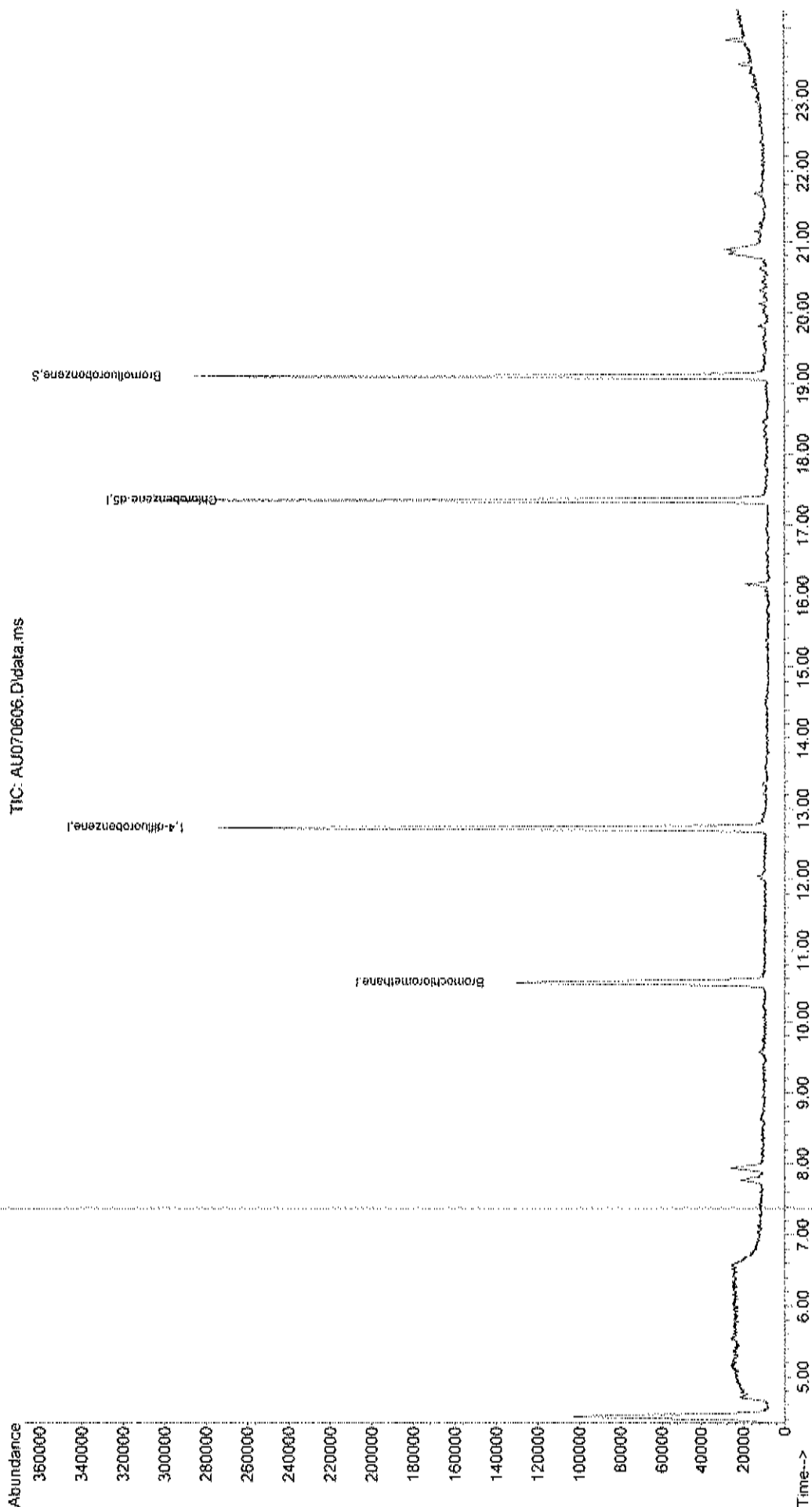
System Monitoring Compounds

65) Bromofluorobenzene	19.095	95	140949	0.76	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	76.00%

Target Compounds	Qvalue

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

Data Path : C:\msdchem\1\data\
 Data File : AU070606.D
 Acq On : 6 Jul 2023 9:32 am
 Operator : RJP
 Sample : AMB1UG-070623
 Misc : A629_1UG
 ALS Vial : 3 Sample Multiplier: 1
 Quant Time: Jul 06 19:38:13 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration



Data Path : C:\msdchem\1\data\
Data File : AU070705.D
Acq On : 7 Jul 2023 9:42 am
Operator : RJP
Sample : AMB1UG-070723
Misc : A629_1UG
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 11:11:41 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	10.545	128	49444	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	249517	1.00	ppb	0.00
50) Chlorobenzene-d5	17.355	117	210908	1.00	ppb	0.00

System Monitoring Compounds

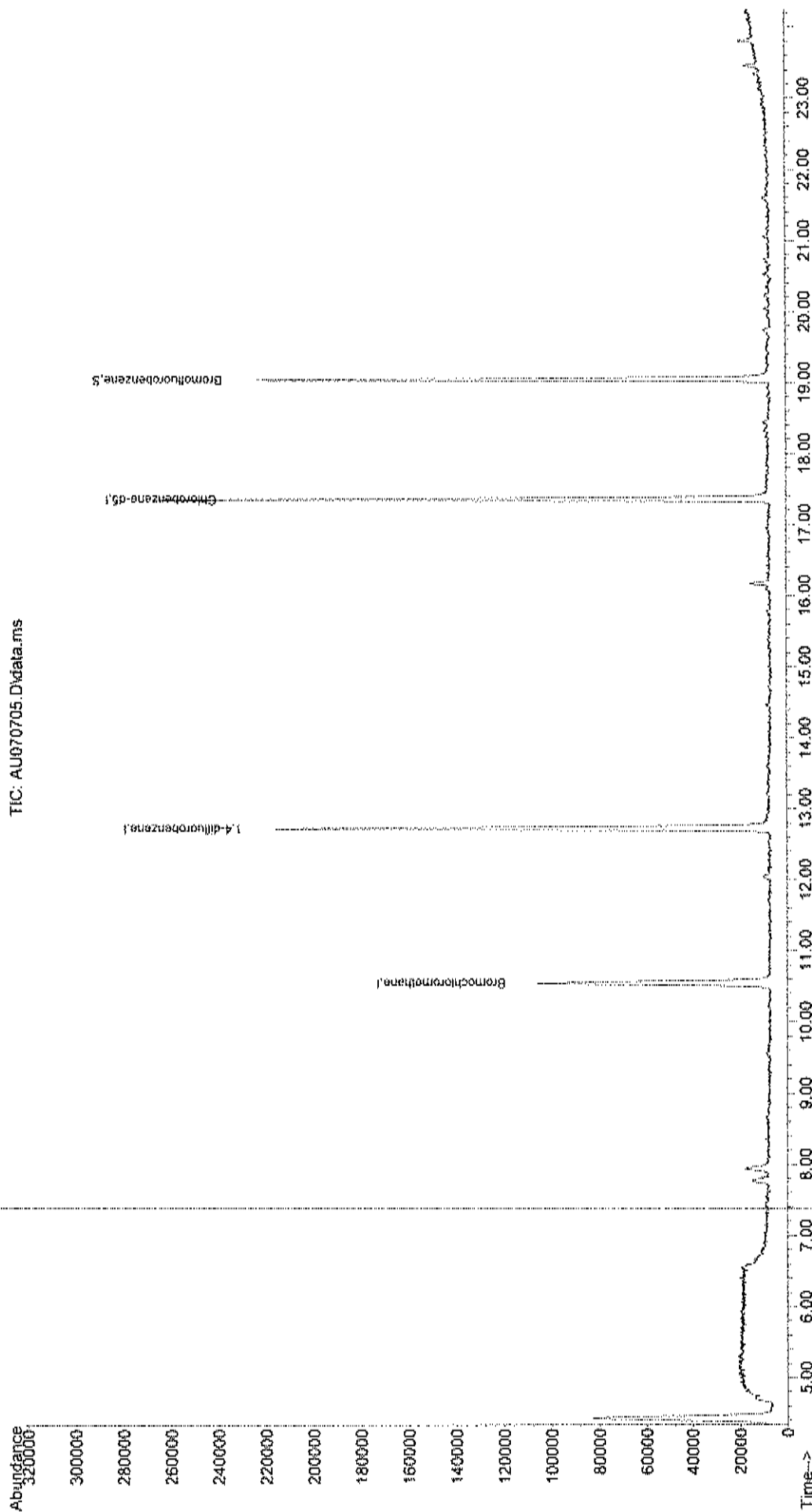
65) Bromofluorobenzene	19.044	95	112400m	0.71	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	71.00%

Target Compounds	Qvalue

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

Data Path : C:\msdchem\1\data\
 Data File : AU070705.D
 Acq On : 7 Jul 2023 9:42 am
 Operator : RJP
 Sample : AMB1UG-070723
 Misc : A629_1UG
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 11:11:41 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 Qlast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration





CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

Date: 02-Aug-23

CLIENT: SOIL MECHANICS
Work Order: C2307002
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALC51UG-070523	Sample Type: LCS	TestCode: 1ugM3_TO15	Units: ppbv	Prep Date:	RunNo: 20587						
Client ID: ZZZZZ	Batch ID: R20587	TestNo: TO-15		Analysis Date: 7/5/2023	SeqNo: 235675						
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	1.120	0.15	1	0	112	70	130				
1,1,2,2-Tetrachloroethane	1.250	0.15	1	0	125	70	130				
1,1,2-Trichloroethane	1.210	0.15	1	0	121	70	130				
1,1-Dichloroethane	0.9500	0.15	1	0	95.0	70	130				
1,1-Dichloroethene	0.9390	0.15	1	0	93.0	70	130				
1,2,4-Trichlorobenzene	1.170	0.15	1	0	117	70	130				
1,2,4-Trimethylbenzene	1.000	0.15	1	0	100	70	130				
1,2-Dibromoethane	1.140	0.15	1	0	114	70	130				
1,2-Dichlorobenzene	1.290	0.15	1	0	129	70	130				
1,2-Dichloroethane	0.9700	0.15	1	0	97.0	70	130				
1,2-Dichloropropane	1.090	0.15	1	0	109	70	130				
1,3,5-Trimethylbenzene	1.110	0.15	1	0	111	70	130				
1,3-butadiene	1.130	0.15	1	0	113	70	130				
1,3-Dichlorobenzene	1.240	0.15	1	0	124	70	130				
1,4-Dichlorobenzene	1.270	0.15	1	0	127	70	130				
1,4-Dioxane	0.7700	0.30	1	0	77.0	70	130				
2,2,4-trimethylpentane	0.9600	0.15	1	0	96.0	70	130				
4-ethyltoluene	1.100	0.15	1	0	110	70	130				
Acetone	1.040	0.30	1	0	104	70	130				
Allyl chloride	0.7700	0.15	1	0	77.0	70	130				
Benzene	1.090	0.15	1	0	109	70	130				
Benzyl chloride	0.5100	0.15	1	0	51.0	70	130				
Bromodichloromethane	1.260	0.15	1	0	126	70	130				
Bromoform	1.220	0.15	1	0	122	70	130				
Bromomethane	1.210	0.15	1	0	121	70	130				

S

Qualifiers: H Holding times for preparation or analysis exceeded R RPD outside accepted recovery limits
DL Detection Limit
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits
E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS
 Work Order: C2307002
 Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCSTUG-070523	Sample Type: LCS	TestCode: 1ugM3_TO15	Units: ppbv	Prep Date: 7/6/2023	RunNo: 20587						
Client ID: ZZZZZ	Batch ID: R20587	TestNo: TO-15		Analysis Date: 7/6/2023	SeqNo: 23675						
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9400	0.15	1	0	94.0	70	130				
Carbon tetrachloride	1.070	0.15	1	0	107	70	130				
Chlorobenzene	1.120	0.15	1	0	112	70	130				
Chloroethane	1.120	0.15	1	0	112	70	130				
Chloroform	1.030	0.15	1	0	103	70	130				
Chloromethane	1.200	0.15	1	0	120	70	130				
cis-1,2-Dichloroethene	0.8800	0.15	1	0	88.0	70	130				
cis-1,3-Dichloropropene	0.9600	0.15	1	0	96.0	70	130				
Cyclohexane	0.9400	0.15	1	0	94.0	70	130				
Dibromochloromethane	1.180	0.15	1	0	118	70	130				
Ethyl acetate	0.9900	0.15	1	0	99.0	70	130				
Ethylbenzene	1.000	0.15	1	0	100	70	130				
Freon 11	1.160	0.15	1	0	116	70	130				
Freon 113	1.090	0.15	1	0	109	70	130				
Freon 114	1.340	0.15	1	0	134	70	130				
Freon 12	1.130	0.15	1	0	113	70	130				
Heptane	0.9100	0.15	1	0	91.0	70	130				
Hexachloro-1,3-butadiene	1.450	0.15	1	0	145	70	130				
Hexane	0.8200	0.15	1	0	82.0	70	130				
Isopropyl alcohol	0.7000	0.15	1	0	70.0	70	130				
mBp-Xylene	2.130	0.30	2	0	106	70	130				
Methyl Butyl Ketone	0.6900	0.30	1	0	69.0	70	130				
Methyl Ethyl Ketone	0.7600	0.30	1	0	76.0	70	130				
Methyl Isobutyl Ketone	0.7400	0.30	1	0	74.0	70	130				
Methyl tert-butyl ether	0.7300	0.15	1	0	73.0	70	130				
Methylene chloride	0.9100	0.15	1	0	91.0	70	130				
o-Xylene	1.160	0.15	1	0	116	70	130				
Propylene	0.8600	0.15	1	0	86.0	70	130				
Styrene	1.030	0.15	1	0	103	70	130				
Tetrachloroethylene	1.210	0.15	1	0	121	70	130				
Tetrahydrofuran	0.6600	0.15	1	0	66.0	70	130				

Qualifiers: Results reported are not blank corrected
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

DL Detection Limit
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

Page 2 of 7

CLIENT: SOIL MECHANICS
 Work Order: C2307002
 Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCSTUG-070623	Sample Type: LCS	TestCode: 1ugM3_TO15	Units: ppbv	Prep Date:	RunNo: 20587						
Client ID: ZZZZZ	Batch ID: R20587	TestNo: TO-15		Analysis Date: 7/6/2023	SeqNo: 235675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	1.020	0.15	1	0	102	70	130				
trans-1,2-Dichloroethene	0.9500	0.15	1	0	95.0	70	130				
trans-1,3-Dichloropropene	0.7600	0.15	1	0	76.0	70	130				
Trichloroethene	1.160	0.15	1	0	116	70	130				
Vinyl acetate	0.4000	0.15	1	0	40.0	70	130				
Vinyl Bromide	1.190	0.15	1	0	119	70	130				
Vinyl chloride	1.230	0.15	1	0	123	70	130				

S

Sample ID: ALCSTUG-070623	Sample Type: LCS	TestCode: 1ugM3_TO15	Units: ppbv	Prep Date:	RunNo: 20588						
Client ID: ZZZZZZ	Batch ID: R20588	TestNo: TO-15		Analysis Date: 7/6/2023	SeqNo: 235697						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	0.9700	0.15	1	0	97.0	70	130				
1,1,2,2-Tetrachloroethane	1.030	0.15	1	0	103	70	130				
1,1,2-Trichloroethane	1.060	0.15	1	0	106	70	130				
1,1-Dichloroethane	0.8400	0.15	1	0	84.0	70	130				
1,1-Dichloroethane	0.9200	0.15	1	0	92.0	70	130				
1,2,4-Trichlorobenzene	0.8900	0.15	1	0	89.0	70	130				
1,2,4-Trimethylbenzene	0.8300	0.15	1	0	83.0	70	130				
1,2-Dibromoethane	0.9900	0.15	1	0	99.0	70	130				
1,2-Dichlorobenzene	1.070	0.15	1	0	107	70	130				
1,2-Dichloroethane	0.8400	0.15	1	0	84.0	70	130				
1,2-Dichloroethane	0.9400	0.15	1	0	94.0	70	130				
1,3,5-Trimethylbenzene	0.9200	0.15	1	0	92.0	70	130				
1,3-Butadiene	0.9400	0.15	1	0	94.0	70	130				
1,3-Dichlorobenzene	1.040	0.15	1	0	104	70	130				
1,4-Dichlorobenzene	1.210	0.15	1	0	121	70	130				
1,4-Dioxane	0.8000	0.30	1	0	80.0	70	130				
2,2,4-trimethylpentane	0.8500	0.15	1	0	85.0	70	130				
4-ethyltoluene	0.9000	0.15	1	0	90.0	70	130				

Qualifiers: Results reported are not blank corrected
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 DL Detection Limit
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 NND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS
 Work Order: C2307002
 Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCSTUG-070623	Sample Type: LCS	TestCode: 1ugM3_TO15	Units: ppbv	Prep Date: 7/6/2023	RunNo: 20588						
Client ID: ZZZZZZ	Batch ID: R20588	TestNo: TO-15		Analysis Date: 7/6/2023	SeqNo: 235897						
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acetone	0.9400	0.30	1	0	94.0	70	130				
Allyl chloride	0.7500	0.15	1	0	75.0	70	130				
Benzene	0.9700	0.15	1	0	97.0	70	130				
Benzyl chloride	0.6300	0.15	1	0	63.0	70	130				
Bromodichloromethane	1.070	0.15	1	0	107	70	130				
Bromoform	1.020	0.15	1	0	102	70	130				
Bromomethane	1.090	0.15	1	0	109	70	130				
Carbon disulfide	0.8900	0.15	1	0	89.0	70	130				
Carbon tetrachloride	0.9300	0.15	1	0	93.0	70	130				
Chlorobenzene	0.9800	0.15	1	0	98.0	70	130				
Chloroethane	1.030	0.15	1	0	103	70	130				
Chloroform	0.9500	0.15	1	0	95.0	70	130				
Chloromethane	1.030	0.15	1	0	103	70	130				
cis-1,2-Dichloroethene	0.8000	0.15	1	0	80.0	70	130				
cis-1,3-Dichloropropene	0.8500	0.15	1	0	85.0	70	130				
Cyclohexane	0.8300	0.15	1	0	83.0	70	130				
Dibromochloromethane	1.000	0.15	1	0	100	70	130				
Ethyl acetate	0.9100	0.15	1	0	91.0	70	130				
Ethylbenzene	0.8500	0.15	1	0	85.0	70	130				
Freon 11	1.000	0.15	1	0	100	70	130				
Freon 113	0.9800	0.15	1	0	98.0	70	130				
Freon 114	1.170	0.15	1	0	117	70	130				
Freon 12	0.9900	0.15	1	0	99.0	70	130				
Heptane	0.8000	0.15	1	0	80.0	70	130				
Hexachloro-1,3-butadiene	1.230	0.15	1	0	123	70	130				
Hexane	0.7500	0.15	1	0	75.0	70	130				
Isopropyl alcohol	0.7600	0.15	1	0	76.0	70	130				
m,p-Xylene	1.790	0.30	2	0	89.5	70	130				
Methyl Butyl Ketone	0.6800	0.30	1	0	68.0	70	130				
Methyl Ethyl Ketone	0.7800	0.30	1	0	78.0	70	130				
Methyl Isobutyl Ketone	0.6800	0.30	1	0	68.0	70	130				

Qualifiers: Results reported are not blank corrected
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 DL Detection Limit
 j Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS
 Work Order: C2307002
 Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCSTUG-070623	Sample Type: LCS	TestCode: 1ugM3_TO15	Units: ppbv	Prep Date:	RunNo: 20588						
Client ID: ZZZZZ	Batch ID: R20588	TestNo: TO-15		Analysis Date: 7/6/2023	SeqNo: 235697						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether	0.7000	0.15	1	0	70.0	70	130				
Methylene chloride	0.7100	0.15	1	0	71.0	70	130				
o-Xylene	0.9600	0.15	1	0	96.0	70	130				
Propylene	0.7100	0.15	1	0	71.0	70	130				
Styrene	0.6700	0.15	1	0	67.0	70	130				
Tetrachloroethylene	1.030	0.15	1	0	103	70	130				
Tetrahydrofuran	0.8500	0.15	1	0	85.0	70	130				
Toluene	0.8800	0.15	1	0	88.0	70	130				
trans-1,2-Dichloroethene	0.6500	0.15	1	0	65.0	70	130				
trans-1,3-Dichloropropene	0.7300	0.15	1	0	73.0	70	130				
Trichloroethene	0.9900	0.15	1	0	99.0	70	130				
Vinyl acetate	0.3900	0.15	1	0	39.0	70	130				
Vinyl Bromide	1.080	0.15	1	0	108	70	130				
Vinyl chloride	1.070	0.15	1	0	107	70	130				

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Sample ID: ALCSTUG-070723	Sample Type: LCS	TestCode: 1ugM3_TO15	Units: ppbv	Prep Date:	RunNo: 20589						
Client ID: ZZZZZ	Batch ID: R20589	TestNo: TO-15		Analysis Date: 7/7/2023	SeqNo: 235720						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	1.260	0.15	1	0	126	70	130				
1,1,2,2-Tetrachloroethane	1.270	0.15	1	0	127	70	130				
1,1,2-Trichloroethane	1.350	0.15	1	0	135	70	130				
1,1-Dichloroethane	1.100	0.15	1	0	110	70	130				
1,1-Dichloroethene	1.100	0.15	1	0	110	70	130				
1,2,4-Trichlorobenzene	1.120	0.15	1	0	112	70	130				
1,2,4-Trimethylbenzene	0.9800	0.15	1	0	98.0	70	130				
1,2-Dibromoethane	1.280	0.15	1	0	128	70	130				
1,2-Dichlorobenzene	1.260	0.15	1	0	126	70	130				
1,2-Dichloroethane	1.120	0.15	1	0	112	70	130				
1,2-Dichloropropane	1.220	0.15	1	0	122	70	130				

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Qualifiers: H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 D1 Detection Limit
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 NID Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS
 Work Order: C2307002
 Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCSTUG-070723		Sample Type: LCS	Test Code: 1ugM3_TO15	Units: ppbv	Prep Date: 7/7/2023	Run No: 20589					
Client ID: ZZZZZ		Batch ID: R20589	Test No: TO-15		Analysis Date: 7/7/2023	Seq No: 235720					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,3,5-Trimethylbenzene	1.100	0.15	1	0	110	70	130				S
1,3-butadiene	1.260	0.15	1	0	126	70	130				
1,3-Dichlorobenzene	1.220	0.15	1	0	122	70	130				
1,4-Dichlorobenzene	1.710	0.15	1	0	171	70	130				
1,4-Dioxane	0.9900	0.30	1	0	99.0	70	130				
2,2,4-Trimethylpentane	1.130	0.15	1	0	113	70	130				
4-ethyltoluene	1.100	0.15	1	0	110	70	130				
Acetone	0.9900	0.30	1	0	99.0	70	130				
Allyl chloride	0.9000	0.15	1	0	90.0	70	130				
Benzene	1.260	0.15	1	0	126	70	130				
Benzyl chloride	0.5900	0.15	1	0	59.0	70	130				S
Bromodichloromethane	1.310	0.15	1	0	131	70	130				S
Bromomethane	1.260	0.15	1	0	126	70	130				S
Carbon disulfide	1.310	0.15	1	0	131	70	130				S
Carbon tetrachloride	1.060	0.15	1	0	106	70	130				
Chlorobenzene	1.270	0.15	1	0	127	70	130				
Chloroethane	1.280	0.15	1	0	128	70	130				
Chloroform	1.390	0.15	1	0	139	70	130				
Chloromethane	1.190	0.15	1	0	119	70	130				
cis-1,2-Dichloroethene	1.250	0.15	1	0	125	70	130				
cis-1,3-Dichloropropene	1.020	0.15	1	0	102	70	130				
Cyclohexane	1.080	0.15	1	0	108	70	130				
Dibromochloromethane	1.110	0.15	1	0	111	70	130				
Diethyl acetate	1.220	0.15	1	0	122	70	130				S
Ethylbenzene	1.210	0.15	1	0	121	70	130				
Freon 11	1.130	0.15	1	0	113	70	130				
Freon 113	1.270	0.15	1	0	127	70	130				
Freon 114	1.270	0.15	1	0	127	70	130				
Freon 12	1.510	0.15	1	0	151	70	130				
Heptane	1.260	0.15	1	0	126	70	130				
	1.040	0.15	1	0	104	70	130				

Qualifiers: Results reported are not blank corrected
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 DL Detection Limit
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 NID Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS
Work Order: C2307002
Project: IKEA Red Hook

TestCode: lugM3_TO15

Sample ID: ALC31UG-070723	Sample Type: LCS	Test Code: 1ugM3_TO15	Units: ppbv	Prep Date: 7/7/2023	Run No: 20589						
Client ID: ZZZZZ	Batch ID: R20589	Test No: TO-15		Analysis Date: 7/7/2023	Seq No: 235720						
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Hexachloro-1,3-butadiene	1.540	0.15	1	0	154	70	130				S
Hexane	1.000	0.15	1	0	100	70	130				
Isopropyl alcohol	0.9200	0.15	1	0	92.0	70	130				
m,p-Xylene	2.250	0.30	2	0	112	70	130				
Methyl Butyl Ketone	0.7800	0.30	1	0	78.0	70	130				
Methyl Ethyl Ketone	0.9600	0.30	1	0	96.0	70	130				
Methyl Isobutyl Ketone	0.8600	0.30	1	0	86.0	70	130				
Methyl tert-butyl ether	0.8700	0.15	1	0	87.0	70	130				
Methylene chloride	0.7100	0.15	1	0	71.0	70	130				
o-Xylene	1.170	0.15	1	0	117	70	130				
Propylene	0.9000	0.15	1	0	90.0	70	130				
Styrene	1.060	0.15	1	0	106	70	130				
Tetrachloroethylene	1.180	0.15	1	0	118	70	130				
Tetrahydrofuran	0.8400	0.15	1	0	84.0	70	130				
Toluene	1.150	0.15	1	0	115	70	130				
trans-1,2-Dichloroethene	1.140	0.15	1	0	114	70	130				
trans-1,3-Dichloropropene	0.9700	0.15	1	0	97.0	70	130				
Trichloroethene	1.240	0.15	1	0	124	70	130				
Vinyl acetate	0.7600	0.15	1	0	76.0	70	130				S
Vinyl Bromide	1.320	0.15	1	0	132	70	130				S
Vinyl chloride	1.400	0.15	1	0	140	70	130				S

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Qualifiers:

H	Results reported are not blank corrected	DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	N/D	Not Detected at the Limit of Detection
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

Data Path : C:\msdchem\1\data\
 Data File : AU070503.D
 Acq On : 5 Jul 2023 7:44 am
 Operator : RJP
 Sample : ALCS1UG-070523
 Misc : A629_1UG
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 05 08:13:49 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 14:27:33 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	10.239	128	61606	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.444	114	303749	1.00	ppb	0.00
50) Chlorobenzene-d5	17.111	117	264076	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.857	95	207924	1.05	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	= 105.00%	
Target Compounds						
					Qvalue	
2) Propylene	4.461	41	76240	0.86	ppb	57
3) Freon 12	4.524	85	287281	1.13	ppb	98
4) Chloromethane	4.734	50	96853	1.20	ppb	99
5) Freon 114	4.734	85	279810	1.34	ppb	98
6) Vinyl Chloride	4.932	62	94027	1.23	ppb	100
7) Butane	5.051	43	122238	1.20	ppb	94
8) 1,3-butadiene	5.051	39	90209	1.13	ppb	90
9) Bromomethane	5.420	94	93063	1.21	ppb	94
10) Chloroethane	5.595	64	47329	1.12	ppb	99
11) Ethanol	6.508	45	131177	0.70	ppb	# 72
12) Acrolein	6.298	56	32287	0.98	ppb	92
13) Vinyl Bromide	5.941	106	99934	1.19	ppb	100
14) Freon 11	6.236	101	295833	1.16	ppb	98
15) Acetone	6.401	58	76011m	1.04	ppb	
16) Pentane	6.514	42	118803	0.98	ppb	95
17) Isopropyl alcohol	6.508	45	131177	0.70	ppb	# 71
18) 1,1-dichloroethene	7.024	96	85588	0.93	ppb	# 80
19) Freon 113	7.223	101	204861	1.09	ppb	98
20) t-Butyl alcohol	7.240	59	143640	0.62	ppb	# 69
21) Methylene chloride	7.489	84	140450	0.91	ppb	# 86
22) Allyl chloride	7.466	41	118970	0.77	ppb	90
23) Carbon disulfide	7.654	76	305801	0.94	ppb	99
24) trans-1,2-dichloroethene	8.430	61	138393	0.95	ppb	90
25) methyl tert-butyl ether	8.436	73	228089	0.73	ppb	69
26) 1,1-dichloroethane	8.855	63	176751	0.95	ppb	97
27) Vinyl acetate	8.833	43	107510	0.40	ppb	95
28) Methyl Ethyl Ketone	9.326	72	43897	0.76	ppb	# 1
29) cis-1,2-dichloroethene	9.791	61	124581	0.88	ppb	88
30) Hexane	9.388	57	149931	0.82	ppb	82
31) Ethyl acetate	9.921	43	254885	0.99	ppb	96
32) Chloroform	10.386	83	210003	1.03	ppb	100
33) Tetrahydrofuran	10.556	42	81111	0.66	ppb	90
34) 1,2-dichloroethane	11.475	62	145848	0.97	ppb	98
36) 1,1,1-trichloroethane	11.208	97	199151	1.12	ppb	100
37) Cyclohexane	11.889	56	132238	0.94	ppb	93
38) Carbon tetrachloride	11.832	117	190628	1.07	ppb	100
39) Benzene	11.798	78	281602m	1.09	ppb	
40) Methyl methacrylate	13.289	41	117512	0.84	ppb	86
41) 1,4-dioxane	13.312	88	52899	0.77	ppb	87
42) 2,2,4-trimethylpentane	12.615	57	428098	0.96	ppb	90
43) Heptane	12.949	43	154756	0.91	ppb	88
44) Trichloroethene	13.074	130	131602	1.16	ppb	96

Data Path : C:\msdchem\1\data\
 Data File : AU070503.D
 Acq On : 5 Jul 2023 7:44 am
 Operator : RJP
 Sample : ALCS1UG-070523
 Misc : A629_1UG
 ALS Vial : 3 Sample Multiplier: 1

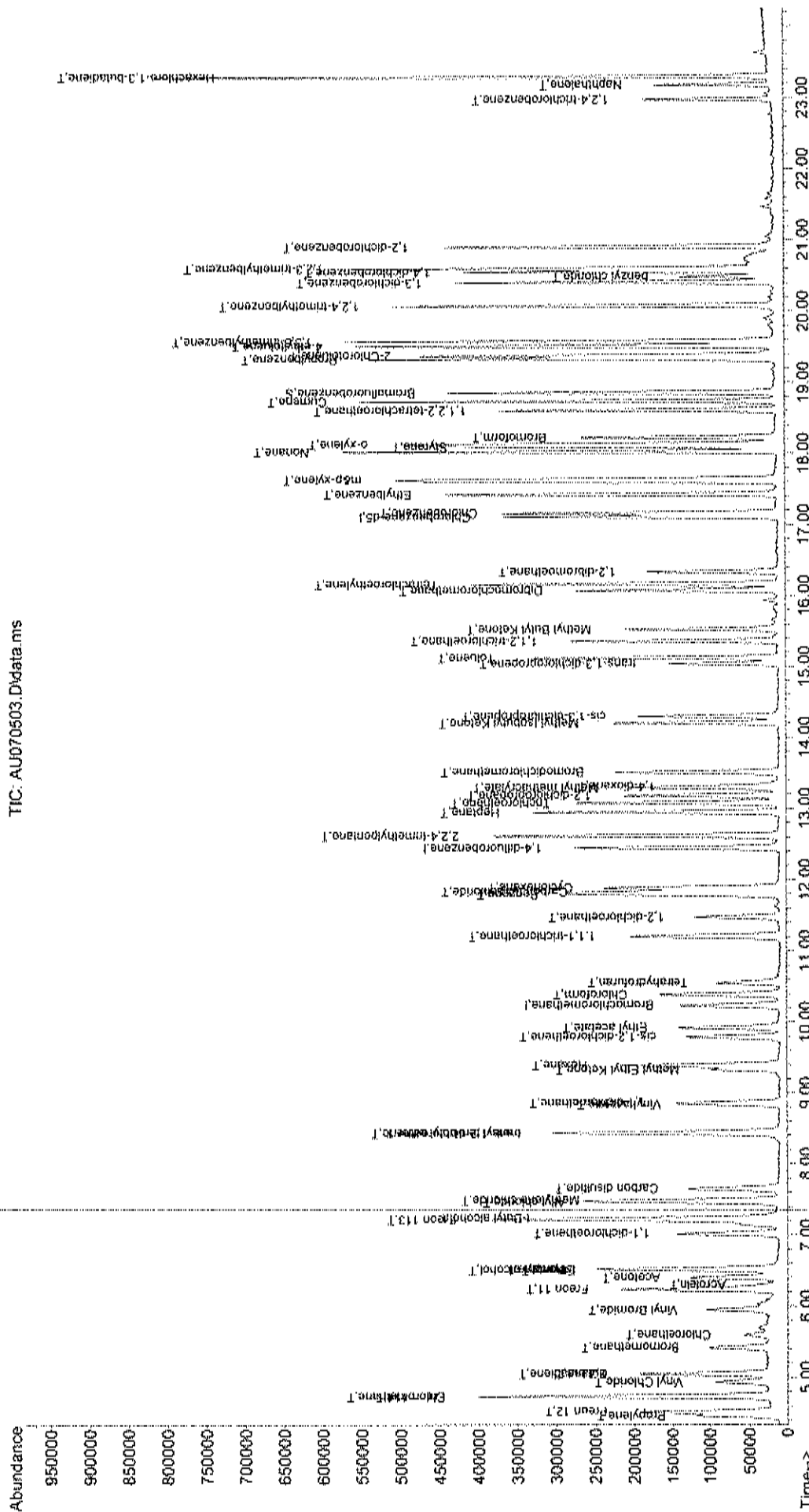
Quant Time: Jul 05 08:13:49 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 14:27:33 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.181	63	106340	1.09	ppb	99
46) Bromodichloromethane	13.510	83	212083	1.26	ppb	99
47) cis-1,3-dichloropropene	14.298	75	146333	0.96	ppb	97
48) trans-1,3-dichloropropene	15.041	75	109667m	0.76	ppb	
49) 1,1,2-trichloroethane	15.364	97	114236	1.21	ppb	100
51) Toluene	15.126	92	189715	1.02	ppb	97
52) Methyl Isobutyl Ketone	14.202	43	193375	0.74	ppb	91
53) Dibromochloromethane	16.079	129	193669	1.18	ppb	100
54) Methyl Butyl Ketone	15.529	43	178947m	0.69	ppb	
55) 1,2-dibromoethane	16.340	107	164373	1.14	ppb	98
56) Tetrachloroethylene	16.164	164	126630	1.21	ppb	100
57) Chlorobenzene	17.167	112	259117	1.12	ppb	93
58) Ethylbenzene	17.428	91	403231	1.00	ppb	96
59) m&p-xylene	17.632	91	681316	2.13	ppb	94
60) Nonane	18.029	43	224441	0.89	ppb	91
61) Styrene	18.097	104	250424	1.03	ppb	87
62) Bromoform	18.228	173	175909	1.22	ppb	100
63) o-xylene	18.131	91	378548	1.16	ppb	94
64) Cumene	18.738	105	452483	1.08	ppb	96
66) 1,1,2,2-tetrachloroethane	18.607	83	244031	1.25	ppb	100
67) Propylbenzene	19.333	120	121113	1.04	ppb	72
68) 2-Chlorotoluene	19.378	126	123519	1.22	ppb	98
69) 4-ethyltoluene	19.515	105	472239	1.10	ppb	97
70) 1,3,5-trimethylbenzene	19.577	105	407600	1.11	ppb	99
71) 1,2,4-trimethylbenzene	20.076	105	360450	1.00	ppb	95
72) 1,3-dichlorobenzene	20.405	146	235165	1.24	ppb	98
73) benzyl chloride	20.484	91	118316	0.51	ppb	99
74) 1,4-dichlorobenzene	20.552	146	227939	1.27	ppb	95
75) 1,2,3-trimethylbenzene	20.603	105	420526	1.16	ppb	98
76) 1,2-dichlorobenzene	20.904	146	231569m	1.29	ppb	
77) 1,2,4-trichlorobenzene	22.973	180	65952	1.17	ppb	99
78) Naphthalene	23.183	128	154167	0.82	ppb	99
79) Hexachloro-1,3-butadiene	23.296	225	186693	1.45	ppb	95

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

Quant Time: Jul 05 08:11:49 2023
Quant Method : C:\msdchem\1\methods\A629_IUG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
Quant Update : Sat Jul 01 14:27:33 2023
Response via : Initial Calibration

TIC: AU070503.D\data.ms



Data Path : C:\msdchem\1\data\
 Data File : AU070604.D
 Acq On : 6 Jul 2023 8:08 am
 Operator : RJP
 Sample : ALCS1UG-070623
 Misc : A629_1UG
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 19:34:58 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.540	128	59919	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	310613	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	272679	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	199263	0.97	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	97.00%
Target Compounds						Qvalue
2) Propylene	4.671	41	61570	0.71	ppb	60
3) Freon 12	4.734	85	244517	0.99	ppb	98
4) Chloromethane	4.955	50	81076	1.03	ppb	95
5) Freon 114	4.955	85	238150	1.17	ppb	98
6) Vinyl Chloride	5.165	62	79616	1.07	ppb	95
7) Butane	5.284	43	102756	1.03	ppb	97
8) 1,3-butadiene	5.289	39	73343	0.94	ppb	91
9) Bromomethane	5.664	94	81227	1.09	ppb	100
10) Chloroethane	5.845	64	42290	1.03	ppb	96
11) Ethanol	6.786	45	128801	0.70	ppb	84
12) Acrolein	6.565	56	28438	0.89	ppb	93
13) Vinyl Bromide	6.219	106	88138	1.08	ppb	99
14) Freon 11	6.514	101	248246	1.00	ppb	100
15) Acetone	6.684	58	66166	0.94	ppb	# 76
16) Pentane	6.798	42	101480	0.86	ppb	98
17) Isopropyl alcohol	6.786	45	138784m	0.76	ppb	
18) 1,1-dichloroethene	7.308	96	82771	0.92	ppb	# 86
19) Freon 113	7.512	101	178873	0.98	ppb	99
20) t-Butyl alcohol	7.523	59	144846	0.65	ppb	# 79
21) Methylene chloride	7.773	84	107779	0.71	ppb	90
22) Allyl chloride	7.756	41	112072m	0.75	ppb	
23) Carbon disulfide	7.954	76	279528	0.89	ppb	99
24) trans-1,2-dichloroethene	8.731	61	120793	0.85	ppb	92
25) methyl tert-butyl ether	8.742	73	212381m	0.70	ppb	
26) 1,1-dichloroethane	9.156	63	153314	0.84	ppb	100
27) Vinyl acetate	9.134	43	101328	0.39	ppb	97
28) Methyl Ethyl Ketone	9.627	72	43797	0.78	ppb	# 1
29) cis-1,2-dichloroethene	10.097	61	111126	0.80	ppb	87
30) Hexane	9.700	57	134647	0.75	ppb	87
31) Ethyl acetate	10.222	43	228678	0.91	ppb	95
32) Chloroform	10.698	83	188116	0.95	ppb	98
33) Tetrahydrofuran	10.868	42	101419m	0.85	ppb	
34) 1,2-dichloroethane	11.776	62	122738	0.84	ppb	99
36) 1,1,1-trichloroethane	11.509	97	176072	0.97	ppb	98
37) Cyclohexane	12.178	56	119407	0.83	ppb	95
38) Carbon tetrachloride	12.127	117	168105	0.93	ppb	98
39) Benzene	12.087	78	254913	0.97	ppb	94
40) Methyl methacrylate	13.550	41	107092	0.75	ppb	86
41) 1,4-dioxane	13.579	88	56165	0.80	ppb	90
42) 2,2,4-trimethylpentane	12.893	57	388087	0.85	ppb	94
43) Heptane	13.216	43	139128	0.80	ppb	89
44) Trichloroethene	13.346	130	114466	0.99	ppb	95

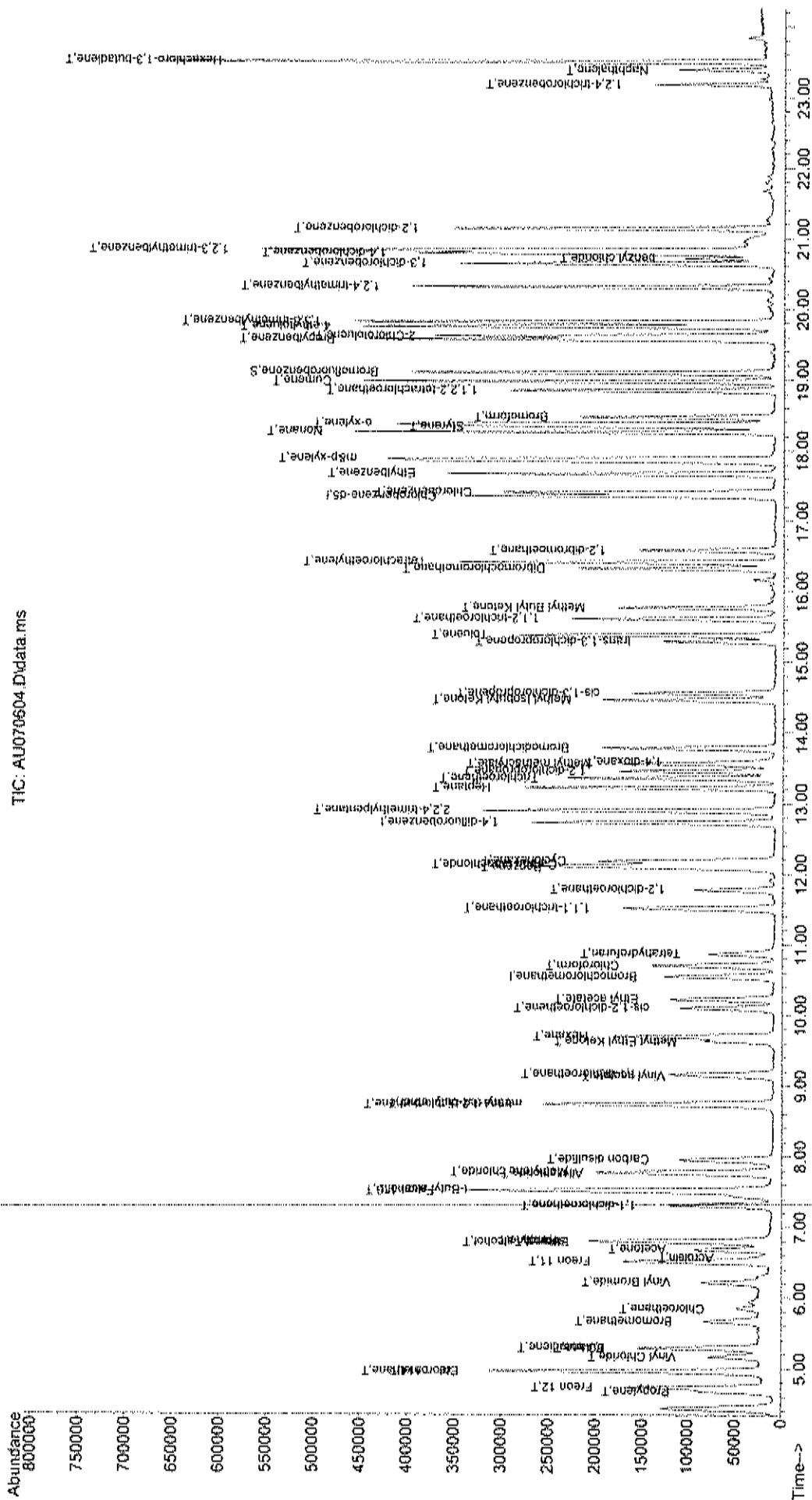
Data Path : C:\msdchem\1\data\
 Data File : AU070604.D
 Acq On : 6 Jul 2023 8:08 am
 Operator : RJP
 Sample : ALCS1UG-070623
 Misc : A629_1UG
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 19:34:58 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.448	63	94161	0.94	ppb	98
46) Bromodichloromethane	13.771	83	183795	1.07	ppb	100
47) cis-1,3-dichloropropene	14.548	75	131532	0.85	ppb	98
48) trans-1,3-dichloropropene	15.285	75	107069	0.73	ppb	99
49) 1,1,2-trichloroethane	15.608	97	102453	1.06	ppb	100
51) Toluene	15.376	92	167537	0.88	ppb	97
52) Methyl Isobutyl Ketone	14.457	43	183774m	0.68	ppb	
53) Dibromochloromethane	16.323	129	169514	1.00	ppb	99
54) Methyl Butyl Ketone	15.767	43	182369m	0.68	ppb	
55) 1,2-dibromoethane	16.578	107	145306	0.98	ppb	99
56) Tetrachloroethylene	16.413	164	111243	1.03	ppb	97
57) Chlorobenzene	17.406	112	233661	0.98	ppb	95
58) Ethylbenzene	17.666	91	352360	0.85	ppb	97
59) m&p-xylene	17.876	91	591976	1.79	ppb	95
60) Nonane	18.262	43	192700	0.74	ppb	92
61) Styrene	18.335	104	217867	0.87	ppb	89
62) Bromoform	18.472	173	151770	1.02	ppb	100
63) o-xylene	18.375	91	325565	0.96	ppb	94
64) Cumene	18.970	105	393876	0.91	ppb	96
66) 1,1,2,2-tetrachloroethane	18.846	83	208719	1.03	ppb	99
67) Propylbenzene	19.560	120	103861	0.86	ppb	# 20
68) 2-Chlorotoluene	19.605	126	104996	1.00	ppb	# 1
69) 4-ethyltoluene	19.742	105	398653	0.90	ppb	98
70) 1,3,5-trimethylbenzene	19.810	105	347500m	0.92	ppb	
71) 1,2,4-trimethylbenzene	20.308	105	308432m	0.83	ppb	
72) 1,3-dichlorobenzene	20.637	146	203940m	1.04	ppb	
73) benzyl chloride	20.711	91	150458m	0.63	ppb	
74) 1,4-dichlorobenzene	20.785	146	224471m	1.21	ppb	
75) 1,2,3-trimethylbenzene	20.824	105	427266	1.14	ppb	100
76) 1,2-dichlorobenzene	21.131	146	198227	1.07	ppb	97
77) 1,2,4-trichlorobenzene	23.177	180	51838	0.89	ppb	94
78) Naphthalene	23.381	128	104387	0.54	ppb	96
79) Hexachloro-1,3-butadiene	23.495	225	163978	1.23	ppb	96

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

Quant Time: Jul 06 19:34:58 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\
 Data File : AU070703.D
 Acq On : 7 Jul 2023 8:19 am
 Operator : RJP
 Sample : ALCS1UG-070723
 Misc : A629_1UG
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 07 15:47:42 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.539	128	48932	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	258378	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	221854	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	147756	0.88	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	88.00%
Target Compounds						
						Qvalue
2) Propylene	4.671	41	63105	0.90	ppb	57
3) Freon 12	4.728	85	253435	1.26	ppb	98
4) Chloromethane	4.949	50	80371m	1.25	ppb	
5) Freon 114	4.955	85	251073	1.51	ppb	96
6) Vinyl Chloride	5.170	62	84948	1.40	ppb	98
7) Butane	5.289	43	113645	1.40	ppb	98
8) 1,3-butadiene	5.284	39	79708	1.26	ppb	94
9) Bromomethane	5.669	94	79840m	1.31	ppb	
10) Chloroethane	5.851	64	46583	1.39	ppb	94
11) Ethanol	6.780	45	137286	0.92	ppb	95
12) Acrolein	6.559	56	27021	1.03	ppb	94
13) Vinyl Bromide	6.213	106	87967	1.32	ppb	99
14) Freon 11	6.503	101	256743m	1.27	ppb	
15) Acetone	6.673	58	56976	0.99	ppb	85
16) Pentane	6.792	42	103294	1.08	ppb	95
17) Isopropyl alcohol	6.780	45	137286	0.92	ppb	95
18) 1,1-dichloroethene	7.302	96	80617	1.10	ppb	# 84
19) Freon 113	7.506	101	188627	1.27	ppb	95
20) t-Butyl alcohol	7.518	59	155783	0.85	ppb	# 72
21) Methylene chloride	7.778	84	87102	0.71	ppb	# 86
22) Allyl chloride	7.756	41	110349	0.90	ppb	92
23) Carbon disulfide	7.948	76	271960	1.06	ppb	100
24) trans-1,2-dichloroethene	8.731	61	131585	1.14	ppb	88
25) methyl tert-butyl ether	8.736	73	213789	0.87	ppb	70
26) 1,1-dichloroethane	9.162	63	162708	1.10	ppb	98
27) Vinyl acetate	9.128	43	161239m	0.76	ppb	
28) Methyl Ethyl Ketone	9.627	72	44146	0.96	ppb	# 1
29) cis-1,2-dichloroethene	10.092	61	114879	1.02	ppb	89
30) Hexane	9.695	57	145159	1.00	ppb	83
31) Ethyl acetate	10.222	43	248315	1.21	ppb	96
32) Chloroform	10.704	83	191975	1.19	ppb	98
33) Tetrahydrofuran	10.857	42	82428	0.84	ppb	88
34) 1,2-dichloroethane	11.775	62	134167	1.12	ppb	98
36) 1,1,1-trichloroethane	11.515	97	191205	1.26	ppb	99
37) Cyclohexane	12.178	56	132576	1.11	ppb	94
38) Carbon tetrachloride	12.121	117	191997	1.27	ppb	100
39) Benzene	12.087	78	277268	1.26	ppb	94
40) Methyl methacrylate	13.550	41	117244	0.98	ppb	# 85
41) 1,4-dioxane	13.578	88	57950	0.99	ppb	85
42) 2,2,4-trimethylpentane	12.892	57	426411	1.13	ppb	92
43) Heptane	13.216	43	151650	1.04	ppb	89
44) Trichloroethene	13.352	130	118842	1.24	ppb	96

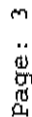
Data Path : C:\msdchem\1\data\
 Data File : AU070703.D
 Acq On : 7 Jul 2023 8:19 am
 Operator : RJP
 Sample : ALCS1UG-070723
 Misc : A629_1UG
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 07 15:47:42 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.448	63	101419	1.22	ppb	98
46) Bromodichloromethane	13.777	83	186814m ^b	1.31	ppb	
47) cis-1,3-dichloropropene	14.548	75	138964	1.08	ppb	98
48) trans-1,3-dichloropropene	15.291	75	118708	0.97	ppb	99
49) 1,1,2-trichloroethane	15.608	97	108180	1.35	ppb	100
51) Toluene	15.376	92	178414	1.15	ppb	98
52) Methyl Isobutyl Ketone	14.452	43	186822	0.86	ppb	91
53) Dibromochloromethane	16.323	129	167289m [↑]	1.22	ppb	
54) Methyl Butyl Ketone	15.767	43	170371	0.78	ppb	87
55) 1,2-dibromoethane	16.583	107	154486	1.28	ppb	98
56) Tetrachloroethylene	16.408	164	104064m [↑]	1.18	ppb	
57) Chlorobenzene	17.400	112	248753 [↑]	1.28	ppb	95
58) Ethylbenzene	17.666	91	381270	1.13	ppb	96
59) m&p-xylene	17.859	91	602960	2.25	ppb	94
60) Nonane	18.262	43	193330	0.91	ppb	90
61) Styrene	18.341	104	215604	1.06	ppb	89
62) Bromoform	18.471	173	153156	1.26	ppb	100
63) o-xylene	18.375	91	320230	1.17	ppb	94
64) Cumene	18.976	105	373246	1.06	ppb	97
66) 1,1,2,2-tetrachloroethane	18.846	83	208993	1.27	ppb	100
67) Propylbenzene	19.560	120	101398	1.03	ppb	# 8
68) 2-Chlorotoluene	19.611	126	101612	1.19	ppb	# 1
69) 4-ethyltoluene	19.747	105	397464	1.10	ppb	96
70) 1,3,5-trimethylbenzene	19.809	105	338121	1.10	ppb	99
71) 1,2,4-trimethylbenzene	20.308	105	297286	0.98	ppb	98
72) 1,3-dichlorobenzene	20.637	146	195129	1.22	ppb	96
73) benzyl chloride	20.711	91	113573	0.59	ppb	99
74) 1,4-dichlorobenzene	20.779	146	256588m [↑]	1.71	ppb	
75) 1,2,3-trimethylbenzene	20.824	105	464505	1.53	ppb	100
76) 1,2-dichlorobenzene	21.130	146	189745	1.26	ppb	95
77) 1,2,4-trichlorobenzene	23.177	180	53336	1.12	ppb	95
78) Naphthalene	23.381	128	116255	0.74	ppb	96
79) Hexachloro-1,3-butadiene	23.495	225	167025	1.54	ppb	93

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

Quant Time: Jul 07 15:47:42 2023
Quant Method : C:\msdchem\1\methods\A629_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration



ANALYTICAL QC SUMMARY REPORT

CLIENT: SOIL MECHANICS
Work Order: C2307002
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UGD-070523		SampType: LCSD	TestCode: 1ugM3_TO15		Units: ppbV	Prep Date:		RunNo: 20587			
Client ID: ZZZZZ		Batch ID: R20587	TestNo: TO-15		Analysis Date: 7/5/2023					SeqNo: 235676	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.040	0.15	1	0	104	70	130	1.12	7.41	25	
1,1,2,2-Tetrachloroethane	1.070	0.15	1	0	107	70	130	1.25	15.5	25	
1,1,2-Trichloroethane	1.090	0.15	1	0	109	70	130	1.21	10.4	25	
1,1-Dichloroethane	0.8000	0.15	1	0	80.0	70	130	0.95	17.1	25	
1,1-Dichloroethene	0.8300	0.15	1	0	83.0	70	130	0.93	11.4	25	
1,2,4-Trichlorobenzene	0.9800	0.15	1	0	98.0	70	130	1.17	17.7	25	
1,2,4-Trimethylbenzene	0.8300	0.15	1	0	83.0	70	130	1	18.6	25	
1,2-Dibromoethane	0.9800	0.15	1	0	98.0	70	130	1.14	15.1	25	
1,2-Dichlorobenzene	1.120	0.15	1	0	112	70	130	1.29	14.1	25	
1,2-Dichloroethane	0.8400	0.15	1	0	84.0	70	130	0.97	14.4	25	
1,2-Dichloropropane	0.9300	0.15	1	0	93.0	70	130	1.09	15.8	25	
1,3,5-Trimethylbenzene	0.9500	0.15	1	0	95.0	70	130	1.11	15.5	25	
1,3-butadiene	0.8700	0.15	1	0	87.0	70	130	1.13	26.0	25	R
1,3-Dichlorobenzene	1.080	0.15	1	0	108	70	130	1.24	13.8	25	
1,4-Dichlorobenzene	1.080	0.15	1	0	108	70	130	1.27	16.2	25	
1,4-Dioxane	0.7300	0.30	1	0	73.0	70	130	0.77	5.33	25	
2,2,4-trimethylpentane	0.8500	0.15	1	0	85.0	70	130	0.96	12.2	25	
4-ethyltoluene	0.9300	0.15	1	0	93.0	70	130	1.1	16.7	25	
Acetone	0.9400	0.30	1	0	94.0	70	130	1.04	10.1	25	
Allyl chloride	0.6800	0.15	1	0	68.0	70	130	0.77	12.4	25	S
Benzene	0.9600	0.15	1	0	96.0	70	130	1.09	12.7	25	
Benzyl chloride	0.4300	0.15	1	0	43.0	70	130	0.51	17.0	25	S
Bromodichloromethane	1.100	0.15	1	0	110	70	130	1.26	13.6	25	
Bromoform	1.030	0.15	1	0	103	70	130	1.22	16.9	25	
	1.010	0.15	1	0	101	70	130	1.21	18.0	25	

Qualifiers:

- Results reported are not blank corrected
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- DL Detection Limit
- J Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS
 Work Order: C2307002
 Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UGD-070523	Sample Type: LCSD	TestCode: 1ugM3_TO15	Units: ppbv	Prep Date:	RunNo: 20587						
Client ID: ZZZZZ	Batch ID: R20587	TestNo: TO-15		Analysis Date: 7/5/2023	SeqNo: 235676						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.8100	0.15	1	0	81.0	70	130	0.94	14.9	25	
Carbon tetrachloride	0.9400	0.15	1	0	94.0	70	130	1.07	12.9	25	
Chlorobenzene	0.9800	0.15	1	0	98.0	70	130	1.12	13.3	25	
Chloroethane	0.9500	0.15	1	0	95.0	70	130	1.12	16.4	25	
Chloroform	0.9000	0.15	1	0	90.0	70	130	1.03	13.5	25	
Chloromethane	0.9700	0.15	1	0	97.0	70	130	1.2	21.2	25	
cis-1,2-Dichloroethene	0.7800	0.15	1	0	78.0	70	130	0.88	12.0	25	
cis-1,3-Dichloropropene	0.8200	0.15	1	0	82.0	70	130	0.96	15.7	25	
Cyclohexane	0.8200	0.15	1	0	82.0	70	130	0.94	13.6	25	
Dibromochloromethane	1.030	0.15	1	0	103	70	130	1.18	13.6	25	
Ethyl acetate	0.8800	0.15	1	0	88.0	70	130	0.99	11.8	25	
Ethylbenzene	0.8500	0.15	1	0	85.0	70	130	1	16.2	25	
Freon 11	1.020	0.15	1	0	102	70	130	1.16	12.8	25	
Freon 113	0.9400	0.15	1	0	94.0	70	130	1.09	14.8	25	
Freon 114	1.090	0.15	1	0	109	70	130	1.34	20.6	25	
Freon 12	0.9400	0.15	1	0	94.0	70	130	1.13	18.4	25	
Heptane	0.8000	0.15	1	0	80.0	70	130	0.91	12.9	25	
Hexachloro-1,3-butadiene	1.240	0.15	1	0	124	70	130	1.45	15.6	25	
Hexane	0.7300	0.15	1	0	73.0	70	130	0.82	11.6	25	S
isopropyl alcohol	0.6400	0.15	1	0	64.0	70	130	0.7	8.96	25	
m&p-Xylene	1.820	0.30	2	0	91.0	70	130	2.13	15.7	25	S
Methyl Butyl Ketone	0.5900	0.30	1	0	59.0	70	130	0.69	15.6	25	
Methyl Ethyl Ketone	0.7500	0.30	1	0	75.0	70	130	0.76	13.2	25	
Methyl Isobutyl Ketone	0.6400	0.30	1	0	64.0	70	130	0.74	14.5	25	S
Methyl tert-butyl ether	0.6500	0.15	1	0	65.0	70	130	0.73	11.6	25	S
Methylene chloride	0.8600	0.15	1	0	86.0	70	130	0.91	5.65	25	
o-Xylene	1.000	0.15	1	0	100	70	130	1.16	14.8	25	
Propylene	0.7300	0.15	1	0	73.0	70	130	0.86	16.4	25	
Styrene	0.8900	0.15	1	0	89.0	70	130	1.03	14.6	25	
Tetrachloroethylene	1.030	0.15	1	0	103	70	130	1.21	16.1	25	
Tetrahydrofuran	0.6200	0.15	1	0	62.0	70	130	0.66	6.25	25	S

Qualifiers: H Results reported are not blank corrected
 R Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

DL Detection Limit
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS
Work Order: C2307002
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UGD-070623 **Sample Type:** LCSD **TestCode:** 1ugM3_TO15 **Units:** ppbV **Prep Date:** RunNo: 20587
Client ID: ZZZZZ **Batch ID:** R20587 **Analysis Date:** 7/5/2023 **SeqNo:** 235676

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.8900	0.15	1	0	89.0	70	130	1.02	13.6	25	
trans-1,2-Dichloroethane	0.8400	0.15	1	0	84.0	70	130	0.95	12.3	25	
trans-1,3-Dichloropropene	0.6800	0.15	1	0	68.0	70	130	0.76	11.1	25	S
Trichloroethene	1.030	0.15	1	0	103	70	130	1.16	11.9	25	
Vinyl acetate	0.3700	0.15	1	0	37.0	70	130	0.4	7.79	25	S
Vinyl Bromide	0.9500	0.15	1	0	95.0	70	130	1.19	22.4	25	
Vinyl chloride	1.010	0.15	1	0	101	70	130	1.23	19.6	25	

Sample ID: ALCS1UGD-070623 **Sample Type:** LCSD **TestCode:** 1ugM3_TO15 **Units:** ppbV **Prep Date:** RunNo: 20588
Client ID: ZZZZZ **Batch ID:** R20588 **Analysis Date:** 7/6/2023 **SeqNo:** 235698

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9700	0.15	1	0	97.0	70	130	0.97	0	25	
1,1,2,2-Tetrachloroethane	1.050	0.15	1	0	105	70	130	1.03	1.92	25	
1,1,2-Trichloroethane	1.000	0.15	1	0	100	70	130	1.06	5.83	25	
1,1-Dichloroethane	0.8000	0.15	1	0	80.0	70	130	0.84	4.88	25	
1,1-Dichloroethene	0.8400	0.15	1	0	84.0	70	130	0.92	9.09	25	
1,2,4-Trichlorobenzene	0.8500	0.15	1	0	85.0	70	130	0.89	4.60	25	
1,2,4-Trimethylbenzene	0.8300	0.15	1	0	83.0	70	130	0.83	0	25	
1,2-Dibromoethane	1.000	0.15	1	0	100	70	130	0.98	2.02	25	
1,2-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.07	0.939	25	
1,2-Dichloroethane	0.8000	0.15	1	0	80.0	70	130	0.84	4.88	25	
1,2-Dichloropropene	0.9300	0.15	1	0	93.0	70	130	0.94	1.07	25	
1,3,5-Trimethylbenzene	0.9100	0.15	1	0	91.0	70	130	0.92	1.09	25	
1,3-butadiene	0.8200	0.15	1	0	82.0	70	130	0.94	13.6	25	
1,3-Dichlorobenzene	1.010	0.15	1	0	101	70	130	1.04	2.93	25	
1,4-Dichlorobenzene	1.270	0.15	1	0	127	70	130	1.21	4.84	25	
1,4-Dioxane	0.7900	0.30	1	0	79.0	70	130	0.8	1.26	25	
2,2,4-trimethylpentane	0.8500	0.15	1	0	85.0	70	130	0.85	0	25	
4-ethyltoluene	0.9300	0.15	1	0	93.0	70	130	0.9	3.28	25	

Qualifiers:
H Results reported are not blank corrected
R Holding times for preparation or analysis exceeded
RPD outside accepted recovery limits
DL Detection Limit
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits
E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS
Work Order: C2307002
Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UGD-070523 **SampType:** LCSD **TestCode:** 1ugM3_TO15 **Units:** ppbV **RunNo:** 20588
Client ID: ZZZZZ **Batch ID:** R20588 **Analysis Date:** 7/6/2023 **SeqNo:** 235698

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	0.8600	0.30	1	0	86.0	70	130	0.94	8.89	25	
Allyl chloride	0.7000	0.15	1	0	70.0	70	130	0.75	6.90	25	
Benzene	0.9900	0.15	1	0	99.0	70	130	0.97	2.04	25	
Benzyl chloride	0.6900	0.15	1	0	69.0	70	130	0.63	9.09	25	S
Bromodichloromethane	1.040	0.15	1	0	104	70	130	1.07	2.84	25	
Bromoform	1.050	0.15	1	0	105	70	130	1.02	2.90	25	
Bromomethane	0.9700	0.15	1	0	97.0	70	130	1.09	11.7	25	
Carbon disulfide	0.8200	0.15	1	0	82.0	70	130	0.89	8.19	25	
Carbon tetrachloride	0.9100	0.15	1	0	91.0	70	130	0.93	2.17	25	
Chlorobenzene	0.9900	0.15	1	0	99.0	70	130	0.98	1.02	25	
Chloroethane	0.9300	0.15	1	0	93.0	70	130	1.03	10.2	25	
Chloroform	0.8900	0.15	1	0	89.0	70	130	0.95	6.52	25	
Chloromethane	0.9300	0.15	1	0	93.0	70	130	1.03	10.2	25	
cis-1,2-Dichloroethene	0.7800	0.15	1	0	78.0	70	130	0.8	2.53	25	
cis-1,3-Dichloropropene	0.8000	0.15	1	0	80.0	70	130	0.85	6.06	25	
Cyclohexane	0.8500	0.15	1	0	85.0	70	130	0.83	2.38	25	
Dibromochloromethane	1.030	0.15	1	0	103	70	130	1	2.96	25	
Ethyl acetate	0.8900	0.15	1	0	89.0	70	130	0.91	2.22	25	
Ethylbenzene	0.8600	0.15	1	0	86.0	70	130	0.85	1.17	25	
Freon 11	0.9700	0.15	1	0	97.0	70	130	1	3.05	25	
Freon 113	0.9300	0.15	1	0	93.0	70	130	0.98	5.24	25	
Freon 114	1.040	0.15	1	0	104	70	130	1.17	11.8	25	
Freon 12	0.8900	0.15	1	0	89.0	70	130	0.99	10.6	25	
Heptane	0.7800	0.15	1	0	78.0	70	130	0.8	2.53	25	
Hexachloro-1,3-butadiene	1.220	0.15	1	0	122	70	130	1.23	0.816	25	
Hexane	0.7400	0.15	1	0	74.0	70	130	0.75	1.34	25	
Isopropyl alcohol	0.7500	0.15	1	0	75.0	70	130	0.76	1.32	25	
m&p-Xylene	1.830	0.30	2	0	91.5	70	130	1.79	2.21	25	
Methyl Butyl Ketone	0.6900	0.30	1	0	69.0	70	130	0.68	1.46	25	S
Methyl Ethyl Ketone	0.7200	0.30	1	0	72.0	70	130	0.78	8.00	25	
Methyl Isobutyl Ketone	0.7100	0.30	1	0	71.0	70	130	0.68	4.32	25	

Qualifiers: H Results reported are not blank corrected
R Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits
J Analyte detected below quantitation limit
E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS
 Work Order: C2307002
 Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UGD-070623		SampType: LCSD		TestCode: 1ugM3_TO15		Units: ppbV		Prep Date:		RunNo: 20588	
Client ID: ZZZZZ		Batch ID: R20588		TestNo: TO-15				Analysis Date: 7/6/2023		SeqNo: 235698	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.7000	0.15	1	0	70.0	70	130	0.7	0	25	
Methylene chloride	0.7200	0.15	1	0	72.0	70	130	0.71	1.40	25	
o-Xylene	0.9800	0.15	1	0	98.0	70	130	0.96	2.06	25	
Propylene	0.7700	0.15	1	0	77.0	70	130	0.71	8.11	25	
Styrene	0.8800	0.15	1	0	88.0	70	130	0.87	1.14	25	
Tetrachloroethylene	1.060	0.15	1	0	106	70	130	1.03	2.87	25	
Tetrahydrofuran	0.8200	0.15	1	0	82.0	70	130	0.85	3.59	25	
Toluene	0.8900	0.15	1	0	89.0	70	130	0.88	1.13	25	
trans-1,2-Dichloroethene	0.8100	0.15	1	0	81.0	70	130	0.85	4.82	25	
trans-1,3-Dichloropropene	0.7000	0.15	1	0	70.0	70	130	0.73	4.20	25	
Trichloroethene	1.000	0.15	1	0	100	70	130	0.99	1.01	25	
Vinyl acetate	0.3800	0.15	1	0	38.0	70	130	0.39	2.60	25	S
Vinyl Bromide	0.9600	0.15	1	0	96.0	70	130	1.08	11.8	25	
Vinyl chloride	0.9500	0.15	1	0	95.0	70	130	1.07	11.9	25	

Sample ID: ALCS1UGD-070723	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 20589						
Client ID: ZZZZZ	Batch ID: R20589	TestNo: TO-15		Analysis Date: 7/7/2023	SeqNo: 235721						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.270	0.15	1	0	127	70	130	1.26	0.791	25	
1,1,2,2-Tetrachloroethane	1.420	0.15	1	0	142	70	130	1.27	11.2	25	S
1,1,2-Trichloroethane	1.360	0.15	1	0	136	70	130	1.35	2.20	25	S
1,1-Dichloroethane	1.080	0.15	1	0	108	70	130	1.1	1.83	25	
1,1-Dichloroethene	1.090	0.15	1	0	109	70	130	1.1	0.913	25	
1,2,4-Trichlorobenzene	1.200	0.15	1	0	120	70	130	1.12	6.90	25	
1,2,4-Trimethylbenzene	1.100	0.15	1	0	110	70	130	0.98	11.5	25	
1,2-Dibromoethane	1.400	0.15	1	0	140	70	130	1.28	8.96	25	S
1,1,2-Dichlorobenzene	1.440	0.15	1	0	144	70	130	1.26	13.3	25	S
1,2-Dichloroethane	1.120	0.15	1	0	112	70	130	1.12	0	25	
1,2-Dichloropropane	1.250	0.15	1	0	125	70	130	1.22	2.43	25	

Qualifiers: H Results reported are not blank corrected
 R Holding times for preparation or analysis exceeded
 DL Detection Limit
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS
 Work Order: C2307002
 Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCSTUGD-070723		SampType:		TestCode: 1ugM3_TO15		Units: ppbV		Prep Date:		RunNo: 20689	
Client ID: ZZZZZ		Batch ID:		TestNo: TO-15				Analysis Date: 7/7/2023		SeqNo: 235721	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,5-Trimethylbenzene	1.280	0.15	1	0	128	70	130	1.1	15.1	25	
3-butadiene	1.210	0.15	1	0	121	70	130	1.26	4.05	25	
3-Dichlorobenzene	1.380	0.15	1	0	138	70	130	1.22	12.3	25	S
4-Dichlorobenzene	1.820	0.15	1	0	182	70	130	1.71	6.23	25	S
4-Dioxane	1.050	0.30	1	0	105	70	130	0.99	5.88	25	
2,4-trimethylpentane	1.140	0.15	1	0	114	70	130	1.13	0.881	25	
1-ethyltoluene	1.250	0.15	1	0	125	70	130	1.1	12.8	25	
acetone	0.9400	0.30	1	0	94.0	70	130	0.99	5.18	25	
allyl chloride	0.8900	0.15	1	0	89.0	70	130	0.9	1.12	25	
benzene	1.290	0.15	1	0	129	70	130	1.26	2.35	25	
benzyl chloride	0.6700	0.15	1	0	67.0	70	130	0.59	12.7	25	S
bromodichloromethane	1.410	0.15	1	0	141	70	130	1.31	7.35	25	S
bromoforn	1.410	0.15	1	0	141	70	130	1.26	11.2	25	S
bromomethane	1.380	0.15	1	0	138	70	130	1.31	5.20	25	S
Carbon disulfide	1.040	0.15	1	0	104	70	130	1.06	1.90	25	
Carbon tetrachloride	1.290	0.15	1	0	129	70	130	1.27	1.56	25	
Chlorobenzene	1.290	0.15	1	0	129	70	130	1.28	0.778	25	
Chloroethane	1.310	0.15	1	0	131	70	130	1.39	5.93	25	S
Chloroform	1.180	0.15	1	0	118	70	130	1.19	0.844	25	
Chloromethane	1.380	0.15	1	0	138	70	130	1.25	9.89	25	S
cis-1,2-Dichloroethene	1.020	0.15	1	0	102	70	130	1.02	0	25	
cis-1,3-Dichloropropene	1.110	0.15	1	0	111	70	130	1.08	2.74	25	
Cyclohexane	1.140	0.15	1	0	114	70	130	1.11	2.67	25	
Dibromochloromethane	1.220	0.15	1	0	122	70	130	1.22	0	25	
Ethyl acetate	1.200	0.15	1	0	120	70	130	1.21	0.830	25	
Ethylbenzene	1.090	0.15	1	0	109	70	130	1.13	3.60	25	
Freon 11	1.350	0.15	1	0	135	70	130	1.27	6.11	25	S
Freon 113	1.240	0.15	1	0	124	70	130	1.27	2.39	25	
Freon 114	1.410	0.15	1	0	141	70	130	1.51	6.85	25	S
Freon 12	1.240	0.15	1	0	124	70	130	1.26	1.60	25	
Heptane	1.070	0.15	1	0	107	70	130	1.04	2.84	25	

Qualifiers: H Results reported are not blank corrected
 R Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

DL Detection Limit
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

CLIENT: SOIL MECHANICS
 Work Order: C2307002
 Project: IKEA Red Hook

TestCode: 1ugM3_TO15

Sample ID: ALCS1UGD-070723	Sample Type:	LCSD	TestCode: 1ugM3_TO15 Units: ppbV				Prep Date:		RunNo: 20589		
Client ID: ZZZZZ	Batch ID:	R20589	TestNo: TO-15		Analysis Date: 7/7/2023		SeqNo: 235721				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloro-1,3-butadiene	1.740	0.15	1	0	174	70	130	1.54	12.2	25	S
Hexane	0.9800	0.15	1	0	98.0	70	130	1	2.02	25	
Isopropyl alcohol	0.9100	0.15	1	0	91.0	70	130	0.92	1.09	25	
m&p-Xylene	2.410	0.30	2	0	120	70	130	2.25	6.87	25	
Methyl Butyl Ketone	0.8800	0.30	1	0	88.0	70	130	0.78	12.0	25	
Methyl Ethyl Ketone	0.9100	0.30	1	0	91.0	70	130	0.96	5.35	25	
Methyl Isobutyl Ketone	0.9600	0.30	1	0	96.0	70	130	0.86	13.0	25	
Methyl tert-butyl ether	0.8700	0.15	1	0	87.0	70	130	0.87	0	25	
Methylene chloride	0.7000	0.15	1	0	70.0	70	130	0.71	1.42	25	
p-Xylene	1.300	0.15	1	0	130	70	130	1.17	10.5	25	
Propylene	0.8800	0.15	1	0	88.0	70	130	0.9	2.25	25	
Styrene	1.200	0.15	1	0	120	70	130	1.06	12.4	25	
Tetrachloroethylene	1.480	0.15	1	0	148	70	130	1.18	22.6	25	S
Tetrahydrofuran	0.8300	0.15	1	0	83.0	70	130	0.84	1.20	25	
Toluene	1.280	0.15	1	0	128	70	130	1.15	10.7	25	
trans-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130	1.14	2.67	25	
trans-1,3-Dichloropropene	0.9800	0.15	1	0	98.0	70	130	0.97	1.03	25	
Trichloroethene	1.260	0.15	1	0	126	70	130	1.24	1.60	25	
Vinyl acetate	0.5100	0.15	1	0	51.0	70	130	0.76	39.4	25	SR
Vinyl Bromide	1.320	0.15	1	0	132	70	130	1.32	0	25	S
Vinyl chloride	1.400	0.15	1	0	140	70	130	1.4	0	25	S

Quantifiers: H Results reported are not blank corrected
 R Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

DL Detection Limit
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

Data Path : C:\msdchem\1\data\
 Data File : AU070504.D
 Acq On : 5 Jul 2023 8:28 am
 Operator : RJP
 Sample : ALCS1UGD-070523
 Misc : A629_1UG
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 05 21:39:58 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 14:27:33 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.233	128	67892	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.445	114	313604	1.00	ppb	0.00
50) Chlorobenzene-d5	17.111	117	273862	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.857	95	217929	1.06	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	106.00%
Target Compounds						
						Qvalue
2) Propylene	4.456	41	70863	0.73	ppb	56
3) Freon 12	4.518	85	262716	0.94	ppb	98
4) Chloromethane	4.722	50	86148	0.97	ppb	99
5) Freon 114	4.728	85	250779	1.09	ppb	97
6) Vinyl Chloride	4.938	62	84638	1.01	ppb	98
7) Butane	5.040	43	110599	0.98	ppb	96
8) 1,3-butadiene	5.046	39	76855	0.87	ppb	94
9) Bromomethane	5.414	94	85189	1.01	ppb	97
10) Chloroethane	5.590	64	44156	0.95	ppb	94
11) Ethanol	6.503	45	131966	0.64	ppb	# 77
12) Acrolein	6.293	56	26799	0.74	ppb	92
13) Vinyl Bromide	5.947	106	87382	0.95	ppb	98
14) Freon 11	6.231	101	284989	1.02	ppb	98
15) Acetone	6.395	58	74973m	0.94	ppb	
16) Pentane	6.514	42	118761	0.89	ppb	93
17) Isopropyl alcohol	6.503	45	131966	0.64	ppb	# 76
18) 1,1-dichloroethene	7.019	96	84059	0.83	ppb	# 82
19) Freon 113	7.211	101	194502	0.94	ppb	99
20) t-Butyl alcohol	7.234	59	135984	0.54	ppb	# 74
21) Methylene chloride	7.478	84	147501	0.86	ppb	87
22) Allyl chloride	7.467	41	115961	0.68	ppb	88
23) Carbon disulfide	7.648	76	289229	0.81	ppb	100
24) trans-1,2-dichloroethene	8.425	61	134229	0.84	ppb	89
25) methyl tert-butyl ether	8.436	73	221260	0.65	ppb	70
26) 1,1-dichloroethane	8.856	63	164977	0.80	ppb	99
27) Vinyl acetate	8.827	43	109860	0.37	ppb	96
28) Methyl Ethyl Ketone	9.321	72	48025	0.75	ppb	# 1
29) cis-1,2-dichloroethene	9.791	61	121853	0.78	ppb	88
30) Hexane	9.389	57	147570	0.73	ppb	85
31) Ethyl acetate	9.922	43	249886	0.88	ppb	97
32) Chloroform	10.392	83	202059	0.90	ppb	100
33) Tetrahydrofuran	10.551	42	83582	0.62	ppb	89
34) 1,2-dichloroethane	11.475	62	138351	0.84	ppb	97
36) 1,1,1-trichloroethane	11.209	97	192153	1.04	ppb	98
37) Cyclohexane	11.883	56	119173	0.82	ppb	92
38) Carbon tetrachloride	11.827	117	171308	0.94	ppb	99
39) Benzene	11.793	78	256784m	0.96	ppb	
40) Methyl methacrylate	13.289	41	107457	0.74	ppb	84
41) 1,4-dioxane	13.312	88	51678	0.73	ppb	89
42) 2,2,4-trimethylpentane	12.615	57	389446	0.85	ppb	91
43) Heptane	12.949	43	141188	0.80	ppb	86
44) Trichloroethene	13.080	130	120236	1.03	ppb	95

Data Path : C:\msdchem\1\data\
 Data File : AU070504.D
 Acq On : 5 Jul 2023 8:28 am
 Operator : RJP
 Sample : ALCS1UGD-070523
 Misc : A629_1UG
 ALS Vial : 4 Sample Multiplier: 1

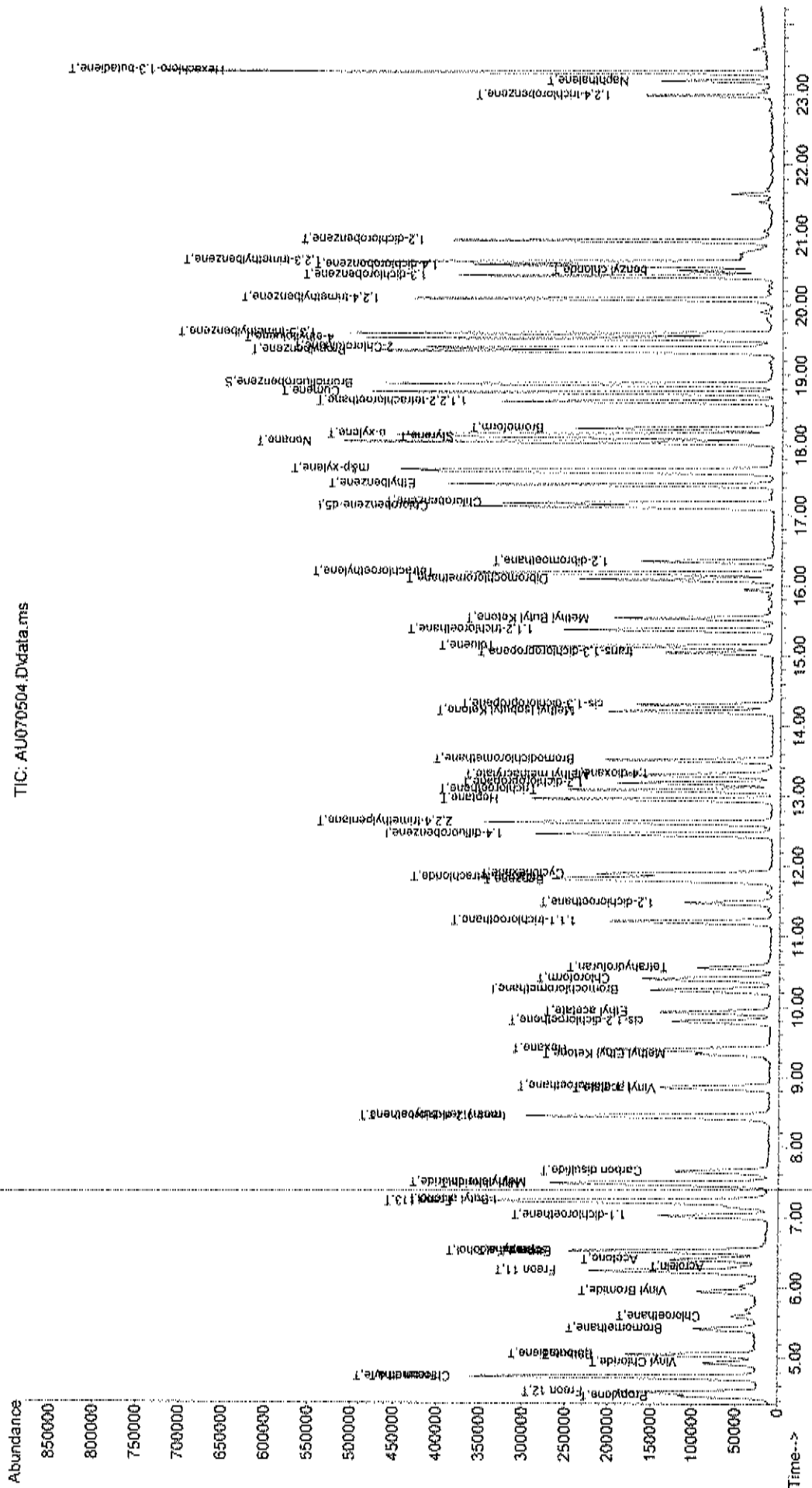
Quant Time: Jul 05 21:39:58 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Sat Jul 01 14:27:33 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.182	63	94281	0.93	ppb	100
46) Bromodichloromethane	13.511	83	190358	1.10	ppb	99
47) cis-1,3-dichloropropene	14.299	75	129247	0.82	ppb	98
48) trans-1,3-dichloropropene	15.041	75	100629	0.68	ppb	91
49) 1,1,2-trichloroethane	15.359	97	105717	1.09	ppb	99
51) Toluene	15.126	92	171699	0.89	ppb	99
52) Methyl Isobutyl Ketone	14.202	43	172876	0.64	ppb	91
53) Dibromochloromethane	16.079	129	174000	1.03	ppb	99
54) Methyl Butyl Ketone	15.523	43	158168	0.59	ppb	88
55) 1,2-dibromoethane	16.334	107	146572	0.98	ppb	98
56) Tetrachloroethylene	16.170	164	112550	1.03	ppb	99
57) Chlorobenzene	17.167	112	234106	0.98	ppb	95
58) Ethylbenzene	17.428	91	354236	0.85	ppb	96
59) m&p-xylene	17.638	91	603457	1.82	ppb	93
60) Nonane	18.024	43	199355	0.76	ppb	91
61) Styrene	18.097	104	223175	0.89	ppb	87
62) Bromoform	18.228	173	154715	1.03	ppb	99
63) o-xylene	18.137	91	337803	1.00	ppb	94
64) Cumene	18.738	105	395463	0.91	ppb	96
66) 1,1,2,2-tetrachloroethane	18.608	83	216983	1.07	ppb	99
67) Propylbenzene	19.328	120	108049	0.89	ppb	74
68) 2-Chlorotoluene	19.373	126	107479	1.02	ppb	100
69) 4-ethyltoluene	19.509	105	412810	0.93	ppb	97
70) 1,3,5-trimethylbenzene	19.577	105	361921	0.95	ppb	98
71) 1,2,4-trimethylbenzene	20.076	105	312383	0.83	ppb	95
72) 1,3-dichlorobenzene	20.405	146	213446	1.08	ppb	98
73) benzyl chloride	20.484	91	103524	0.43	ppb	100
74) 1,4-dichlorobenzene	20.552	146	200166	1.08	ppb	95
75) 1,2,3-trimethylbenzene	20.603	105	381870	1.02	ppb	100
76) 1,2-dichlorobenzene	20.909	146	208011	1.12	ppb	97
77) 1,2,4-trichlorobenzene	22.973	180	57328	0.98	ppb	100
78) Naphthalene	23.177	128	129329	0.66	ppb	99
79) Hexachloro-1,3-butadiene	23.296	225	165236	1.24	ppb	95

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

Quant Time: Jul 05 21:39:58 2023
Quant Method : C:\msdchem\1\methods\A629_IUG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Sat Jul 01 14:27:33 2023
Response via : Initial Calibration

TIC: AU070504.D\data.ms



Data Path : C:\msdchem\1\data\
 Data File : AU070605.D
 Acq On : 6 Jul 2023 8:52 am
 Operator : RJP
 Sample : ALCS1UGD-070623
 Misc : A629 1UG
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 19:38:02 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.540	128	67041	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.728	114	325757	1.00	ppb	0.00
50) Chlorobenzene-d5	17.355	117	264882	1.00	ppb	0.00

System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	197130	0.99	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	99.00%

Target Compounds					Qvalue
2) Propylene	4.671	41	74076m	0.77	ppb
3) Freon 12	4.728	85	246102	0.89	ppb
4) Chloromethane	4.949	50	81519	0.93	ppb
5) Freon 114	4.949	85	237745	1.04	ppb
6) Vinyl Chloride	5.165	62	79199	0.95	ppb
7) Butane	5.284	43	104770	0.94	ppb
8) 1,3-butadiene	5.284	39	71065	0.82	ppb
9) Bromomethane	5.664	94	81224	0.97	ppb
10) Chloroethane	5.839	64	42692	0.93	ppb
11) Ethanol	6.781	45	140192	0.68	ppb
12) Acrolein	6.565	56	26575	0.74	ppb
13) Vinyl Bromide	6.208	106	87600	0.96	ppb
14) Freon 11	6.503	101	267934	0.97	ppb
15) Acetone	6.667	58	68174	0.86	ppb
16) Pentane	6.786	42	106612	0.81	ppb
17) Isopropyl alcohol	6.781	45	153847m	0.75	ppb
18) 1,1-dichloroethene	7.302	96	83959	0.84	ppb
19) Freon 113	7.506	101	190130	0.93	ppb
20) t-Butyl alcohol	7.518	59	155355	0.62	ppb
21) Methylene chloride	7.773	84	121256m	0.72	ppb
22) Allyl chloride	7.756	41	116960m	0.70	ppb
23) Carbon disulfide	7.948	76	289766	0.82	ppb
24) trans-1,2-dichloroethene	8.725	61	128625	0.81	ppb
25) methyl tert-butyl ether	8.737	73	237123m	0.70	ppb
26) 1,1-dichloroethane	9.156	63	162594	0.80	ppb
27) Vinyl acetate	9.128	43	110607	0.38	ppb
28) Methyl Ethyl Ketone	9.627	72	45561	0.72	ppb
29) cis-1,2-dichloroethene	10.097	61	120176	0.78	ppb
30) Hexane	9.695	57	147937	0.74	ppb
31) Ethyl acetate	10.216	43	251506	0.89	ppb
32) Chloroform	10.698	85	197437	0.89	ppb
33) Tetrahydrofuran	10.857	42	109801m	0.82	ppb
34) 1,2-dichloroethane	11.770	62	130774	0.80	ppb
36) 1,1,1-trichloroethane	11.509	97	185573	0.97	ppb
37) Cyclohexane	12.184	56	128466	0.85	ppb
38) Carbon tetrachloride	12.121	117	173218	0.91	ppb
39) Benzene	12.093	78	272469	0.99	ppb
40) Methyl methacrylate	13.550	41	109646	0.73	ppb
41) 1,4-dioxane	13.578	88	58383	0.79	ppb
42) 2,2,4-trimethylpentane	12.892	57	405021	0.85	ppb
43) Heptane	13.216	43	142703	0.78	ppb
44) Trichloroethene	13.352	130	121743	1.00	ppb

Data Path : C:\msdchem\1\data\
 Data File : AU070605.D
 Acq On : 6 Jul 2023 8:52 am
 Operator : RJP
 Sample : ALCS1UGD-070623
 Misc : A629_1UG
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 19:38:02 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.448	63	97921	0.93	ppb	99
46) Bromodichloromethane	13.771	83	187196	1.04	ppb	98
47) cis-1,3-dichloropropene	14.554	75	129774	0.80	ppb	98
48) trans-1,3-dichloropropene	15.291	75	107105m	0.70	ppb	
49) 1,1,2-trichloroethane	15.608	97	101039	1.00	ppb	100
51) Toluene	15.376	92	166253	0.89	ppb	97
52) Methyl Isobutyl Ketone	14.452	43	184120m	0.71	ppb	
53) Dibromochloromethane	16.323	129	169396	1.03	ppb	97
54) Methyl Butyl Ketone	15.773	43	179107m	0.69	ppb	
55) 1,2-dibromoethane	16.578	107	144334	1.00	ppb	99
56) Tetrachloroethylene	16.413	164	111249	1.06	ppb	100
57) Chlorobenzene	17.406	112	230653	0.99	ppb	95
58) Ethylbenzene	17.666	91	349328	0.86	ppb	96
59) m&p-xylene	17.870	91	586783	1.83	ppb	94
60) Nonane	18.256	43	189924	0.75	ppb	93
61) Styrene	18.341	104	212558	0.88	ppb	89
62) Bromoform	18.471	173	151309	1.05	ppb	100
63) o-xylene	18.375	91	322037	0.98	ppb	95
64) Cumene	18.976	105	390109	0.92	ppb	96
66) 1,1,2,2-tetrachloroethane	18.846	83	207091	1.05	ppb	97
67) Propylbenzene	19.566	120	103350	0.88	ppb	# 7
68) 2-Chlorotoluene	19.611	126	103893	1.02	ppb	# 1
69) 4-ethyltoluene	19.741	105	398212	0.93	ppb	96
70) 1,3,5-trimethylbenzene	19.809	105	333541	0.91	ppb	99
71) 1,2,4-trimethylbenzene	20.308	105	299270	0.83	ppb	99
72) 1,3-dichlorobenzene	20.637	146	193147	1.01	ppb	96
73) benzyl chloride	20.711	91	159834m	0.69	ppb	
74) 1,4-dichlorobenzene	20.779	146	228868m	1.27	ppb	
75) 1,2,3-trimethylbenzene	20.824	105	429744	1.18	ppb	99
76) 1,2-dichlorobenzene	21.131	146	190402	1.06	ppb	96
77) 1,2,4-trichlorobenzene	23.177	180	47960	0.85	ppb	96
78) Naphthalene	23.381	128	93915	0.50	ppb	97
79) Hexachloro-1,3-butadiene	23.495	225	158250	1.22	ppb	93

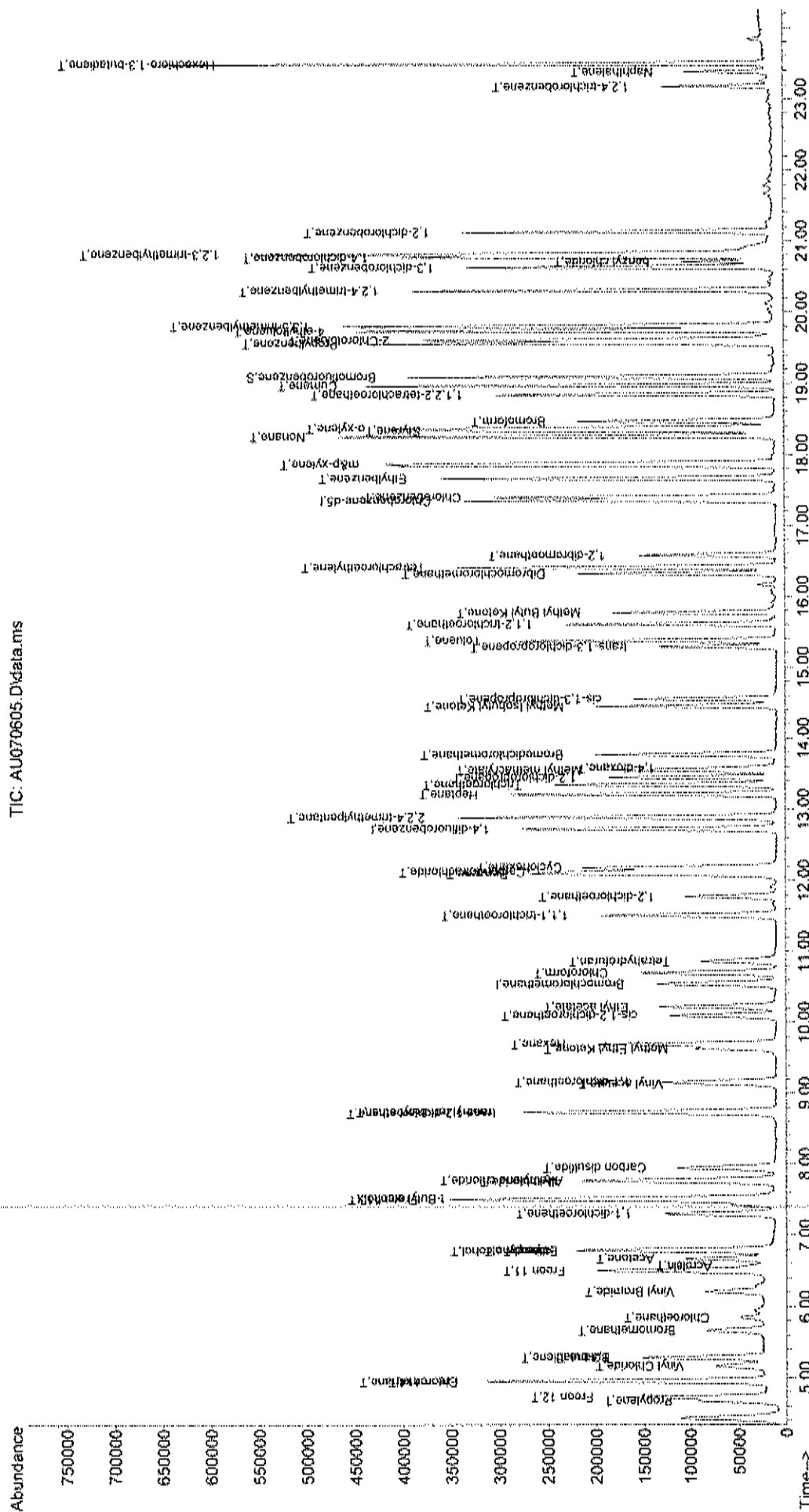
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : AU070605.D
 Acq On : 6 Jul 2023 8:52 am
 Operator : RJP
 Sample : ALCS1UGD-070623
 Misc : A629_1UG
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 19:38:02 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 Quant Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

TIC: AU070605.D\data.ms



Data Path : C:\msdchem\1\data\
 Data File : AU070704.D
 Acq On : 7 Jul 2023 9:03 am
 Operator : RJP
 Sample : ALCS1UGD-070723
 Misc : A629_1UG
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 08 11:11:38 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	10.545	128	49073	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	254672	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	196716	1.00	ppb	0.00

System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	148054	1.00	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	100.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.677	41	62145	0.88	ppb	57
3) Freon 12	4.728	85	250035	1.24	ppb	99
4) Chloromethane	4.955	50	88727	1.38	ppb	96
5) Freon 114	4.955	85	234725m	1.41	ppb	
6) Vinyl Chloride	5.165	62	85424	1.40	ppb	100
7) Butane	5.284	43	113172	1.39	ppb	97
8) 1,3-butadiene	5.284	39	77228	1.21	ppb	95
9) Bromomethane	5.658	94	84468	1.38	ppb	97
10) Chloroethane	5.845	64	44217	1.31	ppb	99
11) Ethanol	6.780	45	136796	0.91	ppb	95
12) Acrolein	6.565	56	27410	1.05	ppb	90
13) Vinyl Bromide	6.213	106	87642	1.32	ppb	99
14) Freon 11	6.503	101	273926	1.35	ppb	99
15) Acetone	6.673	58	54716	0.94	ppb	# 78
16) Pentane	6.797	42	102641	1.07	ppb	95
17) Isopropyl alcohol	6.780	45	136796	0.91	ppb	95
18) 1,1-dichloroethene	7.302	96	79750	1.09	ppb	# 82
19) Freon 113	7.506	101	184472	1.24	ppb	98
20) t-Butyl alcohol	7.529	59	155608	0.85	ppb	# 72
21) Methylene chloride	7.773	84	87017	0.70	ppb	# 87
22) Allyl chloride	7.756	41	109215	0.89	ppb	92
23) Carbon disulfide	7.943	76	268484	1.04	ppb	100
24) trans-1,2-dichloroethene	8.731	61	129066	1.11	ppb	89
25) methyl tert-butyl ether	8.742	73	215600	0.87	ppb	71
26) 1,1-dichloroethane	9.156	63	161549	1.08	ppb	100
27) Vinyl acetate	9.128	43	107616	0.51	ppb	94
28) Methyl Ethyl Ketone	9.627	72	42024	0.91	ppb	# 33
29) cis-1,2-dichloroethene	10.097	61	115514	1.02	ppb	88
30) Hexane	9.695	57	143130	0.98	ppb	83
31) Ethyl acetate	10.216	43	246553	1.20	ppb	97
32) Chloroform	10.704	83	190996	1.18	ppb	100
33) Tetrahydrofuran	10.863	42	81766	0.83	ppb	89
34) 1,2-dichloroethane	11.775	62	133802	1.12	ppb	98
36) 1,1,1-trichloroethane	11.509	97	190194	1.27	ppb	99
37) Cyclohexane	12.184	56	134041	1.14	ppb	94
38) Carbon tetrachloride	12.127	117	192048	1.29	ppb	98
39) Benzene	12.087	78	279699	1.29	ppb	94
40) Methyl methacrylate	13.550	41	118352	1.01	ppb	# 85
41) 1,4-dioxane	13.573	88	60732	1.05	ppb	88
42) 2,2,4-trimethylpentane	12.892	57	426280	1.14	ppb	92
43) Heptane	13.216	43	153629	1.07	ppb	88
44) Trichloroethene	13.352	130	119490	1.26	ppb	96

Data Path : C:\msdchem\1\data\
 Data File : AU070704.D
 Acq On : 7 Jul 2023 9:03 am
 Operator : RJP
 Sample : ALCS1UGD-070723
 Misc : A629_1UG
 ALS Vial : 4 Sample Multiplier: 1

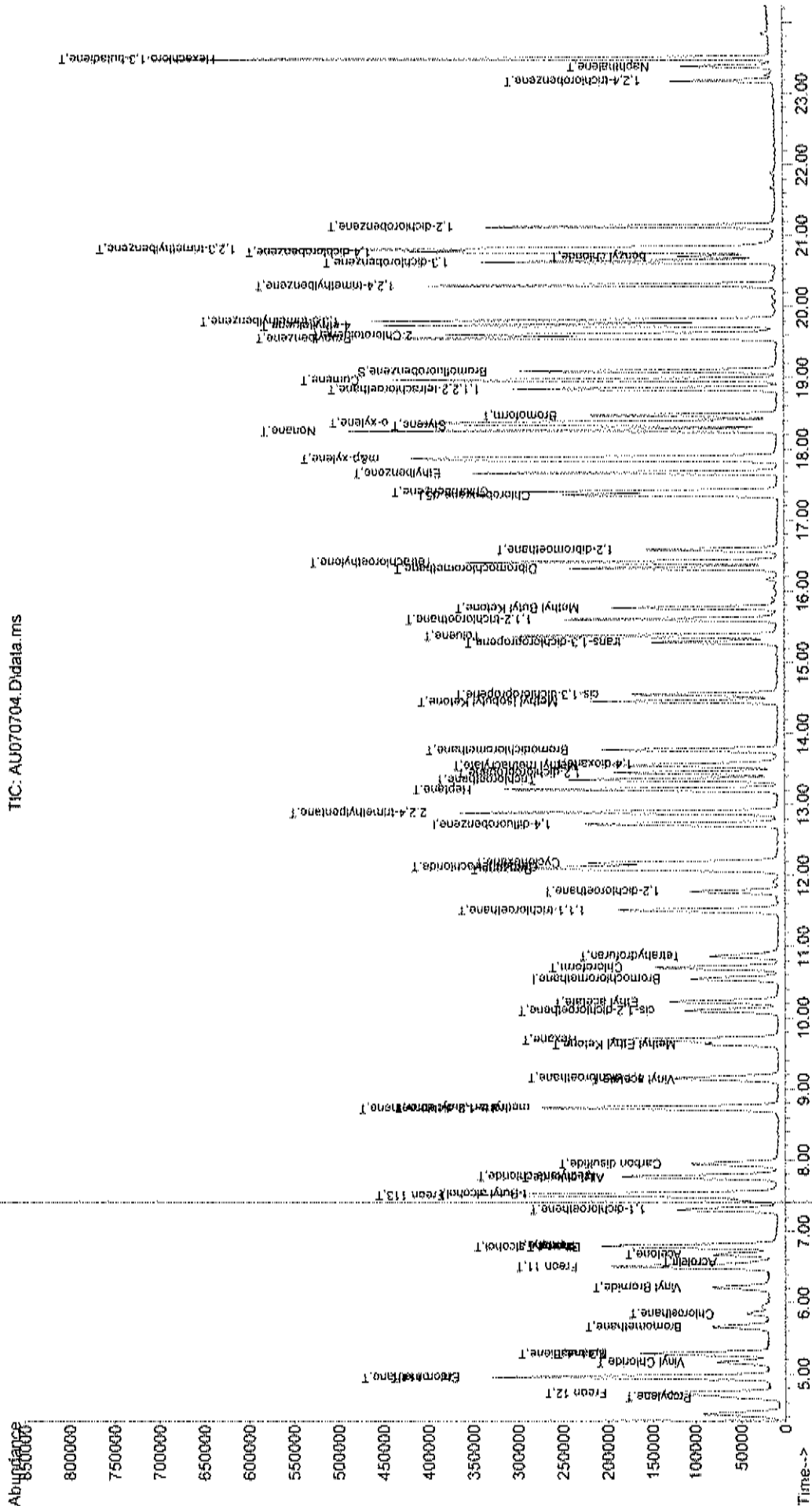
Quant Time: Jul 08 11:11:38 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.454	63	102433	1.25	ppb	99
46) Bromodichloromethane	13.771	83	197768	1.41	ppb	98
47) cis-1,3-dichloropropene	14.554	75	141184	1.11	ppb	97
48) trans-1,3-dichloropropene	15.285	75	117512	0.98	ppb	99
49) 1,1,2-trichloroethane	15.608	97	108536	1.38	ppb	99
51) Toluene	15.376	92	176392	1.28	ppb	95
52) Methyl Isobutyl Ketone	14.452	43	189510	0.98	ppb	90
53) Dibromochloromethane	16.323	129	148326m	1.22	ppb	
54) Methyl Butyl Ketone	15.767	43	170219	0.88	ppb	87
55) 1,2-dibromoethane	16.583	107	150066	1.40	ppb	99
56) Tetrachloroethylene	16.413	164	115840	1.48	ppb	99
57) Chlorobenzene	17.405	112	221961	1.29	ppb	94
58) Ethylbenzene	17.666	91	328848	1.09	ppb	96
59) m&p-xylene	17.870	91	573938	2.41	ppb	93
60) Nonane	18.262	43	196237	1.04	ppb	90
61) Styrene	18.341	104	216280	1.20	ppb	87
62) Bromoform	18.471	173	152033	1.41	ppb	99
63) o-xylene	18.375	91	317837	1.30	ppb	94
64) Cumene	18.976	105	378331	1.21	ppb	97
66) 1,1,2,2-tetrachloroethane	18.846	83	207960	1.42	ppb	99
67) Propylbenzene	19.566	120	100301	1.15	ppb	# 5
68) 2-Chlorotoluene	19.611	126	100857	1.34	ppb	# 1
69) 4-ethyltoluene	19.747	105	397544	1.25	ppb	99
70) 1,3,5-trimethylbenzene	19.809	105	348473m	1.28	ppb	
71) 1,2,4-trimethylbenzene	20.308	105	295627	1.10	ppb	98
72) 1,3-dichlorobenzene	20.637	146	195133	1.38	ppb	95
73) benzyl chloride	20.711	91	115293m	0.67	ppb	
74) 1,4-dichlorobenzene	20.785	146	242290m	1.82	ppb	
75) 1,2,3-trimethylbenzene	20.830	105	456843	1.70	ppb	99
76) 1,2-dichlorobenzene	21.136	146	191240	1.44	ppb	96
77) 1,2,4-trichlorobenzene	23.183	180	50457	1.20	ppb	95
78) Naphthalene	23.381	128	111366	0.80	ppb	97
79) Hexachloro-1,3-butadiene	23.500	225	167152	1.74	ppb	93

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

Data Path : C:\msdchem\1\data\
 Data File : AU070704.D
 Acq On : 7 Jul 2023 9:03 am
 Operator : RJP
 Sample : ALCS1UGD-070723
 Misc : A629_IUG
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 08 11:11:38 2023
 Quant Method : C:\msdchem\1\methods\A629_IUG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 Qlast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration



Data Path : C:\msdchem\1\data\
 Data File : AU070517.D
 Acq On : 5 Jul 2023 6:35 pm
 Operator : RJP
 Sample : C2307002-006A MS
 Misc : A629 1UG
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 07 15:38:22 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.545	128	62614	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.728	114	304112	1.00	ppb	0.00
50) Chlorobenzene-d5	17.354	117	277999	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene 19.089 95 212037 1.01 ppb 0.05
 Spiked Amount 1.000 Range 70 - 130 Recovery = 101.00%

Target Compounds

						Qvalue
2) Propylene	4.677	41	149038	1.66	ppb	# 52
3) Freon 12	4.734	85	384113	1.49	ppb	98
4) Chloromethane	4.944	50	87428	1.07	ppb	94
5) Freon 114	4.949	85	251952	1.18	ppb	100
6) Vinyl Chloride	5.170	62	80161	1.03	ppb	60
7) Butane	5.284	43	159125	1.53	ppb	# 46
8) 1,3-butadiene	5.284	39	93409m	1.15	ppb	
9) Bromomethane	5.664	94	80910	1.04	ppb	97
10) Chloroethane	5.851	64	42767	1.00	ppb	100
11) Ethanol	6.775	45	737094	3.85	ppb	# 1
12) Acrolein	6.559	56	36539	1.09	ppb	# 62
13) Vinyl Bromide	6.208	106	85553	1.01	ppb	99
14) Freon 11	6.503	101	446120	1.73	ppb	99
15) Acetone	6.661	58	615819	8.33	ppb	# 47
16) Pentane	6.792	42	182452	1.49	ppb	# 8
17) Isopropyl alcohol	6.775	45	737094	3.85	ppb	# 1
18) 1,1-dichloroethene	7.302	96	72056	0.77	ppb	# 80
19) Freon 113	7.506	101	180296	0.95	ppb	97
20) t-Butyl alcohol	7.523	59	293146	1.25	ppb	# 75
21) Methylene chloride	7.767	84	118947	0.75	ppb	# 87
22) Allyl chloride	7.761	41	102800	0.66	ppb	90
23) Carbon disulfide	7.948	76	676355	2.05	ppb	100
24) trans-1,2-dichloroethene	8.731	61	116411	0.79	ppb	88
25) methyl tert-butyl ether	8.731	73	177055	0.56	ppb	# 33
26) 1,1-dichloroethane	9.156	63	149346	0.79	ppb	99
27) Vinyl acetate	9.133	43	153213	0.56	ppb	94
28) Methyl Ethyl Ketone	9.627	72	55300	0.94	ppb	# 1
29) cis-1,2-dichloroethene	10.097	61	99729	0.69	ppb	89
30) Hexane	9.689	57	173956m	0.93	ppb	
31) Ethyl acetate	10.222	43	190966	0.73	ppb	96
32) Chloroform	10.704	83	213445	1.03	ppb	99
33) Tetrahydrofuran	10.857	42	81509m	0.65	ppb	
34) 1,2-dichloroethane	11.770	62	117782	0.77	ppb	98
36) 1,1,1-trichloroethane	11.509	97	154397	0.87	ppb	99
37) Cyclohexane	12.178	56	114181	0.81	ppb	90
38) Carbon tetrachloride	12.121	117	166299	0.94	ppb	98
39) Benzene	12.087	78	295187	1.14	ppb	94
40) Methyl methacrylate	13.544	41	83826	0.60	ppb	# 83
41) 1,4-dioxane	13.578	88	50524	0.73	ppb	86
42) 2,2,4-trimethylpentane	12.892	57	360894	0.81	ppb	89
43) Heptane	13.210	43	126087	0.74	ppb	89
44) Trichloroethene	13.352	130	104738	0.93	ppb	96

Data Path : C:\msdchem\1\data\
 Data File : AU070517.D
 Acq On : 5 Jul 2023 6:35 pm
 Operator : RJP
 Sample : C2307002-006A MS
 Misc : A629_1UG
 ALS Vial : 5 Sample Multiplier: 1

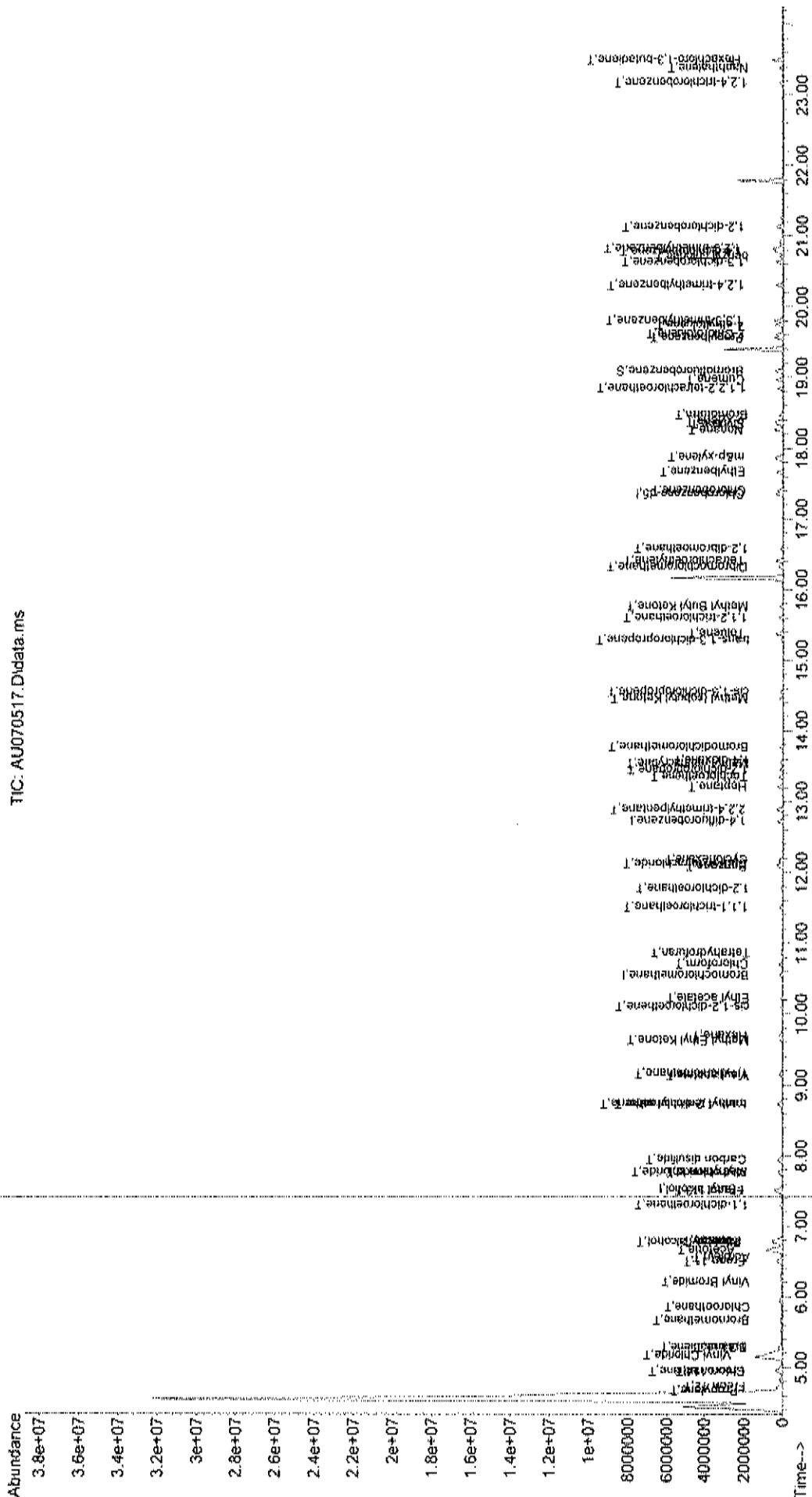
Quant Time: Jul 07 15:38:22 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.448	63	81876	0.84	ppb	97
46) Bromodichloromethane	13.771	83	155513	0.93	ppb	100
47) cis-1,3-dichloropropene	14.548	75	114692	0.75	ppb	98
48) trans-1,3-dichloropropene	15.285	75	103209m	0.72	ppb	
49) 1,1,2-trichloroethane	15.603	97	85785	0.91	ppb	97
51) Toluene	15.376	92	215639	1.11	ppb	97
52) Methyl Isobutyl Ketone	14.457	43	191489m	0.70	ppb	
53) Dibromochloromethane	16.323	129	149691	0.87	ppb	99
54) Methyl Butyl Ketone	15.761	43	192854m	0.70	ppb	
55) 1,2-dibromoethane	16.583	107	126616	0.84	ppb	98
56) Tetrachloroethylene	16.408	164	120556	1.09	ppb	99
57) Chlorobenzene	17.400	112	199286	0.82	ppb	93
58) Ethylbenzene	17.666	91	310816	0.73	ppb	96
59) m&p-xylene	17.876	91	515664	1.53	ppb	94
60) Nonane	18.256	43	171839	0.65	ppb	90
61) Styrene	18.341	104	191281	0.75	ppb	87
62) Bromoform	18.471	173	127603	0.84	ppb	99
63) o-xylene	18.375	91	286090	0.83	ppb	94
64) Cumene	18.970	105	298533	0.67	ppb	96
66) 1,1,2,2-tetrachloroethane	18.846	83	175081	0.85	ppb	98
67) Propylbenzene	19.560	120	97625	0.79	ppb	# 8
68) 2-Chlorotoluene	19.611	126	91361	0.86	ppb	# 1
69) 4-ethyltoluene	19.741	105	349680m	0.78	ppb	
70) 1,3,5-trimethylbenzene	19.804	105	306285	0.79	ppb	98
71) 1,2,4-trimethylbenzene	20.303	105	281140	0.74	ppb	98
72) 1,3-dichlorobenzene	20.632	146	195118	0.98	ppb	95
73) benzyl chloride	20.705	91	190245m	0.78	ppb	
74) 1,4-dichlorobenzene	20.779	146	234375m	1.24	ppb	
75) 1,2,3-trimethylbenzene	20.819	105	384957	1.01	ppb	99
76) 1,2-dichlorobenzene	21.125	146	180200	0.96	ppb	96
77) 1,2,4-trichlorobenzene	23.177	180	67546	1.14	ppb	94
78) Naphthalene	23.381	128	147455	0.75	ppb	97
79) Hexachloro-1,3-butadiene	23.495	225	133780	0.99	ppb	94

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

Data Path : C:\msdchem\1\data\
 Data File : AU070517.D
 Acq On : 5 Jul 2023 6:35 pm
 Operator : RJP
 Sample : C2307002-006A MS
 Misc : A629_1UG
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 07 15:38:22 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration



Data Path : C:\msdchem\1\data\
 Data File : AU070518.D
 Acq On : 5 Jul 2023 7:26 pm
 Operator : RJP
 Sample : C2307002-006A MSD
 Misc : A629_1UG
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 07:55:25 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.545	128	63126	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.722	114	308939	1.00	ppb	0.00
50) Chlorobenzene-d5	17.349	117	284411	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.095	95	207177	0.97	ppb	0.05
Spiked Amount	1.000	Range	70 - 130	Recovery	=	97.00%
Target Compounds						
					Qvalue	
2) Propylene	4.671	41	148738	1.64	ppb	# 51
3) Freon 12	4.734	85	385808	1.48	ppb	98
4) Chloromethane	4.955	50	90257	1.09	ppb	97
5) Freon 114	4.949	85	250593	1.17	ppb	99
6) Vinyl Chloride	5.170	62	83316	1.07	ppb	61
7) Butane	5.284	43	159604	1.52	ppb	# 46
8) 1,3-butadiene	5.289	39	84421m	1.03	ppb	
9) Bromomethane	5.669	94	82435	1.05	ppb	96
10) Chloroethane	5.845	64	44534	1.03	ppb	99
11) Ethanol	6.780	45	650551	3.37	ppb	# 1
12) Acrolein	6.559	56	36436	1.08	ppb	# 63
13) Vinyl Bromide	6.208	106	81049	0.95	ppb	100
14) Freon 11	6.508	101	384190	1.48	ppb	99
15) Acetone	6.667	58	535471m	7.18	ppb	
16) Pentane	6.792	42	174883	1.41	ppb	# 9
17) Isopropyl alcohol	6.780	45	650551	3.37	ppb	# 1
18) 1,1-dichloroethene	7.308	96	71039	0.75	ppb	# 80
19) Freon 113	7.512	101	179042	0.93	ppb	98
20) t-Butyl alcohol	7.518	59	281598	1.20	ppb	# 72
21) Methylene chloride	7.773	84	124554	0.78	ppb	# 87
22) Allyl chloride	7.761	41	100921	0.64	ppb	88
23) Carbon disulfide	7.948	76	656533	1.98	ppb	99
24) trans-1,2-dichloroethene	8.725	61	115964	0.78	ppb	87
25) methyl tert-butyl ether	8.736	73	180518m	0.57	ppb	
26) 1,1-dichloroethane	9.162	63	149171	0.78	ppb	99
27) Vinyl acetate	9.128	43	146969	0.54	ppb	94
28) Methyl Ethyl Ketone	9.627	72	53462	0.90	ppb	# 41
29) cis-1,2-dichloroethene	10.092	61	102747	0.71	ppb	86
30) Hexane	9.700	57	170681m	0.91	ppb	
31) Ethyl acetate	10.222	43	186484	0.70	ppb	96
32) Chloroform	10.698	83	213889	1.03	ppb	99
33) Tetrahydrofuran	10.863	42	65514	0.52	ppb	89
34) 1,2-dichloroethane	11.770	62	119246	0.77	ppb	99
36) 1,1,1-trichloroethane	11.509	97	157414	0.87	ppb	100
37) Cyclohexane	12.178	56	110795	0.77	ppb	91
38) Carbon tetrachloride	12.121	117	174190	0.97	ppb	100
39) Benzene	12.087	78	289346m	1.10	ppb	
40) Methyl methacrylate	13.544	41	83694	0.59	ppb	83
41) 1,4-dioxane	13.578	88	52753	0.75	ppb	89
42) 2,2,4-trimethylpentane	12.892	57	368375	0.81	ppb	90
43) Heptane	13.216	43	130189	0.75	ppb	88
44) Trichloroethene	13.352	130	107238	0.93	ppb	95

Data Path : C:\msdchem\1\data\
 Data File : AU070518.D
 Acq On : 5 Jul 2023 7:26 pm
 Operator : RJP
 Sample : C2307002-006A MSD
 Misc : A629_1UG
 ALS Vial : 6 Sample Multiplier: 1

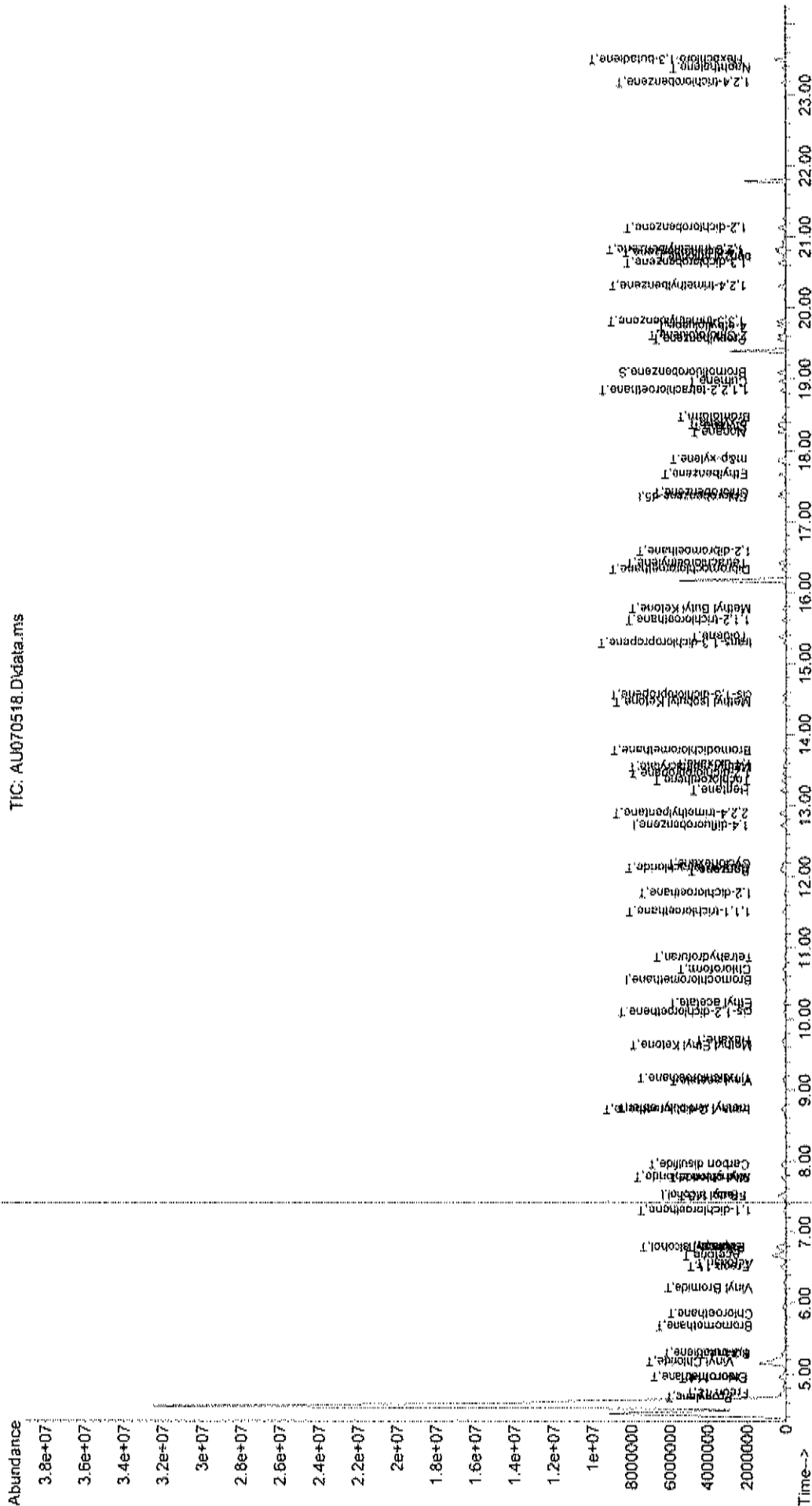
Quant Time: Jul 06 07:55:25 2023
 Quant Method : C:\msdchem\1\methods\A629_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Thu Jul 06 07:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-dichloropropane	13.448	63	84188	0.85	ppb	98
46) Bromodichloromethane	13.771	83	157960	0.93	ppb	99
47) cis-1,3-dichloropropene	14.554	75	118111	0.76	ppb	98
48) trans-1,3-dichloropropene	15.291	75	106532m	0.73	ppb	
49) 1,1,2-trichloroethane	15.608	97	88357	0.92	ppb	98
51) Toluene	15.376	92	214288	1.07	ppb	96
52) Methyl Isobutyl Ketone	14.452	43	189246m	0.68	ppb	
53) Dibromochloromethane	16.323	129	154906	0.88	ppb	100
54) Methyl Butyl Ketone	15.767	43	217775m	0.78	ppb	
55) 1,2-dibromoethane	16.578	107	132379	0.85	ppb	98
56) Tetrachloroethylene	16.408	164	122880	1.09	ppb	100
57) Chlorobenzene	17.405	112	205931	0.83	ppb	93
58) Ethylbenzene	17.666	91	325161	0.75	ppb	95
59) m&p-xylene	17.876	91	533841	1.55	ppb	94
60) Nonane	18.256	43	175451	0.64	ppb	90
61) Styrene	18.341	104	195593	0.75	ppb	87
62) Bromoform	18.471	173	132434	0.85	ppb	98
63) o-xylene	18.375	91	293801	0.83	ppb	93
64) Cumene	18.970	105	303706	0.67	ppb	# 96
66) 1,1,2,2-tetrachloroethane	18.846	83	179482	0.85	ppb	99
67) Propylbenzene	19.560	120	98600	0.78	ppb	# 19
68) 2-Chlorotoluene	19.611	126	92828	0.85	ppb	# 1
69) 4-ethyltoluene	19.741	105	353672m	0.77	ppb	
70) 1,3,5-trimethylbenzene	19.809	105	333336m	0.85	ppb	
71) 1,2,4-trimethylbenzene	20.308	105	293020m	0.75	ppb	
72) 1,3-dichlorobenzene	20.637	146	202093m	0.99	ppb	
73) benzyl chloride	20.711	91	138136m	0.56	ppb	
74) 1,4-dichlorobenzene	20.779	146	228222m	1.18	ppb	
75) 1,2,3-trimethylbenzene	20.819	105	395042m	1.01	ppb	
76) 1,2-dichlorobenzene	21.125	146	189061m	0.98	ppb	
77) 1,2,4-trichlorobenzene	23.177	180	71100	1.17	ppb	95
78) Naphthalene	23.381	128	157667	0.78	ppb	97
79) Hexachloro-1,3-butadiene	23.495	225	136867	0.99	ppb	94

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

Quant Time: Jul 06 07:55:25 2023
Quant Method : C:\msdchem\1\methods\A629_LUG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
Quant Update : Thu Jul 06 07:42:39 2023
Response via : Initial Calibration

TIC: AU070518.D\data.ms



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Instrument # MSD 6
 Internal Standard Stock # 5118
 Standard Stock # 5119
 LCS Stock # 5120
 Method Ref: EPA TO-15 / Jan. 1999

C2306045-001A 10x	A629_1UG	15	1.000	4 Jul 2023	11:03 pm

86) AU070422.D					
C2306045-001A 40x	A629_1UG	16	1.000	4 Jul 2023	11:46 pm

87) AU070423.D					
C2306045-002A 10x	A629_1UG	17	1.000	5 Jul 2023	12:29 am

88) AU070424.D					
C2306045-002A 40x	A629_1UG	18	1.000	5 Jul 2023	1:12 am

89) AU070425.D					
C2306045-003A 10x	A629_1UG	19	1.000	5 Jul 2023	1:55 am

90) AU070426.D					
C2306045-003A 40x	A629_1UG	20	1.000	5 Jul 2023	2:38 am

91) AU070501.D					
BFB1UG	A629_1UG	1	1.000	5 Jul 2023	6:03 am

92) AU070502.D					
ALUG_1.0	A629_1UG	2	1.000	5 Jul 2023	6:51 am

93) AU070503.D					
ALCS1UG-070523	A629_1UG	3	1.000	5 Jul 2023	7:44 am

94) AU070504.D					
ALCS1UGD-070523	A629_1UG	4	1.000	5 Jul 2023	8:28 am

95) AU070505.D					
AMB1UG-070523	A629_1UG	5	1.000	5 Jul 2023	9:07 am

96) AU070506.D					
BLK	A629_1UG	6	1.000	5 Jul 2023	9:50 am

97) AU070507.D					
C2306050-001A 90X	A629_1UG	7	1.000	5 Jul 2023	10:32 am

98) AU070508.D					
C2306050-002A 90X	A629_1UG	8	1.000	5 Jul 2023	11:15 am

99) AU070509.D					
C2306050	A629_1UG	9	1.000	5 Jul 2023	11:58 am

100) AU070510.D					
C2306045-001A 810X	A629_1UG	10	1.000	5 Jul 2023	12:40 pm

101) AU070511.D					
C2306045-002A 810X	A629_1UG	11	1.000	5 Jul 2023	1:23 pm

102) AU070512.D					
C2306045-003A 810X	A629_1UG	12	1.000	5 Jul 2023	2:06 pm

103) AU070513.D					
C2307002-020A	A629_1UG	1	1.000	5 Jul 2023	3:33 pm

104) AU070514.D					
C2307002-018A	A629_1UG	2	1.000	5 Jul 2023	4:17 pm

105) AU070515.D					
C2307002-019A	A629_1UG	3	1.000	5 Jul 2023	5:01 pm

106) AU070516.D					
C2307002-006A	A629_1UG	4	1.000	5 Jul 2023	5:46 pm

Instrument # MSD 6
 Internal Standard Stock # 5118
 Standard Stock # 5119
 ICS Stock # 5120
 Method Ref: EPA TO-15 / Jan. 1999

107) AU070517.D						
C2307002-006A MSD	A629_1UG	5	1.000	5 Jul 2023	6:35 pm	
108) AU070518.D						
C2307002-006A MSD	A629_1UG	6	1.000	5 Jul 2023	7:26 pm	
109) AU070519.D						
C2307002-001A	A629_1UG	7	1.000	5 Jul 2023	8:11 pm	
110) AU070520.D						
C2307002-002A	A629_1UG	8	1.000	5 Jul 2023	8:55 pm	
111) AU070521.D						
C2307002-003A	A629_1UG	9	1.000	5 Jul 2023	9:39 pm	
112) AU070522.D						
C2307002-004A	A629_1UG	10	1.000	5 Jul 2023	10:24 pm	
113) AU070523.D						
C2307002-005A	A629_1UG	11	1.000	5 Jul 2023	11:08 pm	
114) AU070524.D						
C2307002-007A	A629_1UG	12	1.000	5 Jul 2023	11:53 pm	
115) AU070525.D						
C2307002-008A	A629_1UG	13	1.000	6 Jul 2023	12:37 am	
116) AU070526.D						
C2307002-009A	A629_1UG	14	1.000	6 Jul 2023	1:21 am	
117) AU070527.D						
C2307002-010A	A629_1UG	15	1.000	6 Jul 2023	2:05 am	
118) AU070528.D						
C2307002-011A	A629_1UG	16	1.000	6 Jul 2023	2:50 am	
119) AU070529.D						
C2307002-012A	A629_1UG	17	1.000	6 Jul 2023	3:34 am	
120) AU070530.D						
C2307002-013A	A629_1UG	18	1.000	6 Jul 2023	4:18 am	
121) AU070531.D						
C2307002-014A	A629_1UG	19	1.000	6 Jul 2023	5:02 am	
122) AU070601.D						
BFB1UG	A629_1UG	20	1.000	6 Jul 2023	5:42 am	
123) AU070602.D						
ALUG	A629_1UG	21	1.000	6 Jul 2023	6:29 am	
124) AU070603.D						
ALUG_1.0	A629_1UG	22	1.000	6 Jul 2023	7:13 am	
125) AU070604.D						
ALCS1UG-070623	A629_1UG	1	1.000	6 Jul 2023	8:08 am	
126) AU070605.D						
ALCS1UGD-070623	A629_1UG	2	1.000	6 Jul 2023	8:52 am	
127) AU070606.D						
AMB1UG-070623	A629_1UG	3	1.000	6 Jul 2023	9:32 am	
128) AU070607.D						
C2306050-003A 180X	A629_1UG	4	1.000	6 Jul 2023	10:14 am	

Instrument # MSD 6
 Internal Standard Stock # 5118
 Standard Stock # 5119
 LCS Stock # 5120
 Method Ref: EPA TO-15 / Jan. 1999

129) AU070608.D						
C2307002-015A	A629_1UG	4	1.000	6 Jul 2023	10:58 am	
130) AU070609.D						
C2307002-016A	A629_1UG	5	1.000	6 Jul 2023	11:43 am	
131) AU070610.D						
C2307002-017A	A629_1UG	6	1.000	6 Jul 2023	12:29 pm	
132) AU070611.D						
C2307004-003A	A629_1UG	7	1.000	6 Jul 2023	1:13 pm	
133) AU070612.D						
C2307004-006A	A629_1UG	8	1.000	6 Jul 2023	1:58 pm	
134) AU070613.D						
C2307004-003A 10X	A629_1UG	9	1.000	6 Jul 2023	2:41 pm	
135) AU070614.D						
C2307004-006A 10X	A629_1UG	10	1.000	6 Jul 2023	3:24 pm	
136) AU070615.D						
C2307002-018A 5X	A629_1UG	11	1.000	6 Jul 2023	4:06 pm	
137) AU070616.D						
C2307002-019A 5X	A629_1UG	12	1.000	6 Jul 2023	4:47 pm	
138) AU070617.D						
C2307002-006A 5X	A629_1UG	13	1.000	6 Jul 2023	5:29 pm	
139) AU070618.D						
C2307002-001A 2X	A629_1UG	14	1.000	6 Jul 2023	6:12 pm	
140) AU070619.D						
C2307002-002A 5X	A629_1UG	15	1.000	6 Jul 2023	6:54 pm	
141) AU070620.D						
C2307002-003A 10X	A629_1UG	16	1.000	6 Jul 2023	7:37 pm	
142) AU070621.D						
C2307002-004A 10X	A629_1UG	17	1.000	6 Jul 2023	8:20 pm	
143) AU070622.D						
C2307002-004A 40X	A629_1UG	18	1.000	6 Jul 2023	9:03 pm	
144) AU070623.D						
C2307002-005A 10X	A629_1UG	19	1.000	6 Jul 2023	9:46 pm	
145) AU070624.D						
C2307002-007A 10X	A629_1UG	20	1.000	6 Jul 2023	10:28 pm	
146) AU070625.D						
C2307002-008A 10X	A629_1UG	21	1.000	6 Jul 2023	11:11 pm	
147) AU070626.D						
C2307002-008A 40X	A629_1UG	22	1.000	6 Jul 2023	11:54 pm	
148) AU070627.D						
C2307002-009A 10X	A629_1UG	23	1.000	7 Jul 2023	12:37 am	
149) AU070628.D						
C2307002-009A 40X	A629_1UG	24	1.000	7 Jul 2023	1:19 am	
150) AU070629.D						

Instrument # MSD 6
 Internal Standard Stock # 5118
 Standard Stock # 5119
 LCS Stock # 5120
 Approved Ref: EPA TO-15/Jan. 1999

C2307002-010A 10X	A629_1UG	25	1.000	7 Jul 2023	2:02 am
151) AU070630.D					
C2307002-011A 10X	A629_1UG	26	1.000	7 Jul 2023	2:45 am
152) AU070631.D					
C2307002-012A 10X	A629_1UG	27	1.000	7 Jul 2023	3:28 am
153) AU070701.D					
BFB1UG	A629_1UG	1	1.000	7 Jul 2023	5:22 am
154) AU070702.D					
ALUG_1.0	A629_1UG	2	1.000	7 Jul 2023	7:35 am
155) AU070703.D					
ALCS1UG-070723	A629_1UG	3	1.000	7 Jul 2023	8:19 am
156) AU070704.D					
ALCS1UGD-070723	A629_1UG	4	1.000	7 Jul 2023	9:03 am
157) AU070705.D					
AMB1UG-070723	A629_1UG	5	1.000	7 Jul 2023	9:42 am
158) AU070706.D					
C2307002-013A 9X	A629_1UG	6	1.000	7 Jul 2023	11:03 am
159) AU070707.D					
C2307002-013A 90X	A629_1UG	7	1.000	7 Jul 2023	11:46 am
160) AU070708.D					
C2307002-014A 10X	A629_1UG	8	1.000	7 Jul 2023	12:30 pm
161) AU070709.D					
C2307002-014A 40X	A629_1UG	9	1.000	7 Jul 2023	1:42 pm
162) AU070710.D					
C2307002-015A 10X	A629_1UG	10	1.000	7 Jul 2023	2:25 pm
163) AU070711.D					
C2307002-015A 40X	A629_1UG	11	1.000	7 Jul 2023	3:08 pm
164) AU070712.D					
C2307002-016A 10X	A629_1UG	12	1.000	7 Jul 2023	3:51 pm
165) AU070713.D					
C2307002-017A 10X	A629_1UG	13	1.000	7 Jul 2023	4:34 pm
166) AU070714.D					
C2307002-017A 40X	A629_1UG	14	1.000	7 Jul 2023	5:17 pm
167) AU070715.D					
WAC070723A	A629_1UG	15	1.000	7 Jul 2023	6:00 pm
168) AU070716.D					
WAC070723B	A629_1UG	16	1.000	7 Jul 2023	6:42 pm
169) AU070717.D					
WAC070723C	A629_1UG	17	1.000	7 Jul 2023	7:25 pm
170) AU070718.D					
WAC070723D N	A629_1UG	18	1.000	7 Jul 2023	8:25 pm
171) AU070719.D					
WAC070723E N	A629_1UG	19	1.000	7 Jul 2023	9:25 pm

Instrument # MSD 6
 Internal Standard Stock # 5118
 Standard Stock # 5119
 LCS Stock # 5120
 Method Ref: EPA TO-15 / Jan. 1999

172) AU070720.D						
WAC070723F N	A629_1UG	20	1.000	7 Jul 2023	10:25 pm	
173) AU070725.D						
C2307008-007A	A629_1UG	24	1.000	7 Jul 2023	11:17 pm	
174) AU070726.D						
C2307008-001A	A629_1UG	25	1.000	8 Jul 2023	12:02 am	
175) AU070727.D						
C2307008-002A	A629_1UG	26	1.000	8 Jul 2023	12:46 am	
176) AU070728.D						
C2307008-003A	A629_1UG	27	1.000	8 Jul 2023	1:31 am	
177) AU070729.D						
C2307008-004A	A629_1UG	28	1.000	8 Jul 2023	2:15 am	
178) AU070730.D						
C2307008-005A	A629_1UG	29	1.000	8 Jul 2023	3:00 am	
179) AU070731.D						
C2307008-006A	A629_1UG	30	1.000	8 Jul 2023	3:45 am	
180) AU070732.D						
C2307008-007A 10x	A629_1UG	31	1.000	8 Jul 2023	4:28 am	
181) AU070733.D						
C2307008-001A 10x	A629_1UG	32	1.000	8 Jul 2023	5:12 am	
182) AU070734.D						
C2307008-002A 10x	A629_1UG	33	1.000	8 Jul 2023	5:55 am	
183) AU070801.D						
BFB1UG	A629_1UG	1	2.000	8 Jul 2023	6:50 am	
184) AU070802.D						
ALUG_1.0	A629_1UG	1	1.000	8 Jul 2023	7:45 am	
185) AU070803.D						
ALCS1UG-070823	A629_1UG	2	1.000	8 Jul 2023	8:32 am	
186) AU070804.D						
AMB1UG-070823	A629_1UG	3	1.000	8 Jul 2023	9:12 am	
187) AU070805.D						
C2307008-003A 10X	A629_1UG	4	1.000	8 Jul 2023	9:55 am	
188) AU070806.D						
C2307008-004A 10X	A629_1UG	5	1.000	8 Jul 2023	10:39 am	
189) AU070807.D						
C2307008-005A 10X	A629_1UG	6	1.000	8 Jul 2023	11:26 am	
190) AU070808.D						
C2307008-006A 10X	A629_1UG	7	1.000	8 Jul 2023	12:09 pm	
191) AU070809.D						
BFB	A518SULF	1	1.000	8 Jul 2023	1:04 pm	
192) AU070810.D						
ASULF_50	A518SULF	2	1.000	8 Jul 2023	1:50 pm	
193) AU070811.D						
ALCSSULF-070823	A518SULF	3	1.000	8 Jul 2023	2:39 pm	

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-4930	3/29/22	4/5/22	TO15 146 IS	A4920	50 ppb	0.9	45	1	WD	
A-4931			↓	A4921	↓	↓	↓	↓	↓	
A-4932			↓	A4922	↓	↓	↓	↓	↓	
A-4933	4/5/22	4/12/22	TO15	A4926	1 ppm	1.5	30	30	WD	
A-4934			↓	A4927	↓	↓	↓	↓	↓	
A-4935			↓	A4928	↓	↓	↓	↓	↓	
A-4936			↓	A3992	1.025 ppm	1.47	30	50		
A-4937			↓	A4936	50 ppb	3.0	30	5		
A-4938			↓	A3792	10.3 ppm	0.22	45	50		
A-4939			↓	A2574	449 ppb	3.34	30	50		
A-4940			↓	A2623	500 ppb	3.0	30	50		
A-4941			↓	A3926	1 ppm	1.5	30	50		
A-4942			↓	A2572	10.2 ppm	1.47	30	500		
A-4943			↓	A4941	500 ppb	3.0	30	50		
A-4944			↓	A4933	50 ppb	0.9	45	1		
A-4945			↓	A4934	↓	↓	↓	↓	↓	
A-4946	3/30/22	3/30/22	TO15 IS	FF-531165	↓	↓	↓	↓	↓	
A-4947	3/8/22	3/8/22	TO15 STD	FF-531157	↓	↓	↓	↓	↓	
A-4948	3/8/22	3/8/22	TO15 LCS	A4927	1 ppm	1.5	30	50	WD	
A-4949	4/12/22	4/12/22	TO15 IS	A4946	1 ppm	1.5	30	50	WD	
A-4950			↓	A4947	↓	↓	↓	↓	↓	

FORM 153

Page # 159

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-5098	6/28/22	7/5/22	TO15 4PCH	A3992	1.025 ppm	1.47	30	50	WD	
A-5099			4PCHS	A5098	50 ppb	3.0	30	5		
A-5100			FORM	A3792	10.3 ppm	0.22	45	50		
A-5101			SILOX	A2574 A2623	449 ppb 500 ppb	3.34 3.0	30	50		
A-5102			SULF	A5053	1 ppm	1.5	30	50		
A-5103			H2S	A5034	8.05 ppm	1.87	30	500		
A-5104			H2SSO	A5103	500 ppb	3.0	30	50		
A-5105			TO15 146 IS	A5095	50 ppb	0.9	45	1		
A-5106			STD	A5816						
A-5107			LCS	A5097						
A-5108	7/5/22	7/12/22	TO15	A4946	1 ppm	1.5	30	50	WD	
A-5109			STD	A4947						
A-5110			LCS	A4948						
A-5111			4PCH	A3992	1.025 ppm	1.47	30	50		
A-5112			4PCHS	A5111	50 ppb	3.0	30	5		
A-5113			FORM	A3792	10.3 ppm	0.22	45	50		
A-5114			SILOX	A2574 A2623	449 ppb 500 ppb	3.34 3.0	30	50		
A-5115			SULF	A5053	1 ppm	1.5	30	50		
A-5116			H2S	A5034	8.05 ppm	1.87	30	500		
A-5117			H2SSO	A5116	500 ppb	3.0	30	50		
A-5118			TO15 146 IS	A5108	50 ppb	0.9	45	1		

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-5119	7/5/02	7/12/02	TO15 1061 STD	A5109	50 ppb	0.9	45	1	WD	
A-5120	↓	↓	↓	A5110	↓	↓	↓	↓	↓	
A-5121	7/12/02	7/12/02	TO15	A4946	1 ppm	1.5	30	50	WD	
A-5122	↓	↓	↓	A4947	↓	↓	↓	↓	↓	
A-5123	↓	↓	↓	A4948	↓	↓	↓	↓	↓	
A-5124	↓	↓	4PC4	A3992	1.025 ppm	1.47	30	50	↓	
A-5125	↓	↓	4PC45	A5124	50 ppb	3.0	30	5	↓	
A-5126	↓	↓	FORM	A3792	10.3 ppm	0.22	45	50	↓	
A-5127	↓	↓	S110X	A2574 A2633	449 ppb 500 ppb	3.34 3.0	30	50	↓	
A-5128	↓	↓	SULF	A5053	1 ppm	1.5	30	50	↓	
A-5129	↓	↓	H2S	A5054	8.05 ppm	1.87	30	500	↓	
A-5130	↓	↓	H2SSO	A5129	500 ppb	3.0	30	50	↓	
A-5131	↓	↓	TO15 1061 IS	A5121	50 ppb	0.9	45	1	↓	
A-5132	↓	↓	↓	A5122	↓	↓	↓	↓	↓	
A-5133	↓	↓	↓	A5123	↓	↓	↓	↓	↓	
A-5134	7/19/02	7/12/02	TO15	A4946	1 ppm	1.5	30	50	WD	
A-5135	↓	↓	↓	A4947	↓	↓	↓	↓	↓	
A-5136	↓	↓	↓	A4948	↓	↓	↓	↓	↓	
A-5137	↓	↓	4PC4	A3992	1.025 ppm	1.47	30	50	↓	
A-5138	↓	↓	4PC45	A5137	50 ppb	3.0	30	5	↓	
A-5139	↓	↓	FORM	A3792	10.3 ppm	0.22	45	50	↓	

FORM 153

Page # 4

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	Canister Size	QC Can Number	# of Cycles	Int & Date Cleaned	QC Batch Number	Defection Limits	Leak Test 24hr Int & Date
1215	6"	747	20	12/19/22	WAG-123022A	1/2" +0.20	+30 1/4/23
1356							+30
841							+30
822							+30
747							+30
838		821			B		+30
832							+30
828							+30
825							+30
821							+30
212	1.7L	1200		12/20/22	C		+30
483							+30
485							+30
211							+30
1200							+30
215		1198			D		+30
216							+30
1206							+30
1198							+30
1207							+30
484		218			E		+30
1208							+30
1202							+30
1319							+30
218							+30

Canister Number	Canister Size	QC Can Number	# of Cycles	Int & Date Cleaned	QC Batch Number	Detection Limits	Leak Test 24hr Int & Date
137	1L	130	20	6/6/23	WAC060923 A	1.2g + 0.20	+ 30
102							+ 30
336							+ 30
561							+ 30
130							+ 30
203		236			B		+ 30
233							+ 30
1450							+ 30
367							+ 30
236							+ 30
241		1184			C		+ 30
225							+ 30
205							+ 30
170							+ 30
1184							+ 30
459		171			D		+ 30
83							+ 30
1190							+ 30
96							+ 30
171							+ 30
106		328			E		+ 30
128							+ 30
555							+ 30
568							+ 30
328							+ 30

Centek Laboratories, LLC

Instrument: Entech 3100

QC Canister Cleaning Logbook

Canister Number	Canister Size	QC Can Number	# of Cycles	Int & Date Cleaned	QC Batch Number	Detection Limits	Leak Test 24hr Int & Date
94	1L	318	6/6/23	2.0	WAG560523 BF	0.20 ± 1%	+30
89							+30
562							+30
1182							+30
318							+30
248		1174	6/7/23		AG		+30
546							+30
1192							+30
1189							+30
1174							+30
1179		189					+30
1185					FA		+30
563							+30
239							+30
189							+30
320		222					+30
552					FA		+30
221							+30
362							+30
222							+30
422		232					+30
550					FA		+30
103							+30
1548							+30
282							+30

Data Path : C:\msdchem\1\data2\
Data File : AU060914.D
Acq On : 9 Jun 2023 6:36 pm
Operator : RJP
Sample : WAC060923A
Misc : A606_1UG
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 07:19:26 2023
Quant Method : C:\msdchem\1\methods\A606_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Tue Jun 06 20:24:57 2023
Response via : Initial Calibration

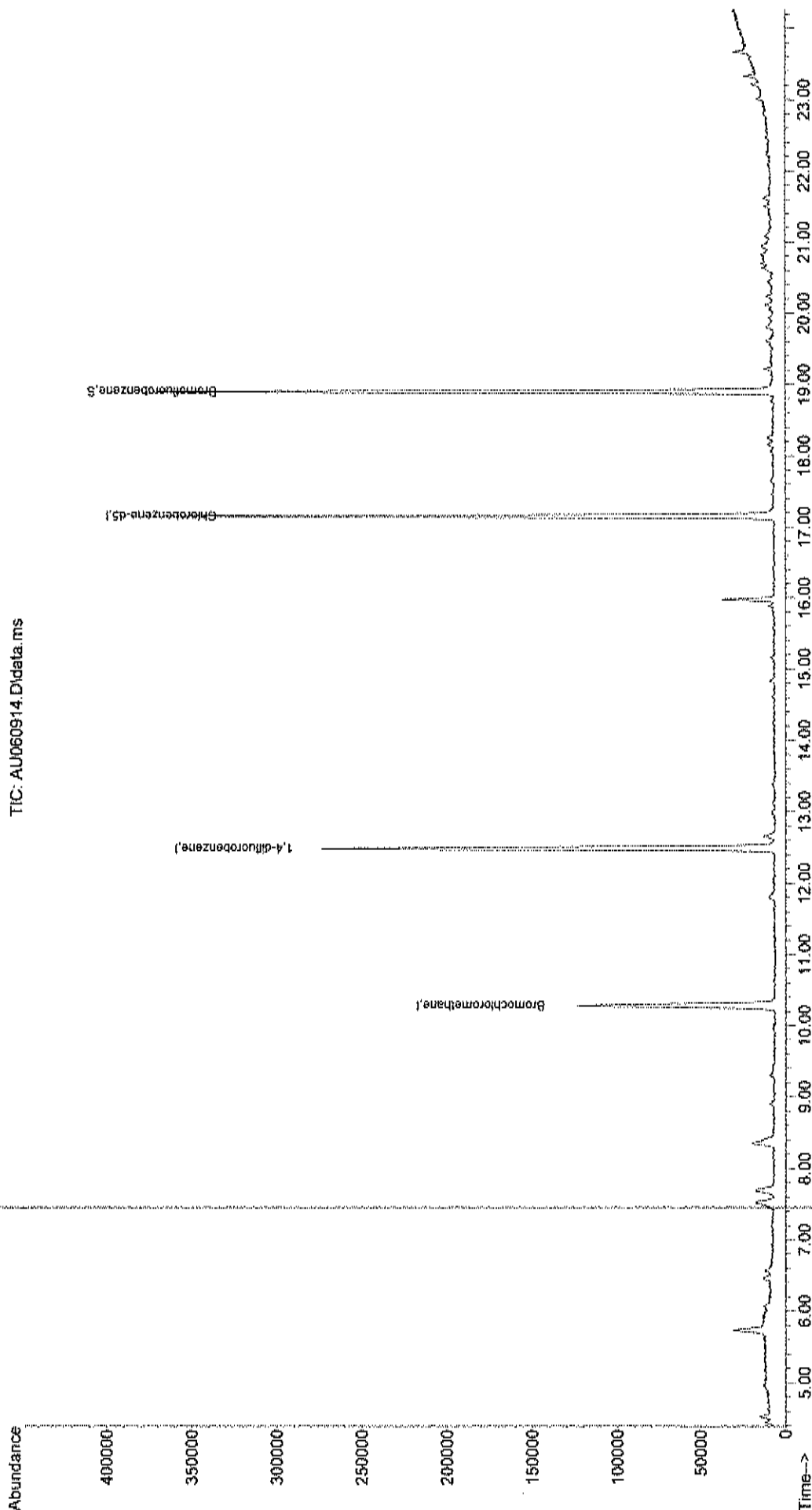
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.283	128	57987	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.494	114	331156	1.00	ppb	0.00
50) Chlorobenzene-d5	17.149	117	284042	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.895	95	191793	0.91	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	91.00%

Target Compounds	Qvalue
------------------	--------

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

Data Path : C:\msdchem\1\data2\
 Data File : AU060914.D
 Acq On : 9 Jun 2023 6:36 pm
 Operator : RJP
 Sample : WAC060923A
 Misc : A606_1UG
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 07:19:26 2023
 Quant Method : C:\msdchem\1\methods\A606_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 Qlast Update : Tue Jun 06 20:24:57 2023
 Response via : Initial Calibration



Data Path : C:\msdchem\1\data2\
Data File : AU060915.D
Acq On : 9 Jun 2023 7:18 pm
Operator : RJP
Sample : WAC060923B
Misc : A606_1UG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 07:19:28 2023
Quant Method : C:\msdchem\1\methods\A606_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Tue Jun 06 20:24:57 2023
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	10.283	128	56880	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.495	114	318530	1.00	ppb	0.00
50) Chlorobenzene-d5	17.149	117	276519	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.896	95	188633	0.92	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	92.00%

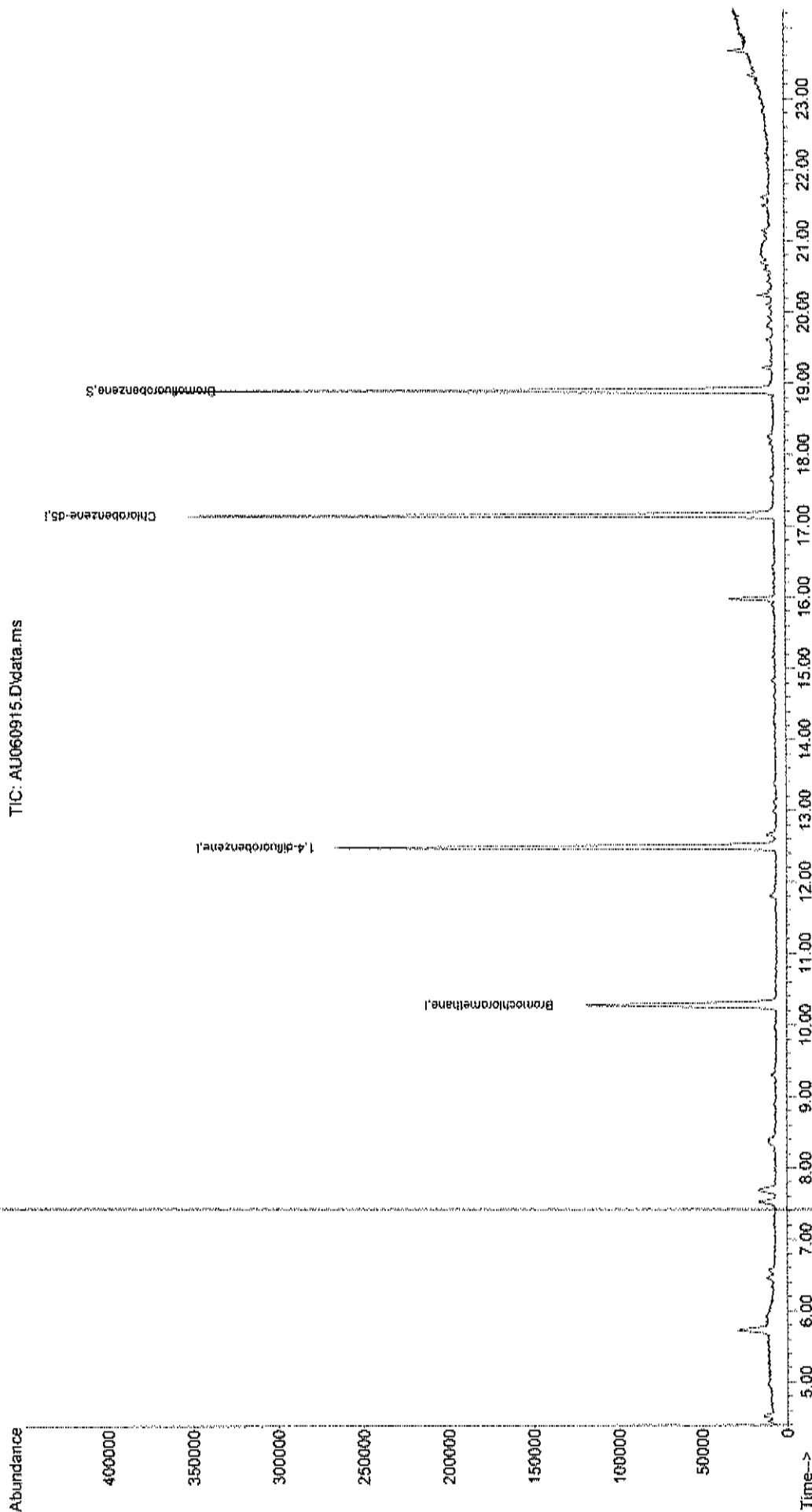
Target Compounds

Qvalue

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

Data Path : C:\msdchem\1\data2\
 Data File : AU060915.D
 Acq On : 9 Jun 2023 7:18 pm
 Operator : RJP
 Sample : WAC060923B
 Misc : A606_1UG
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 07:19:28 2023
 Quant Method : C:\msdchem\1\methods\A606_1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Tue Jun 06 20:24:57 2023
 Response via : Initial Calibration



Data Path : C:\msdchem\1\data2\
Data File : AU060916.D
Acq On : 9 Jun 2023 8:00 pm
Operator : RJP
Sample : WAC060923C
Misc : A606_1UG
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 10 07:19:30 2023
Quant Method : C:\msdchem\1\methods\A606_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Tue Jun 06 20:24:57 2023
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	10.283	128	55084	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.489	114	306375	1.00	ppb	0.00
50) Chlorobenzene-d5	17.149	117	266755	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.896	95	179256	0.90	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	90.00%

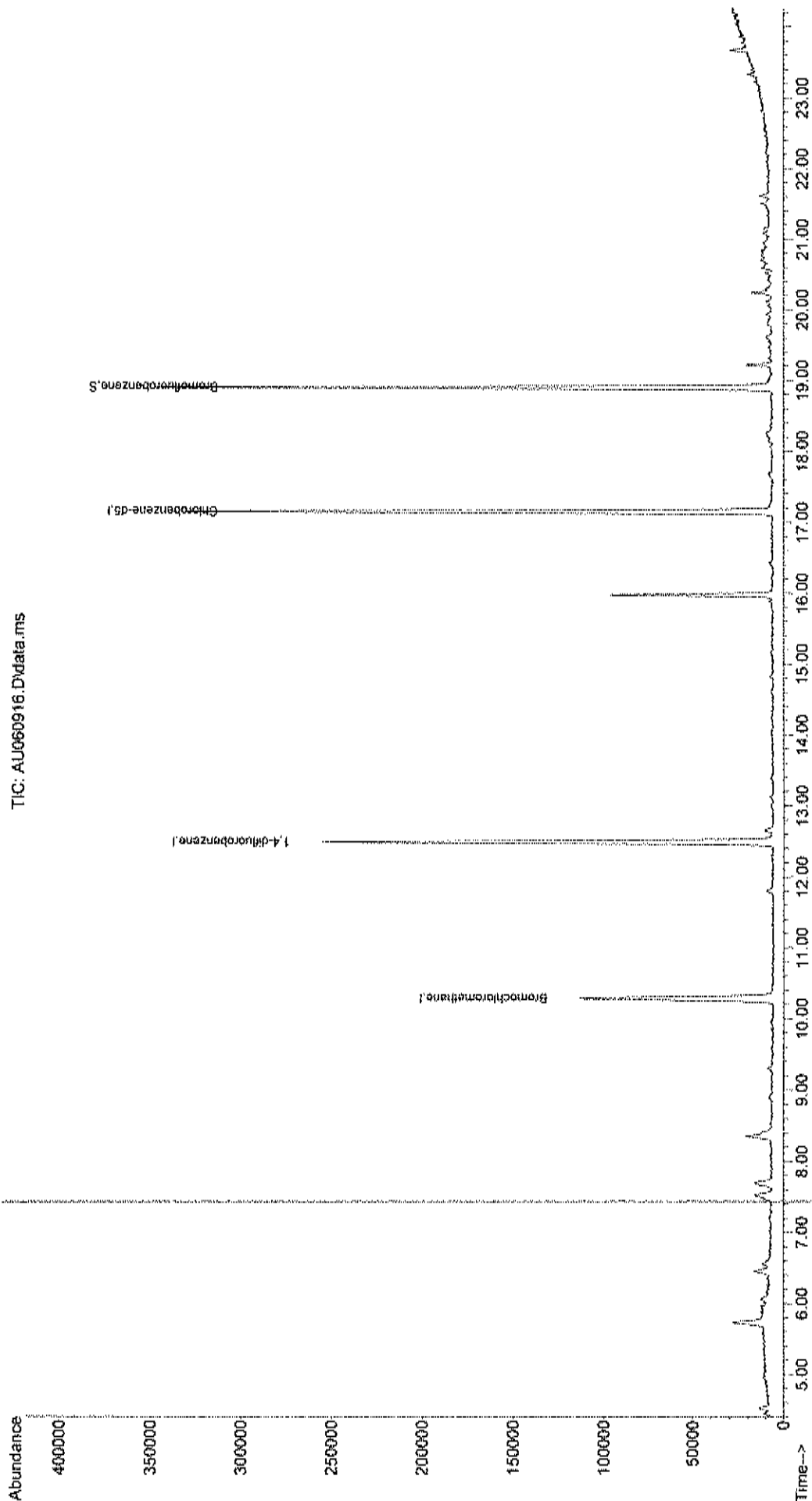
Target Compounds

Qvalue

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

Data Path : C:\msdchem\1\data2\
 Data File : AU060916.D
 Acq On : 9 Jun 2023 8:00 pm
 Operator : RJP
 Sample : WAC060923C
 Misc : A606 1UG
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 10 07:19:30 2023
 Quant Method : C:\msdchem\1\methods\A606 1UG.M
 Quant Title : TO-15 VOA Standards for 5 point calibration
 QLast Update : Tue Jun 06 20:24:57 2023
 Response via : Initial Calibration



TIC: AU060916.D\data.ms

Data Path : C:\msdchem\1\data2\
Data File : AU060917.D
Acq On : 9 Jun 2023 8:43 pm
Operator : RJP
Sample : WAC060923D
Misc : A606_1UG
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 10 07:19:32 2023
Quant Method : C:\msdchem\1\methods\A606_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Tue Jun 06 20:24:57 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	10.289	128	53001	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.495	114	298459	1.00	ppb	0.00
50) Chlorobenzene-d5	17.149	117	254564	1.00	ppb	0.00

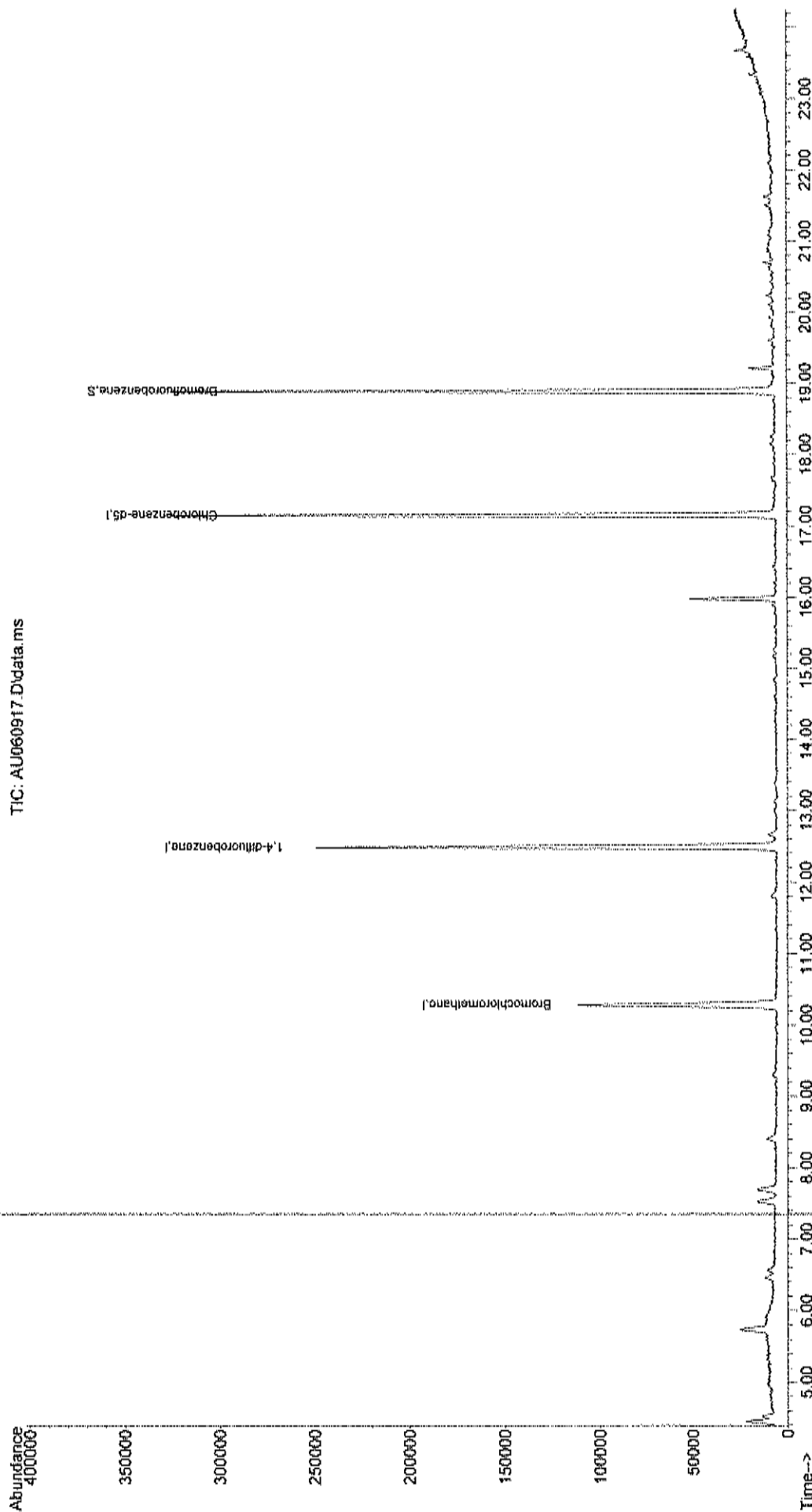
System Monitoring Compounds

65) Bromofluorobenzene	18.890	95	169016	0.89	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	89.00%

Target Compounds	Qvalue
------------------	--------

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

Data Path : C:\msdchem\1\data2\
Data File : AU060917.D
Acq On : 9 Jun 2023 8:43 pm
Operator : RJP
Sample : WAC060923D
Misc : A606 IUG
ALS Vial : 4 Sample Multiplier: 1
Quant Time: Jun 10 07:19:32 2023
Quant Method : C:\msdchem\1\methods\A606 IUG.M
Quant Title : 70-15 VOA Standards for 5 point calibration
Qlast Update : Tue Jun 06 20:24:57 2023
Response via : Initial Calibration



Data Path : C:\msdchem\1\data2\
Data File : AU060918.D
Acq On : 9 Jun 2023 9:26 pm
Operator : RJP
Sample : WAC060923E
Misc : A606_1UG
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 10 07:19:34 2023
Quant Method : C:\msdchem\1\methods\A606_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Tue Jun 06 20:24:57 2023
Response via : Initial Calibration

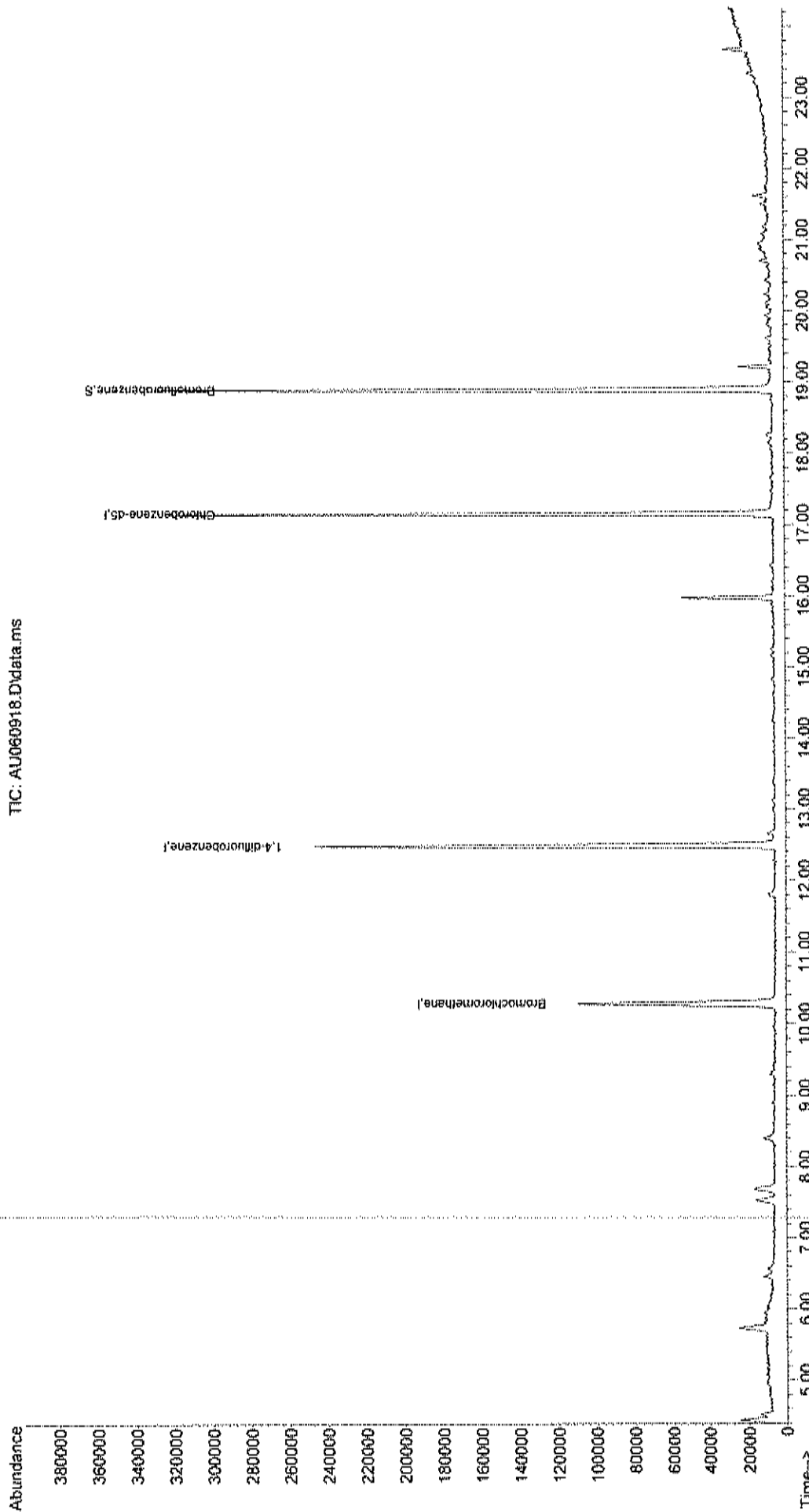
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	10.283	128	52947	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.489	114	290506	1.00	ppb	0.00
50) Chlorobenzene-d5	17.149	117	250530	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.890	95	169805	0.91	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	91.00%

Target Compounds	Qvalue

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

Data Path : C:\msdchem\1\data2\
 Data File : AU060918.D
 Acq On : 9 Jun 2023 9:26 pm
 Operator : RJP
 Sample : WAC060923E
 Misc : A606.iUG
 ALS Vial : 5 Sample Multiplier: 1
 Quant Time: Jun 10 07:19:34 2023
 Quant Method : C:\msdchem\1\methods\A606.iUG.M
 Quant Title : TO-15 VQA Standards for 5 point calibration
 QLast Update : Tue Jun 06 20:24:57 2023
 Response via : Initial Calibration



Data Path : C:\msdchem\1\data2\
Data File : AU060919.D
Acq On : 9 Jun 2023 10:08 pm
Operator : RJP
Sample : WAC060923F
Misc : A606_1UG
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 10 07:19:36 2023
Quant Method : C:\msdchem\1\methods\A606_1UG.M
Quant Title : TO-15 VOA Standards for 5 point calibration
QLast Update : Tue Jun 06 20:24:57 2023
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	10.283	128	50316	1.00	ppb	# 0.00
35) 1,4-difluorobenzene	12.494	114	282066	1.00	ppb	0.00
50) Chlorobenzene-d5	17.149	117	243603	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.890	95	164236	0.90	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	90.00%

Target Compounds	Qvalue

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

Data Path : C:\msdchem\1\data2\
 Data File : AU060919.D
 Acq On : 9 Jun 2023 10:08 pm
 Operator : RJP
 Sample : WAC060923F
 Misc : A606 IUG
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 10 07:19:36 2023
 Quant Method : C:\msdchem\1\methods\A606 IUG.M
 Quant Title : TO-15 VQA Standards for 5 point calibration
 QLast Update : Tue Jun 06 20:24:57 2023
 Response via : Initial Calibration

