

## ANALYTICAL REPORT

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Laboratory Job ID: 200-58808-1

Client Project/Site: Whitefish Bay, Glendale, WI 193707230

**For:**

Stantec Consulting Corp.  
12075 Corporate Pkwy, Suite 200  
Mequon, Wisconsin 53092

Attn: Erin Gross



Authorized for release by:  
6/10/2021 8:58:37 AM

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	5
Client Sample Results . . . . .	7
QC Sample Results . . . . .	14
QC Association Summary . . . . .	16
Lab Chronicle . . . . .	17
Certification Summary . . . . .	19
Method Summary . . . . .	20
Sample Summary . . . . .	21
Chain of Custody . . . . .	22
Receipt Checklists . . . . .	24
Clean Canister Certification . . . . .	25
Pre-Ship Certification . . . . .	25
Clean Canister Data . . . . .	28
Air Canister Dilution . . . . .	55

# Definitions/Glossary

Client: Stantec Consulting Corp.  
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

## Qualifiers

### Air - GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: Stantec Consulting Corp.  
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

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## Job ID: 200-58808-1

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Laboratory: Eurofins TestAmerica, Burlington

### Narrative

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#### Job Narrative 200-58808-1

### Comments

No additional comments.

### Receipt

The samples were received on 6/8/2021 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

### Receipt Exceptions

During the canister pressure check performed upon receipt, the following sample was found to be received at ambient pressure: Sample 6. The associated flow controller was evaluated and was found to be within the acceptable flow range as compared to the original set flow rate.

### Air Toxics

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

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- 2
- 3
- 4
- 5
- 6
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- 13
- 14
- 15
- 16

# Detection Summary

Client: Stantec Consulting Corp.  
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

## Client Sample ID: OUT

## Lab Sample ID: 200-58808-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	46	E	0.20	0.027	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.025	J	0.20	0.024	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene - DL	49		0.40	0.054	ppb v/v	2		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	310	E	1.4	0.18	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.14	J	1.1	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene - DL	330		2.7	0.37	ug/m3	2		TO-15	Total/NA

## Client Sample ID: 429-A

## Lab Sample ID: 200-58808-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	4.9		0.20	0.027	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	34		1.4	0.18	ug/m3	1		TO-15	Total/NA

## Client Sample ID: 407-A

## Lab Sample ID: 200-58808-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	10		0.20	0.027	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	71		1.4	0.18	ug/m3	1		TO-15	Total/NA

## Client Sample ID: 429-S

## Lab Sample ID: 200-58808-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	420	E	1.2	0.16	ppb v/v	6		TO-15	Total/NA
Trichloroethene	0.20	J	1.2	0.14	ppb v/v	6		TO-15	Total/NA
Tetrachloroethene - DL	450		6.1	0.82	ppb v/v	30.4		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2800	E	8.1	1.1	ug/m3	6		TO-15	Total/NA
Trichloroethene	1.1	J	6.4	0.77	ug/m3	6		TO-15	Total/NA
Tetrachloroethene - DL	3100		41	5.6	ug/m3	30.4		TO-15	Total/NA

## Client Sample ID: 407-S

## Lab Sample ID: 200-58808-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	10		0.20	0.027	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	69		1.4	0.18	ug/m3	1		TO-15	Total/NA

## Client Sample ID: 5575-A

## Lab Sample ID: 200-58808-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.48		0.20	0.027	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3.3		1.4	0.18	ug/m3	1		TO-15	Total/NA

## Client Sample ID: 5575-S

## Lab Sample ID: 200-58808-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.7		0.20	0.027	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Burlington

# Detection Summary

Client: Stantec Consulting Corp.  
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

**Client Sample ID: 5575-S (Continued)**

**Lab Sample ID: 200-58808-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	11		1.4	0.18	ug/m3	1		TO-15	Total/NA

- 1
- 2
- 3
- 4
- 5
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- 11
- 12
- 13
- 14
- 15
- 16

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Burlington

# Client Sample Results

Client: Stantec Consulting Corp.  
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

**Client Sample ID: OUT**

**Lab Sample ID: 200-58808-1**

**Date Collected: 06/03/21 16:23**

**Matrix: Air**

**Date Received: 06/08/21 10:45**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			06/08/21 20:27	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			06/08/21 20:27	1
<b>Tetrachloroethene</b>	<b>46</b>	<b>E</b>	0.20	0.027	ppb v/v			06/08/21 20:27	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			06/08/21 20:27	1
<b>Trichloroethene</b>	<b>0.025</b>	<b>J</b>	0.20	0.024	ppb v/v			06/08/21 20:27	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			06/08/21 20:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			06/08/21 20:27	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			06/08/21 20:27	1
<b>Tetrachloroethene</b>	<b>310</b>	<b>E</b>	1.4	0.18	ug/m3			06/08/21 20:27	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			06/08/21 20:27	1
<b>Trichloroethene</b>	<b>0.14</b>	<b>J</b>	1.1	0.13	ug/m3			06/08/21 20:27	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			06/08/21 20:27	1

**Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.078		0.40	0.078	ppb v/v			06/09/21 21:36	2
cis-1,2-Dichloroethene	<0.066		0.40	0.066	ppb v/v			06/09/21 21:36	2
<b>Tetrachloroethene</b>	<b>49</b>		0.40	0.054	ppb v/v			06/09/21 21:36	2
trans-1,2-Dichloroethene	<0.18		0.40	0.18	ppb v/v			06/09/21 21:36	2
Trichloroethene	<0.048		0.40	0.048	ppb v/v			06/09/21 21:36	2
Vinyl chloride	<0.056		0.40	0.056	ppb v/v			06/09/21 21:36	2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.43		2.2	0.43	ug/m3			06/09/21 21:36	2
cis-1,2-Dichloroethene	<0.26		1.6	0.26	ug/m3			06/09/21 21:36	2
<b>Tetrachloroethene</b>	<b>330</b>		2.7	0.37	ug/m3			06/09/21 21:36	2
trans-1,2-Dichloroethene	<0.70		1.6	0.70	ug/m3			06/09/21 21:36	2
Trichloroethene	<0.26		2.1	0.26	ug/m3			06/09/21 21:36	2
Vinyl chloride	<0.14		1.0	0.14	ug/m3			06/09/21 21:36	2

# Client Sample Results

Client: Stantec Consulting Corp.  
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

**Client Sample ID: 429-A**

**Lab Sample ID: 200-58808-2**

**Date Collected: 06/03/21 16:25**

**Matrix: Air**

**Date Received: 06/08/21 10:45**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			06/08/21 21:26	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			06/08/21 21:26	1
<b>Tetrachloroethene</b>	<b>4.9</b>		0.20	0.027	ppb v/v			06/08/21 21:26	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			06/08/21 21:26	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			06/08/21 21:26	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			06/08/21 21:26	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			06/08/21 21:26	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			06/08/21 21:26	1
<b>Tetrachloroethene</b>	<b>34</b>		1.4	0.18	ug/m3			06/08/21 21:26	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			06/08/21 21:26	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			06/08/21 21:26	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			06/08/21 21:26	1



# Client Sample Results

Client: Stantec Consulting Corp.  
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

**Client Sample ID: 407-A**

**Lab Sample ID: 200-58808-3**

**Date Collected: 06/03/21 16:31**

**Matrix: Air**

**Date Received: 06/08/21 10:45**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			06/08/21 22:25	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			06/08/21 22:25	1
<b>Tetrachloroethene</b>	<b>10</b>		0.20	0.027	ppb v/v			06/08/21 22:25	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			06/08/21 22:25	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			06/08/21 22:25	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			06/08/21 22:25	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			06/08/21 22:25	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			06/08/21 22:25	1
<b>Tetrachloroethene</b>	<b>71</b>		1.4	0.18	ug/m3			06/08/21 22:25	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			06/08/21 22:25	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			06/08/21 22:25	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			06/08/21 22:25	1

# Client Sample Results

Client: Stantec Consulting Corp.  
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

**Client Sample ID: 429-S**

**Lab Sample ID: 200-58808-4**

Date Collected: 06/03/21 10:38

Matrix: Air

Date Received: 06/08/21 10:45

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.23		1.2	0.23	ppb v/v			06/09/21 22:29	6
cis-1,2-Dichloroethene	<0.20		1.2	0.20	ppb v/v			06/09/21 22:29	6
<b>Tetrachloroethene</b>	<b>420</b>	<b>E</b>	1.2	0.16	ppb v/v			06/09/21 22:29	6
trans-1,2-Dichloroethene	<0.53		1.2	0.53	ppb v/v			06/09/21 22:29	6
<b>Trichloroethene</b>	<b>0.20</b>	<b>J</b>	1.2	0.14	ppb v/v			06/09/21 22:29	6
Vinyl chloride	<0.17		1.2	0.17	ppb v/v			06/09/21 22:29	6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.3		6.5	1.3	ug/m3			06/09/21 22:29	6
cis-1,2-Dichloroethene	<0.79		4.8	0.79	ug/m3			06/09/21 22:29	6
<b>Tetrachloroethene</b>	<b>2800</b>	<b>E</b>	8.1	1.1	ug/m3			06/09/21 22:29	6
trans-1,2-Dichloroethene	<2.1		4.8	2.1	ug/m3			06/09/21 22:29	6
<b>Trichloroethene</b>	<b>1.1</b>	<b>J</b>	6.4	0.77	ug/m3			06/09/21 22:29	6
Vinyl chloride	<0.43		3.1	0.43	ug/m3			06/09/21 22:29	6

**Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.2		6.1	1.2	ppb v/v			06/09/21 23:23	30.4
cis-1,2-Dichloroethene	<1.0		6.1	1.0	ppb v/v			06/09/21 23:23	30.4
<b>Tetrachloroethene</b>	<b>450</b>		6.1	0.82	ppb v/v			06/09/21 23:23	30.4
trans-1,2-Dichloroethene	<2.7		6.1	2.7	ppb v/v			06/09/21 23:23	30.4
Trichloroethene	<0.73		6.1	0.73	ppb v/v			06/09/21 23:23	30.4
Vinyl chloride	<0.85		6.1	0.85	ppb v/v			06/09/21 23:23	30.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.5		33	6.5	ug/m3			06/09/21 23:23	30.4
cis-1,2-Dichloroethene	<4.0		24	4.0	ug/m3			06/09/21 23:23	30.4
<b>Tetrachloroethene</b>	<b>3100</b>		41	5.6	ug/m3			06/09/21 23:23	30.4
trans-1,2-Dichloroethene	<11		24	11	ug/m3			06/09/21 23:23	30.4
Trichloroethene	<3.9		33	3.9	ug/m3			06/09/21 23:23	30.4
Vinyl chloride	<2.2		16	2.2	ug/m3			06/09/21 23:23	30.4

# Client Sample Results

Client: Stantec Consulting Corp.  
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

**Client Sample ID: 407-S**

**Lab Sample ID: 200-58808-5**

**Date Collected: 06/03/21 11:50**

**Matrix: Air**

**Date Received: 06/08/21 10:45**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			06/10/21 00:16	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			06/10/21 00:16	1
<b>Tetrachloroethene</b>	<b>10</b>		0.20	0.027	ppb v/v			06/10/21 00:16	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			06/10/21 00:16	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			06/10/21 00:16	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			06/10/21 00:16	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			06/10/21 00:16	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			06/10/21 00:16	1
<b>Tetrachloroethene</b>	<b>69</b>		1.4	0.18	ug/m3			06/10/21 00:16	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			06/10/21 00:16	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			06/10/21 00:16	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			06/10/21 00:16	1

# Client Sample Results

Client: Stantec Consulting Corp.  
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

**Client Sample ID: 5575-A**

**Lab Sample ID: 200-58808-6**

**Date Collected: 06/04/21 11:52**

**Matrix: Air**

**Date Received: 06/08/21 10:45**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			06/10/21 01:09	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			06/10/21 01:09	1
<b>Tetrachloroethene</b>	<b>0.48</b>		0.20	0.027	ppb v/v			06/10/21 01:09	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			06/10/21 01:09	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			06/10/21 01:09	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			06/10/21 01:09	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			06/10/21 01:09	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			06/10/21 01:09	1
<b>Tetrachloroethene</b>	<b>3.3</b>		1.4	0.18	ug/m3			06/10/21 01:09	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			06/10/21 01:09	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			06/10/21 01:09	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			06/10/21 01:09	1

# Client Sample Results

Client: Stantec Consulting Corp.  
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

**Client Sample ID: 5575-S**

**Lab Sample ID: 200-58808-7**

**Date Collected: 06/03/21 13:00**

**Matrix: Air**

**Date Received: 06/08/21 10:45**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			06/10/21 02:02	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			06/10/21 02:02	1
<b>Tetrachloroethene</b>	<b>1.7</b>		0.20	0.027	ppb v/v			06/10/21 02:02	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			06/10/21 02:02	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			06/10/21 02:02	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			06/10/21 02:02	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			06/10/21 02:02	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			06/10/21 02:02	1
<b>Tetrachloroethene</b>	<b>11</b>		1.4	0.18	ug/m3			06/10/21 02:02	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			06/10/21 02:02	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			06/10/21 02:02	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			06/10/21 02:02	1

# QC Sample Results

Client: Stantec Consulting Corp.  
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Lab Sample ID: MB 200-167671/4**  
**Matrix: Air**  
**Analysis Batch: 167671**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			06/08/21 09:48	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			06/08/21 09:48	1
Tetrachloroethene	<0.027		0.20	0.027	ppb v/v			06/08/21 09:48	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			06/08/21 09:48	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			06/08/21 09:48	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			06/08/21 09:48	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			06/08/21 09:48	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			06/08/21 09:48	1
Tetrachloroethene	<0.18		1.4	0.18	ug/m3			06/08/21 09:48	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			06/08/21 09:48	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			06/08/21 09:48	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			06/08/21 09:48	1

**Lab Sample ID: LCS 200-167671/3**  
**Matrix: Air**  
**Analysis Batch: 167671**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.3	8.72		ppb v/v		85	72 - 127
cis-1,2-Dichloroethene	10.4	7.91		ppb v/v		76	72 - 121
Tetrachloroethene	10.5	8.67		ppb v/v		83	70 - 125
trans-1,2-Dichloroethene	10.3	9.29		ppb v/v		90	69 - 137
Trichloroethene	10.3	8.45		ppb v/v		82	73 - 122
Vinyl chloride	9.99	9.89		ppb v/v		99	61 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	56	47.6		ug/m3		85	72 - 127
cis-1,2-Dichloroethene	41	31.4		ug/m3		76	72 - 121
Tetrachloroethene	71	58.8		ug/m3		83	70 - 125
trans-1,2-Dichloroethene	41	36.8		ug/m3		90	69 - 137
Trichloroethene	55	45.4		ug/m3		82	73 - 122
Vinyl chloride	26	25.3		ug/m3		99	61 - 135

**Lab Sample ID: MB 200-167733/4**  
**Matrix: Air**  
**Analysis Batch: 167733**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			06/09/21 10:06	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			06/09/21 10:06	1
Tetrachloroethene	<0.027		0.20	0.027	ppb v/v			06/09/21 10:06	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			06/09/21 10:06	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			06/09/21 10:06	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			06/09/21 10:06	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			06/09/21 10:06	1

Eurofins TestAmerica, Burlington

# QC Sample Results

Client: Stantec Consulting Corp.  
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-167733/4**  
**Matrix: Air**  
**Analysis Batch: 167733**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			06/09/21 10:06	1
Tetrachloroethene	<0.18		1.4	0.18	ug/m3			06/09/21 10:06	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			06/09/21 10:06	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			06/09/21 10:06	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			06/09/21 10:06	1

**Lab Sample ID: LCS 200-167733/3**  
**Matrix: Air**  
**Analysis Batch: 167733**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.3	9.91		ppb v/v		96	72 - 127
cis-1,2-Dichloroethene	10.4	9.47		ppb v/v		91	72 - 121
Tetrachloroethene	10.5	9.51		ppb v/v		91	70 - 125
trans-1,2-Dichloroethene	10.3	9.24		ppb v/v		89	69 - 137
Trichloroethene	10.3	9.59		ppb v/v		93	73 - 122
Vinyl chloride	9.99	9.38		ppb v/v		94	61 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	56	54.1		ug/m3		96	72 - 127
cis-1,2-Dichloroethene	41	37.5		ug/m3		91	72 - 121
Tetrachloroethene	71	64.5		ug/m3		91	70 - 125
trans-1,2-Dichloroethene	41	36.6		ug/m3		89	69 - 137
Trichloroethene	55	51.5		ug/m3		93	73 - 122
Vinyl chloride	26	24.0		ug/m3		94	61 - 135

# QC Association Summary

Client: Stantec Consulting Corp.  
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

## Air - GC/MS VOA

### Analysis Batch: 167671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-58808-1	OUT	Total/NA	Air	TO-15	
200-58808-2	429-A	Total/NA	Air	TO-15	
200-58808-3	407-A	Total/NA	Air	TO-15	
MB 200-167671/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-167671/3	Lab Control Sample	Total/NA	Air	TO-15	

### Analysis Batch: 167733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-58808-1 - DL	OUT	Total/NA	Air	TO-15	
200-58808-4	429-S	Total/NA	Air	TO-15	
200-58808-4 - DL	429-S	Total/NA	Air	TO-15	
200-58808-5	407-S	Total/NA	Air	TO-15	
200-58808-6	5575-A	Total/NA	Air	TO-15	
200-58808-7	5575-S	Total/NA	Air	TO-15	
MB 200-167733/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-167733/3	Lab Control Sample	Total/NA	Air	TO-15	



# Lab Chronicle

Client: Stantec Consulting Corp.  
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

## Client Sample ID: OUT

Date Collected: 06/03/21 16:23

Date Received: 06/08/21 10:45

Lab Sample ID: 200-58808-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	167671	06/08/21 20:27	A1B	TAL BUR
Total/NA	Analysis	TO-15	DL	2	167733	06/09/21 21:36	A1B	TAL BUR

## Client Sample ID: 429-A

Date Collected: 06/03/21 16:25

Date Received: 06/08/21 10:45

Lab Sample ID: 200-58808-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	167671	06/08/21 21:26	A1B	TAL BUR

## Client Sample ID: 407-A

Date Collected: 06/03/21 16:31

Date Received: 06/08/21 10:45

Lab Sample ID: 200-58808-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	167671	06/08/21 22:25	A1B	TAL BUR

## Client Sample ID: 429-S

Date Collected: 06/03/21 10:38

Date Received: 06/08/21 10:45

Lab Sample ID: 200-58808-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		6	167733	06/09/21 22:29	A1B	TAL BUR
Total/NA	Analysis	TO-15	DL	30.4	167733	06/09/21 23:23	A1B	TAL BUR

## Client Sample ID: 407-S

Date Collected: 06/03/21 11:50

Date Received: 06/08/21 10:45

Lab Sample ID: 200-58808-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	167733	06/10/21 00:16	A1B	TAL BUR

## Client Sample ID: 5575-A

Date Collected: 06/04/21 11:52

Date Received: 06/08/21 10:45

Lab Sample ID: 200-58808-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	167733	06/10/21 01:09	A1B	TAL BUR

## Client Sample ID: 5575-S

Date Collected: 06/03/21 13:00

Date Received: 06/08/21 10:45

Lab Sample ID: 200-58808-7

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	167733	06/10/21 02:02	A1B	TAL BUR

Eurofins TestAmerica, Burlington

# Lab Chronicle

Client: Stantec Consulting Corp.  
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

**Laboratory References:**

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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# Accreditation/Certification Summary

Client: Stantec Consulting Corp.  
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

## Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-22
Florida	NELAP	E87467	06-30-21
Minnesota	NELAP	050-999-436	12-31-21
New Hampshire	NELAP	2006	12-18-21
New Jersey	NELAP	VT972	06-30-21
New York	NELAP	10391	04-01-22
Pennsylvania	NELAP	68-00489	04-30-22
Rhode Island	State	LAO00298	12-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-22
Virginia	NELAP	460209	12-14-21
Wisconsin	State	399133350	08-31-21

# Method Summary

Client: Stantec Consulting Corp.  
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990



# Sample Summary

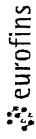
Client: Stantec Consulting Corp.  
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-58808-1	OUT	Air	06/03/21 16:23	06/08/21 10:45	Air Canister (6-Liter) #4133
200-58808-2	429-A	Air	06/03/21 16:25	06/08/21 10:45	Air Canister (6-Liter) #4141
200-58808-3	407-A	Air	06/03/21 16:31	06/08/21 10:45	Air Canister (6-Liter) #5398
200-58808-4	429-S	Air	06/03/21 10:38	06/08/21 10:45	Air Canister (6-Liter) #4817
200-58808-5	407-S	Air	06/03/21 11:50	06/08/21 10:45	Air Canister (6-Liter) #3038
200-58808-6	5575-A	Air	06/04/21 11:52	06/08/21 10:45	Air Canister (6-Liter) #8132
200-58808-7	5575-S	Air	06/03/21 13:00	06/08/21 10:45	Air Canister (6-Liter) #6006


# Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.



Environment Testing  
 America

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information		Client Project Manager:		Samples Collected By:		COC No:																			
Company Name: <u>Stentel</u>		Phone: <u>608 628 6278</u>		ENB		1 of COCs																			
Address: <u>2075 Cornbelt Parkway #200</u>		Email:		TALS Project #:		For Lab Use Only:																			
City/State/Zip: <u>Mequon WI 53072</u>		Site Contact: <u>Erica Gross</u>		Walk-in Client:		Lab Sampling:																			
Phone: <u>608 628 6278</u>		Fax: <u>608 628 6278</u>		Standard (Specify):		Job / SDG No.:																			
Project Name: <u>Whitfish Bay</u>		Analysis Turnaround Time: <u>X</u>		Rush (Specify):		(See below for Add'l Items)																			
Site/Location: <u>Glendale, WI</u>		Time Start		Sample End Date		Time Stop																			
P.O # <u>193707230</u>		Rush (Specify):		Sample End Date		Time Stop																			
Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum In Field, "Hg (Start)	Canister Vacuum In Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)			
OVT	6/13/21	8:27	6/13/21	16:23	-30	-6	5244	4133	X								X								
429 - A	6/13/21	8:38	6/13/21	16:25	-29	-8	6559	4141	X								X								
407 - A	6/13/21	8:44	6/13/21	10:31	-28	-7	4503	5398	X								X								
429 - S	6/13/21	10:10	6/13/21	10:38	-25	-3	6128	4817	X								X								
407 - S	6/13/21	11:27	6/13/21	11:50	-15	-2	7318	3038	X								X								
5575 - A	6/13/21	12:07	6/14/21	11:52	-30	-2	3122	8132	X								X								
5575 - S	6/13/21	12:25	6/13/21	13:00	-30	-5	4605	6006	X								X								
 200-56808 Chain of Custody		Start Stop		Interior		Temperature (Fahrenheit)		70°F																	
		Start Stop		Interior		Pressure (inches of Hg)		29.88		29.83															
Special Instructions/QC Requirements & Comments:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:	
Samples Shipped by: <u>Fed-Ex</u>		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:	
Samples Relinquished by: <u>Erica Gross</u>		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:	
Relinquished by: <u>Erica Gross</u>		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:		Date / Time:	
Lab Use Only:		Shipper Name:		Shipper Name:		Shipper Name:		Shipper Name:		Shipper Name:		Shipper Name:		Shipper Name:		Shipper Name:		Shipper Name:		Shipper Name:		Shipper Name:		Shipper Name:	



THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: JOTA (708) 534-5200  
SAMPLE LOGIN  
TESTAMERICA LABS  
2417 BOND ST

SHIP DATE: 07 JUN 21  
ACTWT: 25.00 LB MAN  
CAD: 033264/CAFE3504

UNIVERSITY PARK, IL 60484  
UNITED STATES US

BILL SENDER

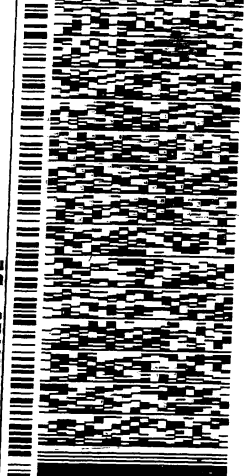
TO **SAMPLE RECEIPT**

**TESTAMERICA BURLINGTON  
530 COMMUNITY DRIVE  
SUITE 11**

**SOUTH BURLINGTON VT 05403**

(802) 660-1990

REF: STANTEC DE



FedEx Express



2 of 2

MPS# 1893 4452 1717

Mstr# 1893 4452 1706

**TUE - 08 JUN 10:30A  
PRIORITY OVERNIGHT**

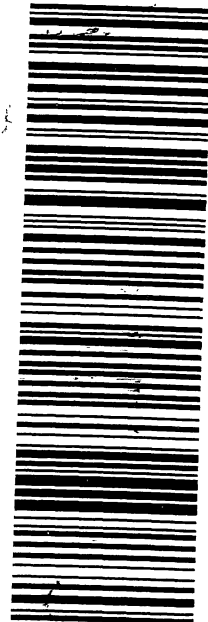
0201

**NL BTVA**

05403

VT-US

BTV



THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: JOTA (708) 534-5200  
SAMPLE LOGIN  
TESTAMERICA LABS  
2417 BOND ST

SHIP DATE: 07 JUN 21  
ACTWT: 33.00 LB MAN  
CAD: 033264/CAFE3504

UNIVERSITY PARK, IL 60484  
UNITED STATES US

BILL SENDER

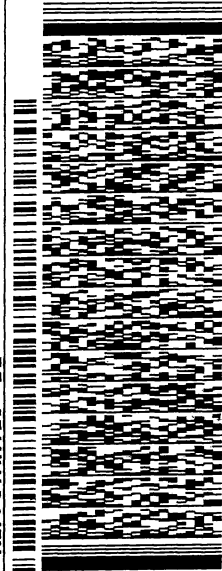
TO **SAMPLE RECEIPT**

**TESTAMERICA BURLINGTON  
530 COMMUNITY DRIVE  
SUITE 11**

**SOUTH BURLINGTON VT 05403**

(802) 660-1990

REF: STANTEC DE



FedEx Express



1 of 2

TRK# 1893 4452 1706

## MASTER ##

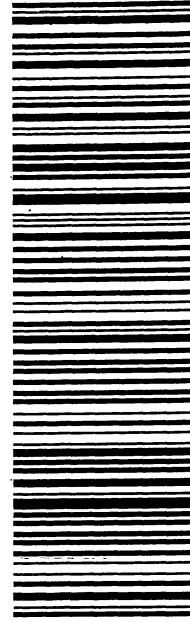
**TUE - 08 JUN 10:30A  
PRIORITY OVERNIGHT**

**NL BTVA**

05403

VT-US

BTV



56DC3/387/5F4D

J211020121101

56DC3/387/5F4D

J211020121101



## Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 200-58808-1

**Login Number: 58808**

**List Source: Eurofins TestAmerica, Burlington**

**List Number: 1**

**Creator: Lavigne, Scott M**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1451890,891,892,893
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Pre-shipment Clean Canister Certification Report

## Canister Cleaning & Pre-shipment Leak Test

System ID		Max DF#	# Cycles	Cleaning Start Date/Time	System Start Temp(s)	Technician	Can Size	Certification Type:							
Top Rack		10	25	4/22/2021	22	SML	6 liter	batch							
Port	Can ID	Initial (psia)	Final (psia)	Diff. <sup>3</sup>	Final ("Hg)	Initial Reading			Final Reading						
						Gauge:	Date:	Time:	Tech:	Temp:	Gauge:	Date:	Time:	Tech:	Temp:
1	5057	103	103	0	29.7	G26	4/23/21	1504	S	22.0	G26	5/22/21	1825	S	21.0
2	3658	103	103	0		G26					G26				
3	4817	103	103	0		G26					G26				
4	2819	103	103	0		G26					G26				
5	4076	103	103	0		G26					G26				
6	3038	103	103	0		G26					G26				
7	5694	103	103	0		G26					G26				
8	9204	115	115	0	1.12	G26					G26				
9	5903	103	103	0	29.5	G26	5/22/21	1200	S	21.0	G26	5/23/21	1327	S	21.0
10	5704	103	103	0	29.7	G26	4/23/21	5	S	22.0	G26	5/22/21	1125	S	21.0
11	4112	103	103	0		G26					G26				
12	8118	103	103	0		G26					G26				

Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.  
 3 Difference = Final Pressure - Initial Pressure. Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.  
 If time frame was not met, the PM must authorize shipment of canister

PM Authorization  
 Clean Canister Certification Analysis & Authorization of Release to Inventory  
 Date:

Test Method:	TO15 Routine	TO15 LL
Can ID	5903	
Date	4/27/21	
Sequence	45697	
Analyst	ABJ	
Inventory Level	2	3
Limited	XXXXXX	
Secondary Review		
Review Date	4/27/21	
Review	ABJ	

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).  
 Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).  
 Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).  
 Inventory Level Limited: Canisters may only be used for certain projects.  
 Dup Tees/Vac gauges (enter IDs if included):  
 Comments:

200-58163-A-9  
 5903  
 Location: Air-Storage  
 Bottle: Summa Canister 6L  
 Sampled: 4/22/2021 12:00 AM 200-1487370

Loc: 200  
**58163**  
**#9 A**  
**Air-Storage**



# Pre-shipment Clean Canister Certification Report

## Canister Cleaning & Pre-shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time	System Start Temp(s)	Technician	Can Size	Certification Type:
Top Rack	10	50	4/23/2021	22	SML	6 liter	batch
Port	Can ID	Initial <sup>1</sup> (psia)	Final (psia)	Diff. <sup>3</sup>	Final (°Hg)	Initial Reading	Final Reading
						Date:	Date:
						Gauge:	Gauge:
						Temp:	Temp:
						Tech:	Tech:
						Time:	Time:
						Temp:	Temp:
1	4158	103	29.7	0	29.7	G26	G26
2	6150	103		0		G26	G26
3	5118	103		0		G26	G26
4	5436	103		0		G26	G26
5	5425	103		0		G26	G26
6	5136	103		0		G26	G26
7	4331	103		0		G26	G26
8	4148	103		0		G26	G26
9	4133	103		0		G26	G26
10	5463	103	29.5	0	29.5	G26	G26
11	3539	103	29.7	0	29.7	G26	G26
12	6006	103		0		G26	G26

<sup>1</sup> Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

<sup>3</sup> Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister

PM Authorization Date: \_\_\_\_\_

Clean Canister Certification Analysis & Authorization of Release to Inventory

Can ID	Date	Sequence	Analyst	Inventory Level			Secondary Review
				1	2	3	
5463	4/28/21	45726	ABJ	XXXXXX	4	Limited	Review 4/28/21

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

\_\_\_\_\_

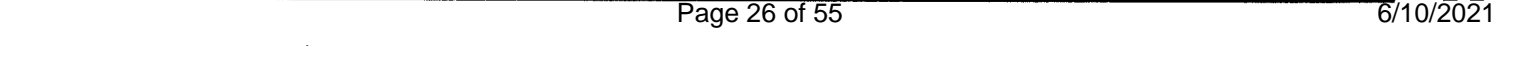
\_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# Pre-Shipment Clean Canister Certification Report

## Canister Cleaning & Pre-Shipment Leak Test

System ID		Max DF#	# Cycles	Cleaning Start Date/Time	System Start Temp(s)	Technician	Can Size	Certification Type:							
Bottom Rack		10	50	4/23/2021	22	SML	6 liter	batch							
Port	Can ID	Initial <sup>1</sup> (psia)	Final (psia)	Diff. <sup>3</sup>	Final ("Hg)	Gauge:	Temp:	Initial Reading Time:	Date:	Tech:	Temp:	Final Reading Time:	Date:	Tech:	Temp:
1	4478	103	103	0	29.7	G26	23.0	1441	4/24/21	S	23.0	1319	5/22/21	S	21.0
2	34000111	103	103	0		G26									
3	8132	103	103	0		G26									
4	4141	103	103	0		G26									
5	4925	103	103	0		G26									
6	9214	103	103	0		G26									
7	9250	103	103	0		G26									
8	34000419	103	103	0		G26									
9	34001446	103	103	0		G26									
10	5094	103	103	0	29.5	G26	21.0	1410	5/22/21	S	21.0	1327	5/22/21	S	21.0
11	9259	103	103	0	29.7	G26	23.0	1447	4/24/21	S	23.0	1319	5/22/21	S	21.0
12	5398	125	122	3		G26									

<sup>1</sup> Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

<sup>3</sup> Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister

PM Authorization Date: \_\_\_\_\_

Clean Canister Certification Analysis & Authorization of Release to Inventory

Can ID	Date	Sequence	Analyst	Inventory Level			Secondary Review Review Date	Revis
				1	2	3		
5094	5/24/21	45723	KYI	XXXXXX	4	4/28/21	TKB	

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).  
 Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).  
 Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).  
 Inventory Level Limited: Canisters may only be used for certain projects.  
 Dup Tees/Vac gauges (enter IDs if included):

Comments:

200-58186-A-10  
 5094  
 Location: Air-Storage  
 Bottle: Summa Canister 6L  
 Sampled: 4/23/2021 12:00 AM 200-1487781

Loc: 200  
**58186**  
**#10 A**  
**Air-Storage**



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58163-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5903 Lab Sample ID: 200-58163-9  
 Matrix: Air Lab File ID: 45697-13.D  
 Analysis Method: TO-15 Date Collected: 04/22/2021 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/26/2021 17:46  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 166151 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

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 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 166151 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

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 Analysis Method: TO-15 Date Collected: 04/22/2021 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/26/2021 17:46  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 166151 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10



Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHC.i\20210426-45697.b\45697-13.D  
 Lims ID: 200-58163-A-9  
 Client ID: 5903  
 Sample Type: Client  
 Inject. Date: 26-Apr-2021 17:46:30 ALS Bottle#: 12 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0045697-013  
 Misc. Info.: 58163-9  
 Operator ID: vtp Instrument ID: CHC.i  
 Method: \\chromfs\Burlington\ChromData\CHC.i\20210426-45697.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 27-Apr-2021 09:18:17 Calib Date: 11-Mar-2021 23:33:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Burlington\ChromData\CHC.i\20210311-45131.b\45131-13.D  
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN  
 Process Host: CTX1632

First Level Reviewer: bunmaa

Date: 27-Apr-2021 09:18:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		2.833				ND	U
2 Dichlorodifluoromethane	85		2.891				ND	
3 Chlorodifluoromethane	51		2.934				ND	7
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.132				ND	
5 Chloromethane	50		3.244				ND	
6 Butane	43		3.431				ND	7
7 Vinyl chloride	62		3.457				ND	
8 Butadiene	54		3.527				ND	
10 Bromomethane	94		4.124				ND	
11 Chloroethane	64		4.343				ND	
13 Vinyl bromide	106		4.711				ND	
14 Trichlorofluoromethane	101		4.829				ND	
17 Ethanol	45		5.443				ND	
20 1,1,2-Trichloro-1,2,2-trifluoro	101		5.885				ND	
21 1,1-Dichloroethene	96		5.891				ND	
22 Acetone	43		6.120				ND	
23 Carbon disulfide	76		6.259				ND	
24 Isopropyl alcohol	45		6.505				ND	
25 3-Chloro-1-propene	41		6.649				ND	
27 Methylene Chloride	49		6.932				ND	
28 2-Methyl-2-propanol	59		7.273				ND	
31 trans-1,2-Dichloroethene	61		7.385				ND	
29 Methyl tert-butyl ether	73		7.412				ND	
33 Hexane	57		7.817				ND	
34 1,1-Dichloroethane	63		8.223				ND	
35 Vinyl acetate	43		8.335				ND	
37 cis-1,2-Dichloroethene	96		9.312				ND	
38 2-Butanone (MEK)	72		9.370				ND	
39 Ethyl acetate	88		9.456				ND	
* 40 Chlorobromomethane	128	9.749	9.755	-0.006	91	251274	20.0	
41 Tetrahydrofuran	42		9.824				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		9.910				ND	
44 1,1,1-Trichloroethane	97		10.182				ND	
43 Cyclohexane	84		10.187				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	7
45 Carbon tetrachloride	117		10.449				ND	
47 Benzene	78		10.876				ND	
46 Isooctane	57		10.924				ND	
48 1,2-Dichloroethane	62		11.025				ND	
49 n-Heptane	43		11.329				ND	
* 50 1,4-Difluorobenzene	114	11.719	11.719	0.000	95	1421268	20.0	
53 Trichloroethene	95		12.194				ND	
54 1,2-Dichloropropane	63		12.695				ND	
55 Methyl methacrylate	69		12.936				ND	
57 Dibromomethane	174		12.946				ND	
56 1,4-Dioxane	88		12.984				ND	
58 Dichlorobromomethane	83		13.277				ND	
60 cis-1,3-Dichloropropene	75		14.238				ND	
61 4-Methyl-2-pentanone (MIBK)	43		14.553				ND	
65 Toluene	92		14.846				ND	
66 trans-1,3-Dichloropropene	75		15.444				ND	
67 1,1,2-Trichloroethane	83		15.807				ND	
68 Tetrachloroethene	166		15.972				ND	
69 2-Hexanone	43		16.303				ND	
71 Chlorodibromomethane	129		16.575				ND	
72 Ethylene Dibromide	107		16.826				ND	
* 74 Chlorobenzene-d5	117	17.760	17.760	0.000	89	1488009	20.0	
75 Chlorobenzene	112		17.819				ND	
76 Ethylbenzene	91		17.995				ND	U
78 m-Xylene & p-Xylene	106		18.251				ND	
79 o-Xylene	106		19.078				ND	
80 Styrene	104		19.132				ND	
81 Bromoform	173		19.543				ND	
82 Isopropylbenzene	105		19.831				ND	
S 73 Xylenes, Total	106		20.100				ND	7
84 1,1,2,2-Tetrachloroethane	83		20.519				ND	
85 N-Propylbenzene	91		20.626				ND	
89 2-Chlorotoluene	91		20.818				ND	
88 4-Ethyltoluene	105		20.834				ND	
90 1,3,5-Trimethylbenzene	105		20.946				ND	
92 tert-Butylbenzene	119		21.469				ND	
93 1,2,4-Trimethylbenzene	105		21.565				ND	
94 sec-Butylbenzene	105		21.816				ND	
95 4-Isopropyltoluene	119		22.030				ND	
96 1,3-Dichlorobenzene	146		22.035				ND	
97 1,4-Dichlorobenzene	146		22.179				ND	
98 Benzyl chloride	91		22.371				ND	7
100 n-Butylbenzene	91		22.617				ND	7
101 1,2-Dichlorobenzene	146		22.702				ND	
103 1,2,4-Trichlorobenzene	180		25.034				ND	
104 Hexachlorobutadiene	225		25.237				ND	
105 Naphthalene	128		25.445				ND	



**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

**Reagents:**

ATTO15CISs\_00010

Amount Added: 40.00

Units: mL

Run Reagent

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHC.i\20210426-45697.b\45697-13.D

Injection Date: 26-Apr-2021 17:46:30

Instrument ID: CHC.i

Operator ID: vtp

Lims ID: 200-58163-A-9

Lab Sample ID: 200-58163-9

Worklist Smp#: 13

Client ID: 5903

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

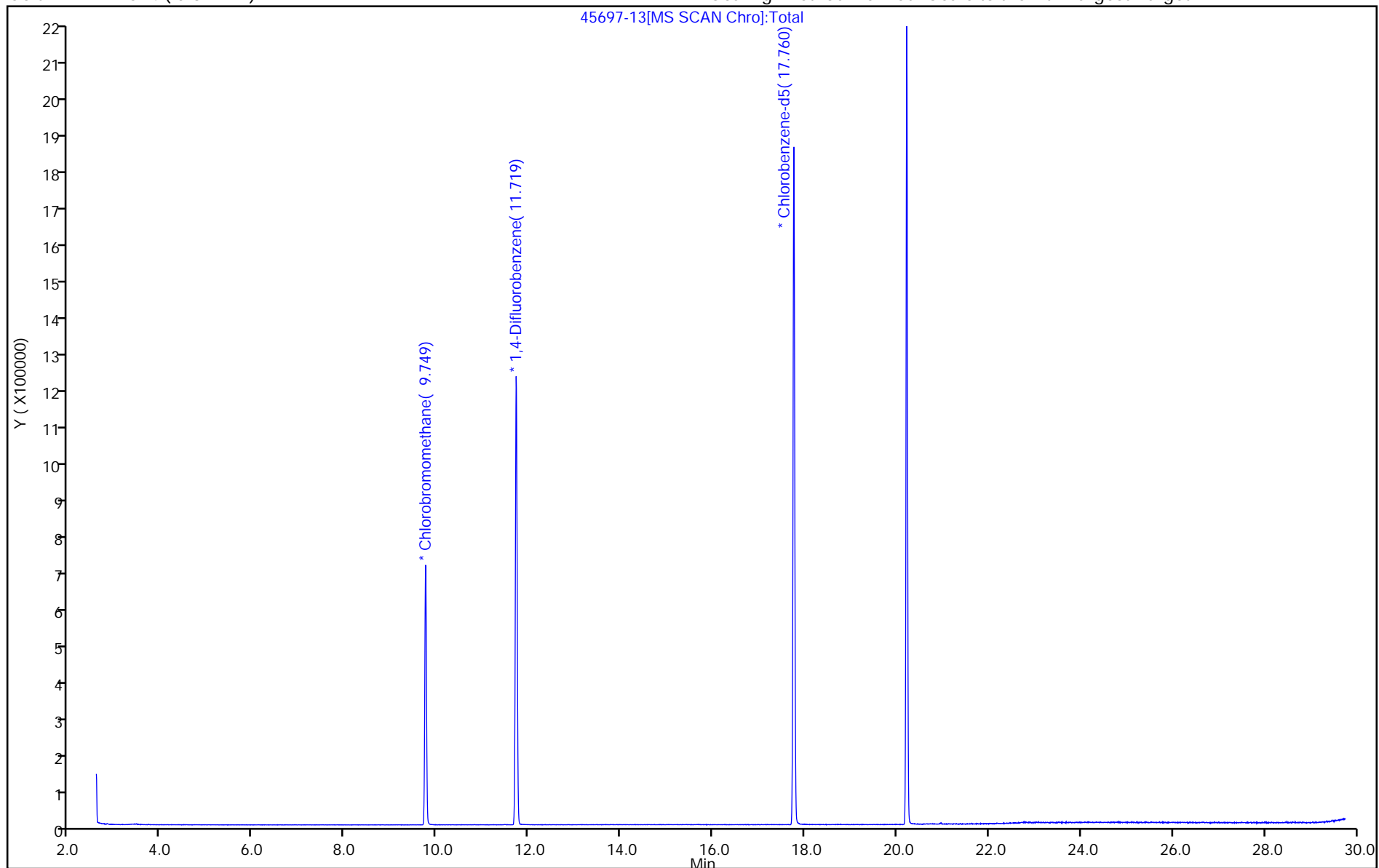
ALS Bottle#: 12

Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

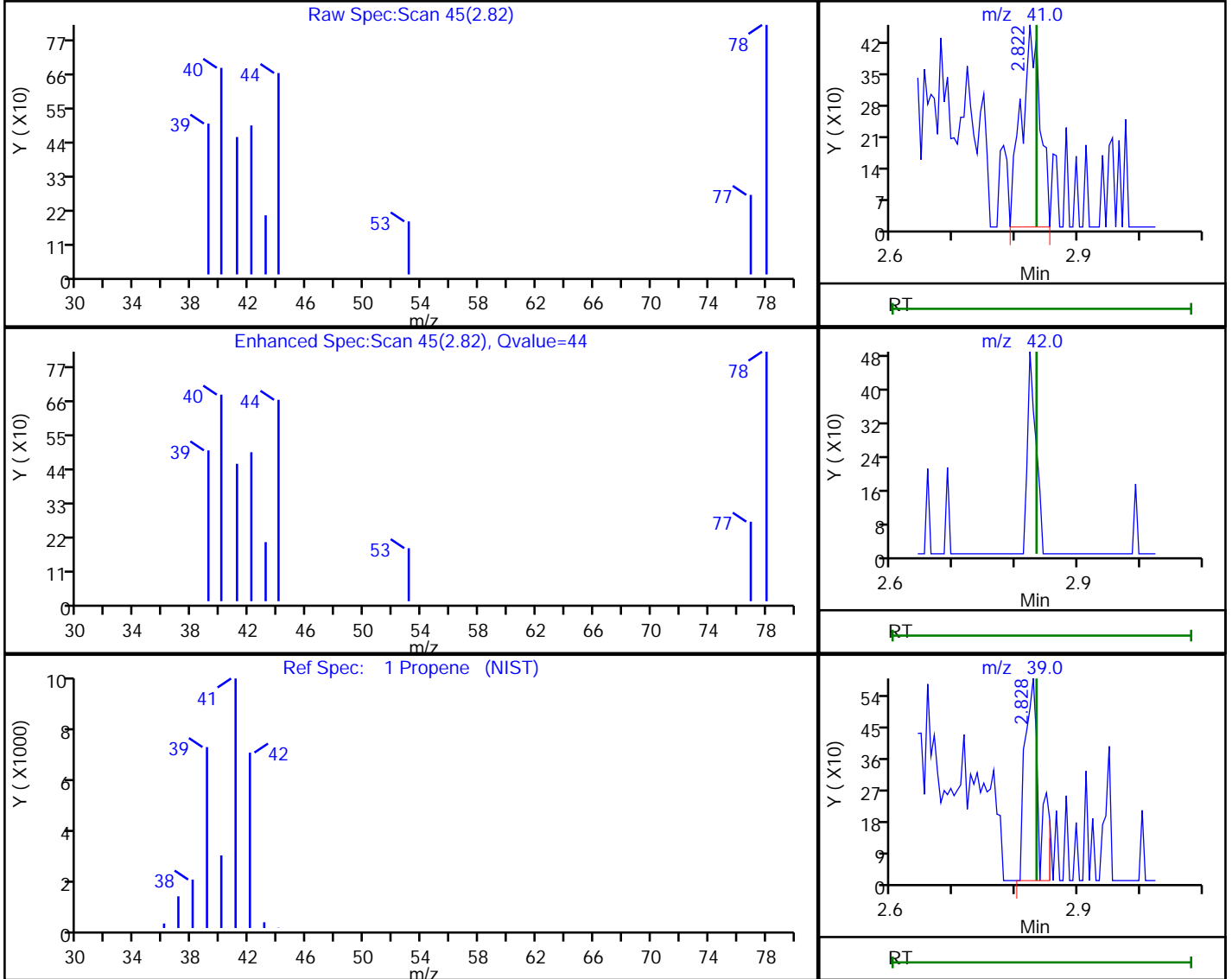


Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHC.i\20210426-45697.b\45697-13.D  
 Injection Date: 26-Apr-2021 17:46:30 Instrument ID: CHC.i  
 Lims ID: 200-58163-A-9 Lab Sample ID: 200-58163-9  
 Client ID: 5903  
 Operator ID: vtp ALS Bottle#: 12 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

1 Propene, CAS: 115-07-1

Processing Results



RT	Mass	Response	Amount
2.82	41.00	951	0.141567
2.83	42.00	0	
2.83	39.00	939	

Reviewer: bunmaa, 27-Apr-2021 09:17:00  
 Audit Action: Marked Compound Undetected

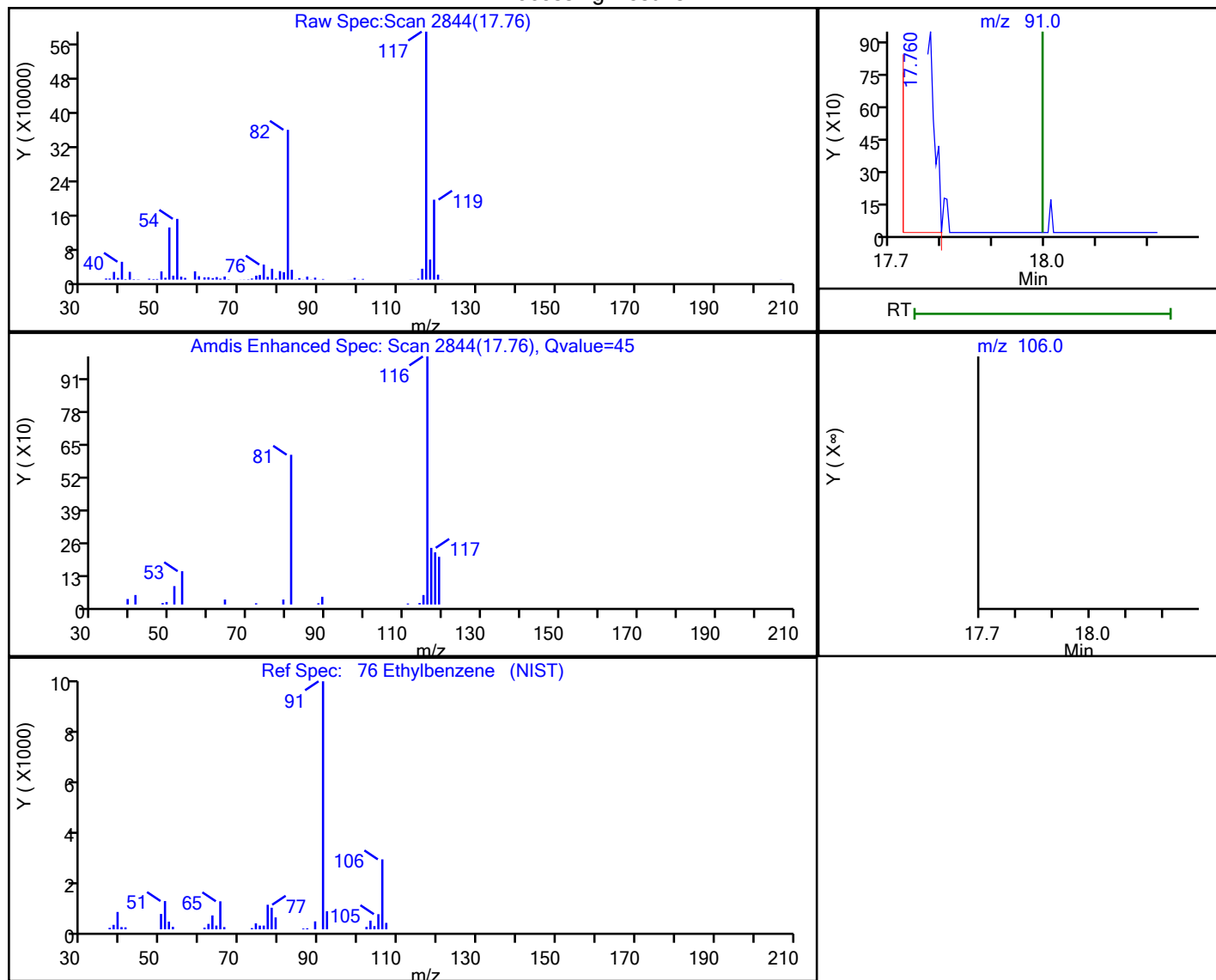
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHC.i\20210426-45697.b\45697-13.D  
 Injection Date: 26-Apr-2021 17:46:30 Instrument ID: CHC.i  
 Lims ID: 200-58163-A-9 Lab Sample ID: 200-58163-9  
 Client ID: 5903  
 Operator ID: vtp ALS Bottle#: 12 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
17.76	91.00	3336	0.032906
17.99	106.00	0	

Reviewer: bunmaa, 27-Apr-2021 09:17:51

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58182-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5463 Lab Sample ID: 200-58182-10  
 Matrix: Air Lab File ID: 45726-005.d  
 Analysis Method: TO-15 Date Collected: 04/23/2021 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/27/2021 14:25  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 166208 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58182-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5463 Lab Sample ID: 200-58182-10  
 Matrix: Air Lab File ID: 45726-005.d  
 Analysis Method: TO-15 Date Collected: 04/23/2021 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/27/2021 14:25  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 166208 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58182-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5463 Lab Sample ID: 200-58182-10  
 Matrix: Air Lab File ID: 45726-005.d  
 Analysis Method: TO-15 Date Collected: 04/23/2021 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/27/2021 14:25  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 166208 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20210427-45726.b\45726-005.d  
 Lims ID: 200-58182-A-10  
 Client ID: 5463  
 Sample Type: Client  
 Inject. Date: 27-Apr-2021 14:25:30 ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0045726-005  
 Operator ID: ggg Instrument ID: CHW.i  
 Method: \\chromfs\Burlington\ChromData\CHW.i\20210427-45726.b\TO15\_TO3\_MasterMethod\_W.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 28-Apr-2021 07:50:35 Calib Date: 27-Apr-2021 01:39:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20210426-45699.b\45699-013.d  
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN  
 Process Host: CTX1666

First Level Reviewer: bunmaa

Date: 28-Apr-2021 07:50:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.126				ND	
2 Dichlorodifluoromethane	85		4.217				ND	
3 Chlorodifluoromethane	51		4.265				ND	
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.592				ND	
5 Chloromethane	50		4.699				ND	
6 Vinyl chloride	62		5.014				ND	
7 Butane	43		5.020				ND	7
8 Butadiene	54		5.137				ND	
9 Bromomethane	94		5.854				ND	
10 Chloroethane	64		6.138				ND	
13 Vinyl bromide	106		6.555				ND	
14 Trichlorofluoromethane	101		6.721				ND	
16 Ethanol	45		7.170				ND	
20 1,1-Dichloroethene	96		7.791				ND	
21 112TCTFE	101		7.839				ND	
22 Acetone	43		7.930				ND	
23 Carbon disulfide	76	8.203	8.197	0.006	97	2845	0.0631	
24 Isopropyl alcohol	45		8.251				ND	
26 3-Chloro-1-propene	41		8.497				ND	
27 Methylene Chloride	49	8.732	8.727	0.005	81	1358	0.0889	
28 2-Methyl-2-propanol	59		9.037				ND	
30 trans-1,2-Dichloroethene	61		9.224				ND	
31 Methyl tert-butyl ether	73		9.278				ND	
32 Hexane	57		9.738				ND	
33 1,1-Dichloroethane	63		9.995				ND	
34 Vinyl acetate	43		10.022				ND	
S 35 1,2-Dichloroethene, Total	61		10.200				ND	7
36 cis-1,2-Dichloroethene	96		10.984				ND	
37 2-Butanone (MEK)	72		10.990				ND	
38 Ethyl acetate	88		11.070				ND	
* 39 Chlorobromomethane	128	11.396	11.396	0.000	81	123910	10.0	
40 Tetrahydrofuran	42		11.477				ND	



Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Chloroform	83		11.578				ND	
42 1,1,1-Trichloroethane	97		11.883				ND	
43 Cyclohexane	84		12.017				ND	
44 Carbon tetrachloride	117		12.161				ND	
45 Benzene	78		12.509				ND	
46 1,2-Dichloroethane	62		12.584				ND	
47 Isooctane	57		12.723				ND	
48 n-Heptane	43		13.033				ND	
* 49 1,4-Difluorobenzene	114	13.242	13.247	-0.005	93	609364	10.0	
51 Trichloroethene	95		13.675				ND	
53 1,2-Dichloropropane	63		14.130				ND	
55 Methyl methacrylate	69		14.232				ND	
56 Dibromomethane	174		14.291				ND	U
57 1,4-Dioxane	88		14.296				ND	
58 Dichlorobromomethane	83		14.601				ND	
60 cis-1,3-Dichloropropene	75		15.403				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.692				ND	
62 Toluene	92		16.045				ND	
64 trans-1,3-Dichloropropene	75		16.457				ND	
65 1,1,2-Trichloroethane	83		16.832				ND	
66 Tetrachloroethene	166		17.035				ND	
67 2-Hexanone	43		17.292				ND	
68 Chlorodibromomethane	129		17.570				ND	
69 Ethylene Dibromide	107		17.811				ND	
* 70 Chlorobenzene-d5	117	18.720	18.720	0.000	84	472177	10.0	
72 Chlorobenzene	112		18.779				ND	7
73 Ethylbenzene	91		18.977				ND	7
74 m-Xylene & p-Xylene	106		19.239				ND	
76 o-Xylene	106		20.009				ND	
77 Styrene	104		20.047				ND	
S 78 Xylenes, Total	106		20.100				ND	7
79 Bromoform	173		20.400				ND	
80 Isopropylbenzene	105		20.716				ND	
81 1,1,1,2-Tetrachloroethane	83		21.235				ND	7
83 N-Propylbenzene	91		21.438				ND	7
84 2-Chlorotoluene	91		21.582				ND	7
85 4-Ethyltoluene	105		21.636				ND	7
86 1,3,5-Trimethylbenzene	105		21.732				ND	7
89 tert-Butylbenzene	119		22.214				ND	
90 1,2,4-Trimethylbenzene	105		22.304				ND	7
91 sec-Butylbenzene	105		22.540				ND	7
92 1,3-Dichlorobenzene	146	22.711	22.711	0.000	84	609	0.0157	
93 4-Isopropyltoluene	119		22.759				ND	7
94 1,4-Dichlorobenzene	146	22.856	22.855	0.001	91	584	0.0164	
95 Benzyl chloride	91		23.000				ND	U
96 n-Butylbenzene	91		23.310				ND	7
97 1,2-Dichlorobenzene	146	23.342	23.342	0.000	91	883	0.0214	
100 1,2,4-Trichlorobenzene	180	25.755	25.760	-0.005	78	401	0.0179	
101 Hexachlorobutadiene	225		26.006				ND	
102 Naphthalene	128		26.236				ND	U

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

**Reagents:**

ATTO15WISs\_00009

Amount Added: 20.00

Units: mL

Run Reagent



Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20210427-45726.b\45726-005.d

Injection Date: 27-Apr-2021 14:25:30

Instrument ID: CHW.i

Operator ID: ggg

Lims ID: 200-58182-A-10

Lab Sample ID: 200-58182-10

Worklist Smp#: 5

Client ID: 5463

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

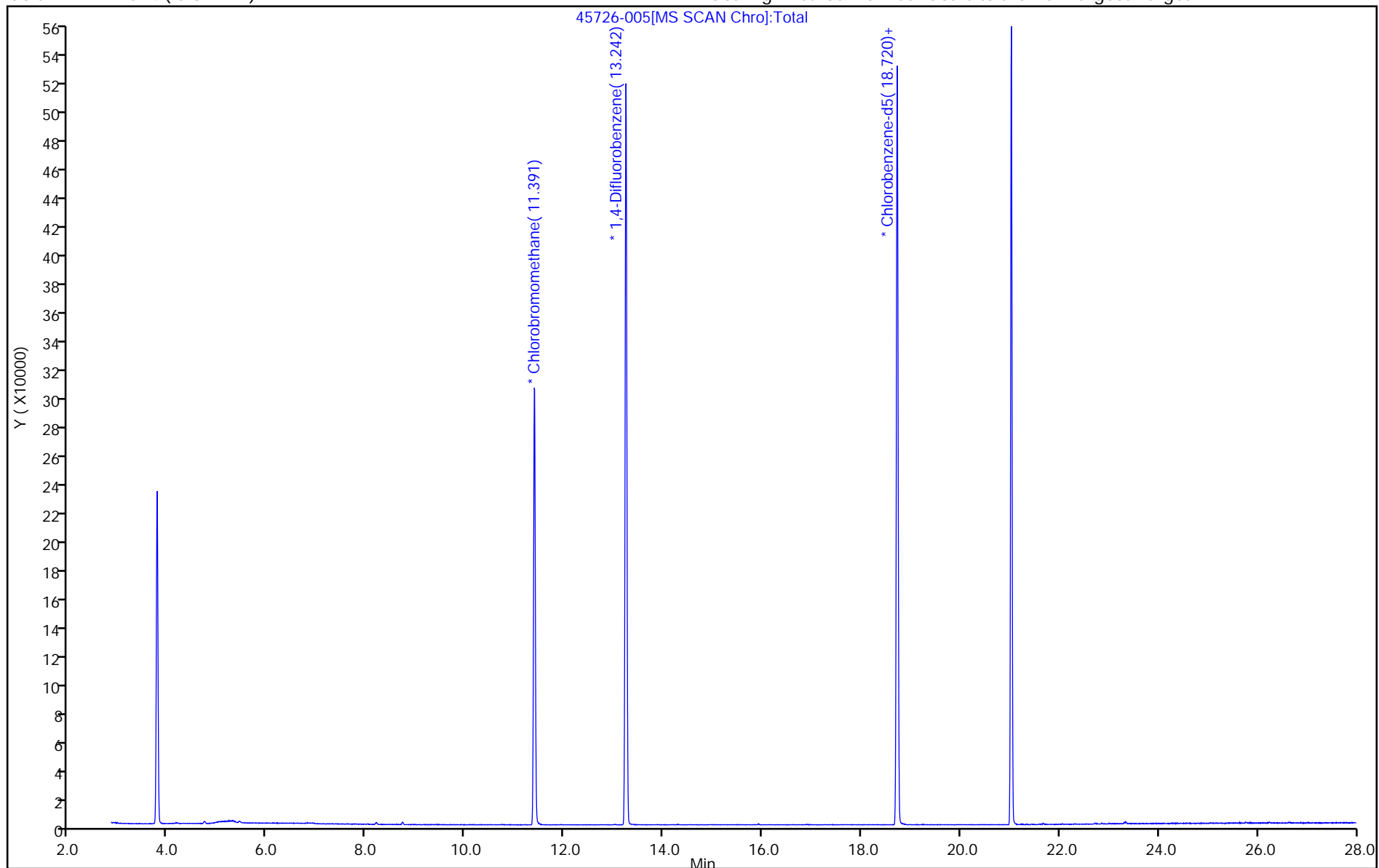
ALS Bottle#: 4

Method: TO15\_TO3\_MasterMethod\_W

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 ( 0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

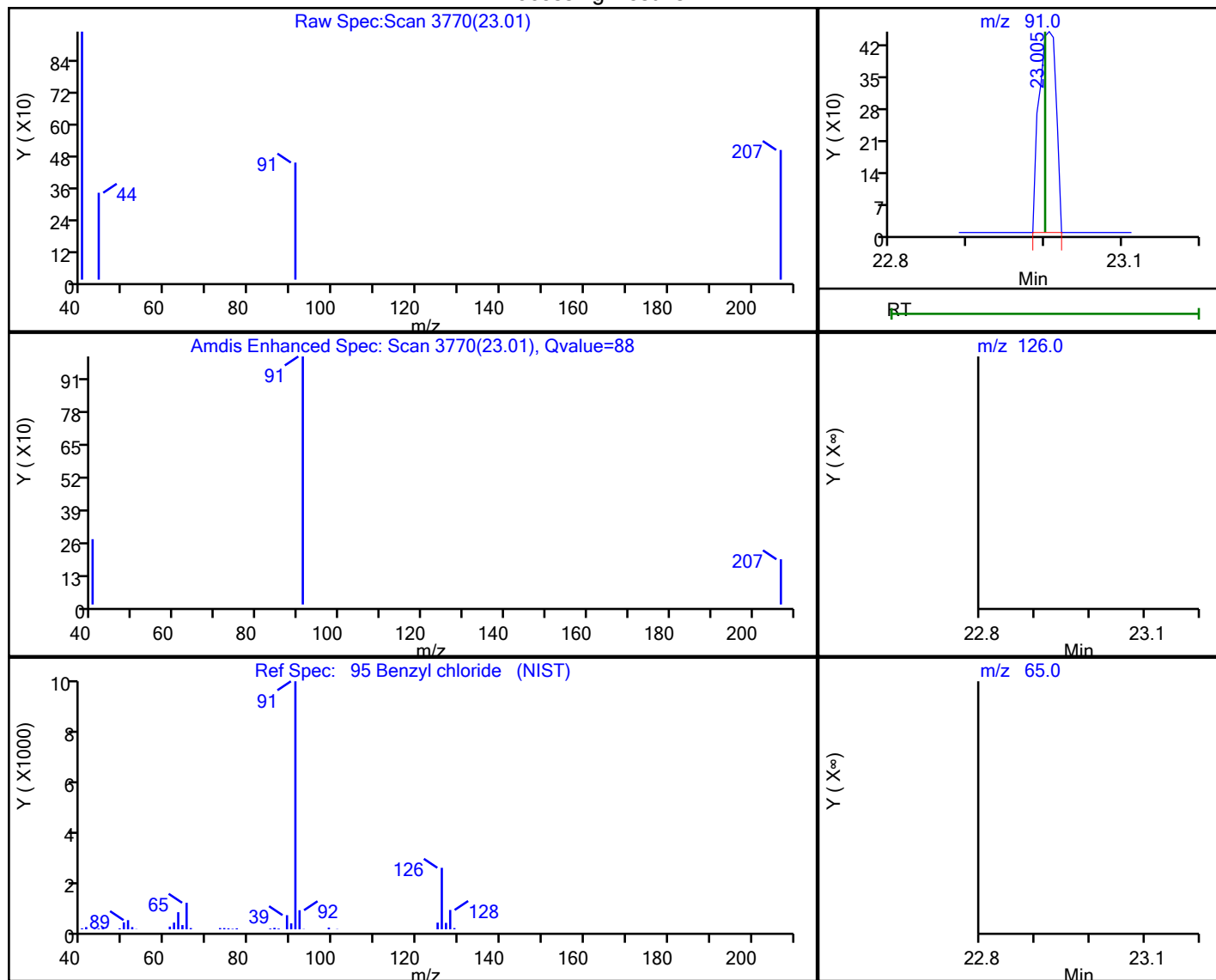


Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20210427-45726.b\45726-005.d  
 Injection Date: 27-Apr-2021 14:25:30 Instrument ID: CHW.i  
 Lims ID: 200-58182-A-10 Lab Sample ID: 200-58182-10  
 Client ID: 5463  
 Operator ID: ggg ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_TO3\_MasterMethod\_W Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

95 Benzyl chloride, CAS: 100-44-7

Processing Results



RT	Mass	Response	Amount
23.01	91.00	689	0.017218
23.00	126.00	0	
23.00	65.00	0	

Reviewer: bunmaa, 28-Apr-2021 07:49:49

Audit Action: Marked Compound Undetected

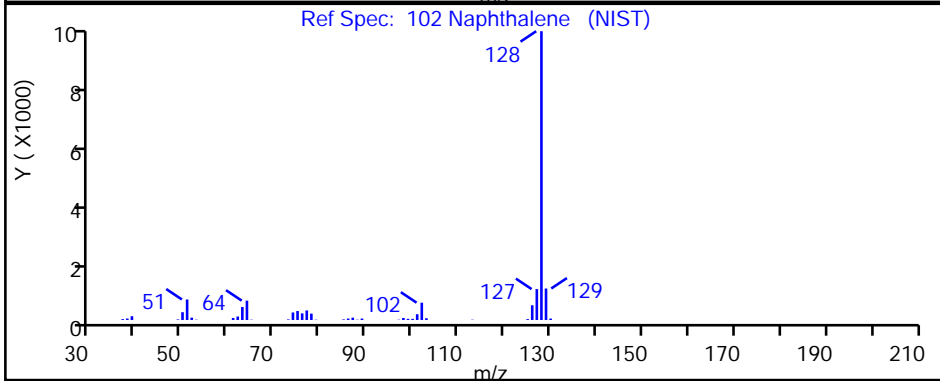
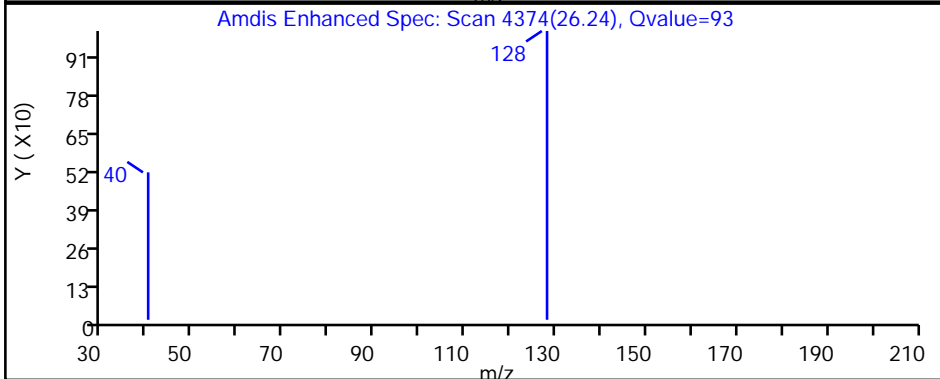
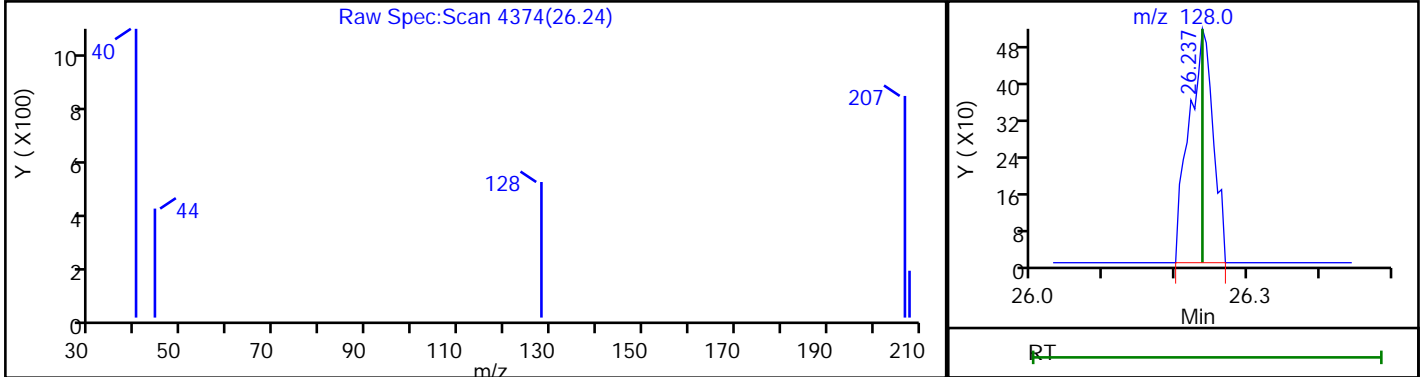
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20210427-45726.b\45726-005.d  
Injection Date: 27-Apr-2021 14:25:30 Instrument ID: CHW.i  
Lims ID: 200-58182-A-10 Lab Sample ID: 200-58182-10  
Client ID: 5463  
Operator ID: ggg ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_TO3\_MasterMethod\_W Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

102 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
26.24	128.00	1198	0.023305

Reviewer: bunmaa, 28-Apr-2021 07:50:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58186-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5094 Lab Sample ID: 200-58186-10  
 Matrix: Air Lab File ID: 45723-06.D  
 Analysis Method: TO-15 Date Collected: 04/23/2021 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/27/2021 11:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 166201 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58186-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5094 Lab Sample ID: 200-58186-10  
 Matrix: Air Lab File ID: 45723-06.D  
 Analysis Method: TO-15 Date Collected: 04/23/2021 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/27/2021 11:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 166201 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58186-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5094 Lab Sample ID: 200-58186-10  
 Matrix: Air Lab File ID: 45723-06.D  
 Analysis Method: TO-15 Date Collected: 04/23/2021 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/27/2021 11:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 166201 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10



Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHX.i\20210427-45723.b\45723-06.D  
 Lims ID: 200-58186-A-10  
 Client ID: 5094  
 Sample Type: Client  
 Inject. Date: 27-Apr-2021 11:52:30 ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0045723-006  
 Misc. Info.: 58186-10  
 Operator ID: ggg Instrument ID: CHX.i  
 Method: \\chromfs\Burlington\ChromData\CHX.i\20210427-45723.b\TO15\_MasterMethod\_X.m.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 28-Apr-2021 08:52:46 Calib Date: 09-Apr-2021 11:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Burlington\ChromData\CHX.i\20210408-45522.b\45522-23.D  
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN  
 Process Host: CTX1671

First Level Reviewer: puangmaleek

Date: 28-Apr-2021 08:52:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.338				ND	
2 Dichlorodifluoromethane	85		4.429				ND	
3 Chlorodifluoromethane	51		4.477				ND	
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.787				ND	
5 Chloromethane	50		4.916				ND	
6 Butane	43		5.226				ND	
7 Vinyl chloride	62		5.231				ND	
8 Butadiene	54		5.338				ND	
10 Bromomethane	94		6.055				ND	
11 Chloroethane	64		6.328				ND	
13 Vinyl bromide	106		6.745				ND	
14 Trichlorofluoromethane	101		6.900				ND	
17 Ethanol	45		7.237				ND	U
21 1,1-Dichloroethene	96		7.965				ND	
20 112TCTFE	101		7.992				ND	
22 Acetone	43		8.018				ND	
24 Isopropyl alcohol	45		8.291				ND	
23 Carbon disulfide	76		8.382				ND	
25 3-Chloro-1-propene	41		8.660				ND	
27 Methylene Chloride	49		8.890				ND	
28 2-Methyl-2-propanol	59		9.056				ND	
29 Methyl tert-butyl ether	73		9.372				ND	
31 trans-1,2-Dichloroethene	61		9.388				ND	
S 30 1,2-Dichloroethene, Total	61		9.665				ND	7
33 Hexane	57		9.886				ND	
35 Vinyl acetate	43		10.153				ND	
34 1,1-Dichloroethane	63		10.158				ND	
38 2-Butanone (MEK)	72		11.100				ND	
37 cis-1,2-Dichloroethene	96		11.148				ND	
39 Ethyl acetate	88		11.186				ND	
* 40 Chlorobromomethane	128	11.565	11.565	0.000	80	70595	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Tetrahydrofuran	42		11.587				ND	
42 Chloroform	83		11.737				ND	
44 1,1,1-Trichloroethane	97		12.041				ND	
43 Cyclohexane	84		12.181				ND	
45 Carbon tetrachloride	117		12.320				ND	
47 Benzene	78		12.667				ND	
48 1,2-Dichloroethane	62		12.753				ND	
46 Isooctane	57		12.865				ND	
49 n-Heptane	43		13.170				ND	
* 50 1,4-Difluorobenzene	114	13.400	13.400	0.000	93	352907	10.0	
53 Trichloroethene	95		13.834				ND	
54 1,2-Dichloropropane	63		14.299				ND	
55 Methyl methacrylate	69		14.358				ND	
56 1,4-Dioxane	88		14.406				ND	
57 Dibromomethane	174		14.460				ND	
58 Dichlorobromomethane	83		14.764				ND	
60 cis-1,3-Dichloropropene	75		15.562				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.797				ND	
65 Toluene	92		16.193				ND	
66 trans-1,3-Dichloropropene	75		16.615				ND	
67 1,1,2-Trichloroethane	83		16.995				ND	
68 Tetrachloroethene	166		17.183				ND	
69 2-Hexanone	43		17.375				ND	
71 Chlorodibromomethane	129		17.739				ND	
72 Ethylene Dibromide	107		17.980				ND	
* 74 Chlorobenzene-d5	117	18.878	18.878	0.000	84	262916	10.0	
75 Chlorobenzene	112		18.937				ND	
76 Ethylbenzene	91		19.119				ND	7
78 m-Xylene & p-Xylene	106		19.381				ND	
S 73 Xylenes, Total	106		19.600				ND	7
79 o-Xylene	106		20.157				ND	
80 Styrene	104		20.194				ND	
81 Bromoform	173		20.553				ND	
82 Isopropylbenzene	105		20.842				ND	
84 1,1,1,2,2-Tetrachloroethane	83		21.355				ND	
85 N-Propylbenzene	91		21.548				ND	
89 2-Chlorotoluene	91		21.698				ND	
88 4-Ethyltoluene	105		21.746				ND	
90 1,3,5-Trimethylbenzene	105		21.837				ND	
92 tert-Butylbenzene	119		22.313				ND	
93 1,2,4-Trimethylbenzene	105		22.398				ND	
94 sec-Butylbenzene	105		22.634				ND	
96 1,3-Dichlorobenzene	146		22.816				ND	7
95 4-Isopropyltoluene	119		22.848				ND	
97 1,4-Dichlorobenzene	146		22.960				ND	U
98 Benzyl chloride	91		23.099				ND	
100 n-Butylbenzene	91		23.404				ND	
101 1,2-Dichlorobenzene	146		23.447				ND	
103 1,2,4-Trichlorobenzene	180		25.897				ND	
104 Hexachlorobutadiene	225		26.133				ND	
105 Naphthalene	128		26.384				ND	

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

**Reagents:**

ATTO15XISs\_00002

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHX.i\20210427-45723.b\45723-06.D

Injection Date: 27-Apr-2021 11:52:30

Instrument ID: CHX.i

Operator ID: ggg

Lims ID: 200-58186-A-10

Lab Sample ID: 200-58186-10

Worklist Smp#: 6

Client ID: 5094

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

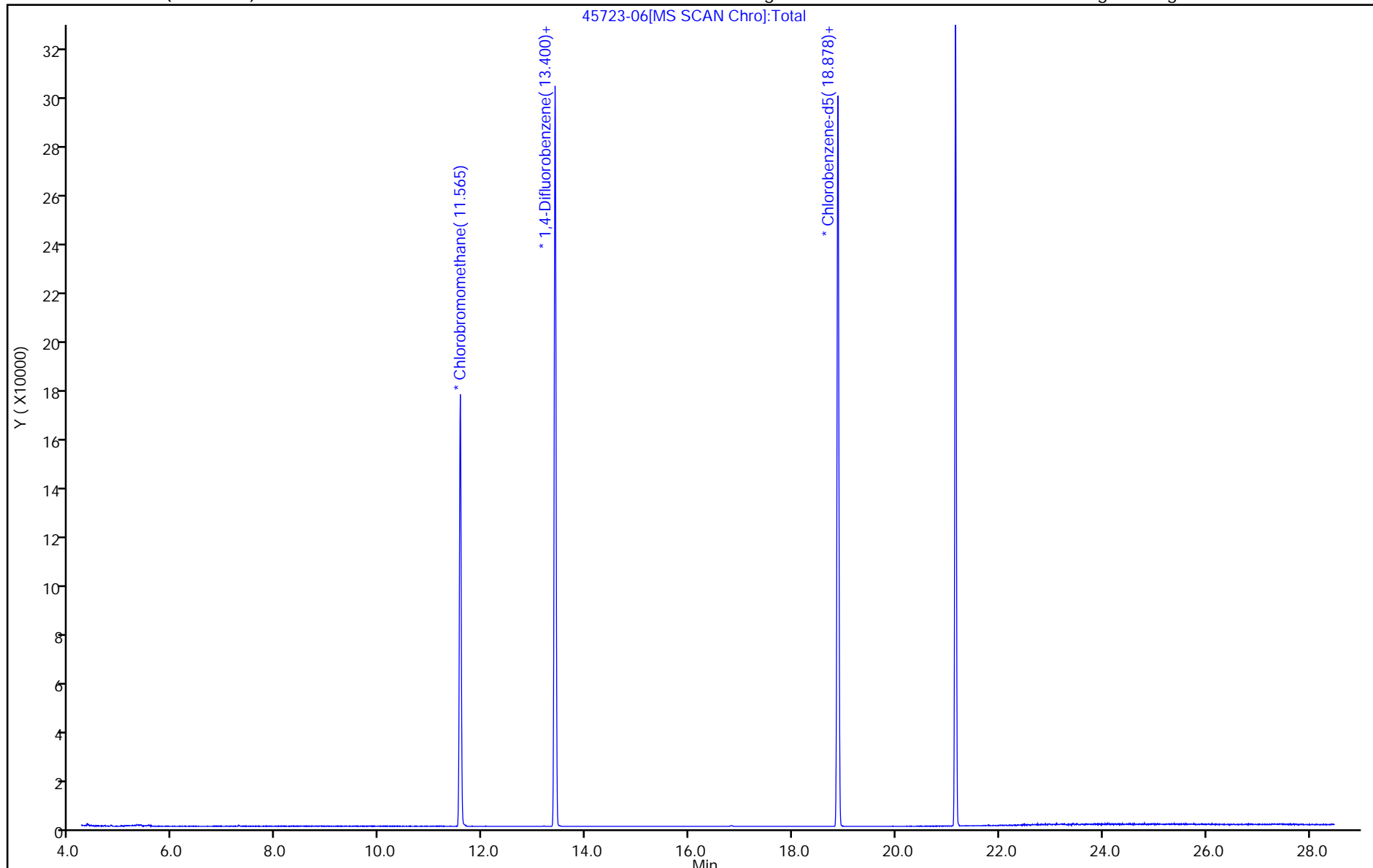
ALS Bottle#: 5

Method: TO15\_MasterMethod\_X.m

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 ( 0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

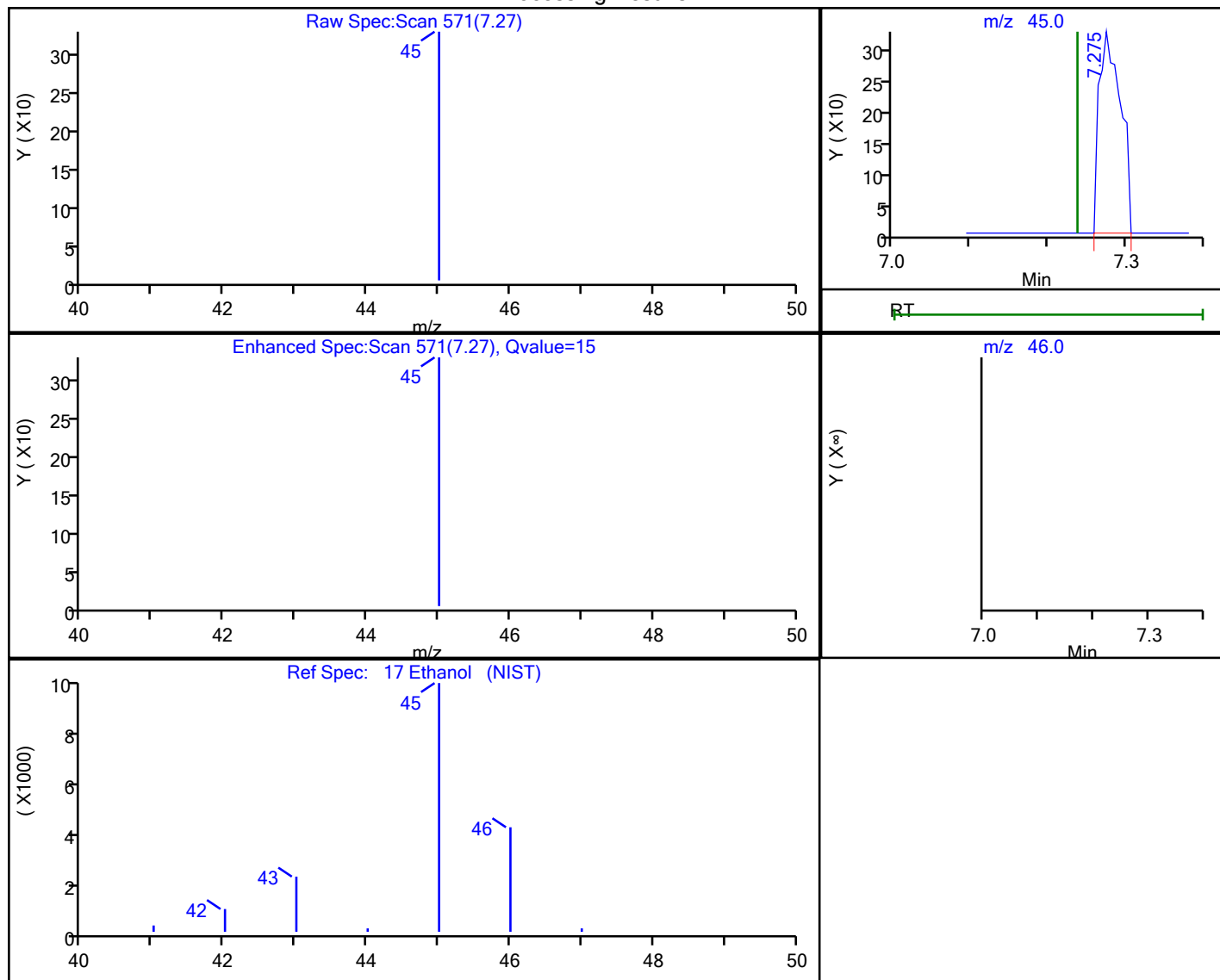


Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHX.i\20210427-45723.b\45723-06.D  
 Injection Date: 27-Apr-2021 11:52:30 Instrument ID: CHX.i  
 Lims ID: 200-58186-A-10 Lab Sample ID: 200-58186-10  
 Client ID: 5094  
 Operator ID: ggg ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_X.m Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

17 Ethanol, CAS: 64-17-5

Processing Results



RT	Mass	Response	Amount
7.27	45.00	629	0.124679
7.24	46.00	0	

Reviewer: puangmaleek, 28-Apr-2021 08:52:22

Audit Action: Marked Compound Undetected

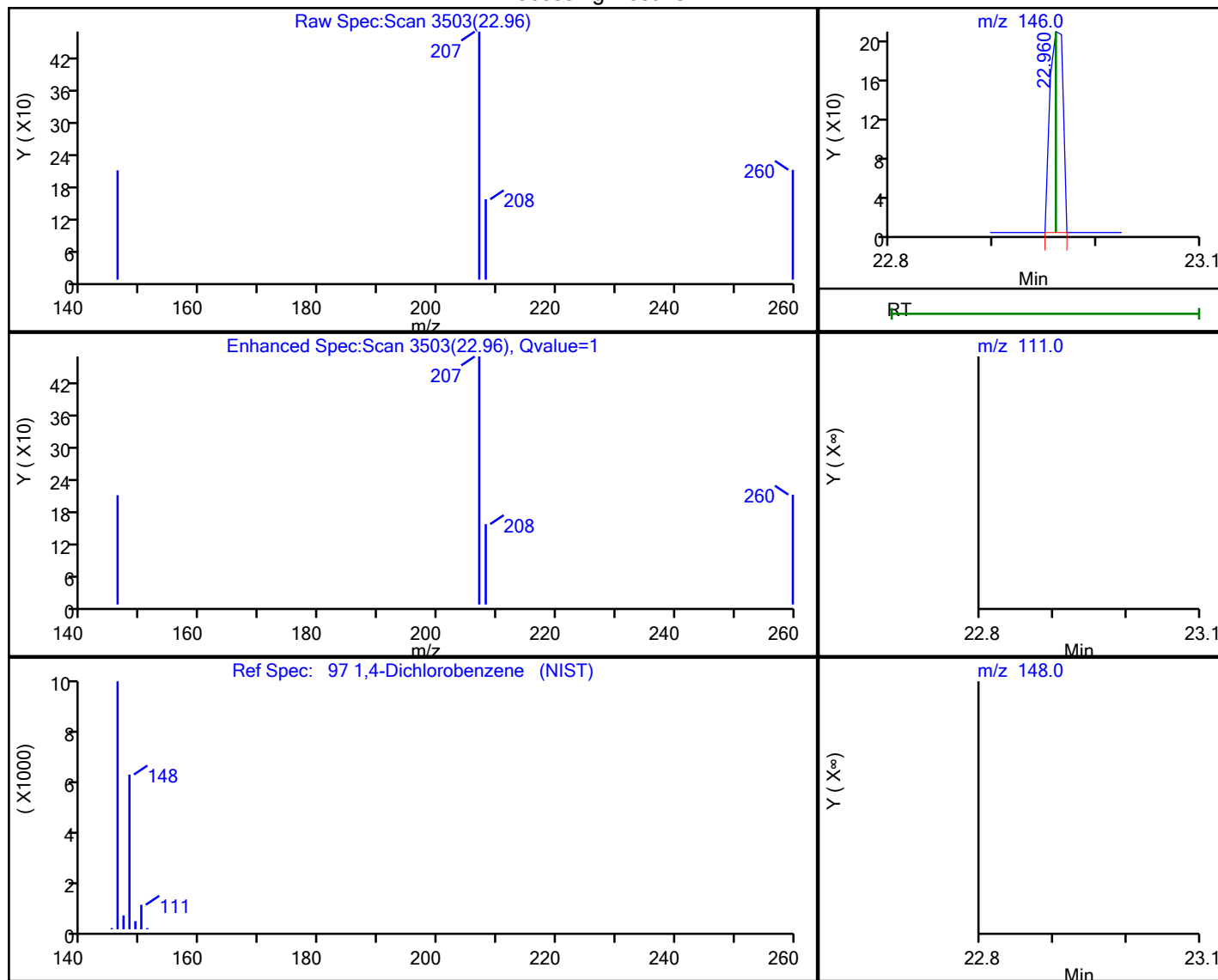
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHX.i\20210427-45723.b\45723-06.D  
 Injection Date: 27-Apr-2021 11:52:30 Instrument ID: CHX.i  
 Lims ID: 200-58186-A-10 Lab Sample ID: 200-58186-10  
 Client ID: 5094  
 Operator ID: ggg ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_X.m Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
22.96	146.00	181	0.012734
22.96	111.00	0	
22.96	148.00	0	

Reviewer: puangmaleek, 28-Apr-2021 08:52:40

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Summa Canister Dilution Worksheet

Client: Stantec Consulting Corp.  
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job No.: 200-58808-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initials
200-58808-4	6	-5.2	0.83	4.96	40.7	3.77	22.61		4.56	4.56	G21	06/09/21 10:21	TPB

**Formulae:**

- Preadjusted Volume (L) = ( Preadjusted Pressure ("Hg) + 29.92 "Hg \* Vol L ) / 29.92 "Hg
- Adjusted Volume (L) = ( Adjusted Pressure (psig) + 14.7 psig \* Vol L ) / 14.7 psig
- Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

**Where:**

- 29.92 "Hg = Standard atmospheric pressure in inches of Mercury ("Hg)
- 14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

