



Via Email

June 29, 2023
File No. 20.0157661.01

Mr. George Beyer
george@christchurchmke.org
Christ Church MKE
1422 Vel R Phillips Avenue
Milwaukee, Wisconsin 53212

Re: Notification of Indoor Air Sampling Results - June 2023
Christ Church MKE
1422 Vel R Phillips Avenue
Milwaukee, Wisconsin

Dear Mr. Beyer:

On behalf of Milwaukee Plating, Inc. (Milwaukee Plating), GZA GeoEnvironmental, Inc. (GZA) is providing you with the indoor air sampling results from the June 2023 activities for the Christ Church MKE property located at 1422 Vel R Phillips Avenue in Milwaukee, Wisconsin.

Milwaukee Plating collected indoor air samples from inside of the Christ Church MKE building over a seven-day period from May 30 through June 6, 2023, as part of the investigation of trichloroethene (TCE) vapors that were previously detected in the air inside of the building. The Wisconsin Department of Natural Resources (WDNR) has identified Milwaukee Plating as a potential source of these vapors due to its use in its operations. The WDNR Bureau of Remediation and Redevelopment Tracking System (BRRTS) Number for the Site is BRRTS #02-41-000826. Information on the Milwaukee Plating site is provided on the BRRTS website at: <https://apps.dnr.wi.gov/botw/GetActivityDetail.do?dsn=35320&siteId=599000&crumb=1>.

The following is the contact information for the WDNR Project Manager, Ms. Linda Michalets:

Ms. Linda Michalets – Advanced Hydrogeologist
1027 West Saint Paul Avenue
Milwaukee, Wisconsin 532233-2641
(414) 435-8010
Linda.Michalets@wisconsin.gov

AIR SAMPLE RESULTS

On May 30, 2023, GZA met with you to gain access to the Christ Church MKE building to deploy seven passive air samplers throughout the building. The purpose of the sampling was to evaluate the indoor air of the Christ Church MKE building for volatile organic compounds (VOCs) that were previously reported in samples collected by Christ Church MKE and the Wisconsin Department of Health Services. These samples were collected after the completion of repairs to the vapor degreaser that is used as part of the Milwaukee Plating operations.

GZA deployed a total of seven Radiello® 130 passive air samplers inside of the Christ Church MKE building. Two samplers were deployed in the basement, first floor, and second floor, and one sampler was deployed near the west exit door in the stairwell on the first floor. In the basement, first floor, and second floor, one sampler was deployed in a central location in the east and west



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half of the respective floor. In the basement, sampler IA-1 and IA-2 were deployed in a similar location to the sample previously collected by Christ Church MKE and labeled as Print Cage and Center Corridor, respectively. Sampler IA-3 was deployed near the west exit door in a similar location to the sample collected by Christ Church MKE and labeled as 1st Flr-West Stair Exit Door. The samples on the 2nd Floor were collected from central areas and GZA could not confirm if they correspond to samples previously collected by Christ Church MKE. The sample collected outside of the Christ Church MKE building in the alley, OA-1, was collected adjacent to the west exit door.


The samples were retrieved on June 6, 2023, and shipped under chain-of-custody control to Eurofins Air Toxics for VOC analysis by United States Environmental Protection Agency (USEPA) modified Method TO-17. The results of the air samples collected inside of the Christ Church MKE building are summarized on the attached **Table 1** and are shown on the attached **Figure 1**. The laboratory analytical data report is provided in **Attachment 1**.


The results of the air samples collected inside of the Christ Church MKE building were evaluated by comparing the results to the WDNR Vapor Action Levels (VALs) for Small Commercial buildings. Based on this comparison the results for these samples were less than the WDNR quick-reference look-up VALs, dated December 2022, for TCE.

Thank you again for the opportunity to collect the air samples on your property. Should you have questions regarding the attached results of the analytical testing, please feel free to contact the undersigned at (262) 754-2574.

Very truly yours,

GZA GeoEnvironmental, Inc.


Kevin M. Hedinger
Senior Hydrogeologist


James F. Drought, P.H.
Principal Hydrogeologist

J:\157600to157699\157661 MKE Plating\01 Add'l Env'l Svcs\Report\Off-Site Notification\FINAL 20.0157661.01 Notification of Air Sampling Results_Milwaukee WI 6-29-23.docx

Attachments: Table 1
Figure 1
Laboratory Analytical Report

cc: Mr. Al Mattacotti, Milwaukee Plating
Mr. Ethan Jacoby, Milwaukee Plating
Mr. Don Gallo, Esq., Gallo Law LLP
Ms. Linda Michalets, WDNR



TABLE



TABLE 1
VOC AIR SAMPLE RESULTS SUMMARY
 Christ Church MKE and Milwaukee Plating
 Milwaukee, Wisconsin

Sample ID Sample Description Date	WDNR Indoor Air VAL - Small Commercial	1422 Building Samples							Alley
		IA-1 Print Cage 5/30-6/6/2023	IA-2 East Basement 5/30-6/6/2023	IA-3 West Exit Door 5/30-6/6/2023	IA-4 East 1st Floor 5/30-6/6/2023	IA-5 West 1st Floor 5/30-6/6/2023	IA-6 East 2nd Floor 5/30-6/6/2023	IA-7 West 2nd Floor 5/30-6/6/2023	OA-1 West Exit Door 5/30-6/6/2023
Ethanol	NS	3.1	3.3	2.7	3.5	4.3	2.9	3.1	<1.0
Methyl tert-butyl ether	NS	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Hexane	NS	0.47	0.41	0.19	0.32	0.26	0.22	0.21	0.27
Ethyl Acetate	NS	0.56	<0.52	<0.52	0.55	<0.52	<0.52	<0.52	<0.53
2-Butanone (MEK)	NS	0.94	0.83	0.57	0.75	0.7	0.56	0.56	0.39
Chloroform	5.3	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,1,1-Trichloroethane	22,000	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.17
Cyclohexane	NS	0.21	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Carbon Tetrachloride	20	0.41	0.37	0.25	0.31	0.32	0.41	0.35	0.36
Benzene	16	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	0.67
1,2-Dichloroethane	4.7	0.14	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Heptane	NS	0.94	0.82	0.29	0.36	0.29	0.24	0.24	0.25
Trichloroethene	8.8	4.5	4.0	4.9	2.1	2.4	3.3	3.1	71
4-methyl-2-pentanone (MIBK)	NS	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.31
Toluene	NS	2.0	1.8	0.97	1.9	1.6	2.1	1.4	0.83
Tetrachloroethene	180	0.26	0.22	<0.17	<0.17	<0.17	<0.17	<0.17	0.18
Chlorobenzene	NS	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Ethylbenzene	49	0.19	0.17	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
m,p-Xylene	440	0.57	0.51	0.25	0.3	0.3	0.26	0.25	0.39
o-Xylene		0.18	0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Styrene	NS	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Propylbenzene	NS	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,4-Dichlorobenzene	NS	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.36
Naphthalene	3.6	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41

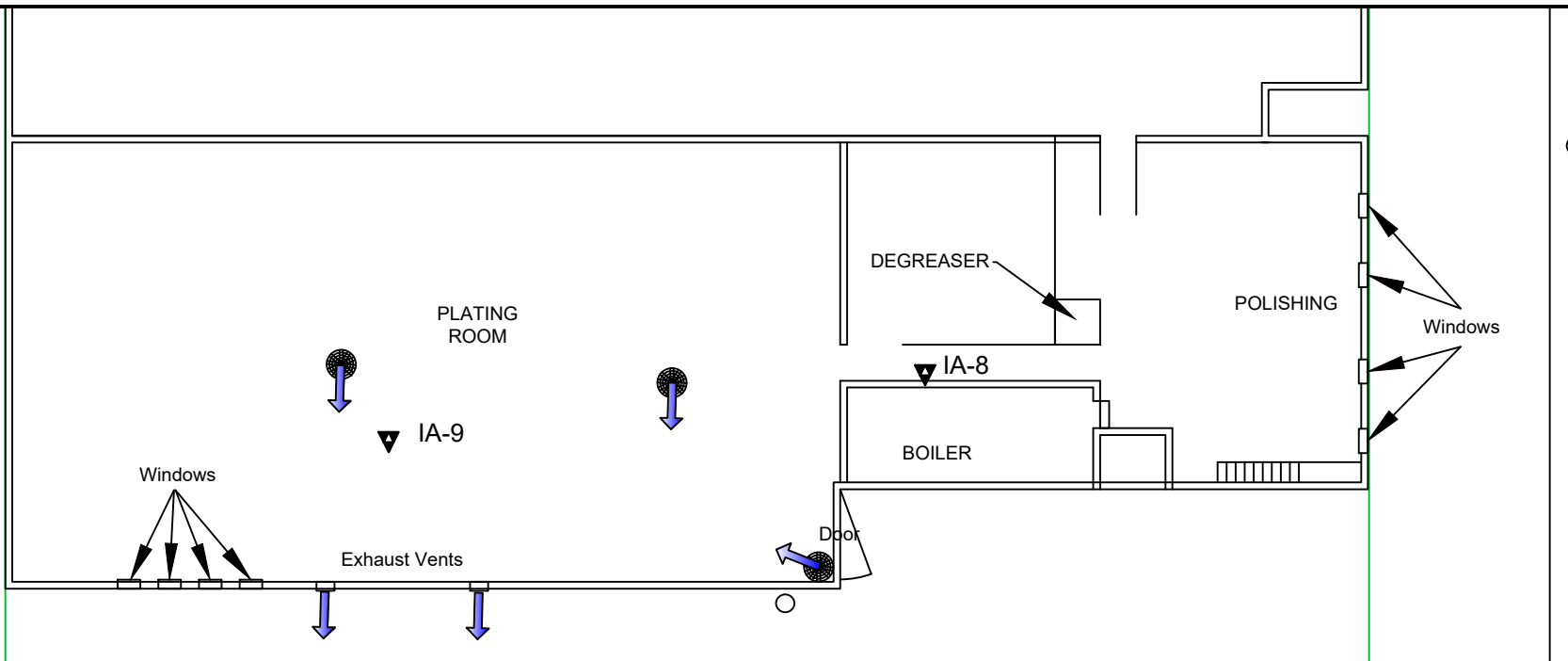
Notes:

1. Volatile organic compound (VOC) concentrations are reported in micrograms per kilograms ($\mu\text{g}/\text{m}^3$).
2. **BOLD** indicates concentration detected in sample exceeding the respective Vapor Action Limit (VAL).
3. NS = No Standard.
4. Samples collected over period shown using a Radiello 130 in the breathing zone at the sample location.

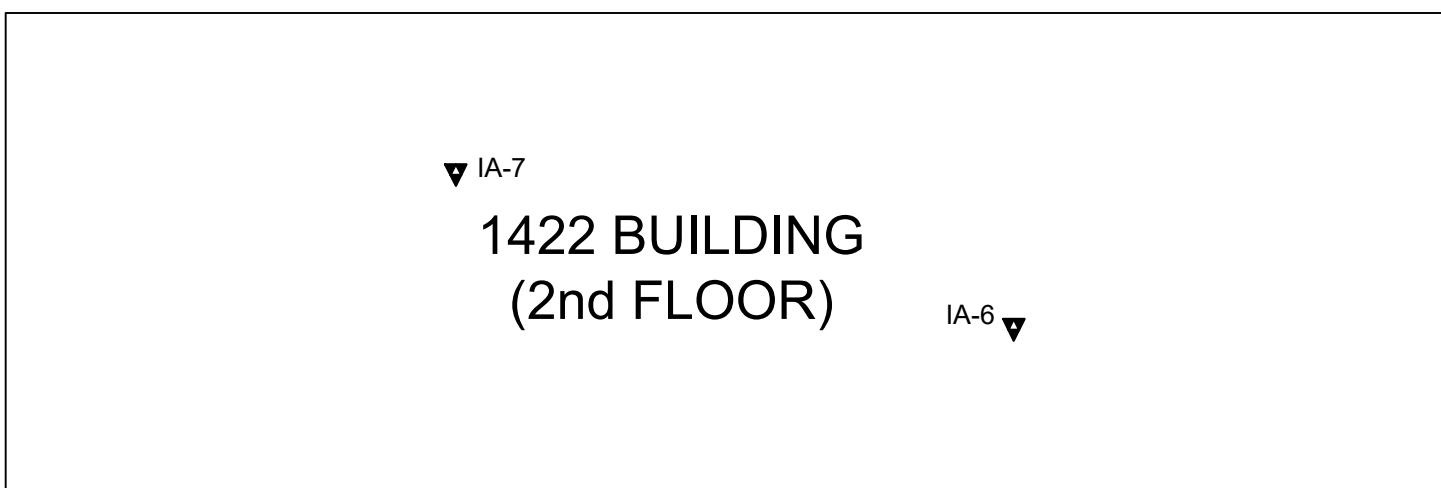
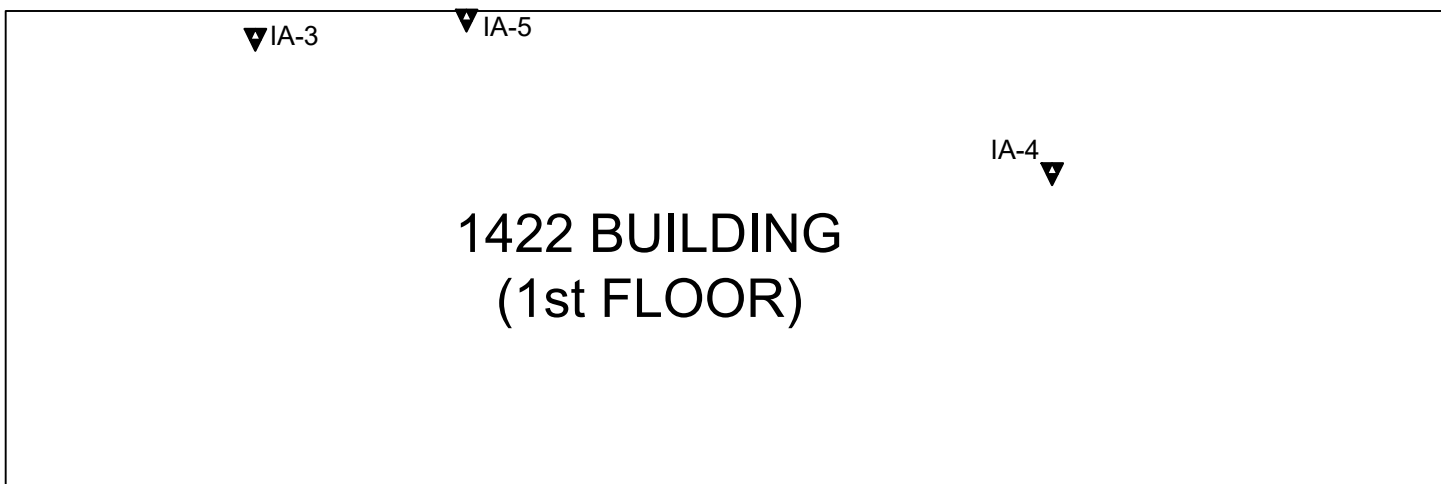
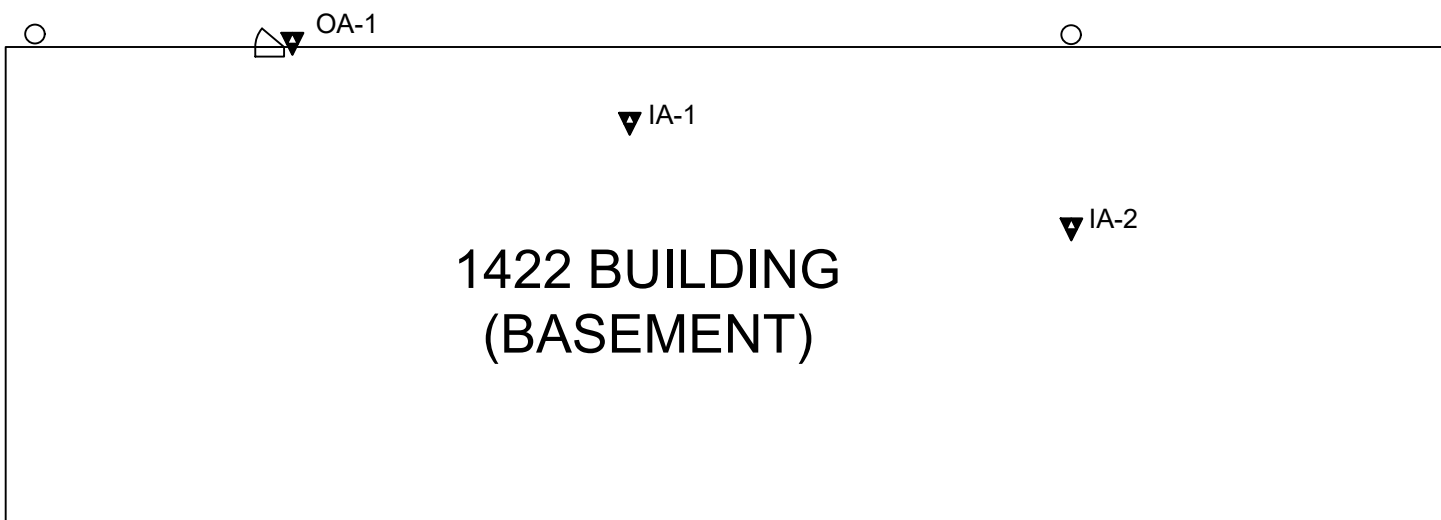


FIGURE

©2023 - GZA GeoEnvironmental, Inc. GZA-C:\USERS\KEVIN.HEDINGER\DESKTOP\MILWAUKEE PLATING\VAPOR SAMPLING INVESTIGATION\CAD\SITE PLAN.DWG F1- SITE PLAN (4) JUNE 19, 2023 KEVIN HEDINGER

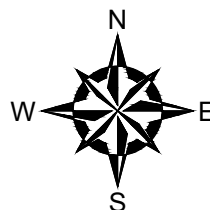


ALLEY (CONCRETE)



LEGEND

IA-6 ▼ AIR SAMPLE LOCATION



NO.	ISSUE/DESCRIPTION	BY	DATE
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MILWAUKEE PLATING VAPOR EVALUATION			
INDOOR & OUTDOOR AIR SAMPLING LOCATIONS (JUNE 2023)			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: MILWAUKEE PLATING 1434 VEL R PHILLIPS AVENUE MILWAUKEE, WISCONSIN	
PROJ MGR: KMH	REVIEWED BY: JFD	CHECKED BY: JFD	FIG. 1
DESIGNED BY: KMH	DRAWN BY: KMH	SCALE: AS SHOWN	1 SHEET NO.
DATE: 6/19/2023	PROJECT NO. 20.0157661.00	REVISION NO.	



ATTACHMENT 1

Laboratory Analytical Report

6/15/2023

Ms. Heidi Woelfel

GZA GeoEnvironmental, Inc.

17975 West Sarah Lane

Suite 150

Brookfield WI 53045

Project Name: MKE Plating

Project #: 20.0157661.01

Workorder #: 2306163

Dear Ms. Heidi Woelfel

The following report includes the data for the above referenced project for sample(s) received on 6/8/2023 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive S.E. RAD130/SKC are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Jade White

Project Manager

WORK ORDER #: 2306163

Work Order Summary

CLIENT:	Ms. Heidi Woelfel GZA GeoEnvironmental, Inc. 17975 West Sarah Lane Suite 150 Brookfield, WI 53045	BILL TO:	Ms. Heidi Woelfel GZA GeoEnvironmental, Inc. 17975 West Sarah Lane Suite 150 Brookfield, WI 53045
PHONE:	262-754-2560	P.O. #	
FAX:	262754-9711	PROJECT #	20.0157661.01 MKE Plating
DATE RECEIVED:	06/08/2023	CONTACT:	Jade White
DATE COMPLETED:	06/15/2023		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	IA-1	Passive S.E. RAD130/SKC
02A	IA-2	Passive S.E. RAD130/SKC
03A	IA-3	Passive S.E. RAD130/SKC
04A	IA-4	Passive S.E. RAD130/SKC
05A	IA-5	Passive S.E. RAD130/SKC
06A	OA-1	Passive S.E. RAD130/SKC
07A	IA-6	Passive S.E. RAD130/SKC
08A	IA-7	Passive S.E. RAD130/SKC
09A	IA-8	Passive S.E. RAD130/SKC
10A	IA-9	Passive S.E. RAD130/SKC
11A	Lab Blank	Passive S.E. RAD130/SKC
12A	CCV	Passive S.E. RAD130/SKC
12B	CCV	Passive S.E. RAD130/SKC
13A	LCS	Passive S.E. RAD130/SKC
13AA	LCSD	Passive S.E. RAD130/SKC

CERTIFIED BY: 

 Technical Director

DATE: 06/15/23

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017
 Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.
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 (916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

**LABORATORY NARRATIVE
RAD130 Passive SE by Mod EPA TO-17
GZA GeoEnvironmental, Inc.
Workorder# 2306163**

Ten Radiello 130 (Solvent) samples were received on June 08, 2023. The laboratory analyzed the charcoal sorbent bed of the passive sampler following modified method EPA TO-17. The VOCs were chemically extracted using carbon disulfide and an aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

The reference method used for this procedure is EPA TO-17, which describes the collection of VOCs in ambient air using sorbents and analysis by GC/MS. Because TO-17 describes active sample collection using a pump and thermal desorption as the preparation step, several modifications are required. Modifications to TO-17 are listed in the table below:

<i>Requirement</i>	<i>TO-17</i>	<i>ATL Modifications</i>
Sample Collection	Pump pulls measured air volume through sorbent tube	VOCs in air adsorbed onto sorbent bed passively through diffusion
Sample Preparation	Thermal extraction	Solvent extraction
Sorbent tube conditioning	Condition newly packed tubes prior to use	Charcoal-based sorbent is a single use media and conditioning is conducted by vendor.
Instrumentation	Thermal desorption introduction system	Liquid injection introduction system
Internal Standard	Gas-phase internal standard introduced on the tube or focusing trap during analysis	Liquid-phase internal standard introduced on the tube at the time of extraction
Media and sample storage	<4 deg C, 30 days	Media shelf life is determined by vendor; sample hold-time is 6 months for the RAD130 and WMS. Sample preservation requirements are storage in a cool, solvent-free refrigerator and optional use of ice during shipping.
Internal Standard Recovery	+/-40% of daily CCV area	-50% to +100% of daily CCV area

Receiving Notes

The Chain of Custody contained incorrect method information. EATL proceeded with the analysis as per the original contract or verbal agreement.

Analytical Notes

The uptake rates were corrected based on average field temperatures if provided. In the absence of

field temperatures, the uptake rates determined at 25 deg C were used.

To calculate ug/m³ concentrations in the Lab Blank, a sampling duration of 10055 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

C - Estimated concentration due to calculated sampling rate

CN - See case narrative explanation.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS**

Client Sample ID: IA-1

Lab ID#: 2306163-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.99	3.1	3.1
Hexane	0.10	0.15	0.31	0.47
Ethyl Acetate	0.40	0.52	0.43	0.56
2-Butanone (Methyl Ethyl Ketone)	0.20	0.26	0.73	0.94
Cyclohexane	0.10	0.19	0.11	0.21
Carbon Tetrachloride	0.10	0.15	0.27	0.41
1,2-Dichloroethane	0.10	0.13	0.11	0.14
Heptane	0.10	0.17	0.54	0.94
Trichloroethene	0.10	0.15	3.0	4.5
Toluene	0.10	0.14	1.5	2.0
Tetrachloroethene	0.10	0.17	0.15	0.26
Ethyl Benzene	0.10	0.15	0.13	0.19
m,p-Xylene	0.10	0.14	0.39	0.57
o-Xylene	0.10	0.16	0.12	0.18

Client Sample ID: IA-2

Lab ID#: 2306163-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	1.0	3.3	3.3
Hexane	0.10	0.15	0.27	0.41
2-Butanone (Methyl Ethyl Ketone)	0.20	0.26	0.65	0.83
Carbon Tetrachloride	0.10	0.15	0.24	0.37
Heptane	0.10	0.18	0.47	0.82
Trichloroethene	0.10	0.15	2.7	4.0
Toluene	0.10	0.14	1.3	1.8
Tetrachloroethene	0.10	0.17	0.13	0.22
Ethyl Benzene	0.10	0.15	0.11	0.17
m,p-Xylene	0.10	0.14	0.35	0.51
o-Xylene	0.10	0.16	0.10	0.16

**Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS**

Client Sample ID: IA-3

Lab ID#: 2306163-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	1.0	2.7	2.7
Hexane	0.10	0.15	0.12	0.19
2-Butanone (Methyl Ethyl Ketone)	0.20	0.26	0.45	0.57
Carbon Tetrachloride	0.10	0.15	0.17	0.25
Heptane	0.10	0.18	0.16	0.29
Trichloroethene	0.10	0.15	3.3	4.9
Toluene	0.10	0.14	0.71	0.97
m,p-Xylene	0.10	0.14	0.18	0.25

Client Sample ID: IA-4

Lab ID#: 2306163-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	1.0	3.5	3.5
Hexane	0.10	0.15	0.21	0.32
Ethyl Acetate	0.40	0.52	0.42	0.55
2-Butanone (Methyl Ethyl Ketone)	0.20	0.26	0.58	0.75
Carbon Tetrachloride	0.10	0.15	0.20	0.31
Heptane	0.10	0.18	0.21	0.36
Trichloroethene	0.10	0.15	1.4	2.1
Toluene	0.10	0.14	1.4	1.9
m,p-Xylene	0.10	0.14	0.21	0.30

Client Sample ID: IA-5

Lab ID#: 2306163-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	1.0	4.3	4.3
Hexane	0.10	0.15	0.17	0.26
2-Butanone (Methyl Ethyl Ketone)	0.20	0.26	0.55	0.70
Carbon Tetrachloride	0.10	0.15	0.21	0.32
Heptane	0.10	0.18	0.17	0.29
Trichloroethene	0.10	0.15	1.6	2.4

Summary of Detected Compounds VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: IA-5

Lab ID#: 2306163-05A

Toluene	0.10	0.14	1.1	1.6
m,p-Xylene	0.10	0.14	0.21	0.30

Client Sample ID: OA-1

Lab ID#: 2306163-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.16	0.17	0.27
2-Butanone (Methyl Ethyl Ketone)	0.20	0.26	0.30	0.39
Carbon Tetrachloride	0.10	0.15	0.23	0.36
Benzene	0.40	0.52	0.52	0.67
Heptane	0.10	0.18	0.14	0.25
Trichloroethene	0.10	0.15	47	71
Toluene	0.10	0.14	0.59	0.83
Tetrachloroethene	0.10	0.18	0.10	0.18
m,p-Xylene	0.10	0.15	0.26	0.39
1,4-Dichlorobenzene	0.10	0.20	0.18	0.36

Client Sample ID: IA-6

Lab ID#: 2306163-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	1.0	3.0	2.9
Hexane	0.10	0.15	0.14	0.22
2-Butanone (Methyl Ethyl Ketone)	0.20	0.26	0.44	0.56
Carbon Tetrachloride	0.10	0.15	0.27	0.41
Heptane	0.10	0.18	0.14	0.24
Trichloroethene	0.10	0.15	2.2	3.3
Toluene	0.10	0.14	1.5	2.1
m,p-Xylene	0.10	0.14	0.18	0.26

Client Sample ID: IA-7

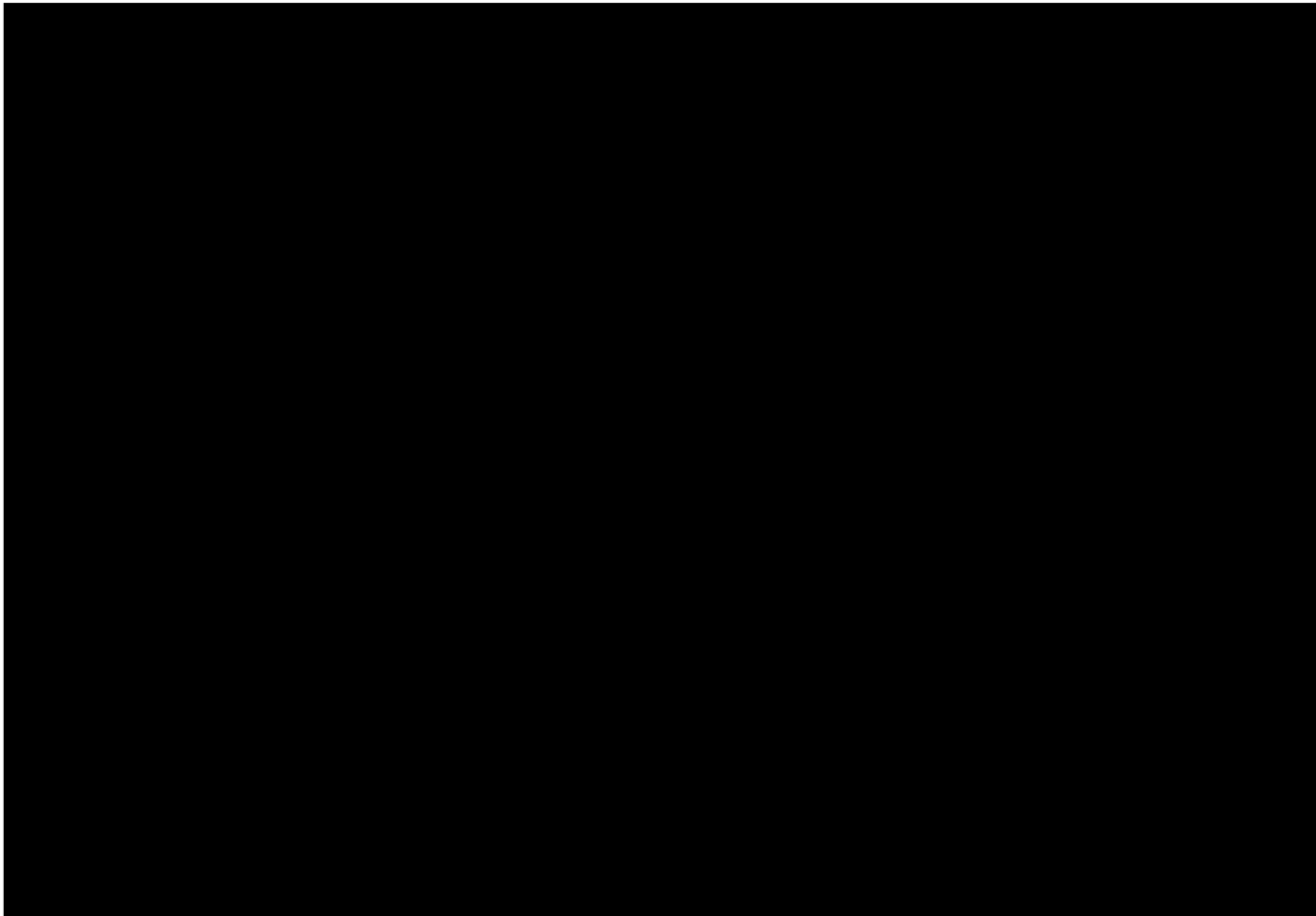
Lab ID#: 2306163-08A

**Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS**

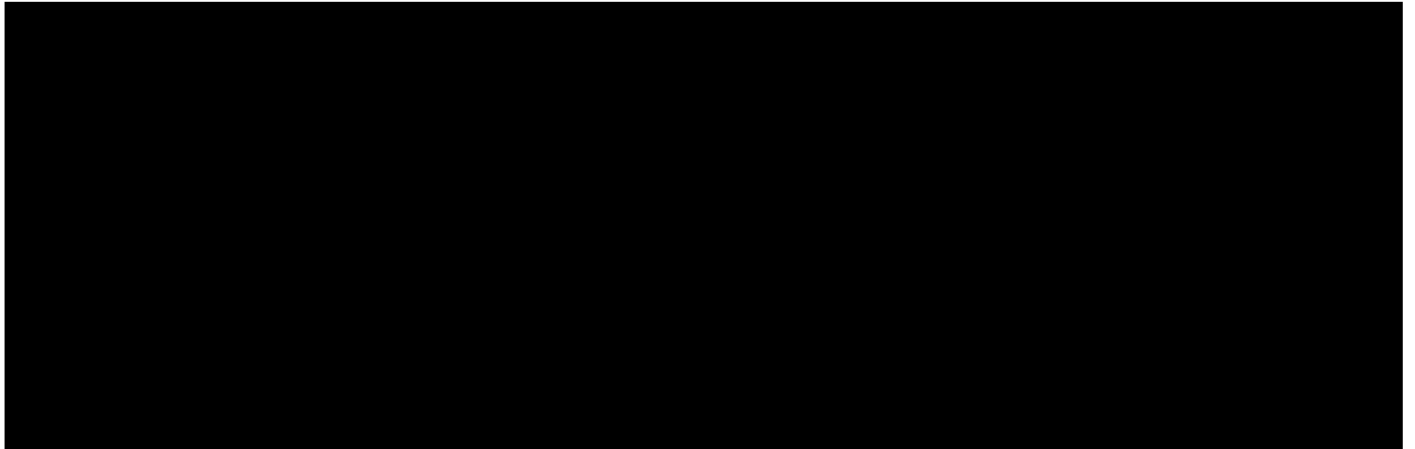
Client Sample ID: IA-7

Lab ID#: 2306163-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	1.0	3.1	3.1
Hexane	0.10	0.15	0.14	0.21
2-Butanone (Methyl Ethyl Ketone)	0.20	0.26	0.43	0.56
Carbon Tetrachloride	0.10	0.15	0.23	0.35
Heptane	0.10	0.18	0.14	0.24
Trichloroethene	0.10	0.15	2.1	3.1
Toluene	0.10	0.14	1.0	1.4
m,p-Xylene	0.10	0.14	0.17	0.25



**Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS**



Client Sample ID: IA-1

Lab ID#: 2306163-01A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18061213sim	Date of Collection:	6/6/23 9:02:00 AM
Dil. Factor:	1.00	Date of Analysis:	6/12/23 12:01 PM
		Date of Extraction:	6/12/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.99	3.1	3.1
Methyl tert-butyl ether	0.10	0.16	Not Detected	Not Detected
Hexane	0.10	0.15	0.31	0.47
Ethyl Acetate	0.40	0.52	0.43	0.56
2-Butanone (Methyl Ethyl Ketone)	0.20	0.26	0.73	0.94
Chloroform	0.10	0.14	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.19	0.11	0.21
Carbon Tetrachloride	0.10	0.15	0.27	0.41
Benzene	0.40	0.51	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	0.11	0.14
Heptane	0.10	0.17	0.54	0.94
Trichloroethene	0.10	0.15	3.0	4.5
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.14	1.5	2.0
Tetrachloroethene	0.10	0.17	0.15	0.26
Chlorobenzene	0.10	0.15	Not Detected	Not Detected
Ethyl Benzene	0.10	0.15	0.13	0.19
m,p-Xylene	0.10	0.14	0.39	0.57
o-Xylene	0.10	0.16	0.12	0.18
Styrene	0.10	0.17	Not Detected	Not Detected
Propylbenzene	0.10	0.18	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.20	Not Detected	Not Detected
Naphthalene	0.10	0.40	Not Detected	Not Detected

Temperature = 70.0F , duration time = 10055 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130

Client Sample ID: IA-2

Lab ID#: 2306163-02A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18061214sim	Date of Collection:	6/6/23 9:06:00 AM
Dil. Factor:	1.00	Date of Analysis:	6/12/23 12:28 PM
		Date of Extraction:	6/12/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	1.0	3.3	3.3
Methyl tert-butyl ether	0.10	0.16	Not Detected	Not Detected
Hexane	0.10	0.15	0.27	0.41
Ethyl Acetate	0.40	0.52	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.26	0.65	0.83
Chloroform	0.10	0.14	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.19	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.15	0.24	0.37
Benzene	0.40	0.51	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.18	0.47	0.82
Trichloroethene	0.10	0.15	2.7	4.0
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.14	1.3	1.8
Tetrachloroethene	0.10	0.17	0.13	0.22
Chlorobenzene	0.10	0.15	Not Detected	Not Detected
Ethyl Benzene	0.10	0.15	0.11	0.17
m,p-Xylene	0.10	0.14	0.35	0.51
o-Xylene	0.10	0.16	0.10	0.16
Styrene	0.10	0.17	Not Detected	Not Detected
Propylbenzene	0.10	0.18	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.20	Not Detected	Not Detected
Naphthalene	0.10	0.41	Not Detected	Not Detected

Temperature = 70.0F , duration time = 10053 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130

Client Sample ID: IA-3

Lab ID#: 2306163-03A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18061215sim	Date of Collection: 6/6/23 9:09:00 AM
Dil. Factor:	1.00	Date of Analysis: 6/12/23 12:55 PM
		Date of Extraction: 6/12/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	1.0	2.7	2.7
Methyl tert-butyl ether	0.10	0.16	Not Detected	Not Detected
Hexane	0.10	0.15	0.12	0.19
Ethyl Acetate	0.40	0.52	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.26	0.45	0.57
Chloroform	0.10	0.14	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.19	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.15	0.17	0.25
Benzene	0.40	0.51	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.18	0.16	0.29
Trichloroethene	0.10	0.15	3.3	4.9
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.14	0.71	0.97
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
Chlorobenzene	0.10	0.15	Not Detected	Not Detected
Ethyl Benzene	0.10	0.15	Not Detected	Not Detected
m,p-Xylene	0.10	0.14	0.18	0.25
o-Xylene	0.10	0.16	Not Detected	Not Detected
Styrene	0.10	0.17	Not Detected	Not Detected
Propylbenzene	0.10	0.18	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.20	Not Detected	Not Detected
Naphthalene	0.10	0.41	Not Detected	Not Detected

Temperature = 70.0F , duration time = 10048 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	86	70-130

Client Sample ID: IA-4

Lab ID#: 2306163-04A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18061216sim	Date of Collection:	6/6/23 9:13:00 AM
Dil. Factor:	1.00	Date of Analysis:	6/12/23 01:22 PM
		Date of Extraction:	6/12/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	1.0	3.5	3.5
Methyl tert-butyl ether	0.10	0.16	Not Detected	Not Detected
Hexane	0.10	0.15	0.21	0.32
Ethyl Acetate	0.40	0.52	0.42	0.55
2-Butanone (Methyl Ethyl Ketone)	0.20	0.26	0.58	0.75
Chloroform	0.10	0.14	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.19	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.15	0.20	0.31
Benzene	0.40	0.51	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.18	0.21	0.36
Trichloroethene	0.10	0.15	1.4	2.1
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.14	1.4	1.9
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
Chlorobenzene	0.10	0.15	Not Detected	Not Detected
Ethyl Benzene	0.10	0.15	Not Detected	Not Detected
m,p-Xylene	0.10	0.14	0.21	0.30
o-Xylene	0.10	0.16	Not Detected	Not Detected
Styrene	0.10	0.17	Not Detected	Not Detected
Propylbenzene	0.10	0.18	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.20	Not Detected	Not Detected
Naphthalene	0.10	0.41	Not Detected	Not Detected

Temperature = 70.0F , duration time = 10047 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	89	70-130

Client Sample ID: IA-5

Lab ID#: 2306163-05A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18061217sim	Date of Collection: 6/6/23 9:16:00 AM
Dil. Factor:	1.00	Date of Analysis: 6/12/23 01:50 PM
		Date of Extraction: 6/12/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	1.0	4.3	4.3
Methyl tert-butyl ether	0.10	0.16	Not Detected	Not Detected
Hexane	0.10	0.15	0.17	0.26
Ethyl Acetate	0.40	0.52	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.26	0.55	0.70
Chloroform	0.10	0.14	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.19	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.15	0.21	0.32
Benzene	0.40	0.51	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.18	0.17	0.29
Trichloroethene	0.10	0.15	1.6	2.4
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.14	1.1	1.6
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
Chlorobenzene	0.10	0.15	Not Detected	Not Detected
Ethyl Benzene	0.10	0.15	Not Detected	Not Detected
m,p-Xylene	0.10	0.14	0.21	0.30
o-Xylene	0.10	0.16	Not Detected	Not Detected
Styrene	0.10	0.17	Not Detected	Not Detected
Propylbenzene	0.10	0.18	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.20	Not Detected	Not Detected
Naphthalene	0.10	0.41	Not Detected	Not Detected

Temperature = 70.0F , duration time = 10043 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130

Client Sample ID: OA-1

Lab ID#: 2306163-06A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18061218sim	Date of Collection: 6/6/23 9:18:00 AM
Dil. Factor:	1.00	Date of Analysis: 6/12/23 02:17 PM
		Date of Extraction: 6/12/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	1.0	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.16	Not Detected	Not Detected
Hexane	0.10	0.16	0.17	0.27
Ethyl Acetate	0.40	0.53	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.26	0.30	0.39
Chloroform	0.10	0.14	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.17	Not Detected	Not Detected
Cyclohexane	0.10	0.19	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.15	0.23	0.36
Benzene	0.40	0.52	0.52	0.67
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.18	0.14	0.25
Trichloroethene	0.10	0.15	47	71
4-Methyl-2-pentanone	0.20	0.31	Not Detected	Not Detected
Toluene	0.10	0.14	0.59	0.83
Tetrachloroethene	0.10	0.18	0.10	0.18
Chlorobenzene	0.10	0.15	Not Detected	Not Detected
Ethyl Benzene	0.10	0.15	Not Detected	Not Detected
m,p-Xylene	0.10	0.15	0.26	0.39
o-Xylene	0.10	0.16	Not Detected	Not Detected
Styrene	0.10	0.17	Not Detected	Not Detected
Propylbenzene	0.10	0.18	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.20	0.18	0.36
Naphthalene	0.10	0.41	Not Detected	Not Detected

Temperature = 64.0F , duration time = 10023 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130

Client Sample ID: IA-6

Lab ID#: 2306163-07A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18061219sim	Date of Collection:	6/6/23 9:22:00 AM
Dil. Factor:	1.00	Date of Analysis:	6/12/23 02:44 PM
		Date of Extraction:	6/12/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	1.0	3.0	2.9
Methyl tert-butyl ether	0.10	0.16	Not Detected	Not Detected
Hexane	0.10	0.15	0.14	0.22
Ethyl Acetate	0.40	0.52	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.26	0.44	0.56
Chloroform	0.10	0.14	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.19	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.15	0.27	0.41
Benzene	0.40	0.51	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.18	0.14	0.24
Trichloroethene	0.10	0.15	2.2	3.3
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.14	1.5	2.1
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
Chlorobenzene	0.10	0.15	Not Detected	Not Detected
Ethyl Benzene	0.10	0.15	Not Detected	Not Detected
m,p-Xylene	0.10	0.14	0.18	0.26
o-Xylene	0.10	0.16	Not Detected	Not Detected
Styrene	0.10	0.17	Not Detected	Not Detected
Propylbenzene	0.10	0.18	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.20	Not Detected	Not Detected
Naphthalene	0.10	0.41	Not Detected	Not Detected

Temperature = 70.0F , duration time = 10043 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130

Client Sample ID: IA-7

Lab ID#: 2306163-08A

VOCS BY PASSIVE SAMPLER - GC/MS

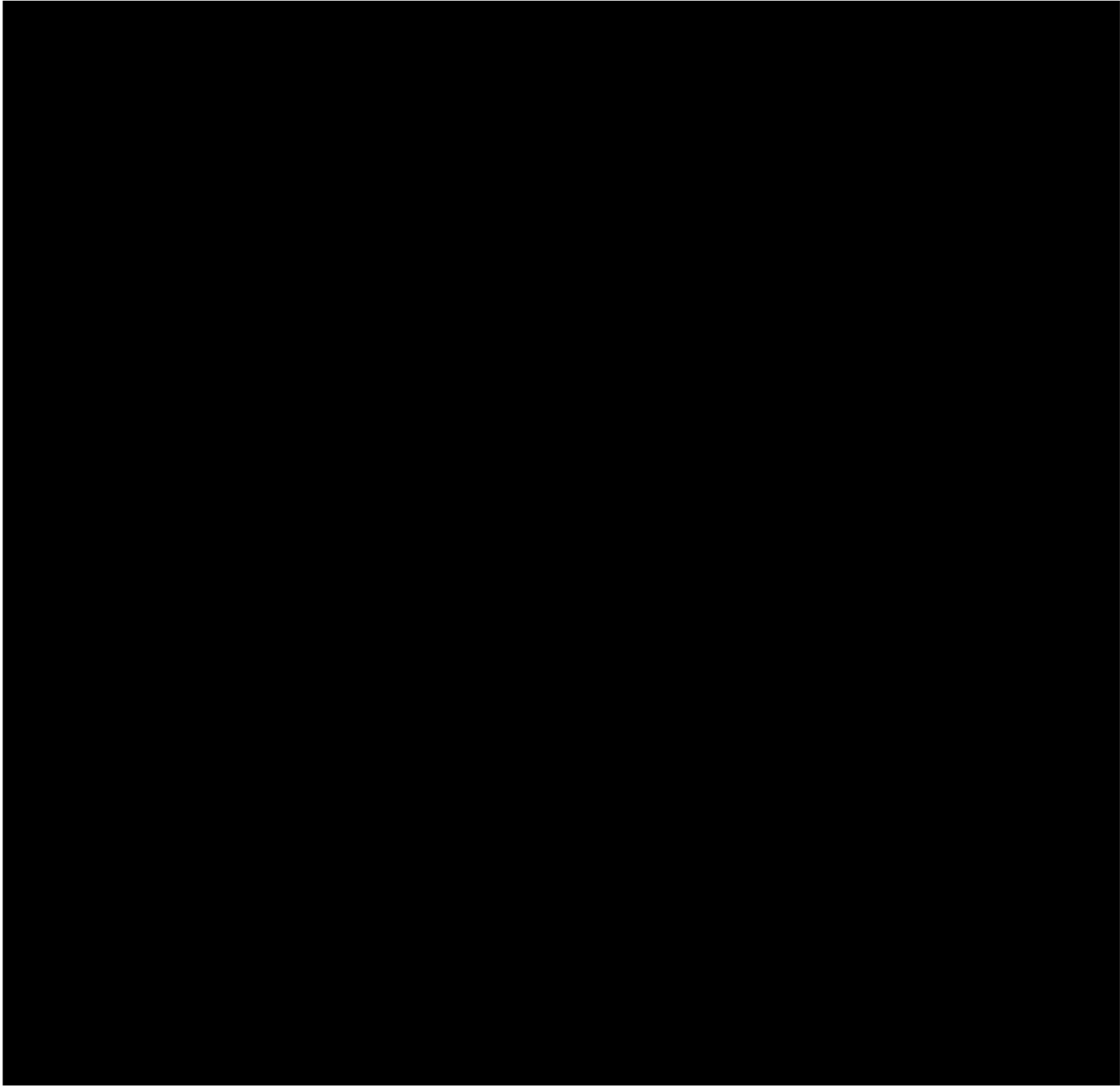
File Name:	18061220sim	Date of Collection:	6/6/23 9:24:00 AM
Dil. Factor:	1.00	Date of Analysis:	6/12/23 03:12 PM
		Date of Extraction:	6/12/23

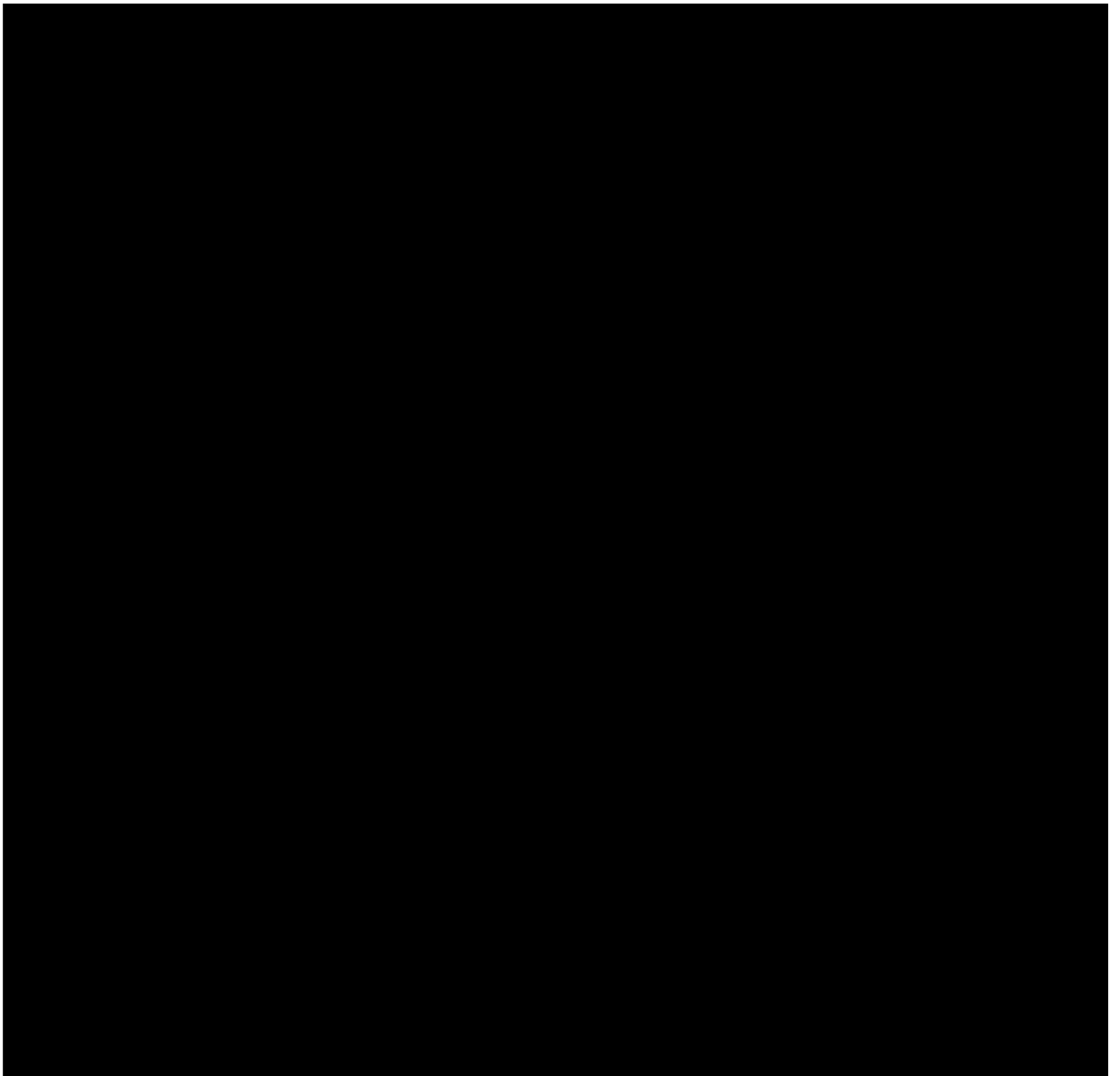
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	1.0	3.1	3.1
Methyl tert-butyl ether	0.10	0.16	Not Detected	Not Detected
Hexane	0.10	0.15	0.14	0.21
Ethyl Acetate	0.40	0.52	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.26	0.43	0.56
Chloroform	0.10	0.14	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.19	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.15	0.23	0.35
Benzene	0.40	0.51	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.18	0.14	0.24
Trichloroethene	0.10	0.15	2.1	3.1
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.14	1.0	1.4
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
Chlorobenzene	0.10	0.15	Not Detected	Not Detected
Ethyl Benzene	0.10	0.15	Not Detected	Not Detected
m,p-Xylene	0.10	0.14	0.17	0.25
o-Xylene	0.10	0.16	Not Detected	Not Detected
Styrene	0.10	0.17	Not Detected	Not Detected
Propylbenzene	0.10	0.18	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.20	Not Detected	Not Detected
Naphthalene	0.10	0.41	Not Detected	Not Detected

Temperature = 70.0F , duration time = 10041 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130





Client Sample ID: Lab Blank

Lab ID#: 2306163-11A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18061206sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	6/12/23 08:54 AM
		Date of Extraction:	6/12/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.99	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.16	Not Detected	Not Detected
Hexane	0.10	0.15	Not Detected	Not Detected
Ethyl Acetate	0.40	0.52	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.26	Not Detected	Not Detected
Chloroform	0.10	0.14	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.19	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.15	Not Detected	Not Detected
Benzene	0.40	0.51	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.17	Not Detected	Not Detected
Trichloroethene	0.10	0.15	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.14	Not Detected	Not Detected
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
Chlorobenzene	0.10	0.15	Not Detected	Not Detected
Ethyl Benzene	0.10	0.15	Not Detected	Not Detected
m,p-Xylene	0.10	0.14	Not Detected	Not Detected
o-Xylene	0.10	0.16	Not Detected	Not Detected
Styrene	0.10	0.17	Not Detected	Not Detected
Propylbenzene	0.10	0.18	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.20	Not Detected	Not Detected
Naphthalene	0.10	0.40	Not Detected	Not Detected

Temperature = 70.0F , duration time = 10055 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	90	70-130

Client Sample ID: CCV

Lab ID#: 2306163-12A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18061202sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	6/12/23 07:03 AM
		Date of Extraction:	NA

Compound	%Recovery
Ethanol	124
Methyl tert-butyl ether	107
Hexane	93
Ethyl Acetate	108
2-Butanone (Methyl Ethyl Ketone)	103
Chloroform	104
1,1,1-Trichloroethane	107
Cyclohexane	96
Carbon Tetrachloride	111
Benzene	89
1,2-Dichloroethane	106
Heptane	93
Trichloroethene	102
4-Methyl-2-pentanone	102
Toluene	93
Tetrachloroethene	102
Chlorobenzene	103
Ethyl Benzene	101
m,p-Xylene	99
o-Xylene	101
Styrene	100
Propylbenzene	106
1,4-Dichlorobenzene	104
Naphthalene	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 2306163-12B

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18061302sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	6/13/23 06:37 AM
		Date of Extraction:	NA

Compound	%Recovery
Trichloroethene	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

Client Sample ID: LCS

Lab ID#: 2306163-13A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18061204sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/12/23 08:00 AM
		Date of Extraction: 6/12/23

Compound	%Recovery	Method Limits
Ethanol	58	50-130
Methyl tert-butyl ether	97	70-130
Hexane	90	70-130
Ethyl Acetate	98	70-130
2-Butanone (Methyl Ethyl Ketone)	88	70-130
Chloroform	98	70-130
1,1,1-Trichloroethane	99	70-130
Cyclohexane	91	70-130
Carbon Tetrachloride	102	70-130
Benzene	81	70-130
1,2-Dichloroethane	94	70-130
Heptane	89	70-130
Trichloroethene	95	70-130
4-Methyl-2-pentanone	91	70-130
Toluene	84	70-130
Tetrachloroethene	92	70-130
Chlorobenzene	88	70-130
Ethyl Benzene	92	70-130
m,p-Xylene	88	70-130
o-Xylene	87	70-130
Styrene	64	20-100
Propylbenzene	92	70-130
1,4-Dichlorobenzene	80	50-110
Naphthalene	22	5-80

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130

Client Sample ID: LCSD

Lab ID#: 2306163-13AA

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18061205sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/12/23 08:27 AM
		Date of Extraction: 6/12/23

Compound	%Recovery	Method Limits
Ethanol	61	50-130
Methyl tert-butyl ether	99	70-130
Hexane	91	70-130
Ethyl Acetate	102	70-130
2-Butanone (Methyl Ethyl Ketone)	92	70-130
Chloroform	101	70-130
1,1,1-Trichloroethane	100	70-130
Cyclohexane	92	70-130
Carbon Tetrachloride	104	70-130
Benzene	83	70-130
1,2-Dichloroethane	96	70-130
Heptane	90	70-130
Trichloroethene	95	70-130
4-Methyl-2-pentanone	90	70-130
Toluene	84	70-130
Tetrachloroethene	92	70-130
Chlorobenzene	85	70-130
Ethyl Benzene	89	70-130
m,p-Xylene	85	70-130
o-Xylene	83	70-130
Styrene	62	20-100
Propylbenzene	87	70-130
1,4-Dichlorobenzene	76	50-110
Naphthalene	20	5-80

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	87	70-130