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Mr. Todd Caffoe
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
Avon, New York 14414-8696

Subject:
Sub-Slab Soil Vapor and Indoor Air Sampling Report
Former Roehlen Engraving
NYSDEC Site #828077
Henrietta, New York

Date:
April 29, 2014

Contact:
William B. Popham

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Email:
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Our ref:
B0083317.0000

Dear Mr. Caffoe:

This letter summarizes the recent sub-slab soil vapor and indoor air sampling conducted at the Chili's Restaurant (former Roehlen Engraving facility) located at 100 Marketplace Drive in Rochester, New York (site).

Previous investigations at the site, as requested by the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH), included exterior soil vapor and groundwater sampling and two rounds of sub-slab and indoor air sampling. Sampling of soil vapor and groundwater was conducted in April and September 2010, with the results of these sampling events presented in the July 29, 2011 *Supplemental Final Engineering Report Addendum*. In a follow-up letter dated August 16, 2011, the NYSDEC requested a complete soil vapor intrusion investigation inside the Chili's Restaurant. In response, in May 2012 and February 2013, paired sub-slab and indoor air samples were collected at two locations within the Chili's Restaurant. ARCADIS conducted the May 2012 sampling event, with sub-slab and indoor air sampling results presented in the August 8, 2012 *Sub-Slab Soil Vapor and Indoor Air Sampling Report*. That report recommended another sampling/monitoring event be performed during the 2012-2013 heating season (November 2012 through March 2013). As a result, Benchmark Environmental Engineering & Science, PLLC (Benchmark), with oversight by ARCADIS, conducted the February 2013 sampling event. The May 1, 2013 *Sub-Slab Soil Vapor and Indoor Air Sampling Report* presented the results of the February 2013 sampling event and confirmed that site-related volatile organic compounds (VOCs), namely trichloroethene (TCE), were not migrating into indoor air.

After reviewing the results from the 2013 sampling event, in an email dated November 15, 2013, the NYSDOH requested a third round of sub-slab soil vapor and indoor air sampling be conducted during the 2013-2014 heating season. On March

11, 2014, ARCADIS returned to the site to perform the third round of sub-slab soil vapor and indoor air sampling.

Sample Methods

ARCADIS performed the March 2014 sampling event consistent with the previous sampling events, and in accordance with the NYSDOH Vapor Intrusion Guidance (2006). Two soil vapor sampling points were installed through the concrete slab; one sampling point was established in the general seating area of the restaurant, and the second sampling point was set in the office area. Both sampling points were within 6 inches of the sampling points used during the previous sampling events.

At both locations, the soil vapor points were installed by drilling a ½ inch hole through the concrete slab and into the sub-slab material. The drill cuttings were immediately removed with a whisk broom. A length of ¼-inch-diameter Teflon® tubing was inserted approximately 2 inches below the concrete slab, and the gap between the tubing and the hole was plugged with VOC-free modeling clay. The other end of the tubing was connected to a Swagelok T-fitting, with a flow controller (with vacuum gauge) and SUMMA® canister.

A shroud was placed over the sample point and filled with a helium tracer gas. Using a graduated syringe, the Teflon® tubing was purged through the T-fitting. The purged air was collected and screened for both helium and VOCs. A field measurement of helium concentration in the purge confirmed that the sampling point was not leaking and sample collection could begin. The SUMMA® canister valve was opened and the time and initial vacuum was recorded. Both the sub-slab and a paired indoor air sample (located adjacent to the sub-slab sampling point) were started at the same time.

Approximately 22 hours after sampling began ARCADIS returned and monitored the vacuum on all SUMMA® canisters. Once the vacuum on any canister dropped below 6 inches of mercury, or after 24 hours of sample collection (whichever occurred first), the SUMMA® canister valve was closed, terminating the sample collection. The time and final vacuum, as well as other pertinent information, were recorded on sampling logs by ARCADIS (see Attachment 1).

A chain of custody was completed and the samples were shipped to Test America in Burlington, Vermont for analysis of VOCs via United States Environmental Protection Agency (USEPA) Method TO-15.

Results

Table 1 and Figure 1 present the indoor air and sub-slab soil vapor analytical results for the 2012, 2013, and 2014 sampling events. The complete laboratory results for the 2014 sampling event are provided in Attachment 2. Indoor air results were compared to the NYSDOH Air Guidelines and the 90th percentile background levels from the USEPA Building Assessment and Survey Evaluation (BASE) database, as outlined in the NYSDOH Vapor Intrusion Guidance (2006) (Table 1).

The NYSDOH Vapor Intrusion Guidance (2006) presents indoor air guidelines for methylene chloride, tetrachloroethene (PCE), and TCE. Similar to previous sampling events, none of these constituents exceeded air guideline values for indoor air. In addition, with the exception of chloroform, all detected constituents remain below indoor air background levels.

Consistent with the NYSDOH Vapor Intrusion Guidance (2006), indoor air and sub-slab soil vapor data were evaluated together using chemical-specific matrices. The matrices (provided in Attachment 3) recommend actions to be taken, if necessary, based on indoor air and sub-slab soil vapor results (NYSDOH 2006). Matrix 1 provides recommendations for carbon tetrachloride, TCE, and vinyl chloride, while Matrix 2 provides recommendations for 1,1,1-trichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, and PCE. Based on detected concentrations of TCE in sub-slab soil vapor and consistent with the results of the 2012 and 2013 sampling events (Table 2), the matrix comparison of indoor air and sub-slab soil vapor data indicate that monitoring/mitigation is the recommended action for the office area. For all other chemicals and locations, the matrix result is to take no further action.

Conclusions and Recommendations

Three rounds of sub-slab soil vapor and indoor air samples (over three heating seasons) have been collected from two locations within the Chili's Restaurant and have been compared to the NYSDOH air guidelines and background values from the USEPA BASE database. Based on this comparison, the following conclusions can be made:

- Indoor air results for methylene chloride, TCE, and PCE have remained below both the NYSDOH air guidelines and background levels during all three sampling events.

- Sub-slab and indoor air concentrations of TCE have remained consistent over the three sampling events.

As previously discussed with the NYSDEC and NYSDOH, and consistent with the NYSDOH's Stable Plume Monitoring Decisions – Matrix 1 Structure (Attachment 3), it is our understanding, based on the following that no further monitoring will be required and that formal closure procedures for this site can be initiated with the NYSDEC:

- previous remedial actions have removed the source area, and historical data indicate that groundwater quality is continually improving

- three consecutive sampling events (in different heating seasons) where sub-slab and indoor air data are consistent (sub-slab concentrations less than 200 micrograms per cubic meter [$\mu g/m^3$] and indoor air concentrations less than 0.5 $\mu g/m^3$)

- there are no building or site-specific conditions that warrant additional monitoring

If you have any questions, please contact me at 585.662.4022.

Sincerely,

ARCADIS

William B. Popham
Senior Vice President

Copies:
Mr. Justin Deming, New York State Department of Health
Ms. Stacey Constas, Standex International Corporation
Ms. Nadine Weinberg, ARCADIS
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Tables

Table 1
Analytical Summary of Indoor Air and Sub-Slab Soil Vapor Sampling Results

Standex International Corporation
Former Roehlen Engraving Site
Henrietta, New York

Sample Type:	NYSDOH Indoor Air Guideline	USEPA BASE Database - 90th Percentile	Indoor Air						Sub-Slab Soil Vapor					
Sample Location:			Office	Seating Area	Office	Seating Area	Office	Seating Area	Office	Seating Area	Office	Seating Area	Office	Seating Area
Sample Date:			5/7/2012	5/7/2012	2/25/2013	2/25/2013	3/11/2014	3/11/2014	5/7/2012	5/7/2012	2/25/2013	2/25/2013	3/11/2014	3/11/2014
Units:	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
1,1,1-Trichloroethane	---	20.6	0.11 U	0.11 U	0.85 U	0.85 U	1.1 U	1.1 U	0.11 U	1.6 U	1.5 U	1.8 U	1.1 U	4.4 U
1,1,2,2-Tetrachloroethane	---	---	NA	NA	0.21 U	0.21 U	1.4 U	1.4 U	NA	NA	0.38 U	0.44 U	1.4 U	5.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	---	---	**0.61 J**	**0.64 J**	**0.56**	**0.54**	1.5 U	1.5 U	**0.69 J**	2.3 U	**0.58**	**0.74**	**5.3**	**7.7**
1,1,2-Trichloroethane	---	1.5	NA	NA	0.85 U	0.85 U	1.1 U	1.1 U	NA	NA	1.5 U	1.8 U	1.1 U	4.4 U
1,1-Dichloroethane	---	0.7	0.093 U	0.093 U	0.63 U	0.64 U	0.81 U	0.81 U	0.093 U	1.4 U	1.1 U	1.3 U	0.81 U	3.2 U
1,1-Dichloroethene	---	1.4	0.34 U	0.34 U	0.62 U	0.62 U	0.79 U	0.79 U	0.34 U	5.1 U	1.1 U	1.3 U	0.79 U	3.2 U
1,2,4-Trimethylbenzene	---	9.5	0.1 U	**0.71 J**	NA	NA	0.98 U	0.98 U	**2.6**	1.6 U	NA	NA	0.98 U	3.9 U
1,2-Dibromoethane	---	1.5	NA	NA	0.24 U	0.24 U	1.5 U	1.5 U	NA	NA	0.43 U	0.50 U	1.5 U	6.1 U
1,2-Dichlorobenzene	---	1.2	NA	NA	1.9 U	1.9 U	1.2 U	1.2 U	NA	NA	3.4 U	3.9 U	1.2 U	4.8 U
1,2-Dichloroethane	---	0.9	0.073 U	0.073 U	0.63 U	0.64 U	0.81 U	0.81 U	0.073 U	1.1 U	1.1 U	1.3 U	0.81 U	3.2 U
1,2-Dichloropropane	---	1.6	NA	NA	0.72 U	0.72 U	0.92 U	0.92 U	NA	NA	1.3 U	1.5 U	0.92 U	3.7 U
1,3,5-Trimethylbenzene	---	3.7	0.093 U	0.093 U	NA	NA	0.98 U	0.98 U	**1.7**	1.4 U	NA	NA	0.98 U	3.9 U
1,3-Butadiene	---	3	NA	NA	NA	NA	0.44 U	0.44 U	NA	NA	NA	NA	**1.8**	**23**
1,3-Dichlorobenzene	---	2.4	NA	NA	1.9 U	1.9 U	1.2 U	1.2 U	NA	NA	3.4 U	3.9 U	1.2 U	4.8 U
1,4-Dichlorobenzene	---	5.5	NA	NA	1.9 U	1.9 U	1.2 U	1.2 U	NA	NA	3.4 U	3.9 U	1.2 U	4.8 U
4-Ethyltoluene	---	3.6	0.074 U	0.074 U	NA	NA	0.98 U	0.98 U	**0.46 J**	1.1 U	NA	NA	0.98 U	3.9 U
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	---	6	0.14 U	0.14 U	1.3 U	1.3 U	2 U	2 U	0.14 U	2.1 U	2.3 U	2.6 U	2 U	8.2 U
Acetone	---	98.9	**19**	**19**	**8.2**	**8.9**	**16**	**16**	**66**	**18 J**	**14**	**37**	**21**	**230**
Benzene	---	9.4	**0.41 J**	**0.52 J**	**1.3**	**1.2**	**0.65**	**0.78**	**7.2**	**6.5 J**	**6.7**	**33**	**5.2**	**38**
Bromodichloromethane	---	---	0.08 U	0.08 U	0.21 U	0.21 U	1.3 U	1.3 U	0.08 U	1.2 U	0.38 U	0.44 U	1.3 U	5.4 U
Bromoform	---	---	NA	NA	1.6 U	1.6 U	2.1 U	2.1 U	NA	NA	2.9 U	3.4 U	2.1 U	8.3 U
Bromomethane	---	1.7	NA	NA	0.61 U	0.61 U	0.78 U	0.78 U	NA	NA	1.1 U	1.3 U	0.78 U	3.1 U
Carbon Disulfide	---	4.2	0.062 U	0.062 U	0.48 U	0.48 U	1.6 U	1.6 U	**2**	**6.6 J**	**4.3**	**140 D**	1.6 U	**49**
Carbon Tetrachloride	---	1.3	**0.36 J**	**0.44 J**	**0.56**	**0.55**	**0.38**	**0.47**	**0.42 J**	1.2 U	**0.51**	**0.36**	**0.4**	1 U
Chlorobenzene	---	0.9	NA	NA	0.72 U	0.72 U	0.92 U	0.92 U	NA	NA	1.3 U	1.5 U	0.92 U	3.7 U
Chloroethane	---	1.1	NA	NA	0.82 U	0.82 U	1.3 U	1.3 U	NA	NA	1.5 U	1.7 U	1.3 U	5.3 U
Chloroform	---	1.1	**4**	**1.3**	**2.6**	**1.1**	**6.1**	**1.8**	**1**	1.8 U	1.4 U	**22**	**1.3**	3.9 U
Chloromethane	---	3.7	**1.3**	**1.4**	**1**	**1.1**	1 U	**1.2**	**0.65 J**	1.1 U	1.1 U	1.3 U	1 U	4.1 U
cis-1,2-Dichloroethene (a)	---	1.9	0.33 U	0.33 U	0.62 U	0.62 U	0.79 U	0.79 U	**2.3**	5 U	1.1 U	1.3 U	**3**	3.2 U
cis-1,3-Dichloropropene	---	2.3	NA	NA	1.4 U	1.4 U	0.91 U	0.91 U	NA	NA	2.5 U	2.9 U	0.91 U	3.6 U
Cyclohexane	---	---	**0.21 J**	**0.3 J**	NA	NA	0.69 U	0.69 U	**6.1**	**11**	NA	NA	**2.2**	**13**
Dibromochloromethane	---	---	0.094 U	0.094 U	0.27 U	0.27 U	1.7 U	1.7 U	0.094 U	1.4 U	0.48 U	0.56 U	1.7 U	6.8 U
Dichlorodifluoromethane	---	16.5	**2.5**	**2.6**	NA	NA	2.5 U	**2.9**	**2.3 J**	**2200**	NA	NA	2.5 U	**310**
Ethylbenzene	---	5.7	0.065 U	**0.38 J**	1.3 U	1.3 U	0.87 U	0.87 U	**0.92**	**2.2 J**	**8.8**	**14**	**1.1**	3.5 U
Freon-22	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Butyl Ketone (2-Hexanone)	---	---	0.16 U	**0.38 J**	0.63 U	0.64 U	2 U	2 U	**0.93 J**	2.5 U	1.1 U	1.3 U	2 U	8.2 U
Methyl Ethyl Ketone (2-Butanone)	---	12	**2.6**	**2**	0.92 U	0.92 U	**2.5**	**2.3**	**5.9**	**4 J**	**3**	**6.9**	**4.2**	**91**
Methylene Chloride	60	10	**4.6 B**	**4.2 B**	**1.8**	**3**	**1.9**	**3.5**	**1.6 J B**	**4.6 J B**	**1**	**4.7**	1.7 U	6.9 U
MTBE	---	11.5	0.054 U	0.054 U	1.1 U	1.1 U	0.72 U	0.72 U	0.054 U	0.82 U	2.0 U	2.3 U	0.72 U	2.9 U
n-Heptane	---	---	**0.64 J**	**1.2**	NA	NA	**1.4**	0.82 U	**28**	**22**	NA	NA	**6.4**	**27**
n-Hexane	---	10.2	**0.65 J**	**0.74**	NA	NA	**1.7**	0.7 U	**26**	**24**	NA	NA	**5.1**	**28**
Styrene	---	1.9	0.047 U	**1.7**	1.3 U	**1.5**	0.85 U	0.85 U	**1**	0.71 U	2.4 U	2.8 U	0.85 U	3.4 U
Tetrachloroethene (PCE)	100	15.9	**1.8**	**4**	0.11 U	0.11 U	1.4 U	1.4 U	**1.1 J**	**5.1 J**	**0.64**	**0.93**	1.4 U	5.4 U
Tetrahydrofuran	---	---	**0.22 J**	**0.18 J**	NA	NA	15 U	15 U	**1.1 J**	1.3 U	NA	NA	15 U	59 U
Toluene	---	43	**1.1**	**3.2**	**1.9**	**3**	**0.99**	**0.93**	**6.3**	**16**	**39**	**110**	**7.3**	**30**
trans-1,2-DCE	---	---	0.091 U	0.091 U	0.62 U	0.62 U	0.79 U	0.79 U	**0.4 J**	1.4 U	1.1 U	1.3 U	0.79 U	3.2 U
trans-1,3-Dichloropropene	---	1.3	NA	NA	0.71 U	0.71 U	0.91 U	0.91 U	NA	NA	1.3 U	1.5 U	0.91 U	3.6 U
Trichloroethene (TCE)	5	4.2	**0.4 J**	**0.44 J**	**0.24**	**0.21**	**0.45**	**0.34**	**140**	**2.5 J**	**170 D**	**1.8**	**110**	**2.9**
Trichlorofluoromethane (CFC-11)	---	18.1	**1.4**	**1.4**	**1.4**	**1.4**	**1.3**	**1.5**	**4**	**43**	**2.8**	**56**	**1.9**	**7**
Vinyl Acetate	---	---	NA	NA	7.1 U	7.1 U	NA	NA	NA	NA	13 U	15 U	NA	NA
Vinyl Chloride	---	1.9	0.023 U	0.023 U	0.085 U	0.085 U	0.1 U	0.1 U	0.023 U	0.35 U	0.15 U	0.18 U	0.1 U	0.41 U
Xylene (m,p)	---	22.2	0.096 U	**1.1 J**	2.7 U	2.7 U	2.2 U	2.2 U	**6.1**	**12 J**	**37**	**77**	**4.3**	8.7 U
Xylene (o)	---	7.9	0.069 U	**0.35 J**	1.3 U	1.3 U	0.87 U	0.87 U	**2.1**	**3.8 J**	**9.6**	**25**	**1.5**	**3.8**

Notes:
Samples were analyzed using USEPA Method TO-15.
Detected concentrations presented in bold.
Shaded cells exceed USEPA BASE background value.
--- = not available
(a) = trans -1,2-dichlroethene used as a surrogate
J = Analyte detected at or below quantitation limits.
U = Not detected at the reporting limit.
B = Compound was found in the blank and sample
D = Concentration is the result of a dilution.
NA = not analyzed
NYSDOH = New York State Department of Health Indoor Air Guideline
USEPA BASE = United States Environmental Protection Agency Building Assessment and Survey Evaluation
µg/m³ = micrograms per cubic meter

Table 2
Vapor Intrusion Sampling Results and NYSDOH Matrix Recommendations

Standex Internation Corporation
Former Roehlen Engraving Site
Henrietta, New York

Sample Location:	Office	Office	Office Matrix Decision [a]	Seating Area	Seating Area	Seating Matrix Decision [a]
Sample Type:	Indoor Air	Sub-Slab Soil Vapor		Indoor Air	Sub-Slab Soil Vapor	
Sample Date:	5/7/2012	5/7/2012		5/7/2012	5/7/2012	
Units:	µg/m^3	µg/m^3		µg/m^3	µg/m^3	
Carbon Tetrachloride	**0.36 J**	**0.42 J**	Background [b]	**0.44 J**	1.2 U	Background [b]
Trichloroethene (TCE)	**0.4 J**	**140**	Monitor/Mitigate	**0.44 J**	**2.5 J**	Background [b]
Vinyl Chloride	0.023 U	0.023 U	No further action	0.023 U	0.35 U	No further action
1,1,1-Trichloroethane	0.11 U	0.11 U	No further action	0.11 U	1.6 U	No further action
1,1-Dichloroethene	0.34 U	0.34 U	No further action	0.34 U	5.1 U	No further action
cis-1,2-Dichloroethene	0.33 U	**2.3**	No further action	0.33 U	5 U	No further action
Tetrachloroethene (PCE)	**1.8**	**1.1 J**	No further action	**4**	**5.1 J**	No further action

Sample Location:	Office	Office	Office Matrix Decision [a]	Seating Area	Seating Area	Seating Matrix Decision [a]
Sample Type:	Indoor Air	Sub-Slab Soil Vapor		Indoor Air	Sub-Slab Soil Vapor	
Sample Date:	2/25/2013	2/25/2013		2/25/2013	2/25/2013	
Units:	µg/m^3	µg/m^3		µg/m^3	µg/m^3	
Carbon Tetrachloride	**0.56**	**0.51**	Background [b]	**0.55**	**0.36**	Background [b]
Trichloroethene (TCE)	**0.24**	**170 D**	Monitor	**0.21**	**1.8**	No further action
Vinyl Chloride	0.085 U	0.15 U	No further action	0.085 U	0.18 U	No further action
1,1,1-Trichloroethane	0.85 U	1.5 U	No further action	0.85 U	1.8 U	No further action
1,1-Dichloroethene	0.62 U	1.1 U	No further action	0.62 U	1.3 U	No further action
cis-1,2-Dichloroethene	0.62 U	1.1 U	No further action	0.62 U	1.3 U	No further action
Tetrachloroethene (PCE)	0.11 U	**0.64**	No further action	0.11 U	**0.93**	No further action

Sample Location:	Office	Office	Office Matrix Decision [a]	Seating Area	Seating Area	Seating Matrix Decision [a]
Sample Type:	Indoor Air	Sub-Slab Soil Vapor		Indoor Air	Sub-Slab Soil Vapor	
Sample Date:	3/11/2014	3/11/2014		3/11/2014	3/11/2014	
Units:	µg/m^3	µg/m^3		µg/m^3	µg/m^3	
Carbon Tetrachloride	**0.38**	**0.4**	Background [b]	**0.47**	1 U	Background [b]
Trichloroethene (TCE)	**0.45**	**110**	Monitor/Mitigate	**0.34**	**2.9**	Background [b]
Vinyl Chloride	0.1 U	0.1 U	No further action	0.1 U	0.41 U	No further action
1,1,1-Trichloroethane	1.1 U	1.1 U	No further action	1.1 U	4.4 U	No further action
1,1-Dichloroethene	0.79 U	0.79 U	No further action	0.79 U	3.2 U	No further action
cis-1,2-Dichloroethene	0.79 U	**3**	No further action	0.79 U	3.2 U	No further action
Tetrachloroethene (PCE)	1.4 U	1.4 U	No further action	1.4 U	5.4 U	No further action

Notes:
Detected concentrations presented in bold.
(a) NYSDOH (2006) Soil Vapor/Indoor Air Matrix. Matrix 1 includes carbon tetrachloride, trichloroethene (TCE), and vinyl chloride; Matrix 2 includes 1,1,1-trichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, and tetrachloroethene (PCE).
(b) Take reasonable and practical actions to identify source(s) and reduce exposures.
J = Analyte detected at or below quantitation limits.
U = Not detected at the reporting limit.
D = Concentration is the result of a dilution.
NYSDOH = New York State Department of Health
µg/m^3 = micrograms per cubic meter

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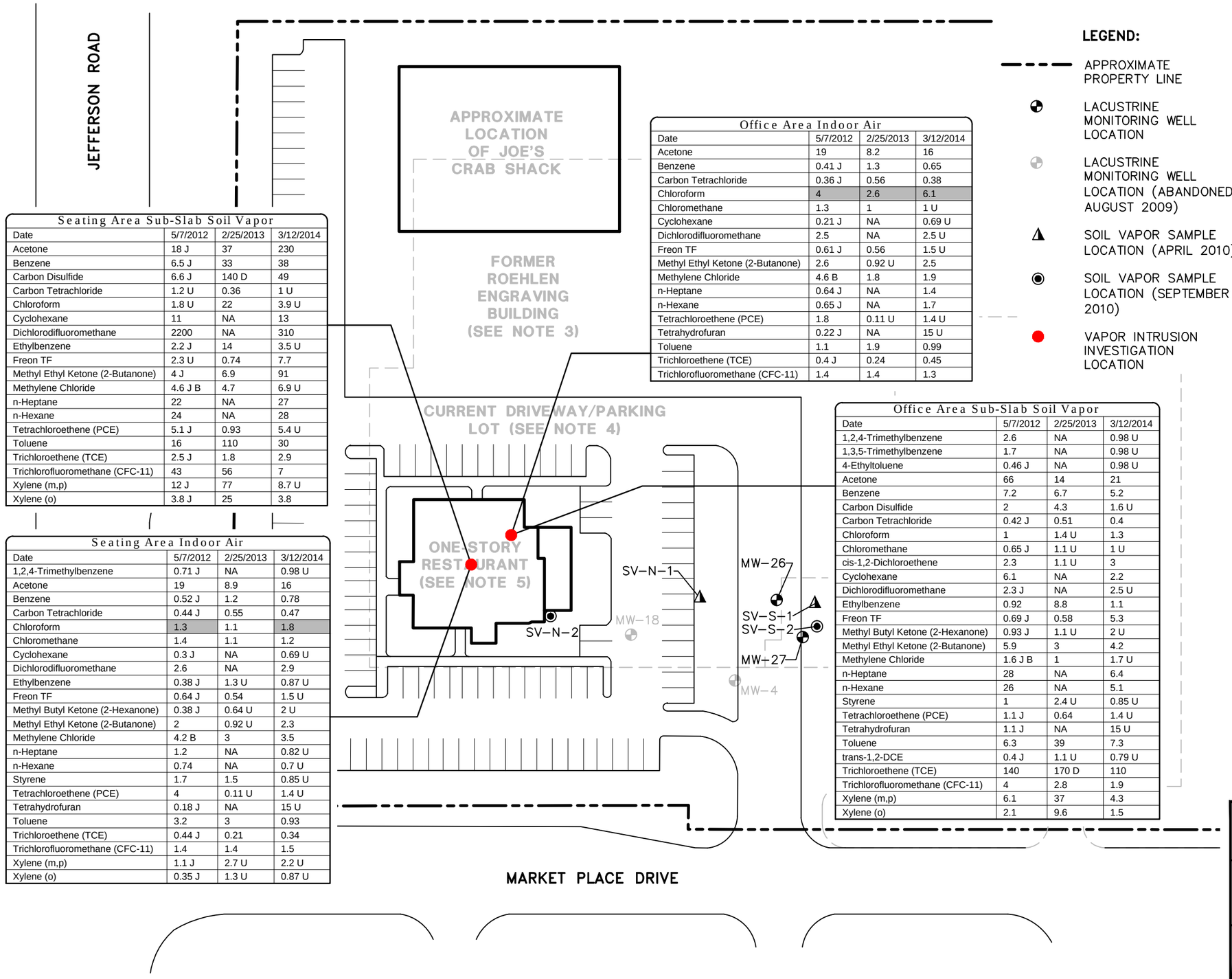
Figure



Seating Area Sub-Slab Soil Vapor

Date	5/7/2012	2/25/2013	3/12/2014
Acetone	18 J	37	230
Benzene	6.5 J	33	38
Carbon Disulfide	6.6 J	140 D	49
Carbon Tetrachloride	1.2 U	0.36	1 U
Chloroform	1.8 U	22	3.9 U
Cyclohexane	11	NA	13
Dichlorodifluoromethane	2200	NA	310
Ethylbenzene	2.2 J	14	3.5 U
Freon TF	2.3 U	0.74	7.7
Methyl Ethyl Ketone (2-Butanone)	4 J	6.9	91
Methylene Chloride	4.6 J B	4.7	6.9 U
n-Heptane	22	NA	27
n-Hexane	24	NA	28
Tetrachloroethene (PCE)	5.1 J	0.93	5.4 U
Toluene	16	110	30
Trichloroethene (TCE)	2.5 J	1.8	2.9
Trichlorofluoromethane (CFC-11)	43	56	7
Xylene (m,p)	12 J	77	8.7 U
Xylene (o)	3.8 J	25	3.8

Seating Area Indoor Air

Date	5/7/2012	2/25/2013	3/12/2014
1,2,4-Trimethylbenzene	0.71 J	NA	0.98 U
Acetone	19	8.9	16
Benzene	0.52 J	1.2	0.78
Carbon Tetrachloride	0.44 J	0.55	0.47
Chloroform	1.3	1.1	1.8
Chloromethane	1.4	1.1	1.2
Cyclohexane	0.3 J	NA	0.69 U
Dichlorodifluoromethane	2.6	NA	2.9
Ethylbenzene	0.38 J	1.3 U	0.87 U
Freon TF	0.64 J	0.54	1.5 U
Methyl Butyl Ketone (2-Hexanone)	0.38 J	0.64 U	2 U
Methyl Ethyl Ketone (2-Butanone)	2	0.92 U	2.3
Methylene Chloride	4.2 B	3	3.5
n-Heptane	1.2	NA	0.82 U
n-Hexane	0.74	NA	0.7 U
Styrene	1.7	1.5	0.85 U
Tetrachloroethene (PCE)	4	0.11 U	1.4 U
Tetrahydrofuran	0.18 J	NA	15 U
Toluene	3.2	3	0.93
Trichloroethene (TCE)	0.44 J	0.21	0.34
Trichlorofluoromethane (CFC-11)	1.4	1.4	1.5
Xylene (m,p)	1.1 J	2.7 U	2.2 U
Xylene (o)	0.35 J	1.3 U	0.87 U

Office Area Indoor Air

Date	5/7/2012	2/25/2013	3/12/2014
Acetone	19	8.2	16
Benzene	0.41 J	1.3	0.65
Carbon Tetrachloride	0.36 J	0.56	0.38
Chloroform	4	2.6	6.1
Chloromethane	1.3	1	1 U
Cyclohexane	0.21 J	NA	0.69 U
Dichlorodifluoromethane	2.5	NA	2.5 U
Freon TF	0.61 J	0.56	1.5 U
Methyl Ethyl Ketone (2-Butanone)	2.6	0.92 U	2.5
Methylene Chloride	4.6 B	1.8	1.9
n-Heptane	0.64 J	NA	1.4
n-Hexane	0.65 J	NA	1.7
Tetrachloroethene (PCE)	1.8	0.11 U	1.4 U
Tetrahydrofuran	0.22 J	NA	15 U
Toluene	1.1	1.9	0.99
Trichloroethene (TCE)	0.4 J	0.24	0.45
Trichlorofluoromethane (CFC-11)	1.4	1.4	1.3

Office Area Sub-Slab Soil Vapor

Date	5/7/2012	2/25/2013	3/12/2014
1,2,4-Trimethylbenzene	2.6	NA	0.98 U
1,3,5-Trimethylbenzene	1.7	NA	0.98 U
4-Ethyltoluene	0.46 J	NA	0.98 U
Acetone	66	14	21
Benzene	7.2	6.7	5.2
Carbon Disulfide	2	4.3	1.6 U
Carbon Tetrachloride	0.42 J	0.51	0.4
Chloroform	1	1.4 U	1.3
Chloromethane	0.65 J	1.1 U	1 U
cis-1,2-Dichloroethene	2.3	1.1 U	3
Cyclohexane	6.1	NA	2.2
Dichlorodifluoromethane	2.3 J	NA	2.5 U
Ethylbenzene	0.92	8.8	1.1
Freon TF	0.69 J	0.58	5.3
Methyl Butyl Ketone (2-Hexanone)	0.93 J	1.1 U	2 U
Methyl Ethyl Ketone (2-Butanone)	5.9	3	4.2
Methylene Chloride	1.6 J B	1	1.7 U
n-Heptane	28	NA	6.4
n-Hexane	26	NA	5.1
Styrene	1	2.4 U	0.85 U
Tetrachloroethene (PCE)	1.1 J	0.64	1.4 U
Tetrahydrofuran	1.1 J	NA	15 U
Toluene	6.3	39	7.3
trans-1,2-DCE	0.4 J	1.1 U	0.79 U
Trichloroethene (TCE)	140	170 D	110
Trichlorofluoromethane (CFC-11)	4	2.8	1.9
Xylene (m,p)	6.1	37	4.3
Xylene (o)	2.1	9.6	1.5

LEGEND:

- APPROXIMATE PROPERTY LINE
- LACUSTRINE MONITORING WELL LOCATION
- LACUSTRINE MONITORING WELL LOCATION (ABANDONED AUGUST 2009)
- SOIL VAPOR SAMPLE LOCATION (APRIL 2010)
- SOIL VAPOR SAMPLE LOCATION (SEPTEMBER 2010)
- VAPOR INTRUSION INVESTIGATION LOCATION

NOTES:

1. CURRENT FEATURES (DRIVEWAY, PARKING LOT, AND BUILDING LOCATION) FROM A DRAWING BY CAMINA, WOOD, & MORRIS, PC., TITLED "OVERALL SITE PLAN", DATED 3/09, @ A SCALE OF 1"=50.
2. ALL LOCATIONS ARE APPROXIMATE.
3. FORMER ROEHLEN ENGRAVING BUILDING DEMOLISHED IN APRIL/MAY 2008.
4. CURRENT DRIVEWAY/PARKING LOT INSTALLED NOVEMBER 2009.
5. ONE-STORY RESTAURANT CONSTRUCTION COMPLETED JANUARY 2010.
6. ALL CONCENTRATIONS ARE PRESENTED IN MICROGRAMS PER CUBIC METER (ug/m3).
7. SHADED CELLS EXCEED UNITED STATES ENVIRONMENTAL PROTECTION AGENCY BUILDING ASSESSMENT AND SURVEY EVALUATION BACKGROUND VALUE.
8. J = ANALYTE DETECTED AT OR BELOW THE QUANTITATION LIMITS.
9. U = NOT DETECTED AT THE REPORTING LIMIT.
10. B = COMPOUND WAS FOUND IN THE BLANK AND SAMPLE.
11. D = CONCENTRATION IS THE RESULT OF A DILUTION.
12. NA = NOT ANALYZED.

0 60' 120'

GRAPHIC SCALE

STANDEX INTERNATIONAL CORPORATION
FORMER ROEHLEN ENGRAVING SITE
SUB-SLAB SOIL VAPOR AND INDOOR AIR SAMPLING REPORT

VAPOR INTRUSION CONCENTRATIONS

ARCADIS

FIGURE 1

CITY: SYRACUSE NY DV/GROUP: ENVCAD DB: E.KRAHMER LD: (Opt.) PIC: W. POPHAM PM/TM: A. RICHARDSON TR: T. ERTEL LYR:(Obj)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\B008331\70000\00011\DWG\833317C4.dwg LAYOUT: 2 SAVED: 4/3/2014 1:43 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 4/3/2014 1:43 PM BY: KRAHMER, ERIC
XREFS: IMAGES: PROJECTNAME: ----

ARCADIS

Attachment 1

Sub-slab Soil Vapor Sample Collection Log

ARCADIS

Client:	Standex	**Sample ID:**	SS Office - ~~Indoor~~ - 031114
Project:	Roehlen Engraving	**Boring Equipment:**	NA
Location:	Henrietta, NY	**Sealant:**	VOC-free clay
Project #:	B0083317.0000	**Tubing Information:**	Teflon - Inert
Samplers:	ADR / SPS	**Miscellaneous Equipment:**	—
		Subcontractor:	—
Sampling Depth:	Sub - slab ~~Sub-slab~~	**Equipment:**	—
Time and Date of Installation:	3/11/14 0945	**Moisture Content of Sampling Zone):**	—
		Approximate Purge Volume:	~600 mL

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
3/11/14	0955	-30	72°	—	—	29.65	
3/11/14	1400	-26	72°	—	—	29.66	
3/12/14	0920	-8	72°	—	—	29.60	

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L (6 L)
Canister ID:	3660 1
Flow Controller ID:	3664
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	15%
Final Helium Shroud:	15%
Tracer Test Passed:	(Yes) No
Notes:	purge = 25 ppm

General Observations/Notes:

Approximating One-Well Volume (for purging):

When using 1¼-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of ¼-inch tubing will have a volume of approximately 10 mL.

ARCADIS

Sub-slab Soil Vapor Sample Collection Log

		Sample ID:	Office-Indoor-031114
Client:	Stendex	**Boring Equipment:**	—
Project:	Roehlen Engraving	**Sealant:**	—
Location:	Henrietta, NY	**Tubing Information:**	—
Project #:	B0083317.0000	**Miscellaneous Equipment:**	—
Samplers:	ADR/SRS	**Subcontractor:**	—
		Equipment:	—
Sampling Depth:	—	**Moisture Content of Sampling Zone):**	—
Time and Date of Installation:	3/11/14 0945	**Approximate Purge Volume:**	—

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
3/11/14	0955	-30	72°	—	—	29.65	—
3/11/14	1400	-26	72°	—	—	29.66	—
3/12/14	0830	-6	72°	—	—	29.60	

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L (6 L)
Canister ID:	5439
Flow Controller ID:	3986
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	—
Final Helium Shroud:	—
Tracer Test Passed:	Yes No
Notes:	

General Observations/Notes:

Approximating One-Well Volume (for purging):

When using 1¼-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of ¼-inch tubing will have a volume of approximately 10 mL.

ARCADIS

Sub-slab Soil Vapor Sample Collection Log

		Sample ID:	Seating-SS-031114
Client:	Standex	Boring Equipment:	—
Project:	Rochlen Engraving	Sealant:	VOC-free clay
Location:	Henrietta, NY	Tubing Information:	Teflon-lined
Project #:	B0083317.0000	Miscellaneous Equipment:	—
Samplers:	ADR/SRS	Subcontractor:	—
		Equipment:	—
Sampling Depth:	sub-slab	Moisture Content of Sampling Zone):	—
Time and Date of Installation:	3/11/14 0955	Approximate Purge Volume:	~600mL

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
3/11/14	1000	-30	72°	—	—	29.65	—
3/11/14	1400	-26	72°	—	—	29.66	—
3/12/14	0830	-6	72°	—	—	29.60	—

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L (6 L)
Canister ID:	4118
Flow Controller ID:	3107
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	15%
Final Helium Shroud:	15%
Tracer Test Passed:	(Yes) No
Notes:	purge = 25ppm

General Observations/Notes:

Approximating One-Well Volume (for purging):

When using 1¼-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of ¼-inch tubing will have a volume of approximately 10 mL.

ARCADIS

Sub-slab Soil Vapor Sample Collection Log

Client:	Standex	Sample ID:	Seating - Indoor - 031114
Project:	Rochlen Engraving	Boring Equipment:	—
Location:	Henrietta, NY	Sealant:	—
Project #:	B0083317.0000	Tubing Information:	—
Samplers:	ADR / SRS	Miscellaneous Equipment:	—
		Subcontractor:	—
Sampling Depth:	—	Equipment:	—
Time and Date of Installation:	3/11/14 1000	Moisture Content of Sampling Zone):	—
		Approximate Purge Volume:	—

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
3/11/14	1000	-30	72°	—	—	29.65	
3/11/14	1400	-26	72°	—	—	29.66	
3/12/14	0950	-14	72°	—	—	29.60	

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L (6 L)
Canister ID:	5039
Flow Controller ID:	3224
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	—
Final Helium Shroud:	—
Tracer Test Passed:	Yes No
Notes:	

General Observations/Notes:

Approximating One-Well Volume (for purging):

When using 1¼-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of ¼-inch tubing will have a volume of approximately 10 mL.

ARCADIS

Attachment 2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 200-21380-1

SDG Number: 200-21380

Job Description: Roehlen Engraving

For:
ARCADIS U.S. Inc
Arcadis
295 Woodcliff Drive #2, 3rd Floor
Suite 301
Fairport, NY 14450

Attention: Mr. Aaron Richardson

Approved for release.
Don C Dawicki
Manager of Project Management
3/28/2014 7:59 AM

Don C Dawicki, Manager of Project Management
30 Community Drive, South Burlington, VT, 05403
(802)660-1990
don.dawicki@testamericainc.com
03/28/2014

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

Table of Contents

Cover Title Page 1

Data Summaries 4

- Report Narrative 4
- Manual Integration Summary 5
- Sample Summary 7
- Executive Summary 8
- Method Summary 11
- Method / Analyst Summary 12
- Sample Datasheets 13
- QC Data Summary 25
- Data Qualifiers 37
- QC Association Summary 38
- Lab Chronicle 39
- Certification Summary 41

Organic Sample Data 42

- Air - GC/MS VOA 42
  - Method TO15 42
    - Method TO15 QC Summary 43
    - Method TO15 Sample Data 55
    - Standards Data 136
      - Method TO15 ICAL Data 136
      - Method TO15 CCAL Data 179
    - Raw QC Data 201
      - Method TO15 Tune Data 201
      - Method TO15 Blank Data 210
      - Method TO15 LCS/LCSD Data 228

Table of Contents

Method TO15 Run Logs 242

Method TO15 Prep Data 245

Air Canister Dilution 246

Pre-shipment Certification 247

LCS Data 250

Blank Data 256

Tune Data 283

IS/RT Data 289

Clean Canister Data 295

ICAL Data 316

ICV/CCV Data 346

Run Logs 364

Shipping and Receiving Documents 370

Client Chain of Custody 371

Sample Receipt Checklist 373

CASE NARRATIVE

Client: ARCADIS U.S. Inc

Project: Roehlen Engraving

Report Number: 200-21380-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/13/2014; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS

Samples OFFICE-INDOOR-031114, OFFICE-SS-031114, SEATING-INDOOR-031114 and SEATING-SS-031114 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 03/21/2014.

The analysis of the initial calibration associated with this delivery group yielded a %RSD for Methyl Ethyl Ketone that exceeded the upper control limit.

Sample SEATING-SS-031114[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the VOC analysis.

All quality control parameters were within the acceptance limits.

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AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Instrument ID: CHB.i Analysis Batch Number: 69511

Lab Sample ID: IC 200-69511/3 Client Sample ID:

Date Analyzed: 03/14/14 12:11 Lab File ID: 6557_003.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloroethene	14.28	Baseline Event	daiglep	03/17/14 10:07

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Instrument ID: CHB.i Analysis Batch Number: 69742

Lab Sample ID: 200-21380-2 Client Sample ID: OFFICE-SS-031114

Date Analyzed: 03/21/14 15:17 Lab File ID: 6635_008.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	3.61	Analyte misidentified by the data system	daiglep	03/24/14 11:28

SAMPLE SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-21380-1	OFFICE-INDOOR-031114	Air	03/12/2014 0830	03/13/2014 1230
200-21380-2	OFFICE-SS-031114	Air	03/12/2014 0920	03/13/2014 1230
200-21380-3	SEATING-INDOOR-031114	Air	03/12/2014 0950	03/13/2014 1230
200-21380-4	SEATING-SS-031114	Air	03/12/2014 0830	03/13/2014 1230

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-21380-1	**OFFICE-INDOOR-031114**					
Trichlorofluoromethane		0.23		0.20	ppb v/v	TO-15
Trichlorofluoromethane		1.3		1.1	ug/m3	TO-15
Acetone		6.7		5.0	ppb v/v	TO-15
Acetone		16		12	ug/m3	TO-15
Methylene Chloride		0.54		0.50	ppb v/v	TO-15
Methylene Chloride		1.9		1.7	ug/m3	TO-15
n-Hexane		0.47		0.20	ppb v/v	TO-15
n-Hexane		1.7		0.70	ug/m3	TO-15
Methyl Ethyl Ketone		0.85		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		2.5		1.5	ug/m3	TO-15
Chloroform		1.3		0.20	ppb v/v	TO-15
Chloroform		6.1		0.98	ug/m3	TO-15
Benzene		0.21		0.20	ppb v/v	TO-15
Benzene		0.65		0.64	ug/m3	TO-15
n-Heptane		0.34		0.20	ppb v/v	TO-15
n-Heptane		1.4		0.82	ug/m3	TO-15
Toluene		0.26		0.20	ppb v/v	TO-15
Toluene		0.99		0.75	ug/m3	TO-15
200-21380-2	**OFFICE-SS-031114**					
1,3-Butadiene		0.83		0.20	ppb v/v	TO-15
1,3-Butadiene		1.8		0.44	ug/m3	TO-15
Trichlorofluoromethane		0.34		0.20	ppb v/v	TO-15
Trichlorofluoromethane		1.9		1.1	ug/m3	TO-15
Freon TF		0.69		0.20	ppb v/v	TO-15
Freon TF		5.3		1.5	ug/m3	TO-15
Acetone		8.9		5.0	ppb v/v	TO-15
Acetone		21		12	ug/m3	TO-15
n-Hexane		1.4		0.20	ppb v/v	TO-15
n-Hexane		5.1		0.70	ug/m3	TO-15
Methyl Ethyl Ketone		1.4		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		4.2		1.5	ug/m3	TO-15
cis-1,2-Dichloroethene		0.77		0.20	ppb v/v	TO-15
cis-1,2-Dichloroethene		3.0		0.79	ug/m3	TO-15
Chloroform		0.28		0.20	ppb v/v	TO-15
Chloroform		1.3		0.98	ug/m3	TO-15
Cyclohexane		0.65		0.20	ppb v/v	TO-15
Cyclohexane		2.2		0.69	ug/m3	TO-15
Benzene		1.6		0.20	ppb v/v	TO-15
Benzene		5.2		0.64	ug/m3	TO-15
n-Heptane		1.6		0.20	ppb v/v	TO-15
n-Heptane		6.4		0.82	ug/m3	TO-15
Trichloroethene		20		0.20	ppb v/v	TO-15
Trichloroethene		110		1.1	ug/m3	TO-15
Toluene		1.9		0.20	ppb v/v	TO-15

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Toluene		7.3		0.75	ug/m3	TO-15
Ethylbenzene		0.26		0.20	ppb v/v	TO-15
Ethylbenzene		1.1		0.87	ug/m3	TO-15
m,p-Xylene		1.0		0.50	ppb v/v	TO-15
m,p-Xylene		4.3		2.2	ug/m3	TO-15
Xylene, o-		0.34		0.20	ppb v/v	TO-15
Xylene, o-		1.5		0.87	ug/m3	TO-15
200-21380-3	**SEATING-INDOOR-031114**					
Dichlorodifluoromethane		0.58		0.50	ppb v/v	TO-15
Dichlorodifluoromethane		2.9		2.5	ug/m3	TO-15
Chloromethane		0.57		0.50	ppb v/v	TO-15
Chloromethane		1.2		1.0	ug/m3	TO-15
Trichlorofluoromethane		0.26		0.20	ppb v/v	TO-15
Trichlorofluoromethane		1.5		1.1	ug/m3	TO-15
Acetone		6.8		5.0	ppb v/v	TO-15
Acetone		16		12	ug/m3	TO-15
Methylene Chloride		1.0		0.50	ppb v/v	TO-15
Methylene Chloride		3.5		1.7	ug/m3	TO-15
Methyl Ethyl Ketone		0.79		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		2.3		1.5	ug/m3	TO-15
Chloroform		0.37		0.20	ppb v/v	TO-15
Chloroform		1.8		0.98	ug/m3	TO-15
Benzene		0.24		0.20	ppb v/v	TO-15
Benzene		0.78		0.64	ug/m3	TO-15
Toluene		0.25		0.20	ppb v/v	TO-15
Toluene		0.93		0.75	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-21380-4	**SEATING-SS-031114**					
Dichlorodifluoromethane		63		2.0	ppb v/v	TO-15
Dichlorodifluoromethane		310		9.9	ug/m3	TO-15
1,3-Butadiene		11		0.80	ppb v/v	TO-15
1,3-Butadiene		23		1.8	ug/m3	TO-15
Trichlorofluoromethane		1.2		0.80	ppb v/v	TO-15
Trichlorofluoromethane		7.0		4.5	ug/m3	TO-15
Freon TF		1.0		0.80	ppb v/v	TO-15
Freon TF		7.7		6.1	ug/m3	TO-15
Acetone		98		20	ppb v/v	TO-15
Acetone		230		48	ug/m3	TO-15
Carbon disulfide		16		2.0	ppb v/v	TO-15
Carbon disulfide		49		6.2	ug/m3	TO-15
n-Hexane		7.9		0.80	ppb v/v	TO-15
n-Hexane		28		2.8	ug/m3	TO-15
Methyl Ethyl Ketone		31		2.0	ppb v/v	TO-15
Methyl Ethyl Ketone		91		5.9	ug/m3	TO-15
Cyclohexane		3.7		0.80	ppb v/v	TO-15
Cyclohexane		13		2.8	ug/m3	TO-15
Benzene		12		0.80	ppb v/v	TO-15
Benzene		38		2.6	ug/m3	TO-15
n-Heptane		6.7		0.80	ppb v/v	TO-15
n-Heptane		27		3.3	ug/m3	TO-15
Toluene		8.0		0.80	ppb v/v	TO-15
Toluene		30		3.0	ug/m3	TO-15
Xylene, o-		0.87		0.80	ppb v/v	TO-15
Xylene, o-		3.8		3.5	ug/m3	TO-15

METHOD SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Description	Lab Location	Method	Preparation Method
Matrix: Air			
Volatile Organic Compounds in Ambient Air	TAL BUR	EPA TO-15	
Collection via Summa Canister	TAL BUR		Summa Canister

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Method	Analyst	Analyst ID
EPA TO-15	Daigle, Paul A	PAD

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Client Sample ID: **OFFICE-INDOOR-031114**

Lab Sample ID: 200-21380-1
Client Matrix: Air

Date Sampled: 03/12/2014 0830
Date Received: 03/13/2014 1230

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-69697	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	6619_023.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	03/21/2014 0446			Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 0446			Injection Volume:	5 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.50	U	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20
Chloromethane	0.50	U	0.50
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.20	U	0.20
Bromomethane	0.20	U	0.20
Chloroethane	0.50	U	0.50
Trichlorofluoromethane	0.23		0.20
Freon TF	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	6.7		5.0
Carbon disulfide	0.50	U	0.50
Methylene Chloride	0.54		0.50
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
n-Hexane	0.47		0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	0.85		0.50
cis-1,2-Dichloroethene	0.20	U	0.20
Chloroform	1.3		0.20
Tetrahydrofuran	5.0	U	5.0
1,1,1-Trichloroethane	0.20	U	0.20
Cyclohexane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Benzene	0.21		0.20
1,2-Dichloroethane	0.20	U	0.20
n-Heptane	0.34		0.20
Trichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.50	U	0.50
Toluene	0.26		0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.20	U	0.20
m,p-Xylene	0.50	U	0.50
Xylene, o-	0.20	U	0.20
Styrene	0.20	U	0.20
Bromoform	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Client Sample ID: **OFFICE-INDOOR-031114**

Lab Sample ID: 200-21380-1
Client Matrix: Air

Date Sampled: 03/12/2014 0830
Date Received: 03/13/2014 1230

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-69697	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	6619_023.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	03/21/2014 0446			Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 0446			Injection Volume:	5 mL

Analyte	Result (ppb v/v)	Qualifier	RL
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20
1,2,4-Trichlorobenzene	0.50	U	0.50
Hexachlorobutadiene	0.20	U	0.20

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.5	U	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4
Chloromethane	1.0	U	1.0
Vinyl chloride	0.51	U	0.51
1,3-Butadiene	0.44	U	0.44
Bromomethane	0.78	U	0.78
Chloroethane	1.3	U	1.3
Trichlorofluoromethane	1.3		1.1
Freon TF	1.5	U	1.5
1,1-Dichloroethene	0.79	U	0.79
Acetone	16		12
Carbon disulfide	1.6	U	1.6
Methylene Chloride	1.9		1.7
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
n-Hexane	1.7		0.70
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	2.5		1.5
cis-1,2-Dichloroethene	0.79	U	0.79
Chloroform	6.1		0.98
Tetrahydrofuran	15	U	15
1,1,1-Trichloroethane	1.1	U	1.1
Cyclohexane	0.69	U	0.69
Carbon tetrachloride	1.3	U	1.3
Benzene	0.65		0.64
1,2-Dichloroethane	0.81	U	0.81
n-Heptane	1.4		0.82
Trichloroethene	1.1	U	1.1
1,2-Dichloropropane	0.92	U	0.92
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	2.0	U	2.0
Toluene	0.99		0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	1.4	U	1.4

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Client Sample ID: **OFFICE-INDOOR-031114**

Lab Sample ID: 200-21380-1
Client Matrix: Air

Date Sampled: 03/12/2014 0830
Date Received: 03/13/2014 1230

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-69697	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	6619_023.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	03/21/2014 0446			Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 0446			Injection Volume:	5 mL

Analyte	Result (ug/m3)	Qualifier	RL
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	0.87	U	0.87
m,p-Xylene	2.2	U	2.2
Xylene, o-	0.87	U	0.87
Styrene	0.85	U	0.85
Bromoform	2.1	U	2.1
1,1,2,2-Tetrachloroethane	1.4	U	1.4
4-Ethyltoluene	0.98	U	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98
1,2,4-Trimethylbenzene	0.98	U	0.98
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
1,2-Dichlorobenzene	1.2	U	1.2
1,2,4-Trichlorobenzene	3.7	U	3.7
Hexachlorobutadiene	2.1	U	2.1

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Client Sample ID: **OFFICE-SS-031114**

Lab Sample ID: 200-21380-2
Client Matrix: Air

Date Sampled: 03/12/2014 0920
Date Received: 03/13/2014 1230

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-69742	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	6635_008.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	03/21/2014 1517			Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 1517			Injection Volume:	5 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.50	U	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20
Chloromethane	0.50	U	0.50
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.83		0.20
Bromomethane	0.20	U	0.20
Chloroethane	0.50	U	0.50
Trichlorofluoromethane	0.34		0.20
Freon TF	0.69		0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	8.9		5.0
Carbon disulfide	0.50	U	0.50
Methylene Chloride	0.50	U	0.50
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
n-Hexane	1.4		0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	1.4		0.50
cis-1,2-Dichloroethene	0.77		0.20
Chloroform	0.28		0.20
Tetrahydrofuran	5.0	U	5.0
1,1,1-Trichloroethane	0.20	U	0.20
Cyclohexane	0.65		0.20
Carbon tetrachloride	0.20	U	0.20
Benzene	1.6		0.20
1,2-Dichloroethane	0.20	U	0.20
n-Heptane	1.6		0.20
Trichloroethene	20		0.20
1,2-Dichloropropane	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.50	U	0.50
Toluene	1.9		0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.26		0.20
m,p-Xylene	1.0		0.50
Xylene, o-	0.34		0.20
Styrene	0.20	U	0.20
Bromoform	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Client Sample ID: **OFFICE-SS-031114**

Lab Sample ID: 200-21380-2
Client Matrix: Air

Date Sampled: 03/12/2014 0920
Date Received: 03/13/2014 1230

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-69742	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	6635_008.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	03/21/2014 1517			Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 1517			Injection Volume:	5 mL

Analyte	Result (ppb v/v)	Qualifier	RL
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20
1,2,4-Trichlorobenzene	0.50	U	0.50
Hexachlorobutadiene	0.20	U	0.20

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.5	U	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4
Chloromethane	1.0	U	1.0
Vinyl chloride	0.51	U	0.51
1,3-Butadiene	1.8		0.44
Bromomethane	0.78	U	0.78
Chloroethane	1.3	U	1.3
Trichlorofluoromethane	1.9		1.1
Freon TF	5.3		1.5
1,1-Dichloroethene	0.79	U	0.79
Acetone	21		12
Carbon disulfide	1.6	U	1.6
Methylene Chloride	1.7	U	1.7
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
n-Hexane	5.1		0.70
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	4.2		1.5
cis-1,2-Dichloroethene	3.0		0.79
Chloroform	1.3		0.98
Tetrahydrofuran	15	U	15
1,1,1-Trichloroethane	1.1	U	1.1
Cyclohexane	2.2		0.69
Carbon tetrachloride	1.3	U	1.3
Benzene	5.2		0.64
1,2-Dichloroethane	0.81	U	0.81
n-Heptane	6.4		0.82
Trichloroethene	110		1.1
1,2-Dichloropropane	0.92	U	0.92
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	2.0	U	2.0
Toluene	7.3		0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	1.4	U	1.4

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Client Sample ID: **OFFICE-SS-031114**

Lab Sample ID: 200-21380-2
Client Matrix: Air

Date Sampled: 03/12/2014 0920
Date Received: 03/13/2014 1230

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-69742	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	6635_008.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	03/21/2014 1517			Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 1517			Injection Volume:	5 mL

Analyte	Result (ug/m3)	Qualifier	RL
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	1.1		0.87
m,p-Xylene	4.3		2.2
Xylene, o-	1.5		0.87
Styrene	0.85	U	0.85
Bromoform	2.1	U	2.1
1,1,2,2-Tetrachloroethane	1.4	U	1.4
4-Ethyltoluene	0.98	U	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98
1,2,4-Trimethylbenzene	0.98	U	0.98
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
1,2-Dichlorobenzene	1.2	U	1.2
1,2,4-Trichlorobenzene	3.7	U	3.7
Hexachlorobutadiene	2.1	U	2.1

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Client Sample ID: **SEATING-INDOOR-031114**

Lab Sample ID: 200-21380-3
Client Matrix: Air

Date Sampled: 03/12/2014 0950
Date Received: 03/13/2014 1230

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-69697	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	6619_024.D
Dilution:	1.0			Initial Weight/Volume:	306 mL
Analysis Date:	03/21/2014 0538			Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 0538			Injection Volume:	5 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.58		0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20
Chloromethane	0.57		0.50
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.20	U	0.20
Bromomethane	0.20	U	0.20
Chloroethane	0.50	U	0.50
Trichlorofluoromethane	0.26		0.20
Freon TF	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	6.8		5.0
Carbon disulfide	0.50	U	0.50
Methylene Chloride	1.0		0.50
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
n-Hexane	0.20	U	0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	0.79		0.50
cis-1,2-Dichloroethene	0.20	U	0.20
Chloroform	0.37		0.20
Tetrahydrofuran	5.0	U	5.0
1,1,1-Trichloroethane	0.20	U	0.20
Cyclohexane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Benzene	0.24		0.20
1,2-Dichloroethane	0.20	U	0.20
n-Heptane	0.20	U	0.20
Trichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.50	U	0.50
Toluene	0.25		0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.20	U	0.20
m,p-Xylene	0.50	U	0.50
Xylene, o-	0.20	U	0.20
Styrene	0.20	U	0.20
Bromoform	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Client Sample ID: **SEATING-INDOOR-031114**

Lab Sample ID: 200-21380-3
Client Matrix: Air

Date Sampled: 03/12/2014 0950
Date Received: 03/13/2014 1230

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-69697	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	6619_024.D
Dilution:	1.0			Initial Weight/Volume:	306 mL
Analysis Date:	03/21/2014 0538			Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 0538			Injection Volume:	5 mL

Analyte	Result (ppb v/v)	Qualifier	RL
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20
1,2,4-Trichlorobenzene	0.50	U	0.50
Hexachlorobutadiene	0.20	U	0.20

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.9		2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4
Chloromethane	1.2		1.0
Vinyl chloride	0.51	U	0.51
1,3-Butadiene	0.44	U	0.44
Bromomethane	0.78	U	0.78
Chloroethane	1.3	U	1.3
Trichlorofluoromethane	1.5		1.1
Freon TF	1.5	U	1.5
1,1-Dichloroethene	0.79	U	0.79
Acetone	16		12
Carbon disulfide	1.6	U	1.6
Methylene Chloride	3.5		1.7
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
n-Hexane	0.70	U	0.70
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	2.3		1.5
cis-1,2-Dichloroethene	0.79	U	0.79
Chloroform	1.8		0.98
Tetrahydrofuran	15	U	15
1,1,1-Trichloroethane	1.1	U	1.1
Cyclohexane	0.69	U	0.69
Carbon tetrachloride	1.3	U	1.3
Benzene	0.78		0.64
1,2-Dichloroethane	0.81	U	0.81
n-Heptane	0.82	U	0.82
Trichloroethene	1.1	U	1.1
1,2-Dichloropropane	0.92	U	0.92
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	2.0	U	2.0
Toluene	0.93		0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	1.4	U	1.4

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Client Sample ID: **SEATING-INDOOR-031114**

Lab Sample ID: 200-21380-3
Client Matrix: Air

Date Sampled: 03/12/2014 0950
Date Received: 03/13/2014 1230

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-69697	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	6619_024.D
Dilution:	1.0			Initial Weight/Volume:	306 mL
Analysis Date:	03/21/2014 0538			Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 0538			Injection Volume:	5 mL

Analyte	Result (ug/m3)	Qualifier	RL
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	0.87	U	0.87
m,p-Xylene	2.2	U	2.2
Xylene, o-	0.87	U	0.87
Styrene	0.85	U	0.85
Bromoform	2.1	U	2.1
1,1,2,2-Tetrachloroethane	1.4	U	1.4
4-Ethyltoluene	0.98	U	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98
1,2,4-Trimethylbenzene	0.98	U	0.98
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
1,2-Dichlorobenzene	1.2	U	1.2
1,2,4-Trichlorobenzene	3.7	U	3.7
Hexachlorobutadiene	2.1	U	2.1

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Client Sample ID: **SEATING-SS-031114**

Lab Sample ID: 200-21380-4
Client Matrix: Air

Date Sampled: 03/12/2014 0830
Date Received: 03/13/2014 1230

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-69742	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	6635_009.D
Dilution:	4.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/21/2014 1610			Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 1610			Injection Volume:	5 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	63		2.0
1,2-Dichlorotetrafluoroethane	0.80	U	0.80
Chloromethane	2.0	U	2.0
Vinyl chloride	0.80	U	0.80
1,3-Butadiene	11		0.80
Bromomethane	0.80	U	0.80
Chloroethane	2.0	U	2.0
Trichlorofluoromethane	1.2		0.80
Freon TF	1.0		0.80
1,1-Dichloroethene	0.80	U	0.80
Acetone	98		20
Carbon disulfide	16		2.0
Methylene Chloride	2.0	U	2.0
Methyl tert-butyl ether	0.80	U	0.80
trans-1,2-Dichloroethene	0.80	U	0.80
n-Hexane	7.9		0.80
1,1-Dichloroethane	0.80	U	0.80
Methyl Ethyl Ketone	31		2.0
cis-1,2-Dichloroethene	0.80	U	0.80
Chloroform	0.80	U	0.80
Tetrahydrofuran	20	U	20
1,1,1-Trichloroethane	0.80	U	0.80
Cyclohexane	3.7		0.80
Carbon tetrachloride	0.80	U	0.80
Benzene	12		0.80
1,2-Dichloroethane	0.80	U	0.80
n-Heptane	6.7		0.80
Trichloroethene	0.80	U	0.80
1,2-Dichloropropane	0.80	U	0.80
Bromodichloromethane	0.80	U	0.80
cis-1,3-Dichloropropene	0.80	U	0.80
methyl isobutyl ketone	2.0	U	2.0
Toluene	8.0		0.80
trans-1,3-Dichloropropene	0.80	U	0.80
1,1,2-Trichloroethane	0.80	U	0.80
Tetrachloroethene	0.80	U	0.80
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0
Dibromochloromethane	0.80	U	0.80
1,2-Dibromoethane	0.80	U	0.80
Chlorobenzene	0.80	U	0.80
Ethylbenzene	0.80	U	0.80
m,p-Xylene	2.0	U	2.0
Xylene, o-	0.87		0.80
Styrene	0.80	U	0.80
Bromoform	0.80	U	0.80
1,1,2,2-Tetrachloroethane	0.80	U	0.80

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Client Sample ID: **SEATING-SS-031114**

Lab Sample ID: 200-21380-4
Client Matrix: Air

Date Sampled: 03/12/2014 0830
Date Received: 03/13/2014 1230

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-69742	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	6635_009.D
Dilution:	4.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/21/2014 1610			Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 1610			Injection Volume:	5 mL

Analyte	Result (ppb v/v)	Qualifier	RL
4-Ethyltoluene	0.80	U	0.80
1,3,5-Trimethylbenzene	0.80	U	0.80
1,2,4-Trimethylbenzene	0.80	U	0.80
1,3-Dichlorobenzene	0.80	U	0.80
1,4-Dichlorobenzene	0.80	U	0.80
1,2-Dichlorobenzene	0.80	U	0.80
1,2,4-Trichlorobenzene	2.0	U	2.0
Hexachlorobutadiene	0.80	U	0.80

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	310		9.9
1,2-Dichlorotetrafluoroethane	5.6	U	5.6
Chloromethane	4.1	U	4.1
Vinyl chloride	2.0	U	2.0
1,3-Butadiene	23		1.8
Bromomethane	3.1	U	3.1
Chloroethane	5.3	U	5.3
Trichlorofluoromethane	7.0		4.5
Freon TF	7.7		6.1
1,1-Dichloroethene	3.2	U	3.2
Acetone	230		48
Carbon disulfide	49		6.2
Methylene Chloride	6.9	U	6.9
Methyl tert-butyl ether	2.9	U	2.9
trans-1,2-Dichloroethene	3.2	U	3.2
n-Hexane	28		2.8
1,1-Dichloroethane	3.2	U	3.2
Methyl Ethyl Ketone	91		5.9
cis-1,2-Dichloroethene	3.2	U	3.2
Chloroform	3.9	U	3.9
Tetrahydrofuran	59	U	59
1,1,1-Trichloroethane	4.4	U	4.4
Cyclohexane	13		2.8
Carbon tetrachloride	5.0	U	5.0
Benzene	38		2.6
1,2-Dichloroethane	3.2	U	3.2
n-Heptane	27		3.3
Trichloroethene	4.3	U	4.3
1,2-Dichloropropane	3.7	U	3.7
Bromodichloromethane	5.4	U	5.4
cis-1,3-Dichloropropene	3.6	U	3.6
methyl isobutyl ketone	8.2	U	8.2
Toluene	30		3.0
trans-1,3-Dichloropropene	3.6	U	3.6
1,1,2-Trichloroethane	4.4	U	4.4
Tetrachloroethene	5.4	U	5.4

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Client Sample ID: **SEATING-SS-031114**

Lab Sample ID: 200-21380-4
Client Matrix: Air

Date Sampled: 03/12/2014 0830
Date Received: 03/13/2014 1230

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-69742	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	6635_009.D
Dilution:	4.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/21/2014 1610			Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 1610			Injection Volume:	5 mL

Analyte	Result (ug/m3)	Qualifier	RL
Methyl Butyl Ketone (2-Hexanone)	8.2	U	8.2
Dibromochloromethane	6.8	U	6.8
1,2-Dibromoethane	6.1	U	6.1
Chlorobenzene	3.7	U	3.7
Ethylbenzene	3.5	U	3.5
m,p-Xylene	8.7	U	8.7
Xylene, o-	3.8		3.5
Styrene	3.4	U	3.4
Bromoform	8.3	U	8.3
1,1,2,2-Tetrachloroethane	5.5	U	5.5
4-Ethyltoluene	3.9	U	3.9
1,3,5-Trimethylbenzene	3.9	U	3.9
1,2,4-Trimethylbenzene	3.9	U	3.9
1,3-Dichlorobenzene	4.8	U	4.8
1,4-Dichlorobenzene	4.8	U	4.8
1,2-Dichlorobenzene	4.8	U	4.8
1,2,4-Trichlorobenzene	15	U	15
Hexachlorobutadiene	8.5	U	8.5

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Method Blank - Batch: 200-69697

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-69697/4	Analysis Batch:	200-69697	Instrument ID:	CHB.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	6619_004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/20/2014 1212	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/20/2014 1212			Injection Volume:	5 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dichlorodifluoromethane	0.50	U	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20
Chloromethane	0.50	U	0.50
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.20	U	0.20
Bromomethane	0.20	U	0.20
Chloroethane	0.50	U	0.50
Trichlorofluoromethane	0.20	U	0.20
Freon TF	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	5.0	U	5.0
Carbon disulfide	0.50	U	0.50
Methylene Chloride	0.50	U	0.50
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
n-Hexane	0.20	U	0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	0.50	U	0.50
cis-1,2-Dichloroethene	0.20	U	0.20
Chloroform	0.20	U	0.20
Tetrahydrofuran	5.0	U	5.0
1,1,1-Trichloroethane	0.20	U	0.20
Cyclohexane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Benzene	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
n-Heptane	0.20	U	0.20
Trichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.50	U	0.50
Toluene	0.20	U	0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.20	U	0.20
m,p-Xylene	0.50	U	0.50
Xylene, o-	0.20	U	0.20
Styrene	0.20	U	0.20
Bromoform	0.20	U	0.20

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Method Blank - Batch: 200-69697

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-69697/4	Analysis Batch:	200-69697	Instrument ID:	CHB.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	6619_004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/20/2014 1212	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/20/2014 1212			Injection Volume:	5 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
1,1,2,2-Tetrachloroethane	0.20	U	0.20
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20
1,2,4-Trichlorobenzene	0.50	U	0.50
Hexachlorobutadiene	0.20	U	0.20

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Method Blank - Batch: 200-69697

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-69697/4	Analysis Batch:	200-69697	Instrument ID:	CHB.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	6619_004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/20/2014 1212	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	03/20/2014 1212			Injection Volume:	5 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dichlorodifluoromethane	2.5	U	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4
Chloromethane	1.0	U	1.0
Vinyl chloride	0.51	U	0.51
1,3-Butadiene	0.44	U	0.44
Bromomethane	0.78	U	0.78
Chloroethane	1.3	U	1.3
Trichlorofluoromethane	1.1	U	1.1
Freon TF	1.5	U	1.5
1,1-Dichloroethene	0.79	U	0.79
Acetone	12	U	12
Carbon disulfide	1.6	U	1.6
Methylene Chloride	1.7	U	1.7
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
n-Hexane	0.70	U	0.70
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	1.5	U	1.5
cis-1,2-Dichloroethene	0.79	U	0.79
Chloroform	0.98	U	0.98
Tetrahydrofuran	15	U	15
1,1,1-Trichloroethane	1.1	U	1.1
Cyclohexane	0.69	U	0.69
Carbon tetrachloride	1.3	U	1.3
Benzene	0.64	U	0.64
1,2-Dichloroethane	0.81	U	0.81
n-Heptane	0.82	U	0.82
Trichloroethene	1.1	U	1.1
1,2-Dichloropropane	0.92	U	0.92
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	2.0	U	2.0
Toluene	0.75	U	0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	1.4	U	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	0.87	U	0.87
m,p-Xylene	2.2	U	2.2
Xylene, o-	0.87	U	0.87
Styrene	0.85	U	0.85
Bromoform	2.1	U	2.1

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Method Blank - Batch: 200-69697

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-69697/4	Analysis Batch:	200-69697	Instrument ID:	CHB.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	6619_004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/20/2014 1212	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	03/20/2014 1212			Injection Volume:	5 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
1,1,2,2-Tetrachloroethane	1.4	U	1.4
4-Ethyltoluene	0.98	U	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98
1,2,4-Trimethylbenzene	0.98	U	0.98
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
1,2-Dichlorobenzene	1.2	U	1.2
1,2,4-Trichlorobenzene	3.7	U	3.7
Hexachlorobutadiene	2.1	U	2.1

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Lab Control Sample - Batch: 200-69697

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-69697/3	Analysis Batch:	200-69697	Instrument ID:	CHB.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	6619_003.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/20/2014 1119	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/20/2014 1119			Injection Volume:	5 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	10.0	8.50	85	70 - 130	
1,2-Dichlorotetrafluoroethane	10.0	9.10	91	70 - 130	
Chloromethane	10.0	7.70	77	70 - 130	
Vinyl chloride	10.0	7.82	78	70 - 130	
1,3-Butadiene	10.0	7.85	78	70 - 130	
Bromomethane	10.0	8.69	87	70 - 130	
Chloroethane	10.0	8.70	87	70 - 130	
Trichlorofluoromethane	10.0	8.86	89	70 - 130	
Freon TF	10.0	8.88	89	70 - 130	
1,1-Dichloroethene	10.0	8.89	89	70 - 130	
Acetone	10.0	8.86	89	70 - 130	
Carbon disulfide	10.0	10.0	100	70 - 130	
Methylene Chloride	10.0	8.05	81	70 - 130	
Methyl tert-butyl ether	10.0	8.88	89	70 - 130	
trans-1,2-Dichloroethene	10.0	8.96	90	70 - 130	
n-Hexane	10.0	8.93	89	70 - 130	
1,1-Dichloroethane	10.0	8.14	81	70 - 130	
Methyl Ethyl Ketone	10.0	8.25	83	70 - 130	
cis-1,2-Dichloroethene	10.0	8.85	89	70 - 130	
Chloroform	10.0	8.84	88	70 - 130	
Tetrahydrofuran	10.0	9.11	91	70 - 130	
1,1,1-Trichloroethane	10.0	9.21	92	70 - 130	
Cyclohexane	10.0	9.34	93	70 - 130	
Carbon tetrachloride	10.0	9.03	90	70 - 130	
Benzene	10.0	8.82	88	70 - 130	
1,2-Dichloroethane	10.0	8.63	86	70 - 130	
n-Heptane	10.0	8.04	80	70 - 130	
Trichloroethene	10.0	8.89	89	70 - 130	
1,2-Dichloropropane	10.0	8.51	85	70 - 130	
Bromodichloromethane	10.0	8.90	89	70 - 130	
cis-1,3-Dichloropropene	10.0	8.99	90	70 - 130	
methyl isobutyl ketone	10.0	8.56	86	70 - 130	
Toluene	10.0	9.08	91	70 - 130	
trans-1,3-Dichloropropene	10.0	9.08	91	70 - 130	
1,1,2-Trichloroethane	10.0	8.93	89	70 - 130	
Tetrachloroethene	10.0	9.34	93	70 - 130	
Methyl Butyl Ketone (2-Hexanone)	10.0	8.42	84	70 - 130	
Dibromochloromethane	10.0	9.17	92	70 - 130	
1,2-Dibromoethane	10.0	9.34	93	70 - 130	
Chlorobenzene	10.0	9.17	92	70 - 130	
Ethylbenzene	10.0	9.08	91	70 - 130	
m,p-Xylene	20.0	18.6	93	70 - 130	
Xylene, o-	10.0	9.19	92	70 - 130	
Styrene	10.0	9.33	93	70 - 130	
Bromoform	10.0	9.52	95	70 - 130	
1,1,2,2-Tetrachloroethane	10.0	9.00	90	70 - 130	

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Lab Control Sample - Batch: 200-69697

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-69697/3	Analysis Batch:	200-69697	Instrument ID:	CHB.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	6619_003.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/20/2014 1119	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/20/2014 1119			Injection Volume:	5 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4-Ethyltoluene	10.0	9.43	94	70 - 130	
1,3,5-Trimethylbenzene	10.0	9.20	92	70 - 130	
1,2,4-Trimethylbenzene	10.0	9.01	90	70 - 130	
1,3-Dichlorobenzene	10.0	9.49	95	70 - 130	
1,4-Dichlorobenzene	10.0	9.52	95	70 - 130	
1,2-Dichlorobenzene	10.0	9.49	95	70 - 130	
1,2,4-Trichlorobenzene	10.0	8.99	90	70 - 130	
Hexachlorobutadiene	10.0	9.15	92	70 - 130	

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Method Blank - Batch: 200-69742

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-69742/4	Analysis Batch:	200-69742	Instrument ID:	CHB.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	6635_004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/21/2014 1149	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 1149			Injection Volume:	5 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dichlorodifluoromethane	0.50	U	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20
Chloromethane	0.50	U	0.50
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.20	U	0.20
Bromomethane	0.20	U	0.20
Chloroethane	0.50	U	0.50
Trichlorofluoromethane	0.20	U	0.20
Freon TF	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	5.0	U	5.0
Carbon disulfide	0.50	U	0.50
Methylene Chloride	0.50	U	0.50
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
n-Hexane	0.20	U	0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	0.50	U	0.50
cis-1,2-Dichloroethene	0.20	U	0.20
Chloroform	0.20	U	0.20
Tetrahydrofuran	5.0	U	5.0
1,1,1-Trichloroethane	0.20	U	0.20
Cyclohexane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Benzene	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
n-Heptane	0.20	U	0.20
Trichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.50	U	0.50
Toluene	0.20	U	0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.20	U	0.20
m,p-Xylene	0.50	U	0.50
Xylene, o-	0.20	U	0.20
Styrene	0.20	U	0.20
Bromoform	0.20	U	0.20

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Method Blank - Batch: 200-69742

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-69742/4	Analysis Batch:	200-69742	Instrument ID:	CHB.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	6635_004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/21/2014 1149	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 1149			Injection Volume:	5 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
1,1,2,2-Tetrachloroethane	0.20	U	0.20
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20
1,2,4-Trichlorobenzene	0.50	U	0.50
Hexachlorobutadiene	0.20	U	0.20

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Method Blank - Batch: 200-69742

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-69742/4	Analysis Batch:	200-69742	Instrument ID:	CHB.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	6635_004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/21/2014 1149	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 1149			Injection Volume:	5 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dichlorodifluoromethane	2.5	U	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4
Chloromethane	1.0	U	1.0
Vinyl chloride	0.51	U	0.51
1,3-Butadiene	0.44	U	0.44
Bromomethane	0.78	U	0.78
Chloroethane	1.3	U	1.3
Trichlorofluoromethane	1.1	U	1.1
Freon TF	1.5	U	1.5
1,1-Dichloroethene	0.79	U	0.79
Acetone	12	U	12
Carbon disulfide	1.6	U	1.6
Methylene Chloride	1.7	U	1.7
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
n-Hexane	0.70	U	0.70
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	1.5	U	1.5
cis-1,2-Dichloroethene	0.79	U	0.79
Chloroform	0.98	U	0.98
Tetrahydrofuran	15	U	15
1,1,1-Trichloroethane	1.1	U	1.1
Cyclohexane	0.69	U	0.69
Carbon tetrachloride	1.3	U	1.3
Benzene	0.64	U	0.64
1,2-Dichloroethane	0.81	U	0.81
n-Heptane	0.82	U	0.82
Trichloroethene	1.1	U	1.1
1,2-Dichloropropane	0.92	U	0.92
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	2.0	U	2.0
Toluene	0.75	U	0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	1.4	U	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	0.87	U	0.87
m,p-Xylene	2.2	U	2.2
Xylene, o-	0.87	U	0.87
Styrene	0.85	U	0.85
Bromoform	2.1	U	2.1

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Method Blank - Batch: 200-69742

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-69742/4	Analysis Batch:	200-69742	Instrument ID:	CHB.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	6635_004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/21/2014 1149	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 1149			Injection Volume:	5 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
1,1,2,2-Tetrachloroethane	1.4	U	1.4
4-Ethyltoluene	0.98	U	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98
1,2,4-Trimethylbenzene	0.98	U	0.98
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
1,2-Dichlorobenzene	1.2	U	1.2
1,2,4-Trichlorobenzene	3.7	U	3.7
Hexachlorobutadiene	2.1	U	2.1

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Lab Control Sample - Batch: 200-69742

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-69742/3	Analysis Batch:	200-69742	Instrument ID:	CHB.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	6635_003.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/21/2014 1056	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 1056			Injection Volume:	5 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	10.0	9.27	93	70 - 130	
1,2-Dichlorotetrafluoroethane	10.0	9.48	95	70 - 130	
Chloromethane	10.0	7.64	76	70 - 130	
Vinyl chloride	10.0	7.91	79	70 - 130	
1,3-Butadiene	10.0	7.93	79	70 - 130	
Bromomethane	10.0	9.02	90	70 - 130	
Chloroethane	10.0	9.03	90	70 - 130	
Trichlorofluoromethane	10.0	9.29	93	70 - 130	
Freon TF	10.0	8.84	88	70 - 130	
1,1-Dichloroethene	10.0	8.71	87	70 - 130	
Acetone	10.0	9.69	97	70 - 130	
Carbon disulfide	10.0	10.1	101	70 - 130	
Methylene Chloride	10.0	8.81	88	70 - 130	
Methyl tert-butyl ether	10.0	8.79	88	70 - 130	
trans-1,2-Dichloroethene	10.0	9.33	93	70 - 130	
n-Hexane	10.0	9.27	93	70 - 130	
1,1-Dichloroethane	10.0	8.48	85	70 - 130	
Methyl Ethyl Ketone	10.0	8.43	84	70 - 130	
cis-1,2-Dichloroethene	10.0	8.83	88	70 - 130	
Chloroform	10.0	8.93	89	70 - 130	
Tetrahydrofuran	10.0	10.2	102	70 - 130	
1,1,1-Trichloroethane	10.0	9.63	96	70 - 130	
Cyclohexane	10.0	9.52	95	70 - 130	
Carbon tetrachloride	10.0	9.23	92	70 - 130	
Benzene	10.0	9.08	91	70 - 130	
1,2-Dichloroethane	10.0	9.27	93	70 - 130	
n-Heptane	10.0	9.01	90	70 - 130	
Trichloroethene	10.0	9.15	91	70 - 130	
1,2-Dichloropropane	10.0	9.09	91	70 - 130	
Bromodichloromethane	10.0	9.30	93	70 - 130	
cis-1,3-Dichloropropene	10.0	9.31	93	70 - 130	
methyl isobutyl ketone	10.0	9.62	96	70 - 130	
Toluene	10.0	9.02	90	70 - 130	
trans-1,3-Dichloropropene	10.0	9.41	94	70 - 130	
1,1,2-Trichloroethane	10.0	9.13	91	70 - 130	
Tetrachloroethene	10.0	9.37	94	70 - 130	
Methyl Butyl Ketone (2-Hexanone)	10.0	9.33	93	70 - 130	
Dibromochloromethane	10.0	9.32	93	70 - 130	
1,2-Dibromoethane	10.0	9.38	94	70 - 130	
Chlorobenzene	10.0	9.08	91	70 - 130	
Ethylbenzene	10.0	9.43	94	70 - 130	
m,p-Xylene	20.0	18.9	95	70 - 130	
Xylene, o-	10.0	9.16	92	70 - 130	
Styrene	10.0	9.36	94	70 - 130	
Bromoform	10.0	9.84	98	70 - 130	
1,1,2,2-Tetrachloroethane	10.0	9.34	93	70 - 130	

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Lab Control Sample - Batch: 200-69742

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-69742/3	Analysis Batch:	200-69742	Instrument ID:	CHB.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	6635_003.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/21/2014 1056	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/21/2014 1056			Injection Volume:	5 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4-Ethyltoluene	10.0	9.52	95	70 - 130	
1,3,5-Trimethylbenzene	10.0	9.35	93	70 - 130	
1,2,4-Trimethylbenzene	10.0	9.07	91	70 - 130	
1,3-Dichlorobenzene	10.0	9.50	95	70 - 130	
1,4-Dichlorobenzene	10.0	9.55	96	70 - 130	
1,2-Dichlorobenzene	10.0	9.44	94	70 - 130	
1,2,4-Trichlorobenzene	10.0	8.91	89	70 - 130	
Hexachlorobutadiene	10.0	9.53	95	70 - 130	

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

Lab Section	Qualifier	Description
Air - GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
Sdg Number: 200-21380

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Air - GC/MS VOA					
Analysis Batch:200-69697					
LCS 200-69697/3	Lab Control Sample	T	Air	TO-15	
MB 200-69697/4	Method Blank	T	Air	TO-15	
200-21380-1	OFFICE-INDOOR-031114	T	Air	TO-15	
200-21380-3	SEATING-INDOOR-031114	T	Air	TO-15	
Analysis Batch:200-69742					
LCS 200-69742/3	Lab Control Sample	T	Air	TO-15	
MB 200-69742/4	Method Blank	T	Air	TO-15	
200-21380-2	OFFICE-SS-031114	T	Air	TO-15	
200-21380-4	SEATING-SS-031114	T	Air	TO-15	

Report Basis
T = Total

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
SDG: 200-21380

Laboratory Chronicle

Lab ID: 200-21380-1 **Client ID:** OFFICE-INDOOR-031114

Sample Date/Time: 03/12/2014 08:30 Received Date/Time: 03/13/2014 12:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-21380-A-1		200-69697		03/21/2014 04:46	1	TAL BUR	PAD
A:TO-15	200-21380-A-1		200-69697		03/21/2014 04:46	1	TAL BUR	PAD

Lab ID: 200-21380-2 **Client ID:** OFFICE-SS-031114

Sample Date/Time: 03/12/2014 09:20 Received Date/Time: 03/13/2014 12:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-21380-A-2		200-69742		03/21/2014 15:17	1	TAL BUR	PAD
A:TO-15	200-21380-A-2		200-69742		03/21/2014 15:17	1	TAL BUR	PAD

Lab ID: 200-21380-3 **Client ID:** SEATING-INDOOR-031114

Sample Date/Time: 03/12/2014 09:50 Received Date/Time: 03/13/2014 12:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-21380-A-3		200-69697		03/21/2014 05:38	1	TAL BUR	PAD
A:TO-15	200-21380-A-3		200-69697		03/21/2014 05:38	1	TAL BUR	PAD

Lab ID: 200-21380-4 **Client ID:** SEATING-SS-031114

Sample Date/Time: 03/12/2014 08:30 Received Date/Time: 03/13/2014 12:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-21380-A-4		200-69742		03/21/2014 16:10	4	TAL BUR	PAD
A:TO-15	200-21380-A-4		200-69742		03/21/2014 16:10	4	TAL BUR	PAD

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	MB 200-69697/4		200-69697		03/20/2014 12:12	1	TAL BUR	PAD
A:TO-15	MB 200-69697/4		200-69697		03/20/2014 12:12	1	TAL BUR	PAD
P:Summa Canister	MB 200-69742/4		200-69742		03/21/2014 11:49	1	TAL BUR	PAD
A:TO-15	MB 200-69742/4		200-69742		03/21/2014 11:49	1	TAL BUR	PAD

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
SDG: 200-21380

Laboratory Chronicle

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	LCS 200-69697/3		200-69697		03/20/2014 11:19	1	TAL BUR	PAD
A:TO-15	LCS 200-69697/3		200-69697		03/20/2014 11:19	1	TAL BUR	PAD
P:Summa Canister	LCS 200-69742/3		200-69742		03/21/2014 10:56	1	TAL BUR	PAD
A:TO-15	LCS 200-69742/3		200-69742		03/21/2014 10:56	1	TAL BUR	PAD

Lab References:
TAL BUR = TestAmerica Burlington

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Roehlen Engraving

TestAmerica Job ID: 200-21380-1
SDG: 200-21380

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Burlington	Connecticut	State Program	1	PH-0751
TestAmerica Burlington	DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA
TestAmerica Burlington	Florida	NELAP	4	E87467
TestAmerica Burlington	L-A-B	DoD ELAP		L2336
TestAmerica Burlington	Louisiana	NELAP	6	176292
TestAmerica Burlington	Maine	State Program	1	VT00008
TestAmerica Burlington	Minnesota	NELAP	5	050-999-436
TestAmerica Burlington	New Hampshire	NELAP	1	2006
TestAmerica Burlington	New Jersey	NELAP	2	VT972
TestAmerica Burlington	New York	NELAP	2	10391
TestAmerica Burlington	Pennsylvania	NELAP	3	68-00489
TestAmerica Burlington	Rhode Island	State Program	1	LAO00298
TestAmerica Burlington	US Fish & Wildlife	Federal		LE-058448-0
TestAmerica Burlington	USDA	Federal		P330-11-00093
TestAmerica Burlington	Vermont	State Program	1	VT-4000
TestAmerica Burlington	Virginia	NELAP	3	460209

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method TO15

Volatile Organic Compounds (GC/MS)
by Method TO15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Matrix: Air Level: Low Lab File ID: 6619_003.D

Lab ID: LCS 200-69697/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	8.50	85	70-130	
1,2-Dichlorotetrafluoroethane	10.0	9.10	91	70-130	
Chloromethane	10.0	7.70	77	70-130	
Vinyl chloride	10.0	7.82	78	70-130	
1,3-Butadiene	10.0	7.85	78	70-130	
Bromomethane	10.0	8.69	87	70-130	
Chloroethane	10.0	8.70	87	70-130	
Trichlorofluoromethane	10.0	8.86	89	70-130	
Freon TF	10.0	8.88	89	70-130	
1,1-Dichloroethene	10.0	8.89	89	70-130	
Acetone	10.0	8.86	89	70-130	
Carbon disulfide	10.0	10.0	100	70-130	
Methylene Chloride	10.0	8.05	81	70-130	
Methyl tert-butyl ether	10.0	8.88	89	70-130	
trans-1,2-Dichloroethene	10.0	8.96	90	70-130	
n-Hexane	10.0	8.93	89	70-130	
1,1-Dichloroethane	10.0	8.14	81	70-130	
Methyl Ethyl Ketone	10.0	8.25	83	70-130	
cis-1,2-Dichloroethene	10.0	8.85	89	70-130	
Chloroform	10.0	8.84	88	70-130	
Tetrahydrofuran	10.0	9.11	91	70-130	
1,1,1-Trichloroethane	10.0	9.21	92	70-130	
Cyclohexane	10.0	9.34	93	70-130	
Carbon tetrachloride	10.0	9.03	90	70-130	
Benzene	10.0	8.82	88	70-130	
1,2-Dichloroethane	10.0	8.63	86	70-130	
n-Heptane	10.0	8.04	80	70-130	
Trichloroethene	10.0	8.89	89	70-130	
1,2-Dichloropropane	10.0	8.51	85	70-130	
Bromodichloromethane	10.0	8.90	89	70-130	
cis-1,3-Dichloropropene	10.0	8.99	90	70-130	
methyl isobutyl ketone	10.0	8.56	86	70-130	
Toluene	10.0	9.08	91	70-130	
trans-1,3-Dichloropropene	10.0	9.08	91	70-130	
1,1,2-Trichloroethane	10.0	8.93	89	70-130	
Tetrachloroethene	10.0	9.34	93	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	8.42	84	70-130	
Dibromochloromethane	10.0	9.17	92	70-130	
1,2-Dibromoethane	10.0	9.34	93	70-130	
Chlorobenzene	10.0	9.17	92	70-130	
Ethylbenzene	10.0	9.08	91	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Matrix: Air Level: Low Lab File ID: 6619_003.D

Lab ID: LCS 200-69697/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
m,p-Xylene	20.0	18.6	93	70-130	
Xylene, o-	10.0	9.19	92	70-130	
Styrene	10.0	9.33	93	70-130	
Bromoform	10.0	9.52	95	70-130	
1,1,2,2-Tetrachloroethane	10.0	9.00	90	70-130	
4-Ethyltoluene	10.0	9.43	94	70-130	
1,3,5-Trimethylbenzene	10.0	9.20	92	70-130	
1,2,4-Trimethylbenzene	10.0	9.01	90	70-130	
1,3-Dichlorobenzene	10.0	9.49	95	70-130	
1,4-Dichlorobenzene	10.0	9.52	95	70-130	
1,2-Dichlorobenzene	10.0	9.49	95	70-130	
1,2,4-Trichlorobenzene	10.0	8.99	90	70-130	
Hexachlorobutadiene	10.0	9.15	92	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Matrix: Air Level: Low Lab File ID: 6635_003.D

Lab ID: LCS 200-69742/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	9.27	93	70-130	
1,2-Dichlorotetrafluoroethane	10.0	9.48	95	70-130	
Chloromethane	10.0	7.64	76	70-130	
Vinyl chloride	10.0	7.91	79	70-130	
1,3-Butadiene	10.0	7.93	79	70-130	
Bromomethane	10.0	9.02	90	70-130	
Chloroethane	10.0	9.03	90	70-130	
Trichlorofluoromethane	10.0	9.29	93	70-130	
Freon TF	10.0	8.84	88	70-130	
1,1-Dichloroethene	10.0	8.71	87	70-130	
Acetone	10.0	9.69	97	70-130	
Carbon disulfide	10.0	10.1	101	70-130	
Methylene Chloride	10.0	8.81	88	70-130	
Methyl tert-butyl ether	10.0	8.79	88	70-130	
trans-1,2-Dichloroethene	10.0	9.33	93	70-130	
n-Hexane	10.0	9.27	93	70-130	
1,1-Dichloroethane	10.0	8.48	85	70-130	
Methyl Ethyl Ketone	10.0	8.43	84	70-130	
cis-1,2-Dichloroethene	10.0	8.83	88	70-130	
Chloroform	10.0	8.93	89	70-130	
Tetrahydrofuran	10.0	10.2	102	70-130	
1,1,1-Trichloroethane	10.0	9.63	96	70-130	
Cyclohexane	10.0	9.52	95	70-130	
Carbon tetrachloride	10.0	9.23	92	70-130	
Benzene	10.0	9.08	91	70-130	
1,2-Dichloroethane	10.0	9.27	93	70-130	
n-Heptane	10.0	9.01	90	70-130	
Trichloroethene	10.0	9.15	91	70-130	
1,2-Dichloropropane	10.0	9.09	91	70-130	
Bromodichloromethane	10.0	9.30	93	70-130	
cis-1,3-Dichloropropene	10.0	9.31	93	70-130	
methyl isobutyl ketone	10.0	9.62	96	70-130	
Toluene	10.0	9.02	90	70-130	
trans-1,3-Dichloropropene	10.0	9.41	94	70-130	
1,1,2-Trichloroethane	10.0	9.13	91	70-130	
Tetrachloroethene	10.0	9.37	94	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	9.33	93	70-130	
Dibromochloromethane	10.0	9.32	93	70-130	
1,2-Dibromoethane	10.0	9.38	94	70-130	
Chlorobenzene	10.0	9.08	91	70-130	
Ethylbenzene	10.0	9.43	94	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Matrix: Air Level: Low Lab File ID: 6635_003.D

Lab ID: LCS 200-69742/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
m,p-Xylene	20.0	18.9	95	70-130	
Xylene, o-	10.0	9.16	92	70-130	
Styrene	10.0	9.36	94	70-130	
Bromoform	10.0	9.84	98	70-130	
1,1,2,2-Tetrachloroethane	10.0	9.34	93	70-130	
4-Ethyltoluene	10.0	9.52	95	70-130	
1,3,5-Trimethylbenzene	10.0	9.35	93	70-130	
1,2,4-Trimethylbenzene	10.0	9.07	91	70-130	
1,3-Dichlorobenzene	10.0	9.50	95	70-130	
1,4-Dichlorobenzene	10.0	9.55	96	70-130	
1,2-Dichlorobenzene	10.0	9.44	94	70-130	
1,2,4-Trichlorobenzene	10.0	8.91	89	70-130	
Hexachlorobutadiene	10.0	9.53	95	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Lab File ID: 6619_004.D Lab Sample ID: MB 200-69697/4

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: CHB.i Date Analyzed: 03/20/2014 12:12

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-69697/3	6619_003.D	03/20/2014 11:19
OFFICE-INDOOR-031114	200-21380-1	6619_023.D	03/21/2014 04:46
SEATING-INDOOR-031114	200-21380-3	6619_024.D	03/21/2014 05:38

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Lab File ID: 6635_004.D Lab Sample ID: MB 200-69742/4

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: CHB.i Date Analyzed: 03/21/2014 11:49

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-69742/3	6635_003.D	03/21/2014 10:56
OFFICE-SS-031114	200-21380-2	6635_008.D	03/21/2014 15:17
SEATING-SS-031114	200-21380-4	6635_009.D	03/21/2014 16:10

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Lab File ID: 6557_001.D BFB Injection Date: 03/14/2014

Instrument ID: CHB.i BFB Injection Time: 10:21

Analysis Batch No.: 69511

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	10.4	
75	30.0 - 66.0% of mass 95	38.6	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	102.0	
175	4.0 - 9.0 % of mass 174	7.3	(7.1)1
176	93.0 - 101.0% of mass 174	98.9	(97.0)1
177	5.0 - 9.0% of mass 176	6.5	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-69511/3	6557_003.D	03/14/2014	12:11
	IC 200-69511/4	6557_004.D	03/14/2014	13:03
	IC 200-69511/5	6557_005.D	03/14/2014	13:55
	IC 200-69511/6	6557_006.D	03/14/2014	14:47
	ICIS 200-69511/7	6557_007.D	03/14/2014	15:39
	IC 200-69511/8	6557_008.D	03/14/2014	16:31
	IC 200-69511/9	6557_009.D	03/14/2014	17:24
	IC 200-69511/10	6557_010.D	03/14/2014	18:16
	ICV 200-69511/13	6557_013.D	03/14/2014	20:54

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Lab File ID: 6619_001.D BFB Injection Date: 03/20/2014

Instrument ID: CHB.i BFB Injection Time: 09:34

Analysis Batch No.: 69697

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	10.2	
75	30.0 - 66.0% of mass 95	38.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	100.7	
175	4.0 - 9.0 % of mass 174	7.2	(7.1)1
176	93.0 - 101.0% of mass 174	98.1	(97.4)1
177	5.0 - 9.0% of mass 176	6.4	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-69697/2	6619_002.D	03/20/2014	10:27
	LCS 200-69697/3	6619_003.D	03/20/2014	11:19
	MB 200-69697/4	6619_004.D	03/20/2014	12:12
OFFICE-INDOOR-031114	200-21380-1	6619_023.D	03/21/2014	04:46
SEATING-INDOOR-031114	200-21380-3	6619_024.D	03/21/2014	05:38

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Lab File ID: 6635_001.D BFB Injection Date: 03/21/2014

Instrument ID: CHB.i BFB Injection Time: 09:11

Analysis Batch No.: 69742

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	10.6	
75	30.0 - 66.0% of mass 95	39.3	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.3	(0.3)1
174	50.0 - 120.0% of mass 95	103.6	
175	4.0 - 9.0 % of mass 174	7.2	(7.0)1
176	93.0 - 101.0% of mass 174	100.0	(96.6)1
177	5.0 - 9.0% of mass 176	6.7	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-69742/2	6635_002.D	03/21/2014	10:04
	LCS 200-69742/3	6635_003.D	03/21/2014	10:56
	MB 200-69742/4	6635_004.D	03/21/2014	11:49
OFFICE-SS-031114	200-21380-2	6635_008.D	03/21/2014	15:17
SEATING-SS-031114	200-21380-4	6635_009.D	03/21/2014	16:10

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Sample No.: ICIS 200-69511/7 Date Analyzed: 03/14/2014 15:39

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 6557_007.D Heated Purge: (Y/N) N

Calibration ID: 25935

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		675362	9.96	3332868	11.37	2921558	15.46
UPPER LIMIT		945507	10.29	4666015	11.70	4090181	15.79
LOWER LIMIT		405217	9.63	1999721	11.04	1752935	15.13
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-69511/13		693647	9.96	3447206	11.37	2967928	15.46

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Sample No.: CCVIS 200-69697/2 Date Analyzed: 03/20/2014 10:27

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 6619_002.D Heated Purge: (Y/N) N

Calibration ID: 25935

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		803453	9.96	3890911	11.37	3386739	15.46
UPPER LIMIT		1124834	10.29	5447275	11.70	4741435	15.79
LOWER LIMIT		482072	9.63	2334547	11.04	2032043	15.13
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-69697/3		798985	9.97	3901969	11.37	3416967	15.46
MB 200-69697/4		786800	9.96	3876043	11.36	3328327	15.45
200-21380-1	OFFICE-INDOOR-031114	649232	9.96	3134632	11.36	2748789	15.45
200-21380-3	SEATING-INDOOR-031114	658523	9.96	3156075	11.36	2757560	15.45

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Sample No.: CCVIS 200-69742/2 Date Analyzed: 03/21/2014 10:04

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 6635_002.D Heated Purge: (Y/N) N

Calibration ID: 25935

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		686942	9.96	3248187	11.36	2973257	15.45
UPPER LIMIT		961719	10.29	4547462	11.69	4162560	15.78
LOWER LIMIT		412165	9.63	1948912	11.03	1783954	15.12
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-69742/3		733888	9.96	3471077	11.37	3103951	15.46
MB 200-69742/4		724232	9.96	3509136	11.36	3010074	15.45
200-21380-2	OFFICE-SS-031114	749121	9.96	3611945	11.36	3108155	15.45
200-21380-4	SEATING-SS-031114	785035	9.96	3819514	11.36	3282291	15.45

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: OFFICE-INDOOR-031114 Lab Sample ID: 200-21380-1

Matrix: Air Lab File ID: 6619_023.D

Analysis Method: TO-15 Date Collected: 03/12/2014 08:30

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 04:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69697 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	120.91	0.50	U	0.50	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	
74-87-3	Chloromethane	50.49	0.50	U	0.50	
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	
74-83-9	Bromomethane	94.94	0.20	U	0.20	
75-00-3	Chloroethane	64.52	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	137.37	0.23		0.20	
76-13-1	Freon TF	187.38	0.20	U	0.20	
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	
67-64-1	Acetone	58.08	6.7		5.0	
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	
75-09-2	Methylene Chloride	84.93	0.54		0.50	
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	
110-54-3	n-Hexane	86.17	0.47		0.20	
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	
78-93-3	Methyl Ethyl Ketone	72.11	0.85		0.50	
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	
67-66-3	Chloroform	119.38	1.3		0.20	
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	
110-82-7	Cyclohexane	84.16	0.20	U	0.20	
56-23-5	Carbon tetrachloride	153.81	0.20	U	0.20	
71-43-2	Benzene	78.11	0.21		0.20	
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	
142-82-5	n-Heptane	100.21	0.34		0.20	
79-01-6	Trichloroethene	131.39	0.20	U	0.20	
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	
108-88-3	Toluene	92.14	0.26		0.20	
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: OFFICE-INDOOR-031114 Lab Sample ID: 200-21380-1

Matrix: Air Lab File ID: 6619_023.D

Analysis Method: TO-15 Date Collected: 03/12/2014 08:30

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 04:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69697 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	
100-41-4	Ethylbenzene	106.17	0.20	U	0.20	
179601-23-1	m,p-Xylene	106.17	0.50	U	0.50	
95-47-6	Xylene, o-	106.17	0.20	U	0.20	
100-42-5	Styrene	104.15	0.20	U	0.20	
75-25-2	Bromoform	252.75	0.20	U	0.20	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20	U	0.20	
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: OFFICE-INDOOR-031114 Lab Sample ID: 200-21380-1

Matrix: Air Lab File ID: 6619_023.D

Analysis Method: TO-15 Date Collected: 03/12/2014 08:30

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 04:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69697 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	120.91	2.5	U	2.5	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	
74-87-3	Chloromethane	50.49	1.0	U	1.0	
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	
74-83-9	Bromomethane	94.94	0.78	U	0.78	
75-00-3	Chloroethane	64.52	1.3	U	1.3	
75-69-4	Trichlorofluoromethane	137.37	1.3		1.1	
76-13-1	Freon TF	187.38	1.5	U	1.5	
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	
67-64-1	Acetone	58.08	16		12	
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	
75-09-2	Methylene Chloride	84.93	1.9		1.7	
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	
110-54-3	n-Hexane	86.17	1.7		0.70	
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	
78-93-3	Methyl Ethyl Ketone	72.11	2.5		1.5	
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	
67-66-3	Chloroform	119.38	6.1		0.98	
109-99-9	Tetrahydrofuran	72.11	15	U	15	
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	
110-82-7	Cyclohexane	84.16	0.69	U	0.69	
56-23-5	Carbon tetrachloride	153.81	1.3	U	1.3	
71-43-2	Benzene	78.11	0.65		0.64	
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	
142-82-5	n-Heptane	100.21	1.4		0.82	
79-01-6	Trichloroethene	131.39	1.1	U	1.1	
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	
108-88-3	Toluene	92.14	0.99		0.75	
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: OFFICE-INDOOR-031114 Lab Sample ID: 200-21380-1

Matrix: Air Lab File ID: 6619_023.D

Analysis Method: TO-15 Date Collected: 03/12/2014 08:30

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 04:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69697 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	
100-41-4	Ethylbenzene	106.17	0.87	U	0.87	
179601-23-1	m,p-Xylene	106.17	2.2	U	2.2	
95-47-6	Xylene, o-	106.17	0.87	U	0.87	
100-42-5	Styrene	104.15	0.85	U	0.85	
75-25-2	Bromoform	252.75	2.1	U	2.1	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98	U	0.98	
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_023.D
Lims ID: 200-21380-A-1 Lab Sample ID: 200-21380-1
Client ID: OFFICE-INDOOR-031114
Sample Type: Client
Inject. Date: 21-Mar-2014 04:46:30 ALS Bottle#: 6 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006619-023
Misc. Info.: 21380-01
Operator ID: pad Instrument ID: CHB.i

Method: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 21-Mar-2014 09:42:20 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK031

First Level Reviewer: daiglep Date: 21-Mar-2014 09:31:22

	Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
	5 Dichlorodifluoromethane	85	3.235	3.234	0.001	98	44649	0.4710	
	7 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.469					
	8 Chloromethane	50		3.608					
	10 Vinyl chloride	62		3.832					
	11 Butadiene	54		3.907					
	12 Bromomethane	94		4.633					
	14 Chloroethane	64		4.873					
	17 Trichlorofluoromethane	101	5.385	5.391	-0.006	80	37892	0.2288	
	23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.437	6.442	-0.005	31	8930	0.0618	
	24 1,1-Dichloroethene	96		6.527					
	25 Acetone	43	6.714	6.719	-0.005	90	352569	6.70	
	27 Carbon disulfide	76		6.954					
	31 Methylene Chloride	49	7.520	7.520	0.0	72	23440	0.5395	
	33 Methyl tert-butyl ether	73		7.846					
	34 trans-1,2-Dichloroethene	61		7.915					
	36 Hexane	57	8.230	8.230	0.0	80	34887	0.4737	
	37 1,1-Dichloroethane	63		8.683					
*	44 Chlorobromomethane	128	9.964	9.964	0.0	68	649232	10.0	
	39 cis-1,2-Dichloroethene	96		9.591					
	40 2-Butanone (MEK)	72	9.591	9.596	-0.005	100	27581	0.8526	
	43 Tetrahydrofuran	42		9.959					
	45 Chloroform	83	10.028	10.034	-0.006	90	170649	1.25	
	46 Cyclohexane	84		10.274					
	47 1,1,1-Trichloroethane	97		10.284					
	48 Carbon tetrachloride	117	10.471	10.477	-0.006	87	9745	0.0605	
	50 Benzene	78	10.824	10.824	0.0	90	41953	0.2050	
	51 1,2-Dichloroethane	62		10.936					
	52 n-Heptane	43	10.989	10.994	-0.005	72	22907	0.3404	
*	54 1,4-Difluorobenzene	114	11.363	11.368	-0.005	91	3134632	10.0	
	57 Trichloroethene	95	11.720	11.720	0.0	78	8509	0.0834	
	58 1,2-Dichloropropane	63		12.115					

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v	Flags
	62 Dichlorobromomethane	83		12.473					
	64 cis-1,3-Dichloropropene	75		13.097					
	65 4-Methyl-2-pentanone (MIBK)	43		13.257					
	68 Toluene	92	13.524	13.524	0.0	89	44577	0.2619	
	70 trans-1,3-Dichloropropene	75		13.898					
	71 1,1,2-Trichloroethane	83		14.170					
	72 Tetrachloroethene	166		14.276					
	73 2-Hexanone	43		14.426					
	74 Chlorodibromomethane	129		14.709					
	75 Ethylene Dibromide	107		14.912					
*	76 Chlorobenzene-d5	117	15.451	15.456	-0.005	81	2748789	10.0	
	77 Chlorobenzene	112		15.493					
	79 Ethylbenzene	91	15.552	15.552	0.0	79	17579	0.0514	
	80 m-Xylene & p-Xylene	106	15.696	15.696	0.0	99	17957	0.1193	
	82 o-Xylene	106	16.203	16.203	0.0	71	7202	0.0462	
	83 Styrene	104	16.230	16.230	0.0	91	20467	0.0860	
	84 Bromoform	173		16.529					
$	86 4-Bromofluorobenzene	95	16.870	16.870	0.0	98	1758242	NC	
	87 1,1,2,2-Tetrachloroethane	83		17.025					
	91 4-Ethyltoluene	105		17.206					
	93 1,3,5-Trimethylbenzene	105		17.276					
	96 1,2,4-Trimethylbenzene	105	17.724	17.729	-0.005	73	22975	0.0601	
	99 1,3-Dichlorobenzene	146		18.162					
	100 1,4-Dichlorobenzene	146		18.274					
	104 1,2-Dichlorobenzene	146		18.776					
	107 1,2,4-Trichlorobenzene	180		21.225					
	108 Hexachlorobutadiene	225		21.385					

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

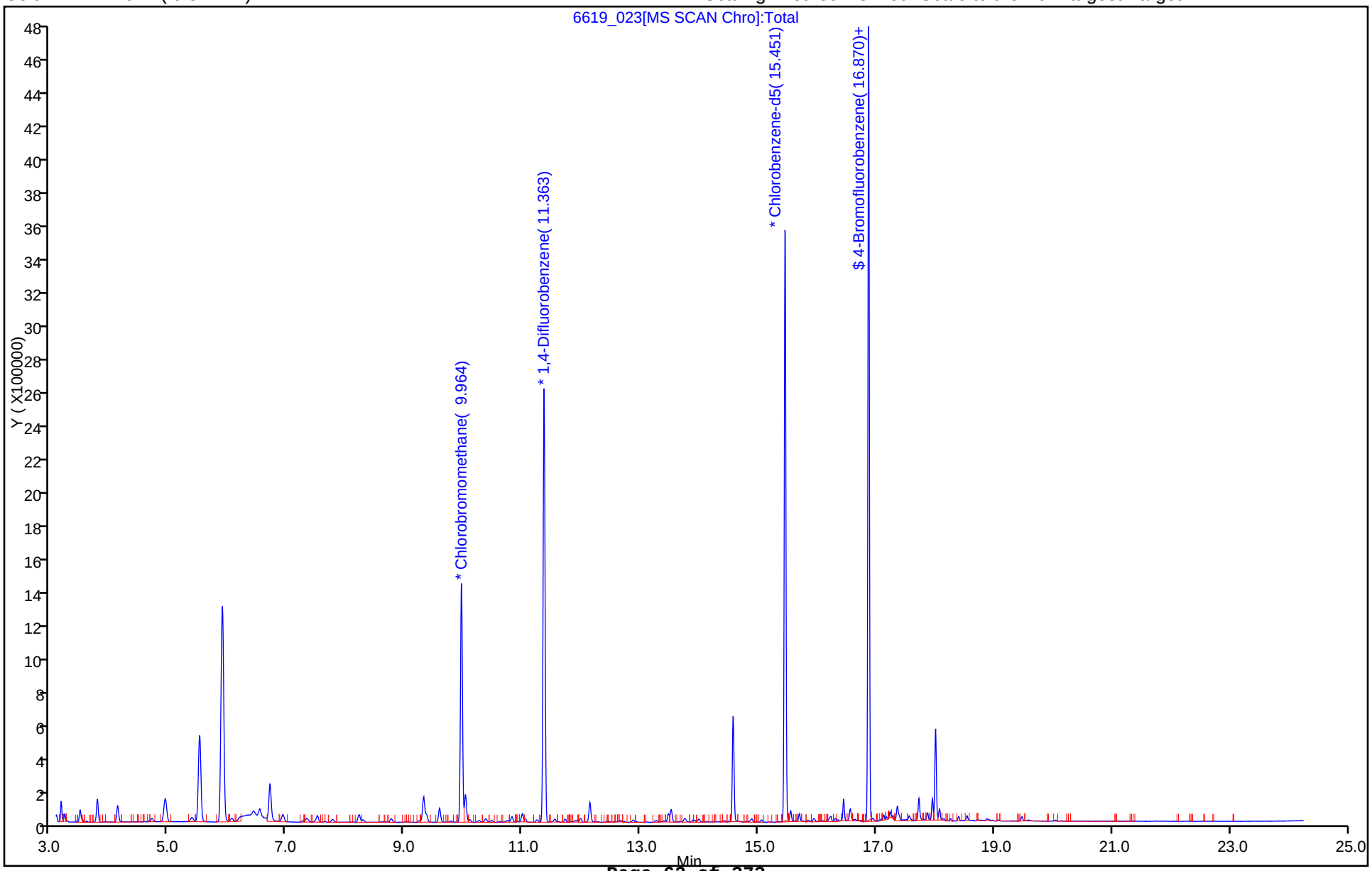
Report Date: 21-Mar-2014 09:42:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_023.D

Injection Date:	21-Mar-2014 04:46:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	200-21380-A-1	Lab Sample ID:	200-21380-1	Worklist Smp#:	23
Client ID:	OFFICE-INDOOR-031114				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



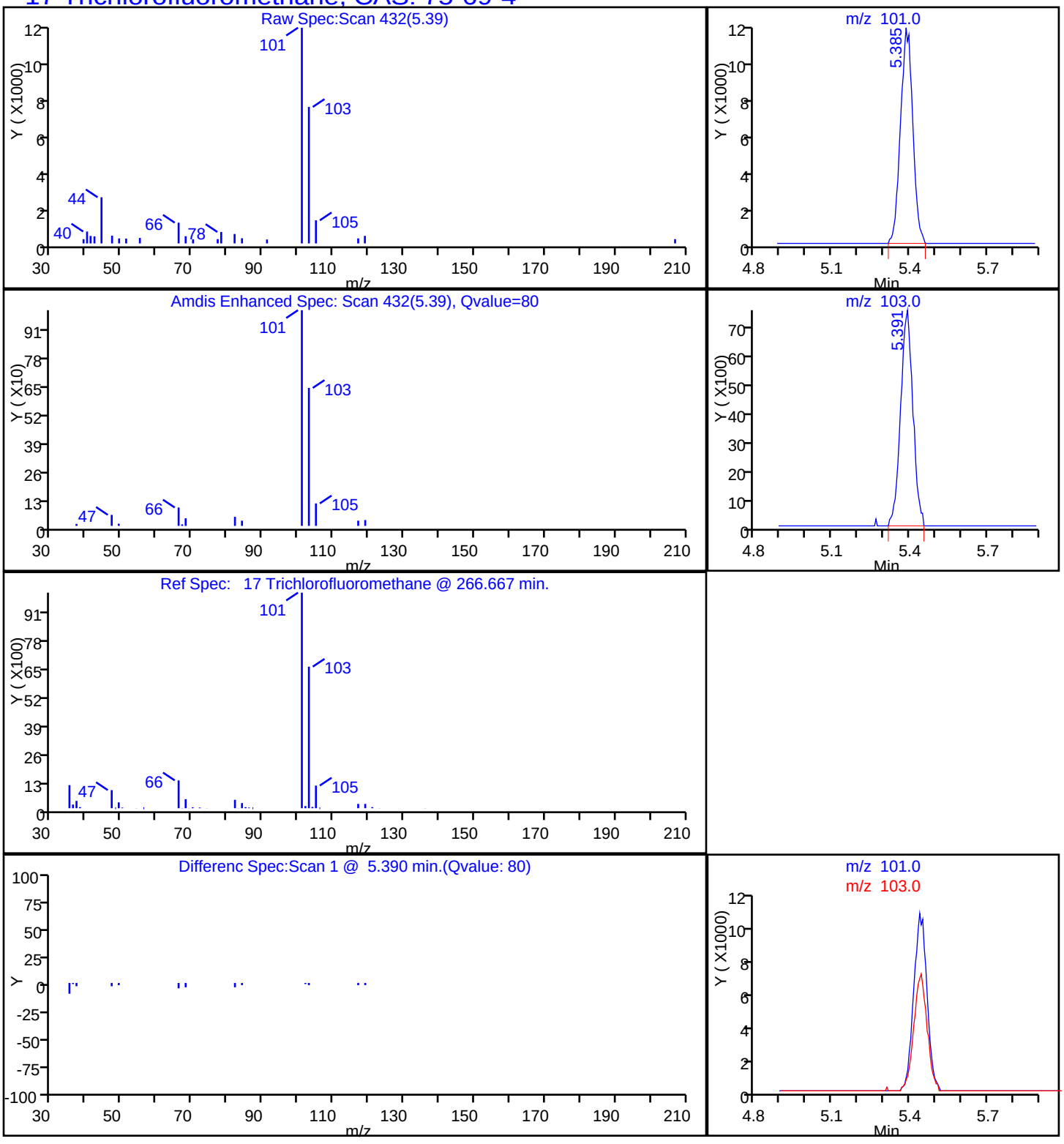
Report Date: 21-Mar-2014 09:42:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_023.D

Injection Date:	21-Mar-2014 04:46:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-1	Lab Sample ID:	200-21380-1		
Client ID:	OFFICE-INDOOR-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

17 Trichlorofluoromethane, CAS: 75-69-4



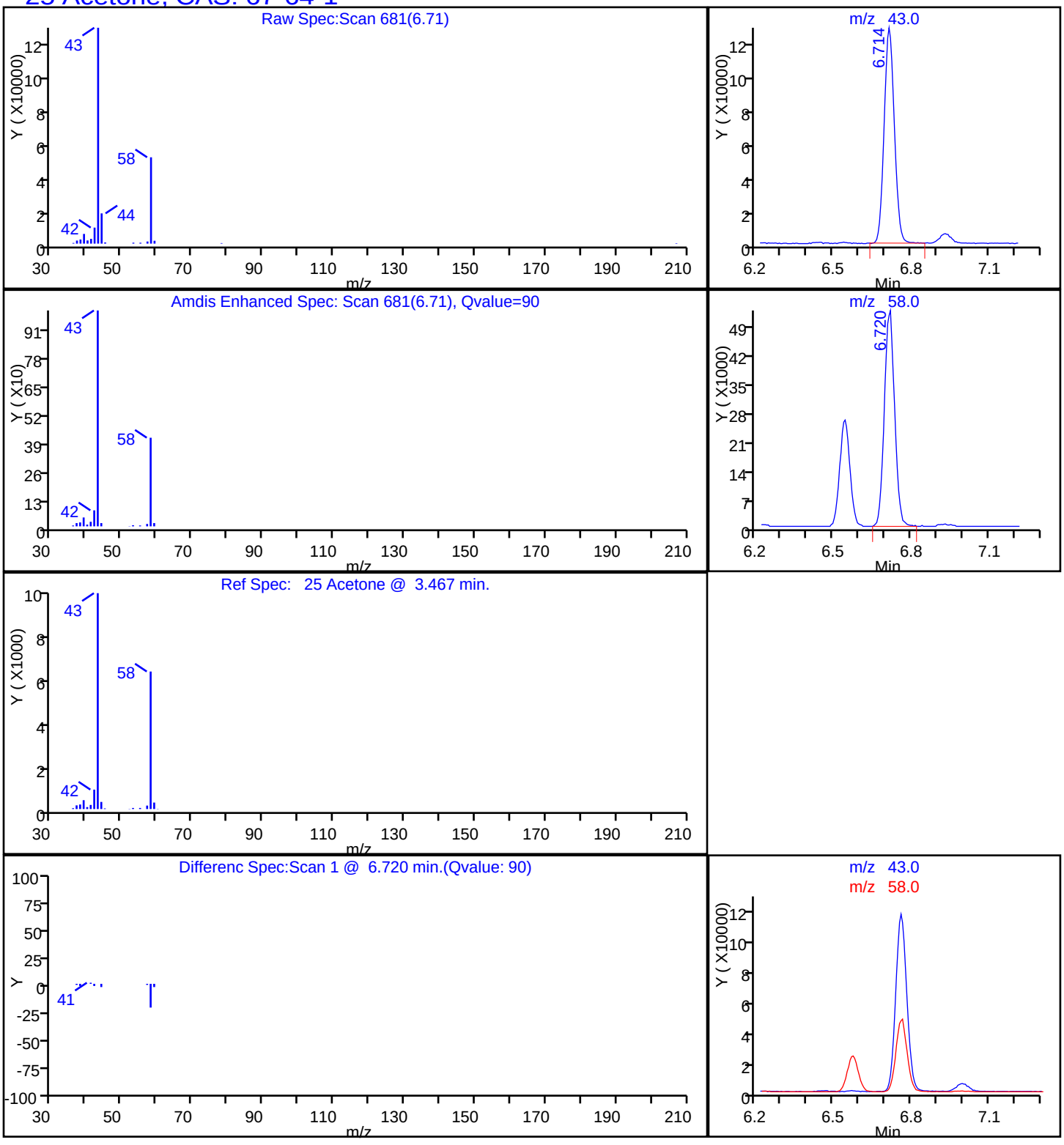
Report Date: 21-Mar-2014 09:42:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_023.D

Injection Date:	21-Mar-2014 04:46:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-1	Lab Sample ID:	200-21380-1		
Client ID:	OFFICE-INDOOR-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

25 Acetone, CAS: 67-64-1



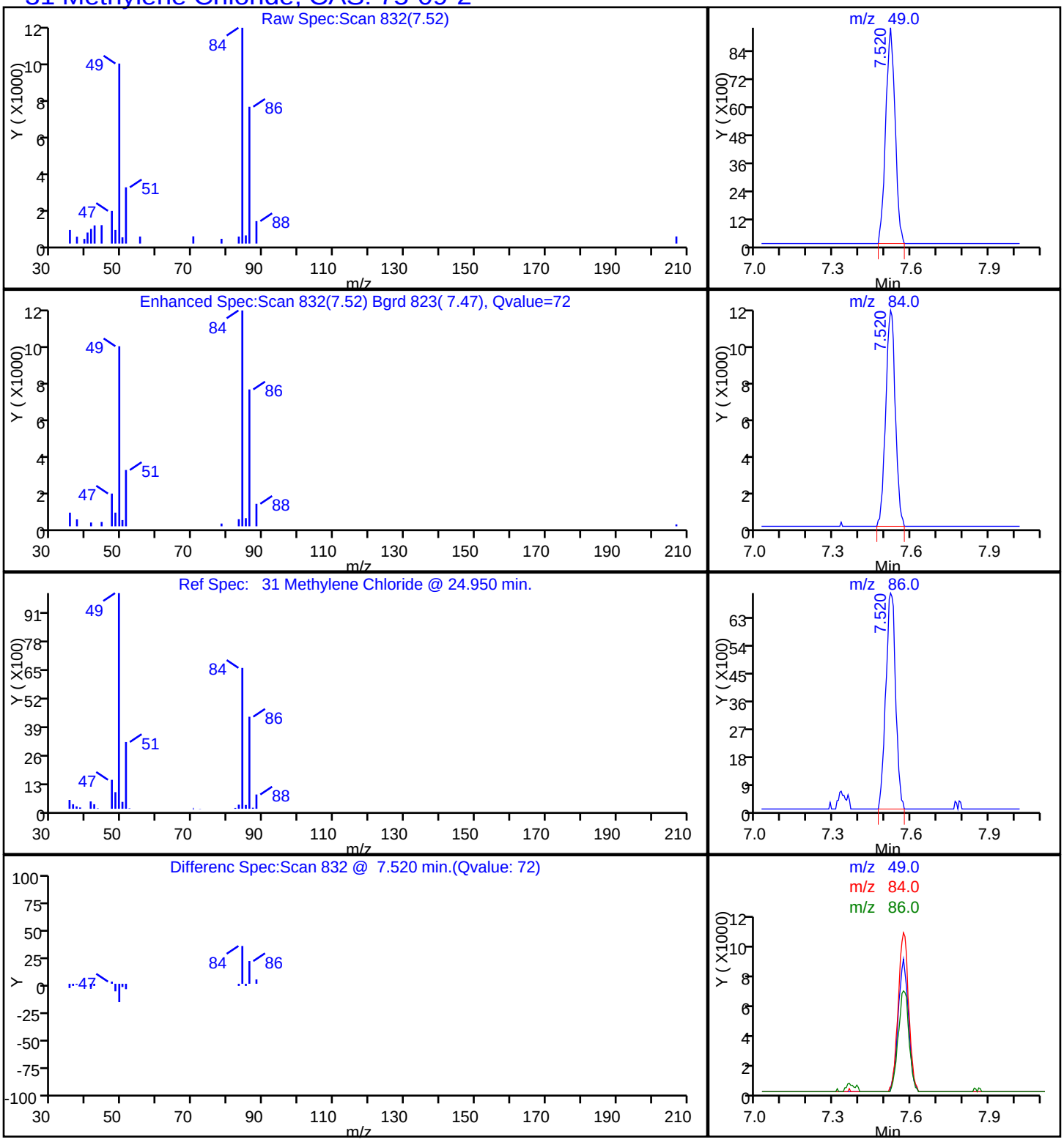
Report Date: 21-Mar-2014 09:42:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_023.D

Injection Date:	21-Mar-2014 04:46:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-1	Lab Sample ID:	200-21380-1		
Client ID:	OFFICE-INDOOR-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



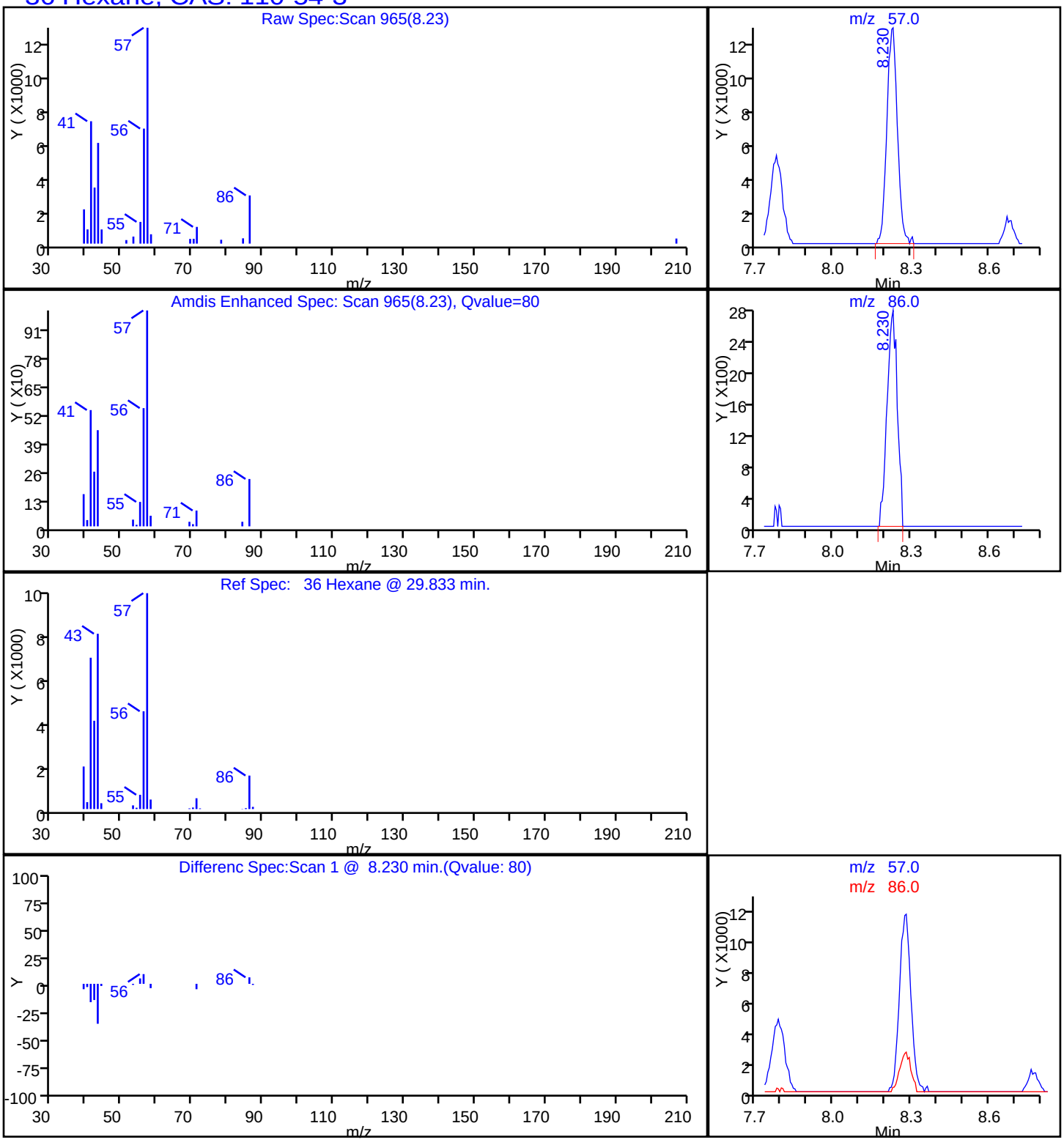
Report Date: 21-Mar-2014 09:42:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_023.D

Injection Date:	21-Mar-2014 04:46:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-1	Lab Sample ID:	200-21380-1		
Client ID:	OFFICE-INDOOR-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

36 Hexane, CAS: 110-54-3



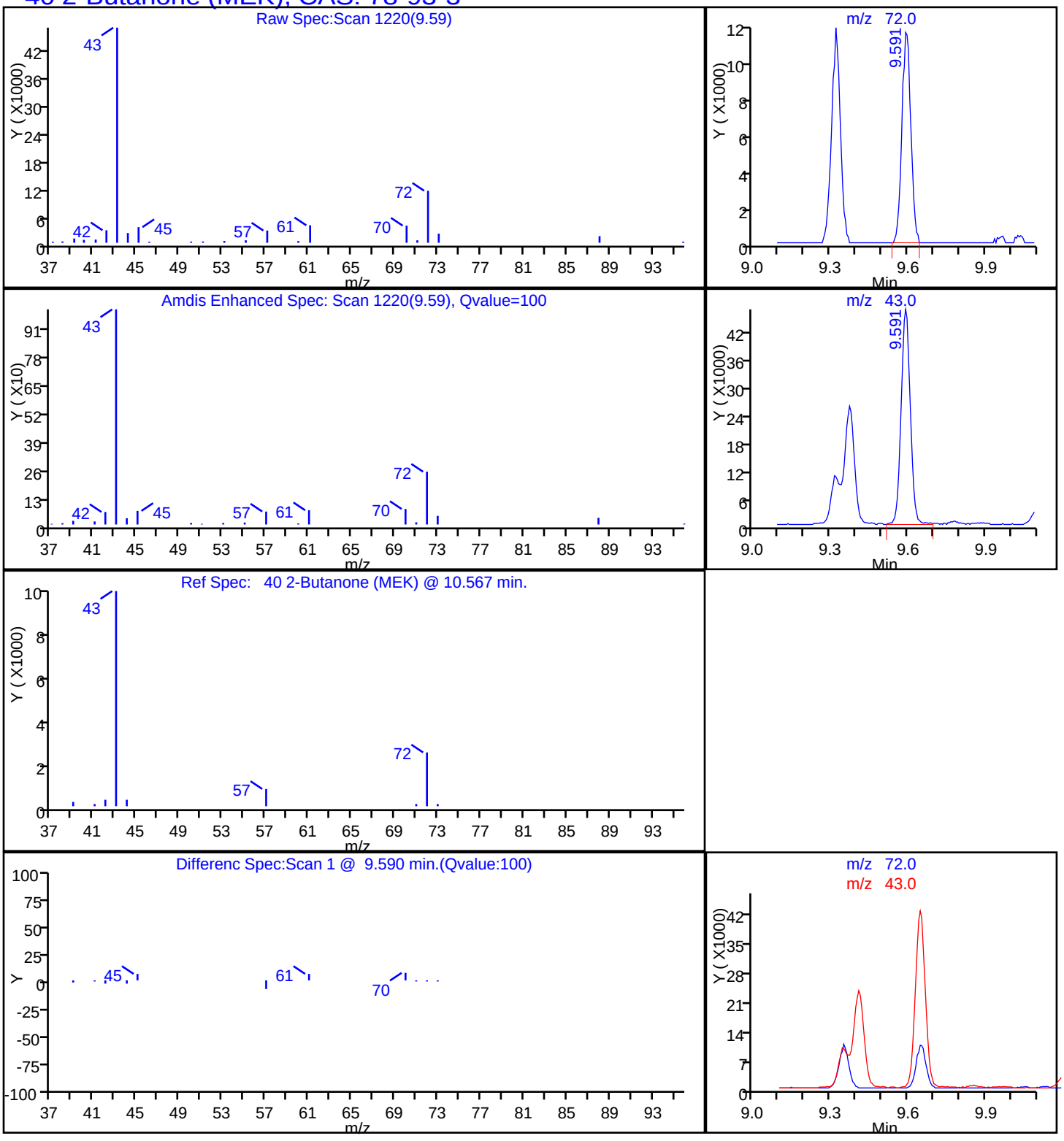
Report Date: 21-Mar-2014 09:42:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_023.D

Injection Date:	21-Mar-2014 04:46:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-1	Lab Sample ID:	200-21380-1		
Client ID:	OFFICE-INDOOR-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

40 2-Butanone (MEK), CAS: 78-93-3



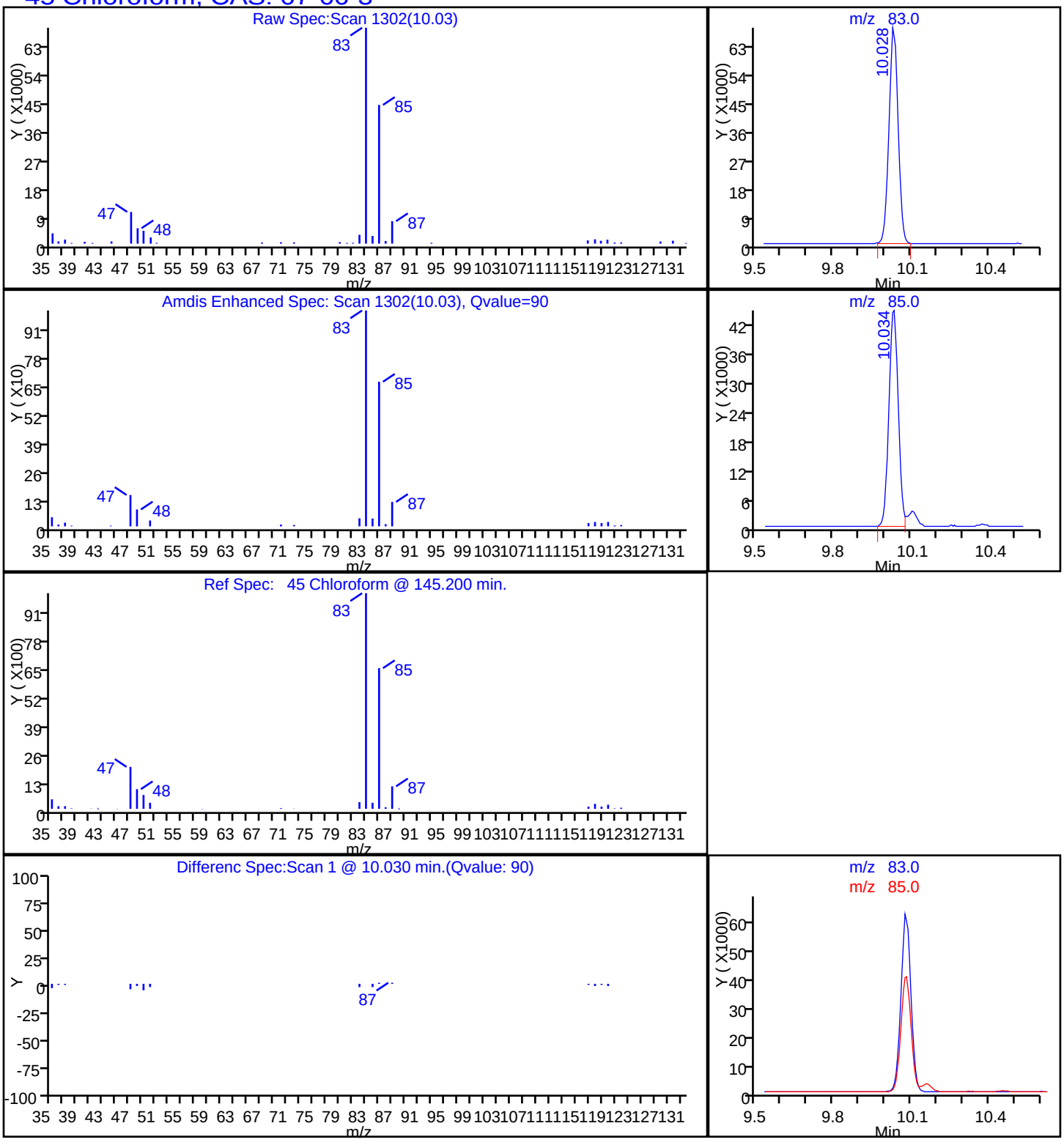
Report Date: 21-Mar-2014 09:42:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_023.D

Injection Date:	21-Mar-2014 04:46:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-1	Lab Sample ID:	200-21380-1		
Client ID:	OFFICE-INDOOR-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

45 Chloroform, CAS: 67-66-3



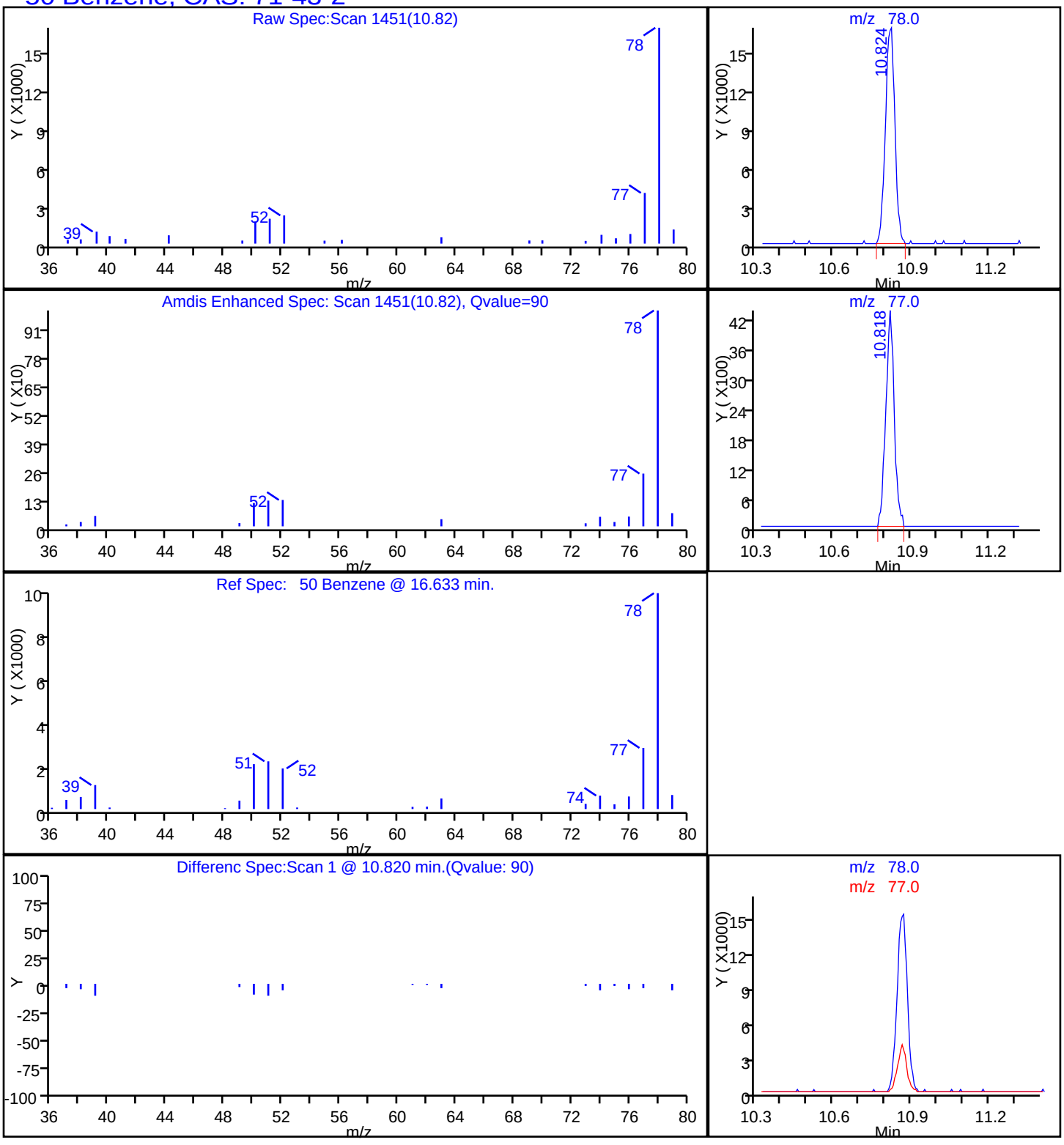
Report Date: 21-Mar-2014 09:42:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_023.D

Injection Date:	21-Mar-2014 04:46:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-1	Lab Sample ID:	200-21380-1		
Client ID:	OFFICE-INDOOR-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

50 Benzene, CAS: 71-43-2



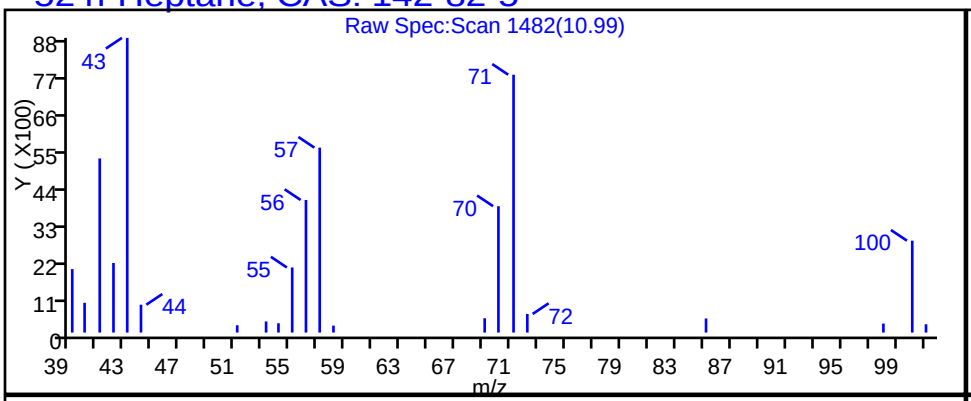
Report Date: 21-Mar-2014 09:42:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

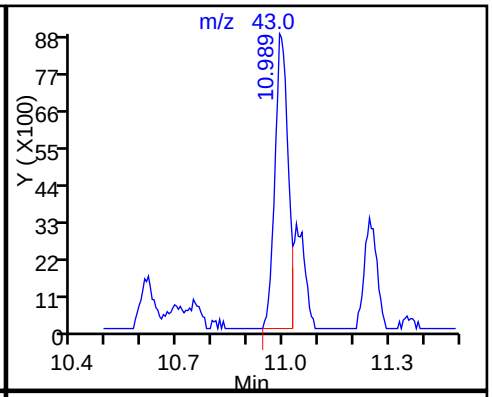
TestAmerica Burlington

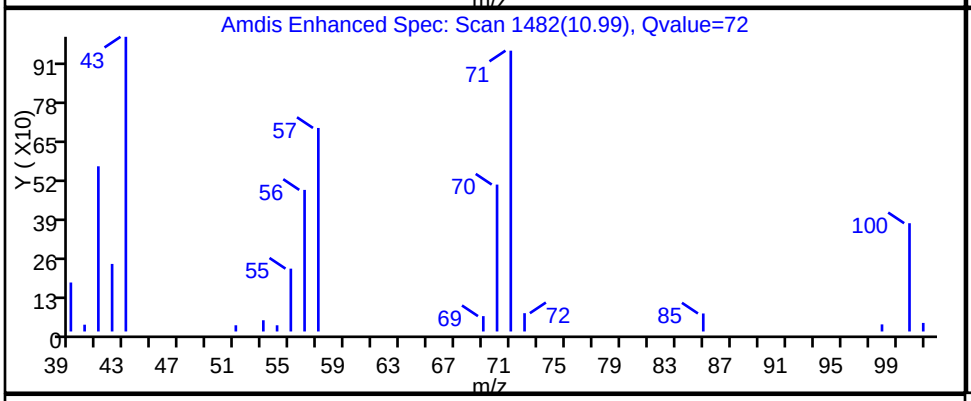
Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_023.D

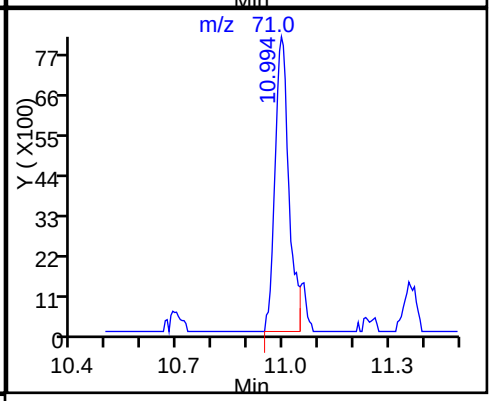
Injection Date:	21-Mar-2014 04:46:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-1	Lab Sample ID:	200-21380-1		
Client ID:	OFFICE-INDOOR-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

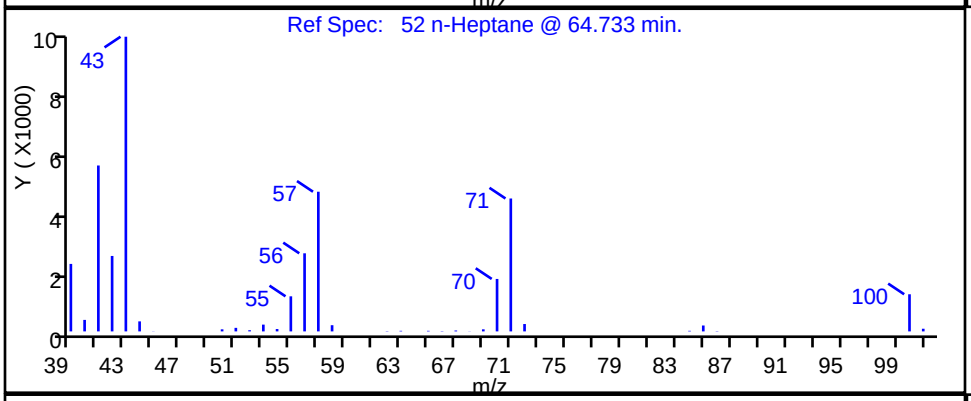
52 n-Heptane, CAS: 142-82-5

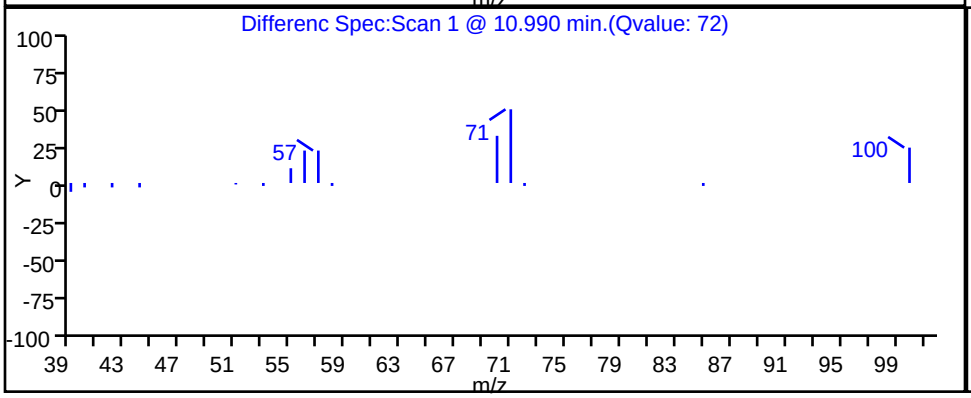


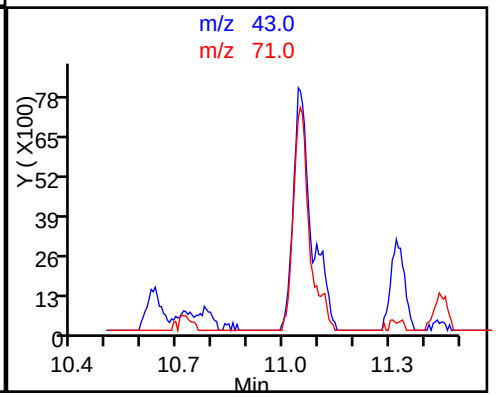












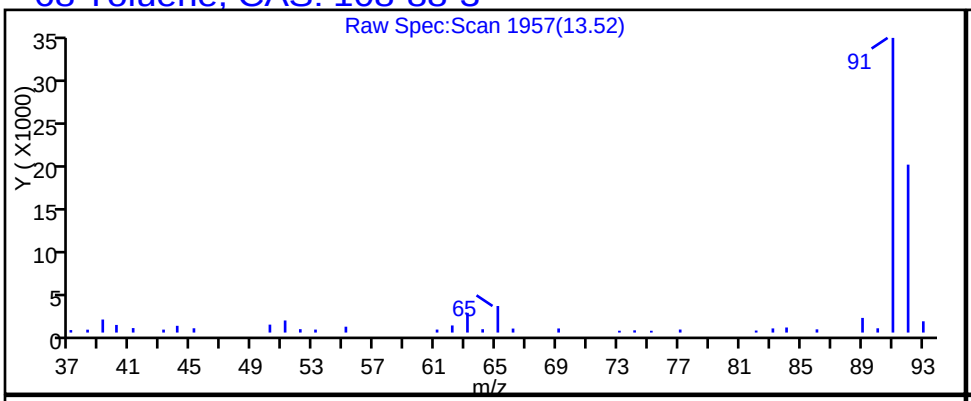
Report Date: 21-Mar-2014 09:42:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

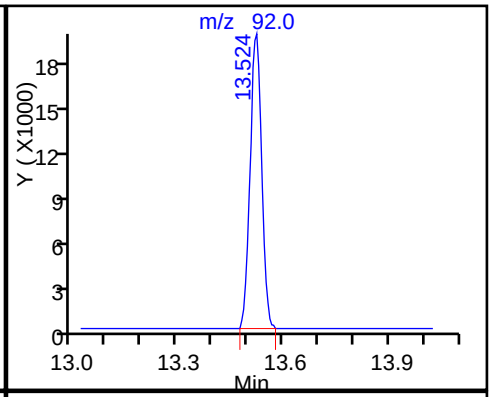
TestAmerica Burlington

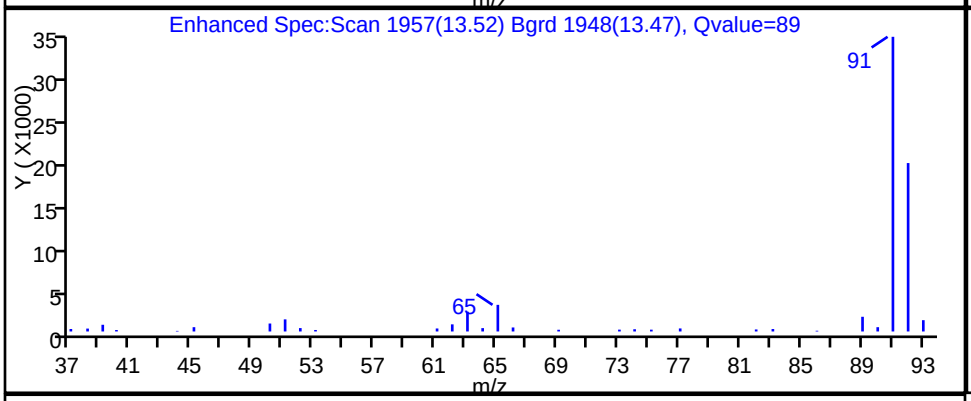
Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_023.D

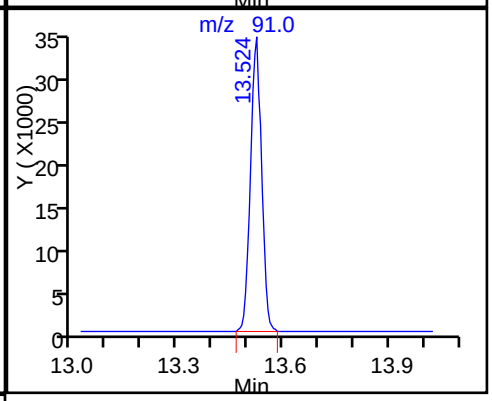
Injection Date:	21-Mar-2014 04:46:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-1	Lab Sample ID:	200-21380-1		
Client ID:	OFFICE-INDOOR-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

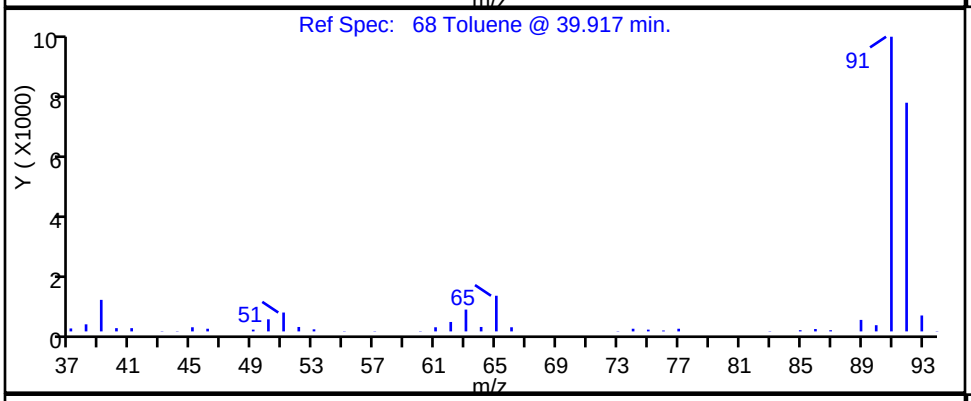
68 Toluene, CAS: 108-88-3

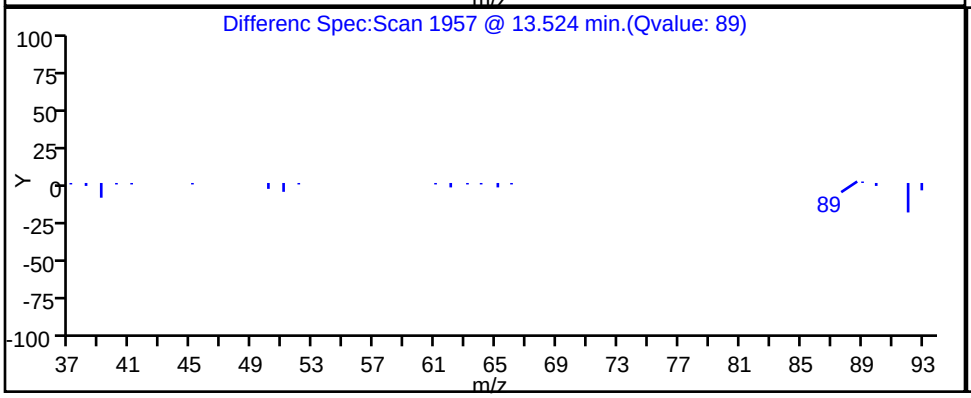


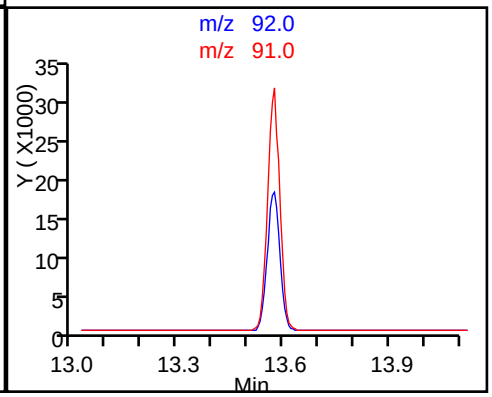












FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: OFFICE-SS-031114 Lab Sample ID: 200-21380-2

Matrix: Air Lab File ID: 6635_008.D

Analysis Method: TO-15 Date Collected: 03/12/2014 09:20

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 15:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69742 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	120.91	0.50	U	0.50	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	
74-87-3	Chloromethane	50.49	0.50	U	0.50	
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	
106-99-0	1,3-Butadiene	54.09	0.83		0.20	
74-83-9	Bromomethane	94.94	0.20	U	0.20	
75-00-3	Chloroethane	64.52	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	137.37	0.34		0.20	
76-13-1	Freon TF	187.38	0.69		0.20	
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	
67-64-1	Acetone	58.08	8.9		5.0	
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	
75-09-2	Methylene Chloride	84.93	0.50	U	0.50	
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	
110-54-3	n-Hexane	86.17	1.4		0.20	
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	
78-93-3	Methyl Ethyl Ketone	72.11	1.4		0.50	
156-59-2	cis-1,2-Dichloroethene	96.94	0.77		0.20	
67-66-3	Chloroform	119.38	0.28		0.20	
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	
110-82-7	Cyclohexane	84.16	0.65		0.20	
56-23-5	Carbon tetrachloride	153.81	0.20	U	0.20	
71-43-2	Benzene	78.11	1.6		0.20	
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	
142-82-5	n-Heptane	100.21	1.6		0.20	
79-01-6	Trichloroethene	131.39	20		0.20	
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	
108-88-3	Toluene	92.14	1.9		0.20	
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: OFFICE-SS-031114 Lab Sample ID: 200-21380-2

Matrix: Air Lab File ID: 6635_008.D

Analysis Method: TO-15 Date Collected: 03/12/2014 09:20

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 15:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69742 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	
100-41-4	Ethylbenzene	106.17	0.26		0.20	
179601-23-1	m,p-Xylene	106.17	1.0		0.50	
95-47-6	Xylene, o-	106.17	0.34		0.20	
100-42-5	Styrene	104.15	0.20	U	0.20	
75-25-2	Bromoform	252.75	0.20	U	0.20	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20	U	0.20	
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: OFFICE-SS-031114 Lab Sample ID: 200-21380-2

Matrix: Air Lab File ID: 6635_008.D

Analysis Method: TO-15 Date Collected: 03/12/2014 09:20

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 15:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69742 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	120.91	2.5	U	2.5	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	
74-87-3	Chloromethane	50.49	1.0	U	1.0	
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	
106-99-0	1,3-Butadiene	54.09	1.8		0.44	
74-83-9	Bromomethane	94.94	0.78	U	0.78	
75-00-3	Chloroethane	64.52	1.3	U	1.3	
75-69-4	Trichlorofluoromethane	137.37	1.9		1.1	
76-13-1	Freon TF	187.38	5.3		1.5	
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	
67-64-1	Acetone	58.08	21		12	
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	
75-09-2	Methylene Chloride	84.93	1.7	U	1.7	
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	
110-54-3	n-Hexane	86.17	5.1		0.70	
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	
78-93-3	Methyl Ethyl Ketone	72.11	4.2		1.5	
156-59-2	cis-1,2-Dichloroethene	96.94	3.0		0.79	
67-66-3	Chloroform	119.38	1.3		0.98	
109-99-9	Tetrahydrofuran	72.11	15	U	15	
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	
110-82-7	Cyclohexane	84.16	2.2		0.69	
56-23-5	Carbon tetrachloride	153.81	1.3	U	1.3	
71-43-2	Benzene	78.11	5.2		0.64	
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	
142-82-5	n-Heptane	100.21	6.4		0.82	
79-01-6	Trichloroethene	131.39	110		1.1	
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	
108-88-3	Toluene	92.14	7.3		0.75	
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: OFFICE-SS-031114 Lab Sample ID: 200-21380-2

Matrix: Air Lab File ID: 6635_008.D

Analysis Method: TO-15 Date Collected: 03/12/2014 09:20

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 15:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69742 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	
100-41-4	Ethylbenzene	106.17	1.1		0.87	
179601-23-1	m,p-Xylene	106.17	4.3		2.2	
95-47-6	Xylene, o-	106.17	1.5		0.87	
100-42-5	Styrene	104.15	0.85	U	0.85	
75-25-2	Bromoform	252.75	2.1	U	2.1	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98	U	0.98	
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	

Report Date: 24-Mar-2014 12:20:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_008.D
Lims ID: 200-21380-A-2 Lab Sample ID: 200-21380-2
Client ID: OFFICE-SS-031114
Sample Type: Client
Inject. Date: 21-Mar-2014 15:17:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006635-008
Misc. Info.: 21380-02
Operator ID: pad Instrument ID: CHB.i

Method: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 24-Mar-2014 12:20:06 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: daiglep Date: 24-Mar-2014 11:28:15

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
5 Dichlorodifluoromethane	85	3.235	3.229	0.006	91	49627	0.4537	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.464					
8 Chloromethane	50	3.608	3.603	0.005	11	5616	0.2772	7M
10 Vinyl chloride	62		3.832					
11 Butadiene	54	3.902	3.902	0.0	87	19177	0.8271	
12 Bromomethane	94		4.627					
14 Chloroethane	64		4.868					
17 Trichlorofluoromethane	101	5.385	5.385	0.0	80	65228	0.3414	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.437	6.437	0.0	91	115456	0.6922	
24 1,1-Dichloroethene	96		6.522					
25 Acetone	43	6.709	6.714	-0.005	92	538482	8.87	
27 Carbon disulfide	76	6.949	6.949	0.0	97	58256	0.3172	
31 Methylene Chloride	49	7.515	7.520	-0.005	60	14075	0.2807	
33 Methyl tert-butyl ether	73		7.846					
34 trans-1,2-Dichloroethene	61		7.915					
36 Hexane	57	8.225	8.224	0.001	82	122349	1.44	
37 1,1-Dichloroethane	63		8.678					
39 cis-1,2-Dichloroethene	96	9.585	9.585	0.0	62	69678	0.7671	
40 2-Butanone (MEK)	72	9.591	9.591	0.0	95	53624	1.44	
43 Tetrahydrofuran	42		9.954					
* 44 Chlorobromomethane	128	9.959	9.964	-0.005	64	749121	10.0	
45 Chloroform	83	10.034	10.034	0.0	6	43505	0.2765	
46 Cyclohexane	84	10.274	10.274	0.0	63	68980	0.6492	
47 1,1,1-Trichloroethane	97		10.279					
48 Carbon tetrachloride	117	10.471	10.471	0.0	85	11748	0.0633	
50 Benzene	78	10.818	10.818	0.0	91	383499	1.63	
51 1,2-Dichloroethane	62		10.936					
52 n-Heptane	43	10.989	10.994	-0.005	77	120809	1.56	
* 54 1,4-Difluorobenzene	114	11.363	11.363	0.0	90	3611945	10.0	
57 Trichloroethene	95	11.720	11.720	0.0	92	2318117	19.7	
58 1,2-Dichloropropane	63		12.115					

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v	Flags
	62 Dichlorobromomethane	83		12.467					
	64 cis-1,3-Dichloropropene	75		13.097					
	65 4-Methyl-2-pentanone (MIBK)	43		13.252					
	68 Toluene	92	13.519	13.519	0.0	91	373001	1.94	
	70 trans-1,3-Dichloropropene	75		13.892					
	71 1,1,2-Trichloroethane	83		14.170					
	72 Tetrachloroethene	166	14.277	14.277	0.0	58	4964	0.0261	
	73 2-Hexanone	43		14.421					
	74 Chlorodibromomethane	129		14.709					
	75 Ethylene Dibromide	107		14.912					
*	76 Chlorobenzene-d5	117	15.451	15.451	0.0	78	3108155	10.0	
	77 Chlorobenzene	112		15.488					
	79 Ethylbenzene	91	15.552	15.552	0.0	83	101641	0.2628	
	80 m-Xylene & p-Xylene	106	15.691	15.696	-0.005	98	169762	1.00	
	82 o-Xylene	106	16.203	16.203	0.0	92	59404	0.3370	
	83 Styrene	104	16.230	16.230	0.0	93	43071	0.1600	
	84 Bromoform	173		16.523					
$	86 4-Bromofluorobenzene	95	16.870	16.870	0.0	98	1914816	NC	
	87 1,1,2,2-Tetrachloroethane	83		17.025					
	91 4-Ethyltoluene	105	17.201	17.207	-0.005	82	28031	0.0558	
	93 1,3,5-Trimethylbenzene	105	17.271	17.271	0.0	91	36460	0.0872	
	96 1,2,4-Trimethylbenzene	105	17.724	17.730	-0.006	94	82711	0.1914	
	99 1,3-Dichlorobenzene	146		18.156					
	100 1,4-Dichlorobenzene	146		18.274					
	104 1,2-Dichlorobenzene	146		18.776					
	107 1,2,4-Trichlorobenzene	180		21.225					
	108 Hexachlorobutadiene	225		21.380					

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

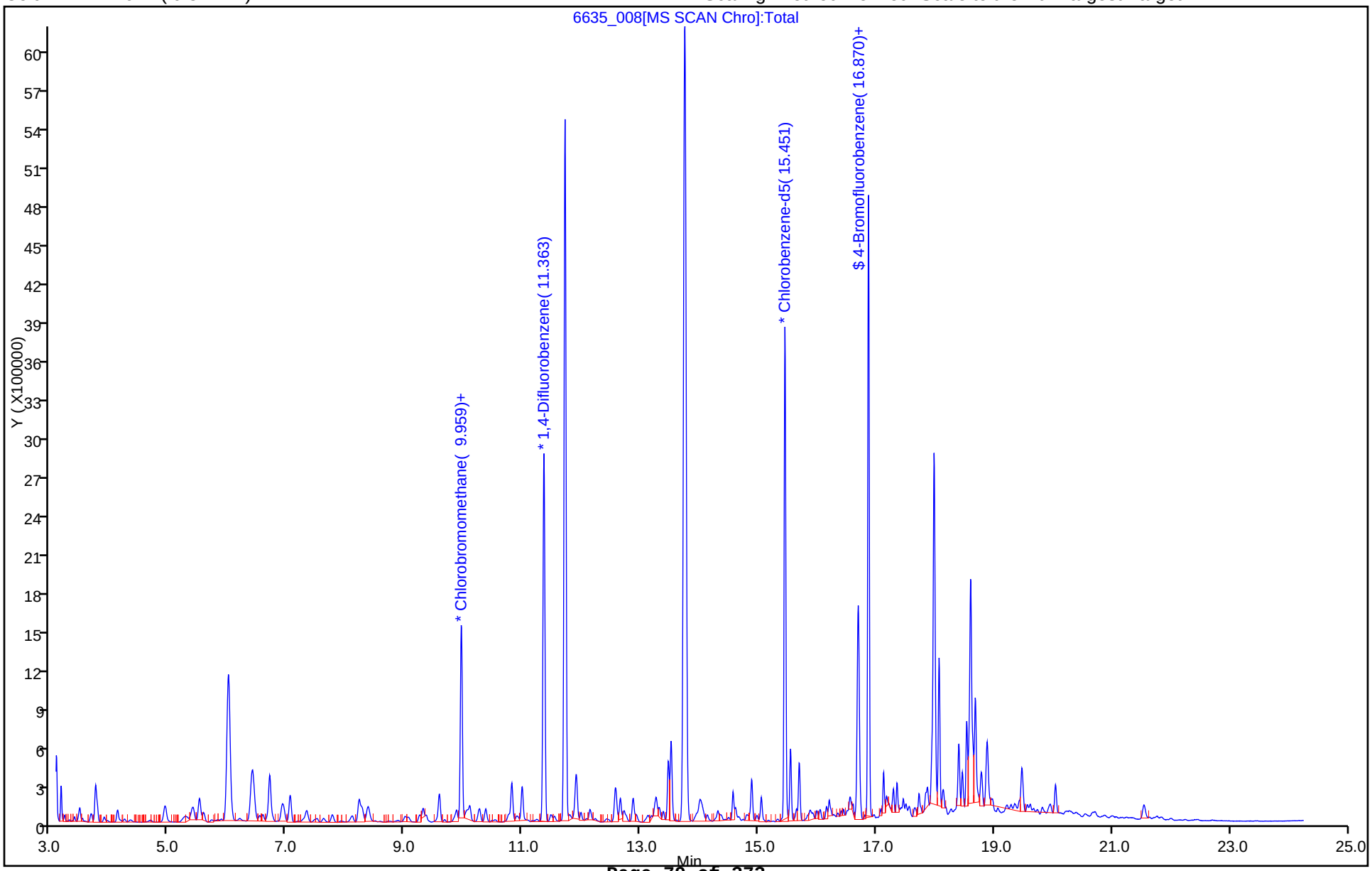
Report Date: 24-Mar-2014 12:20:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_008.D

Injection Date:	21-Mar-2014 15:17:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	200-21380-A-2	Lab Sample ID:	200-21380-2	Worklist Smp#:	8
Client ID:	OFFICE-SS-031114				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

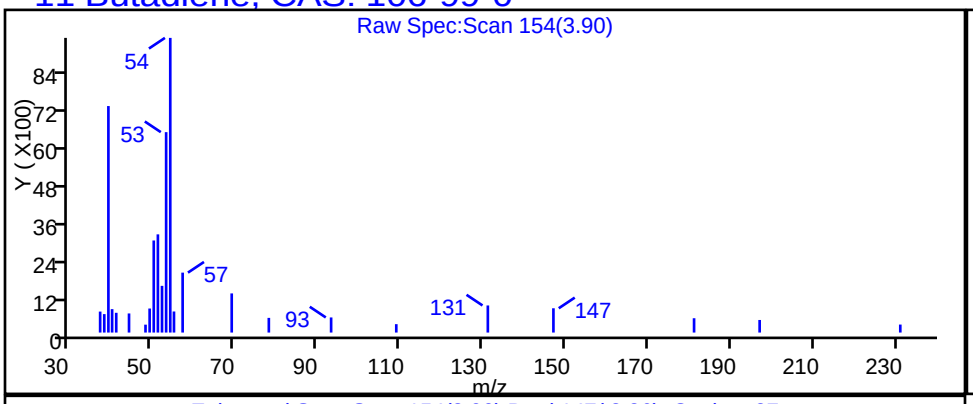


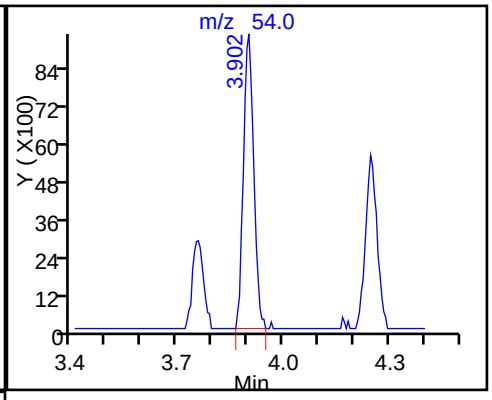
Report Date: 24-Mar-2014 12:20:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

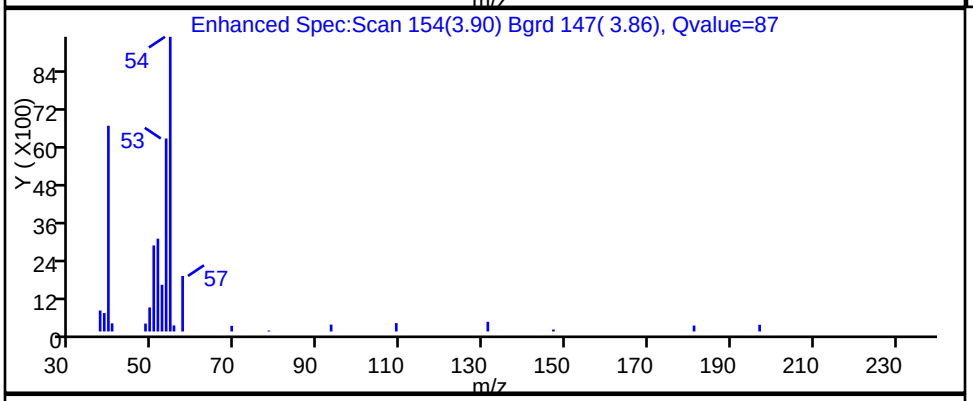
TestAmerica Burlington

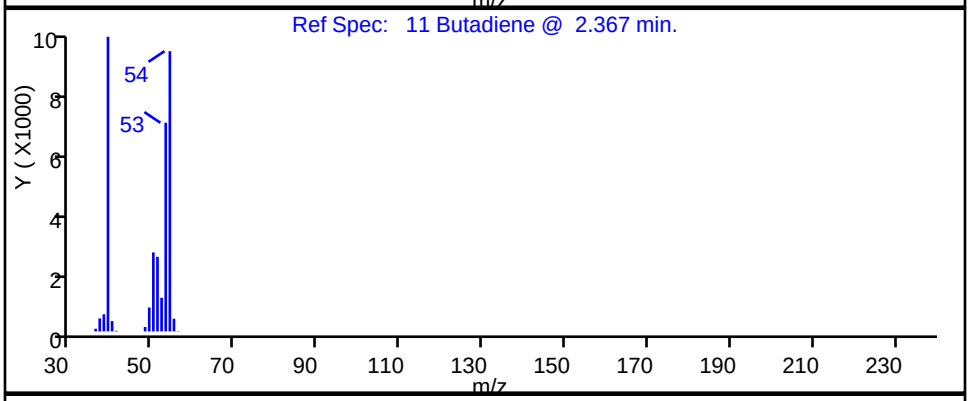
Data File:	\\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_008.D				
Injection Date:	21-Mar-2014 15:17:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-2	Lab Sample ID:	200-21380-2		
Client ID:	OFFICE-SS-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

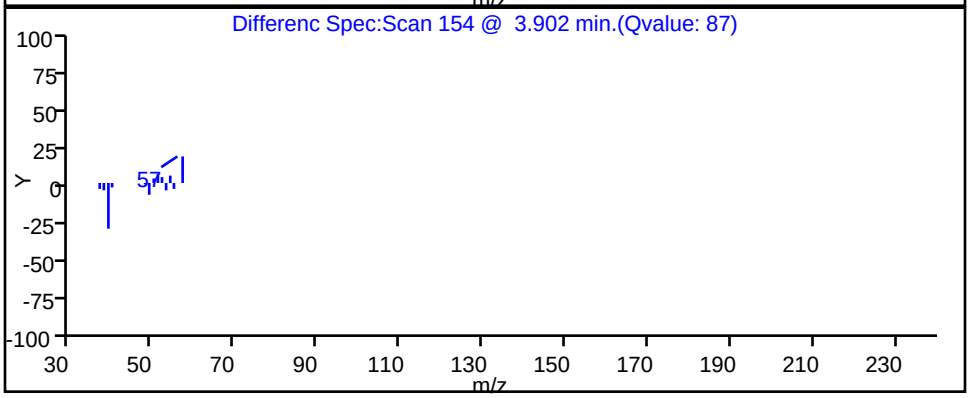
11 Butadiene, CAS: 106-99-0











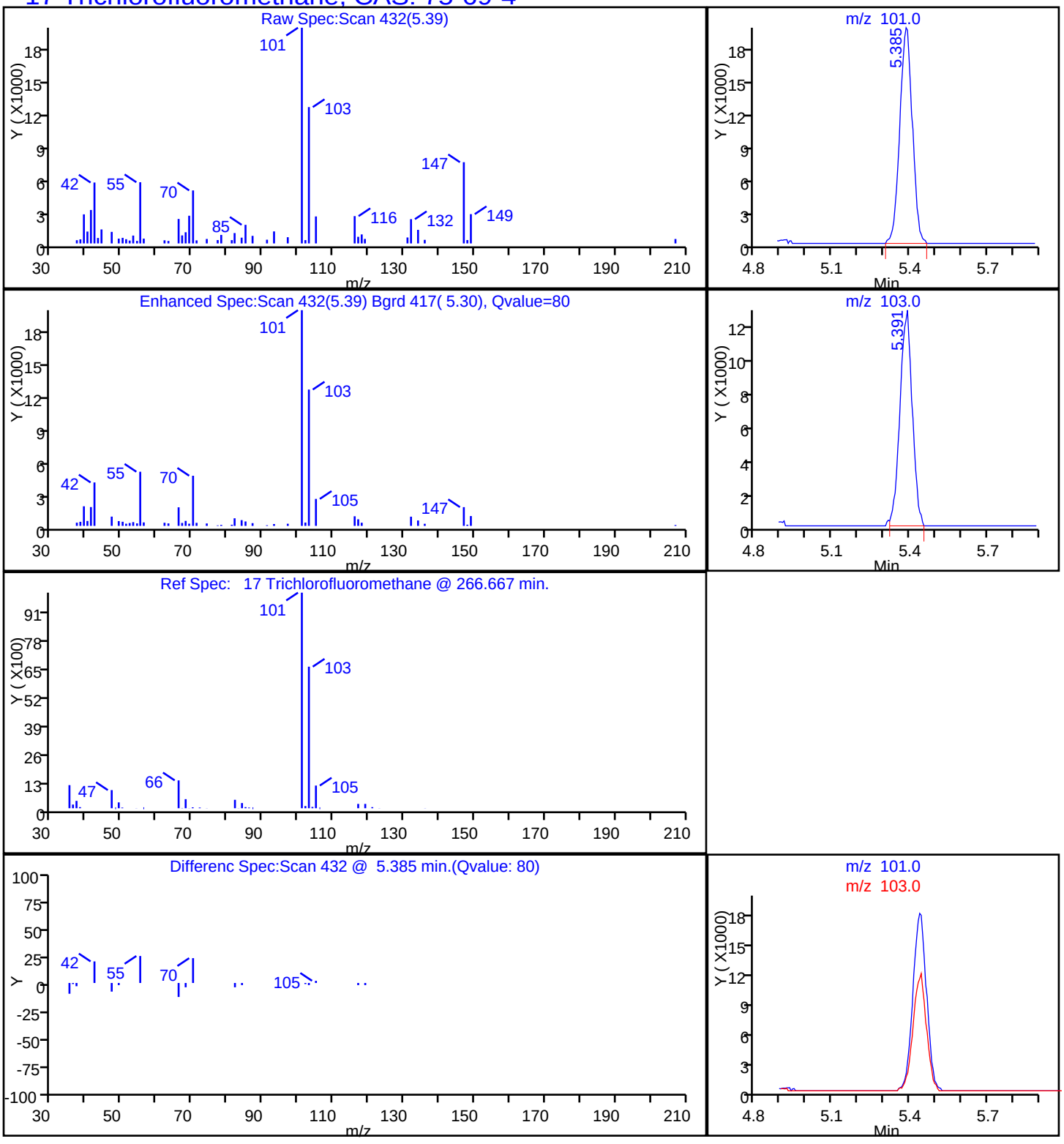
Report Date: 24-Mar-2014 12:20:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_008.D

Injection Date:	21-Mar-2014 15:17:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-2	Lab Sample ID:	200-21380-2		
Client ID:	OFFICE-SS-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

17 Trichlorofluoromethane, CAS: 75-69-4



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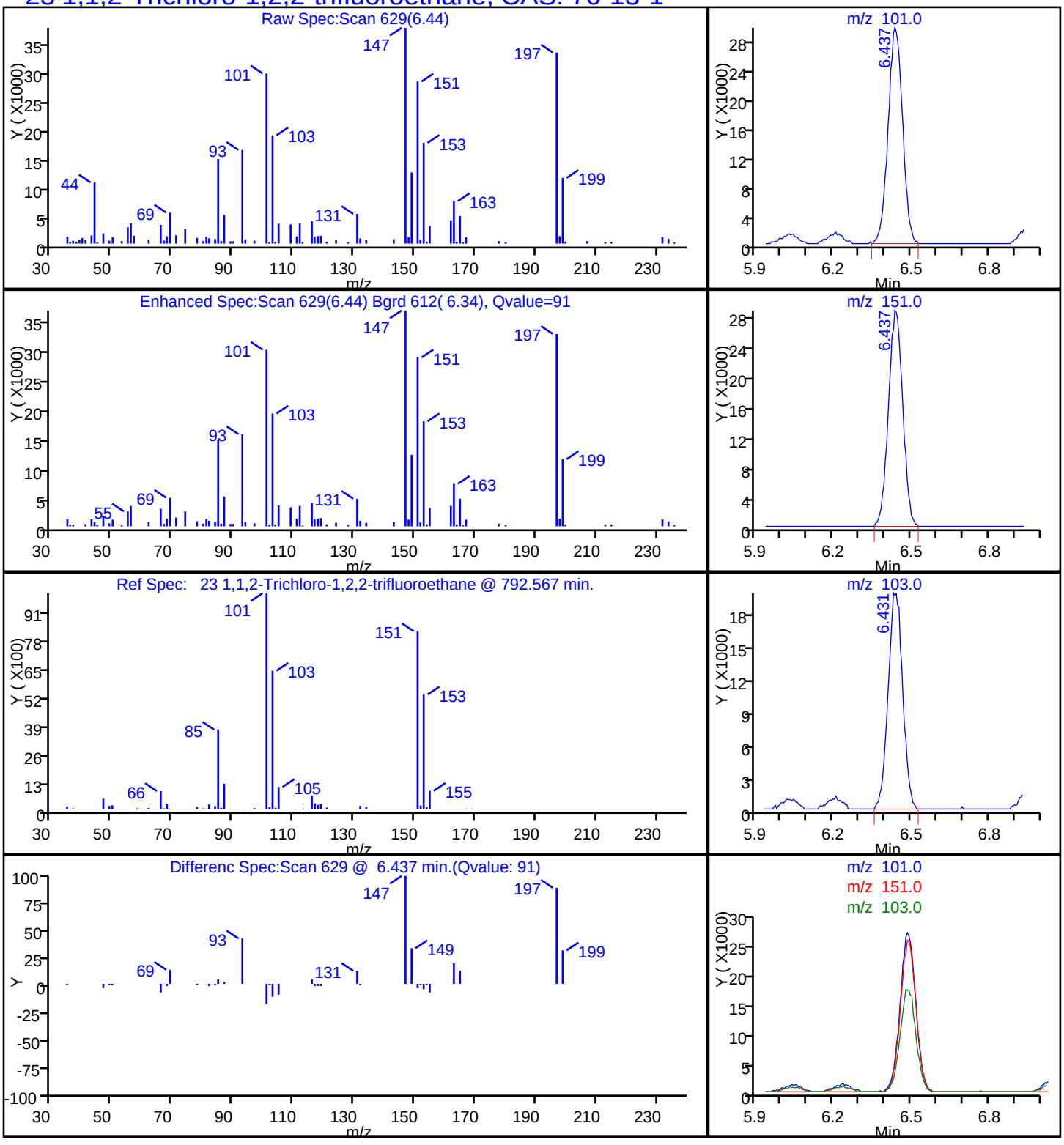
TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_008.D

Injection Date:	21-Mar-2014 15:17:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-2	Lab Sample ID:	200-21380-2		
Client ID:	OFFICE-SS-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

23 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



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TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_008.D

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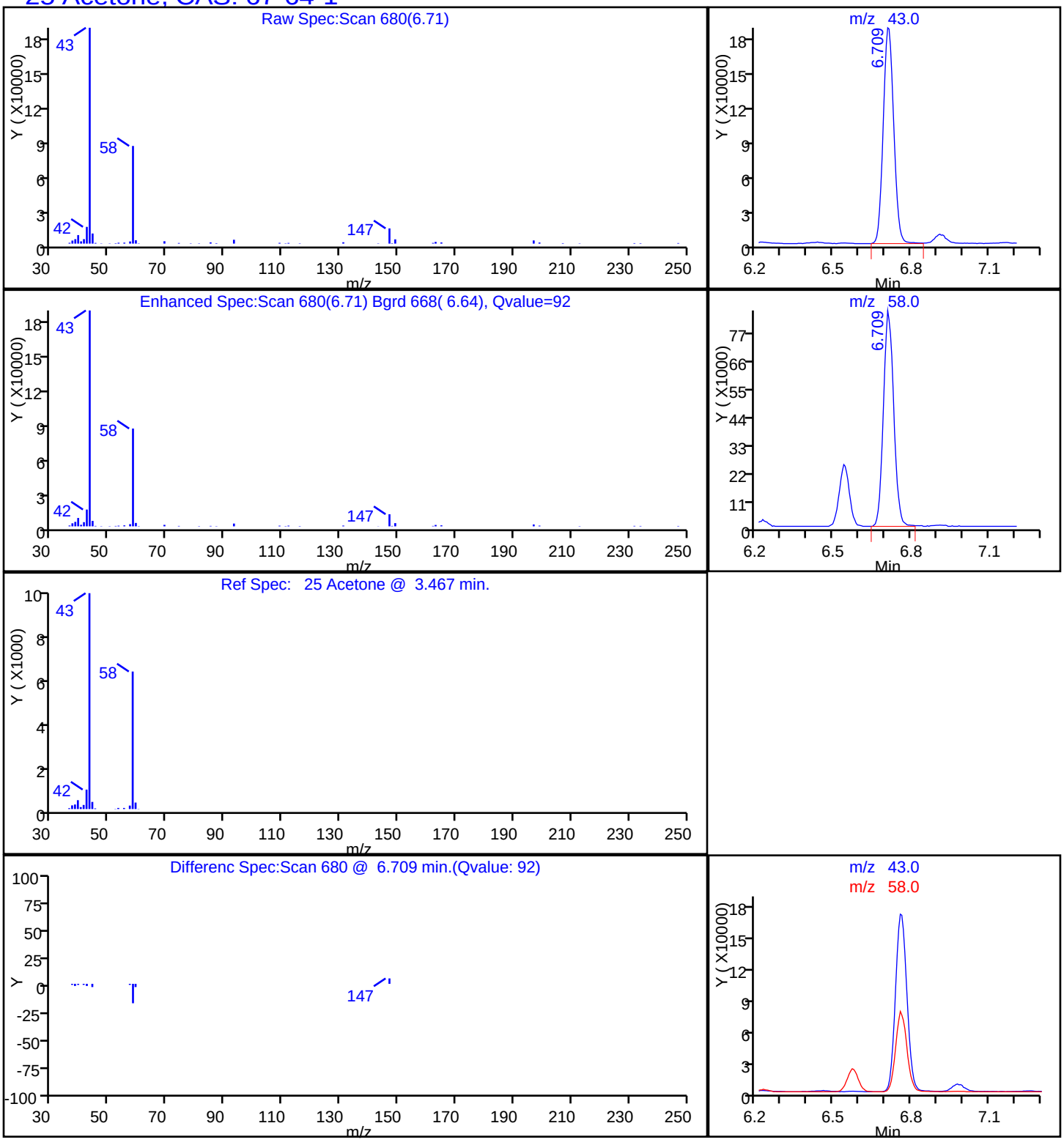
Client ID:	OFFICE-SS-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

25 Acetone, CAS: 67-64-1



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TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_008.D

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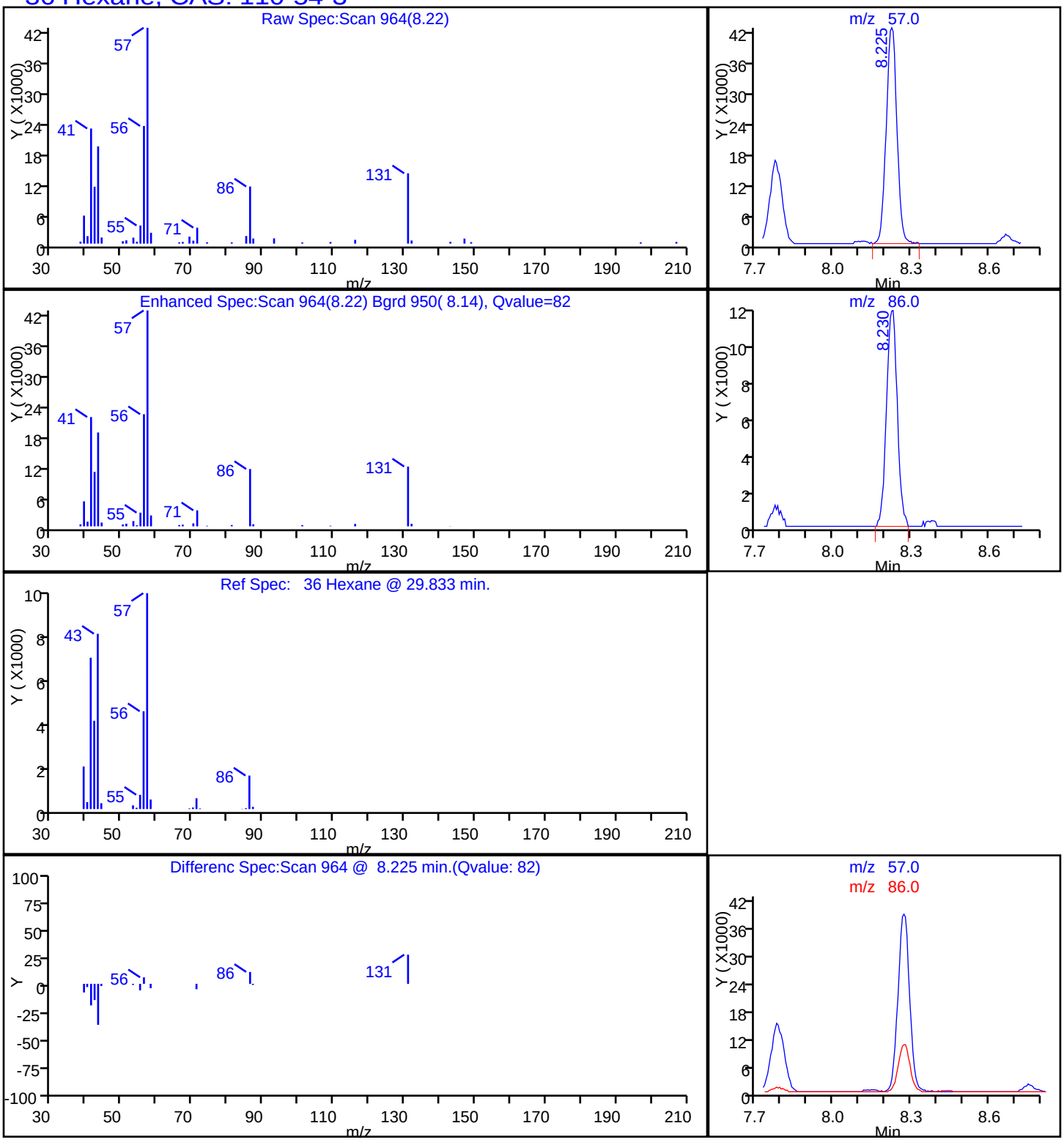
Client ID:	OFFICE-SS-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

36 Hexane, CAS: 110-54-3



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TestAmerica Burlington

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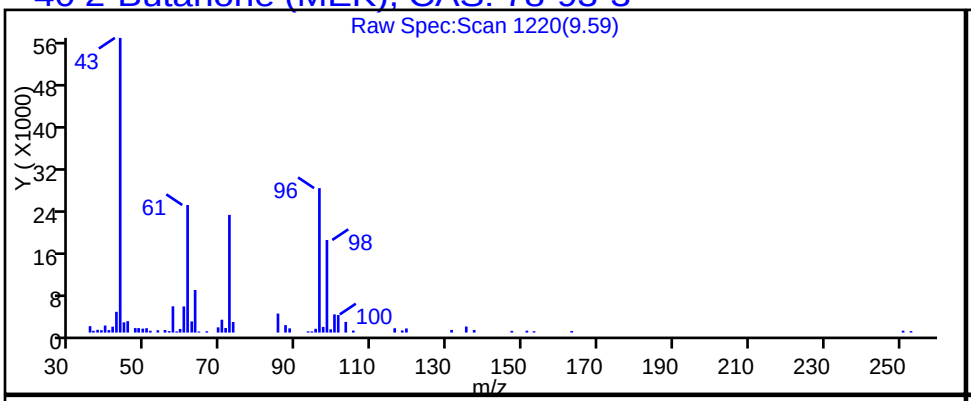
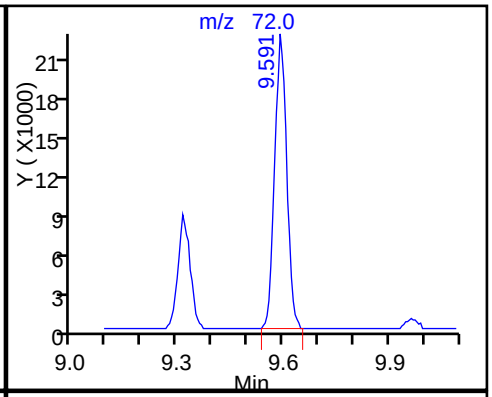
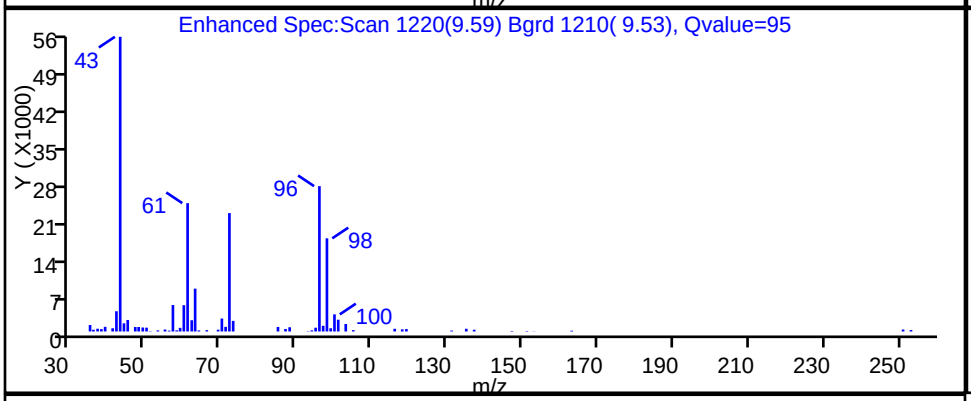
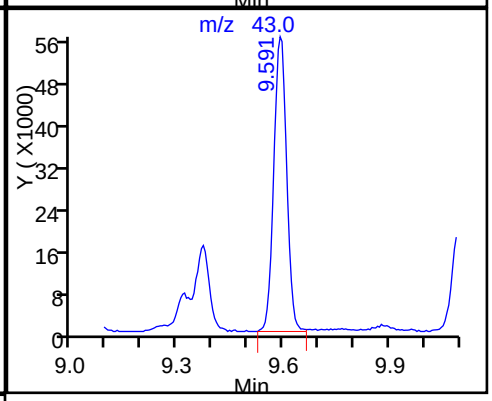
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

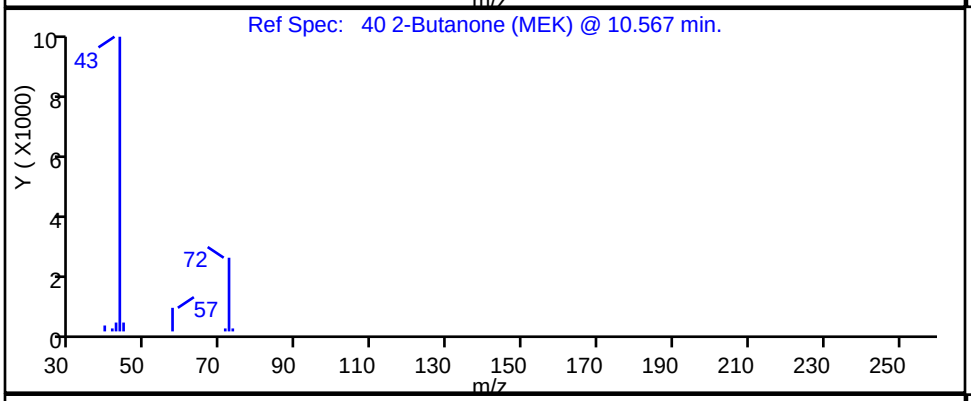
40 2-Butanone (MEK), CAS: 78-93-3

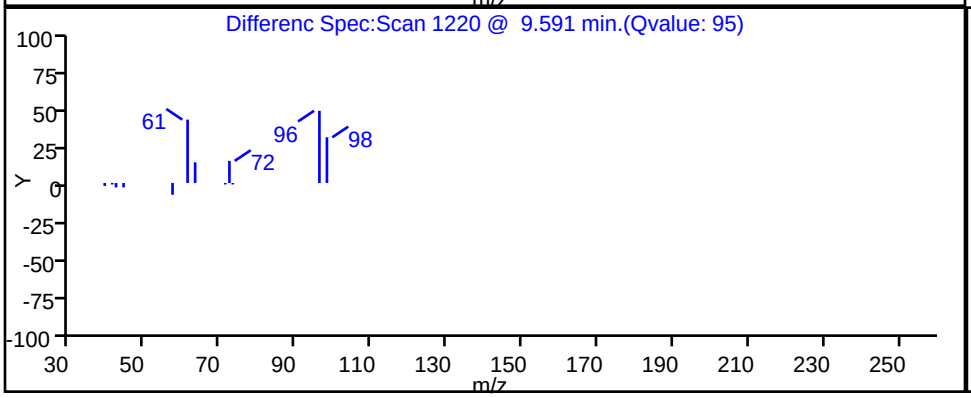


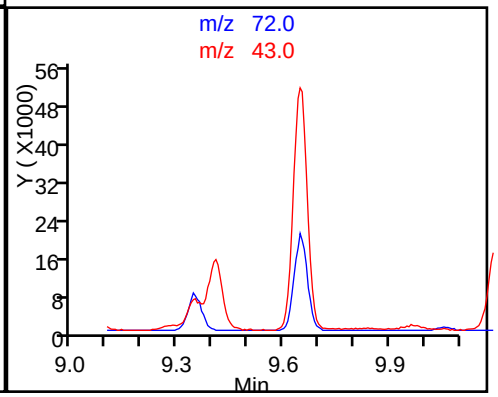












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TestAmerica Burlington

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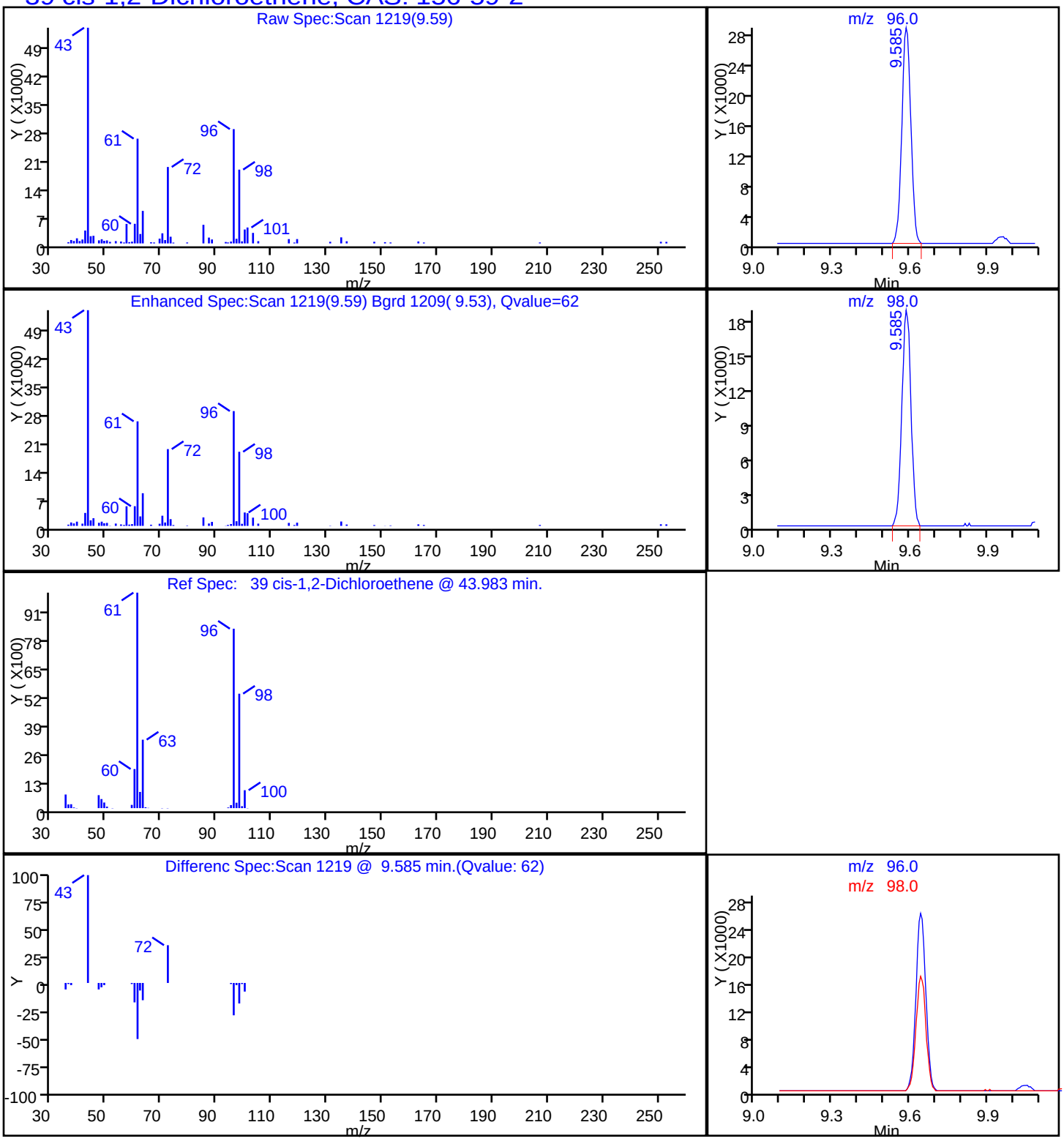
Lims ID:	200-21380-A-2	Lab Sample ID:	200-21380-2		
Client ID:	OFFICE-SS-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



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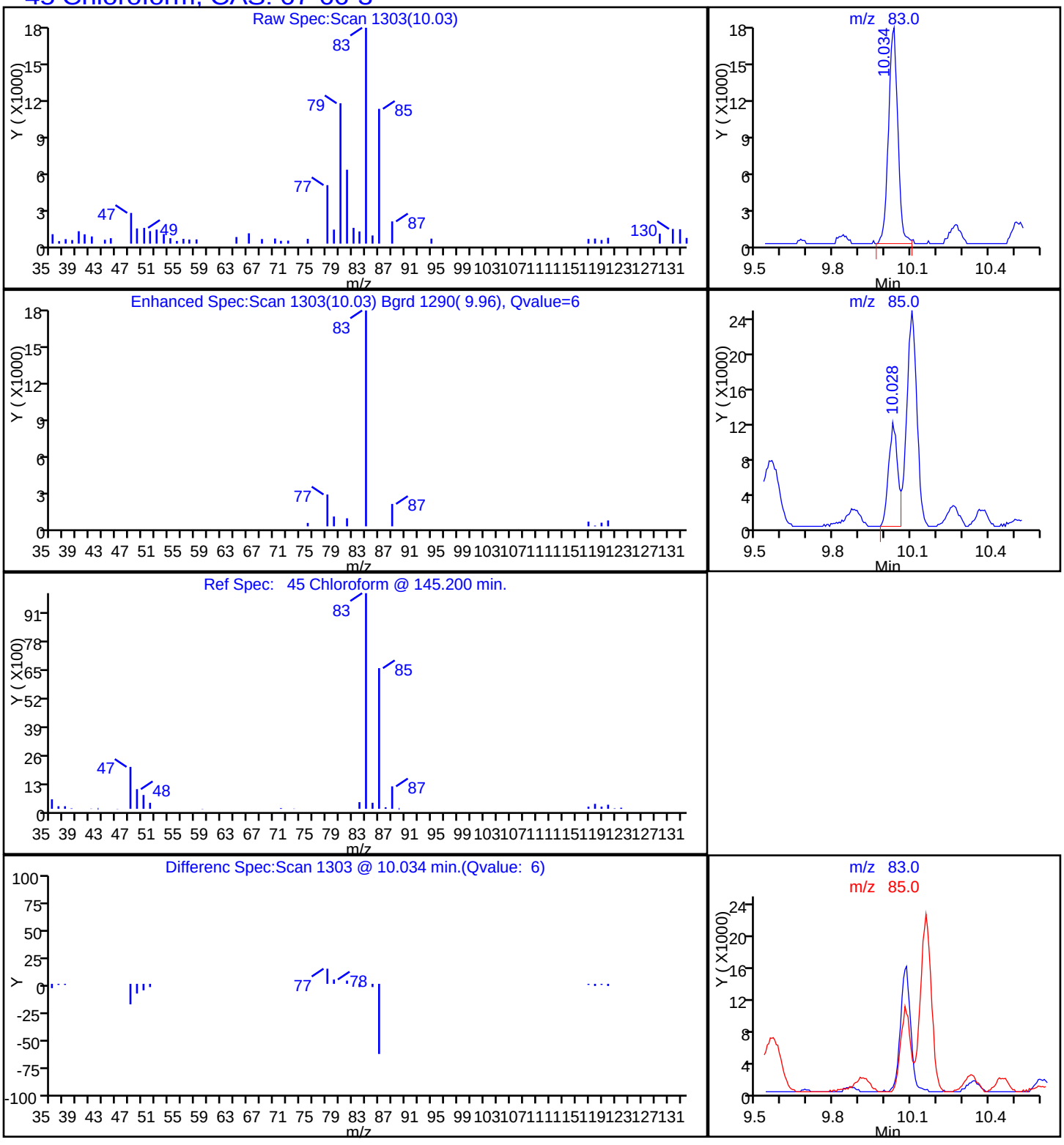
Client ID:	OFFICE-SS-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

45 Chloroform, CAS: 67-66-3



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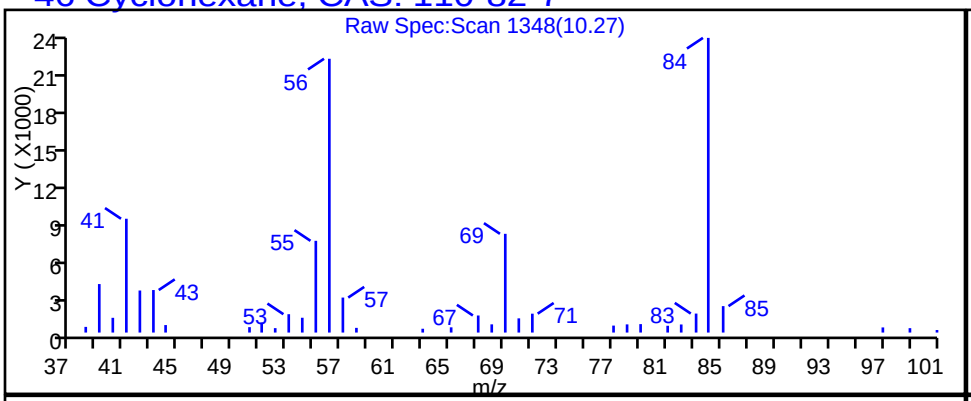
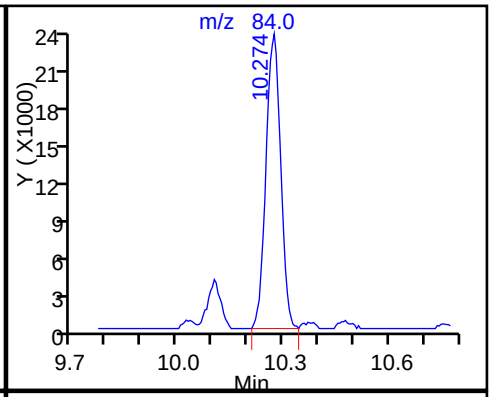
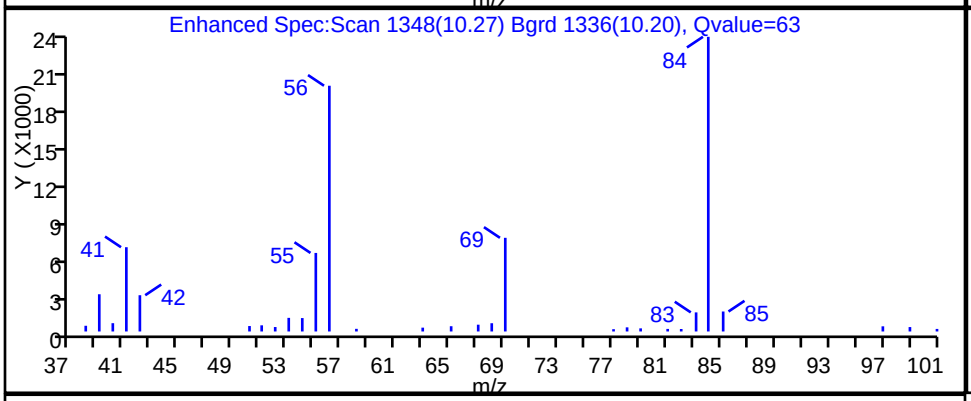
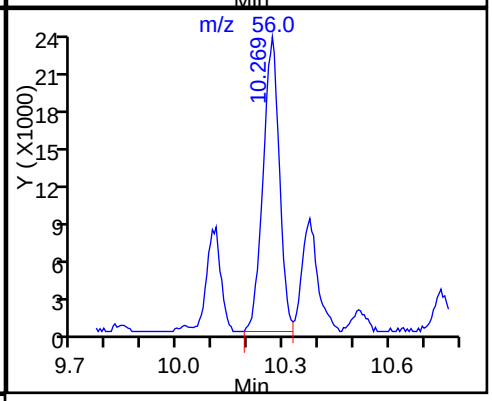
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

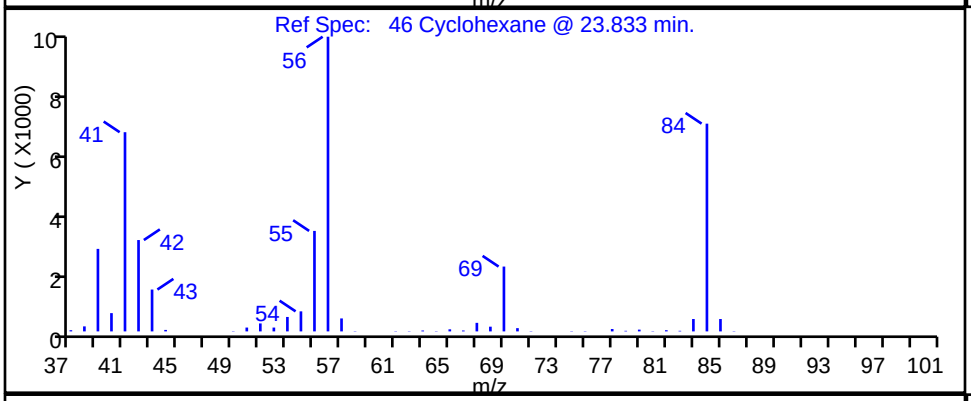
46 Cyclohexane, CAS: 110-82-7

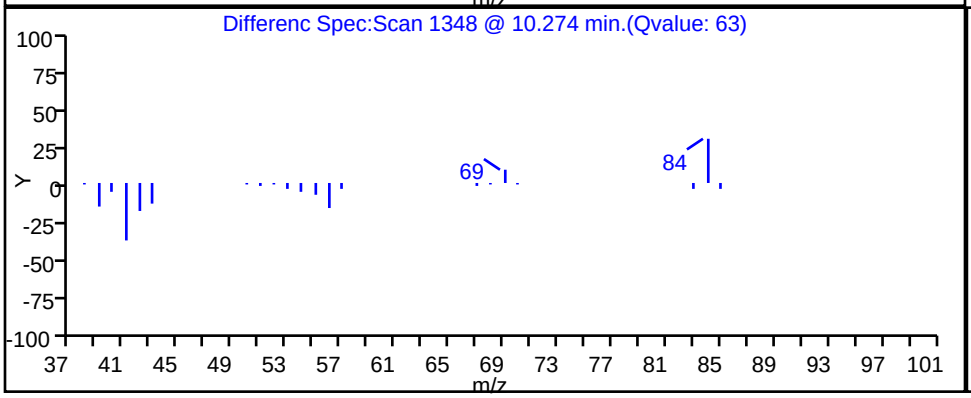


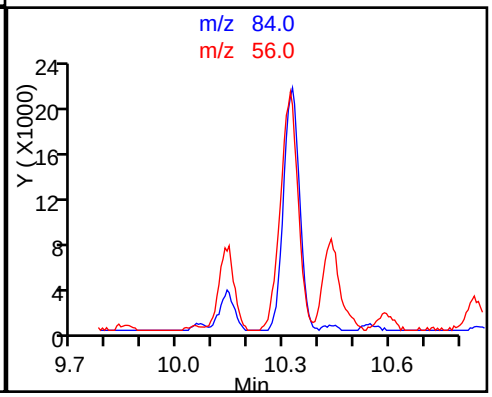












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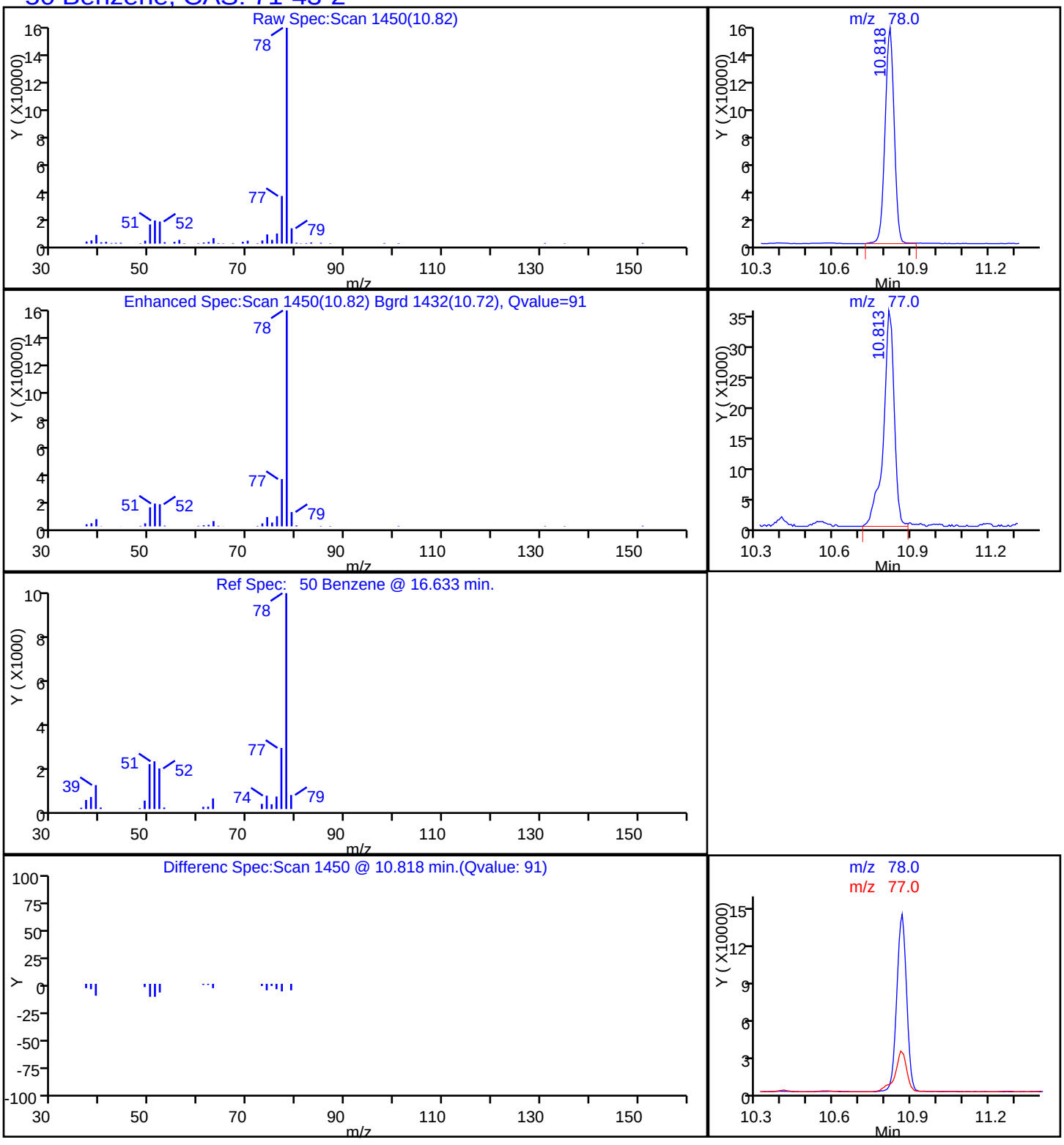
Injection Date:	21-Mar-2014 15:17:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-2	Lab Sample ID:	200-21380-2		
Client ID:	OFFICE-SS-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

50 Benzene, CAS: 71-43-2



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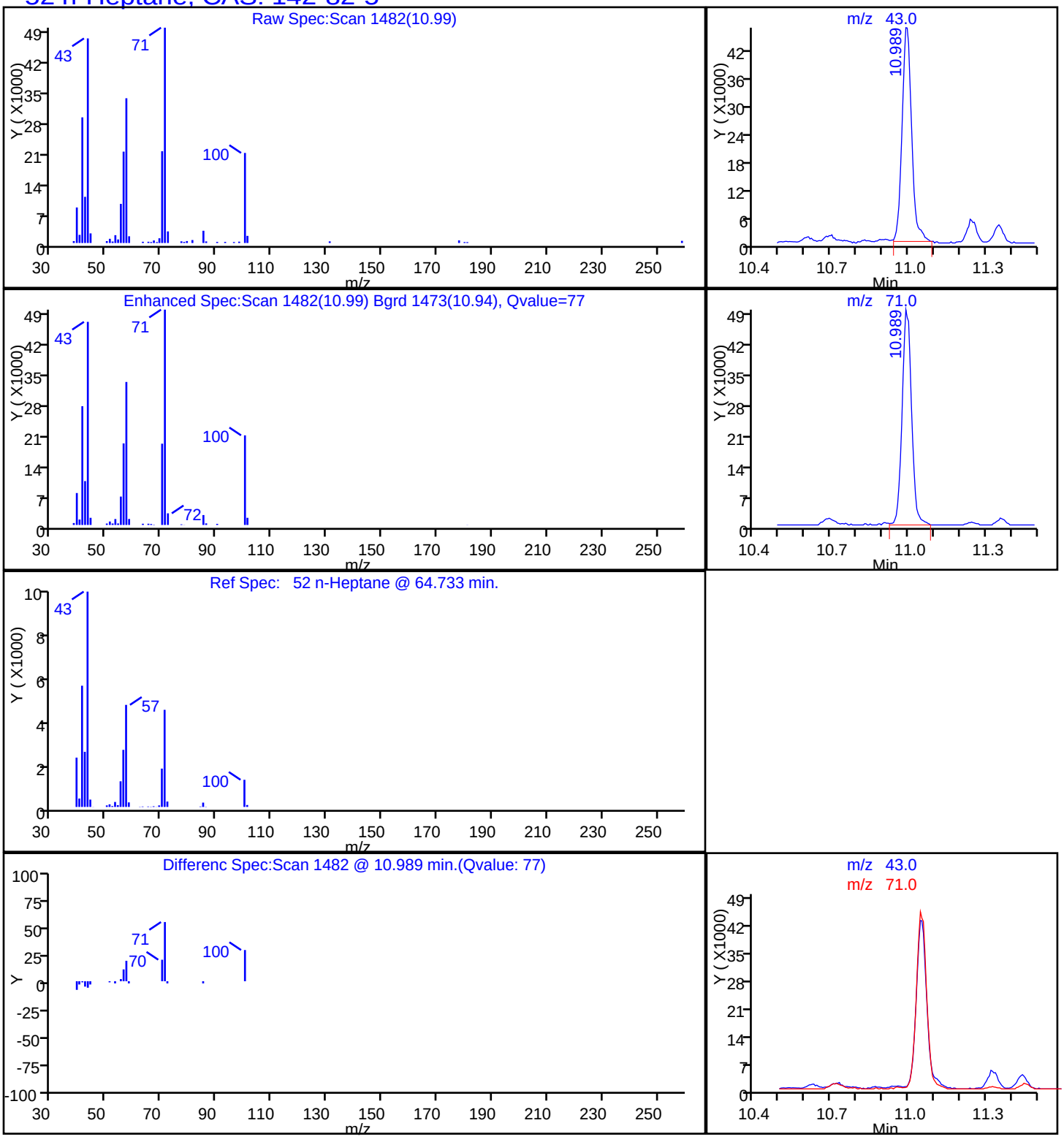
Client ID:	OFFICE-SS-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

52 n-Heptane, CAS: 142-82-5



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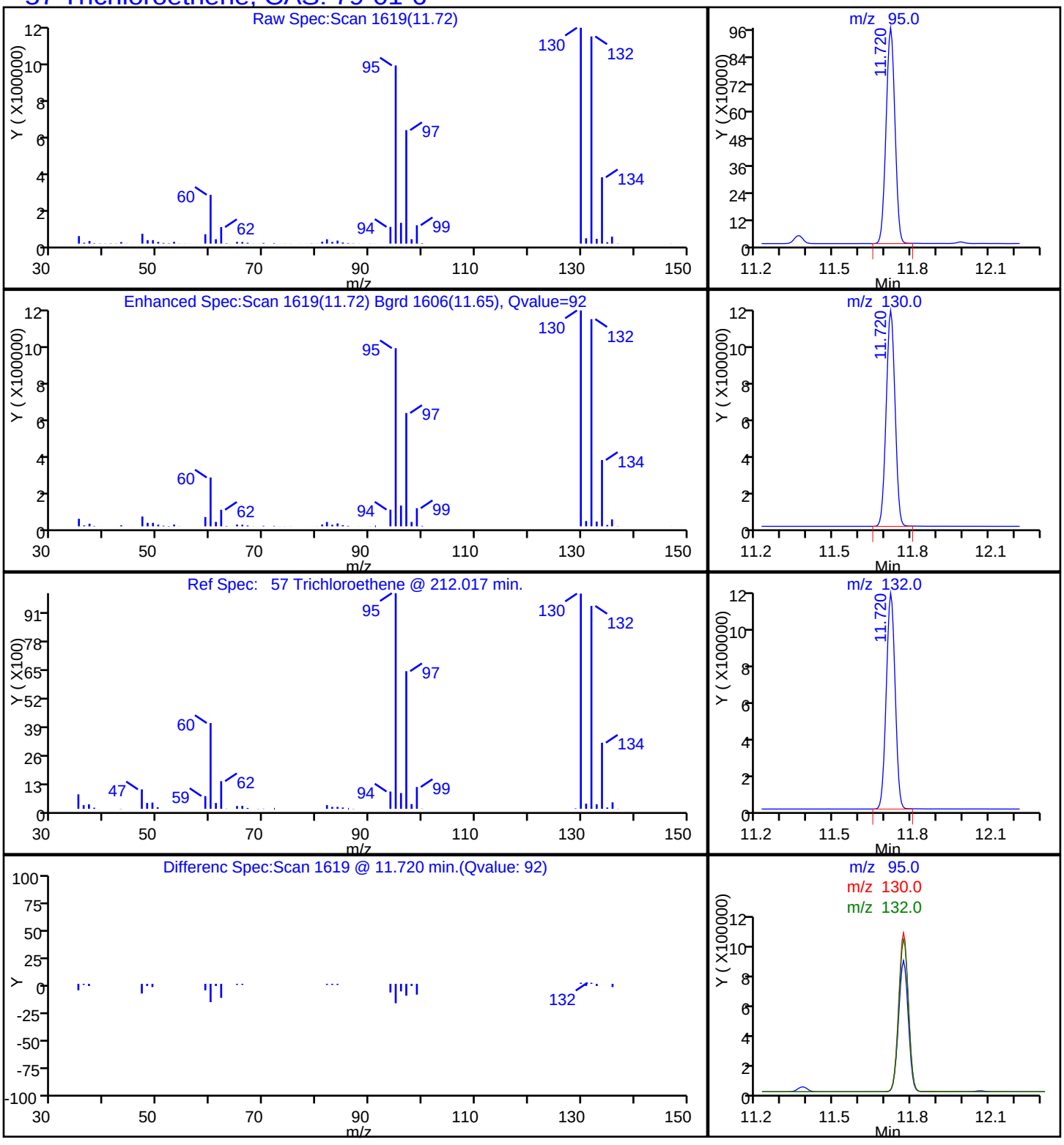
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

57 Trichloroethene, CAS: 79-01-6



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TestAmerica Burlington

Data File:	\\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_008.D				
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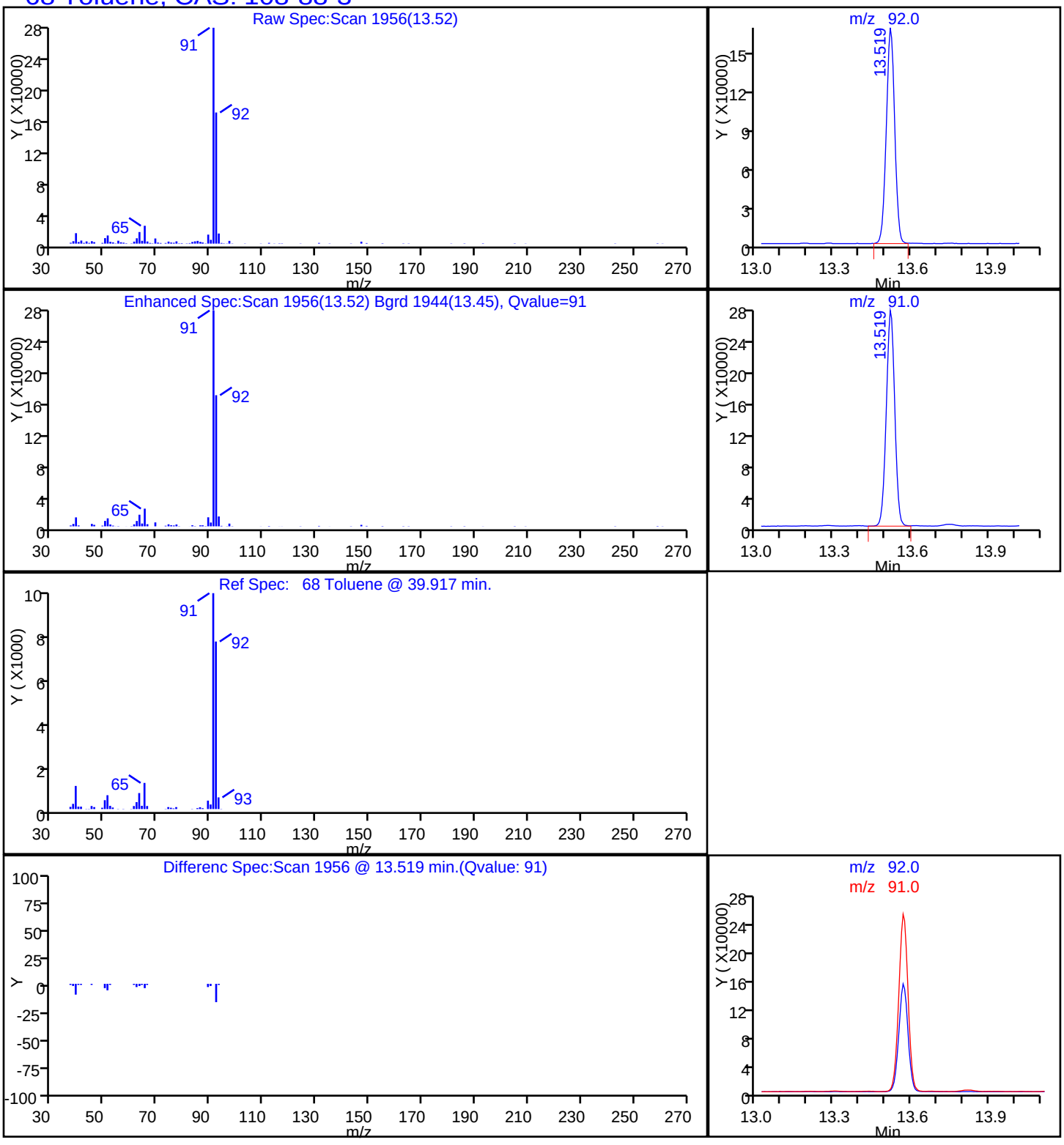
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Toluene, CAS: 108-88-3



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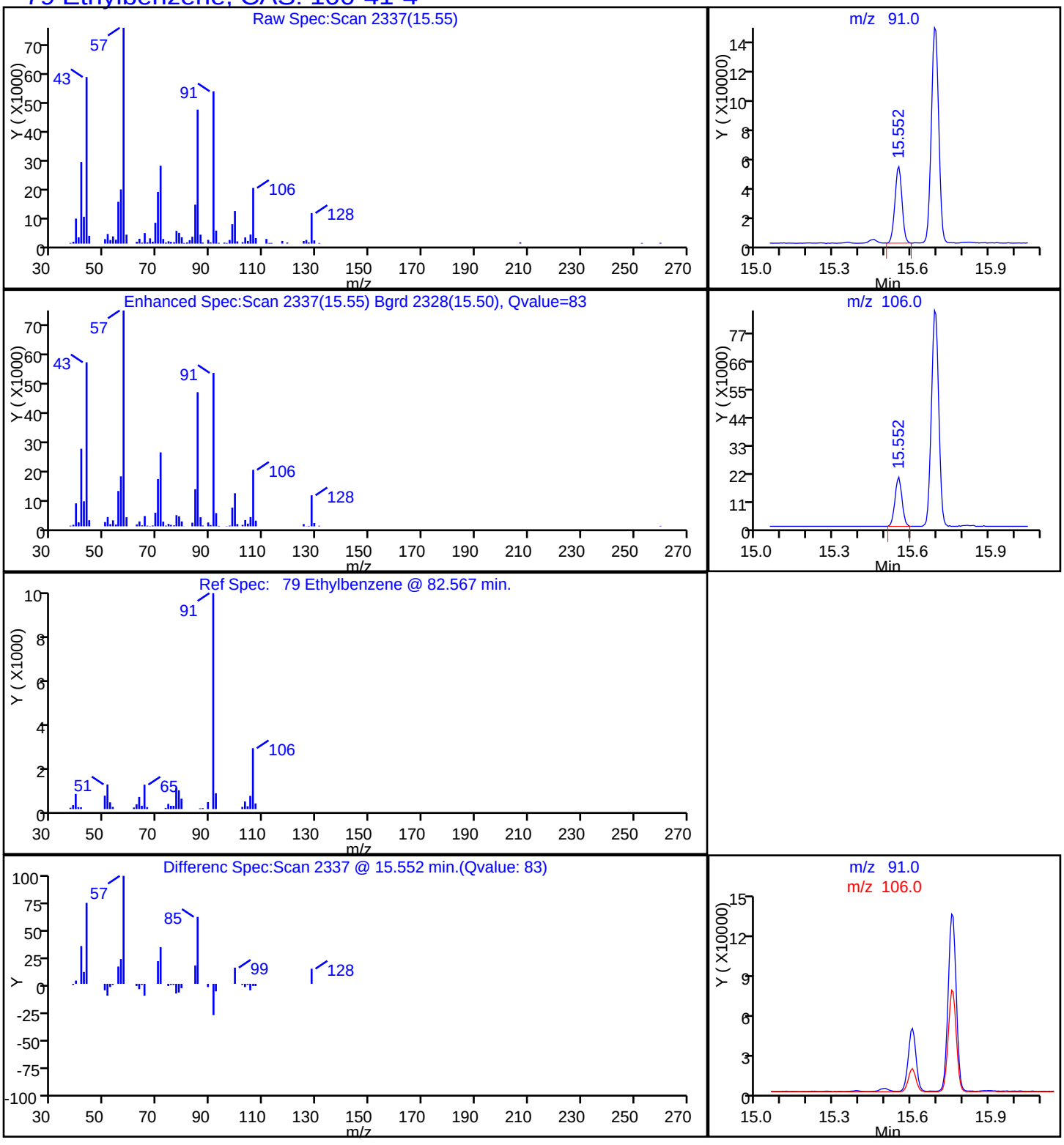
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

79 Ethylbenzene, CAS: 100-41-4



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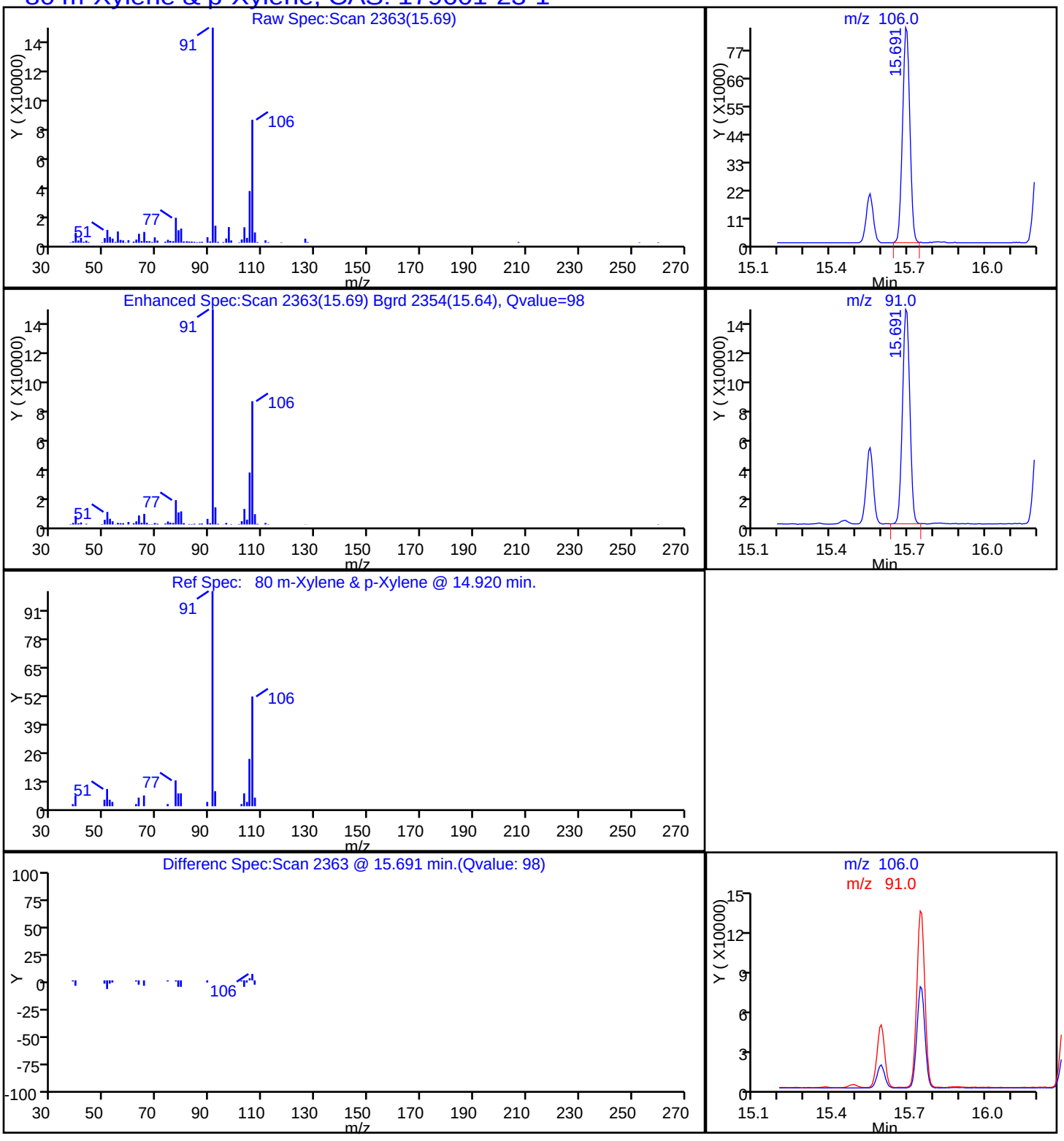
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

80 m-Xylene & p-Xylene, CAS: 179601-23-1



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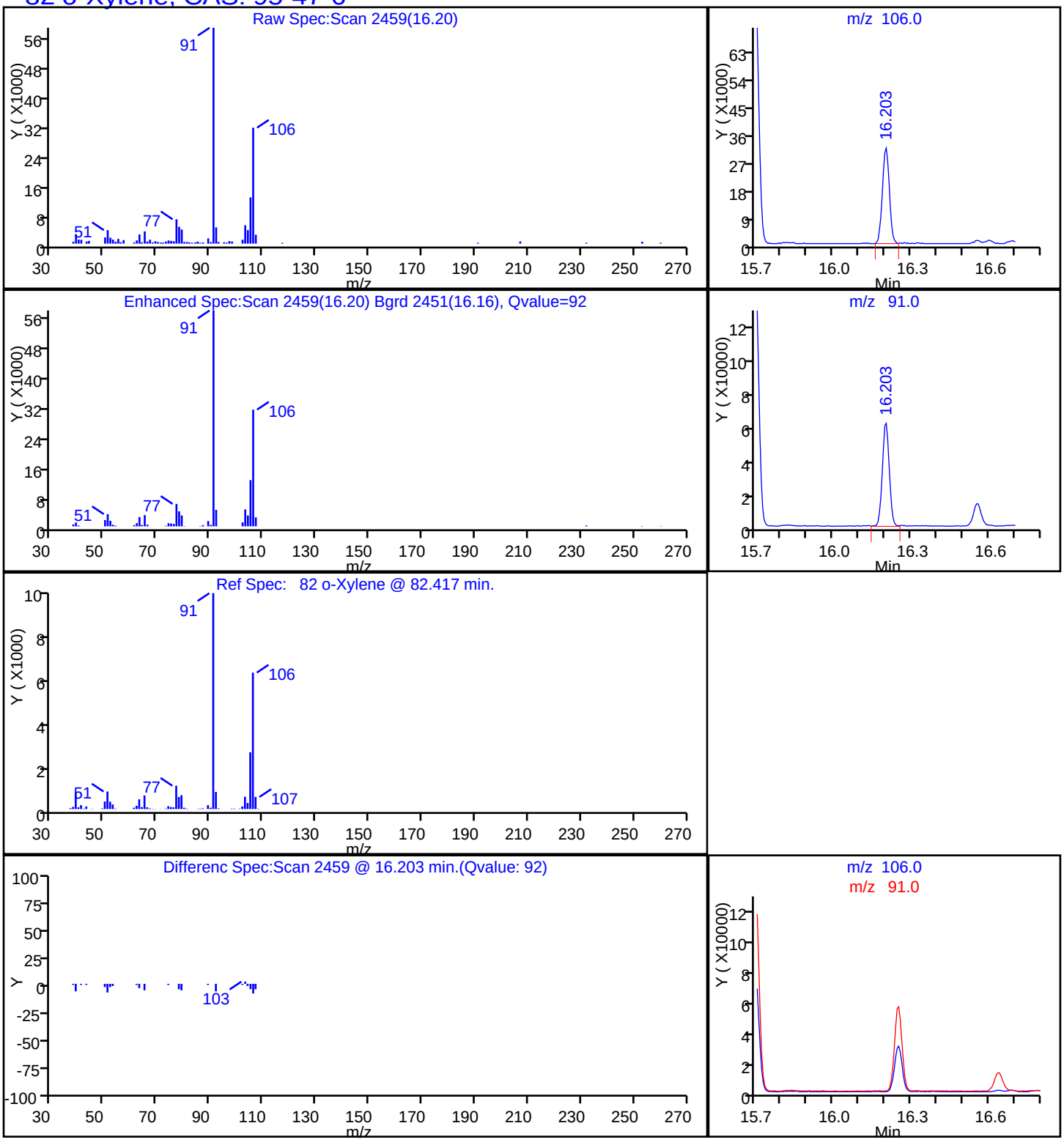
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



Manual Integration/User Assign Peak Report

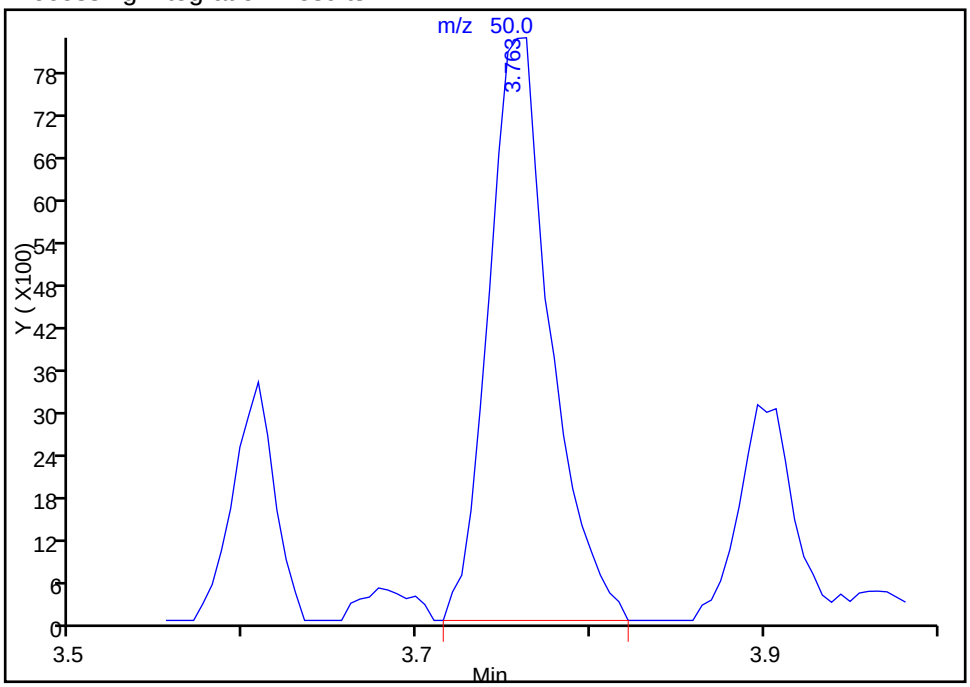
TestAmerica Burlington

Data File:	\\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_008.D				
Injection Date:	21-Mar-2014 15:17:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-2	Lab Sample ID:	200-21380-2		
Client ID:	OFFICE-SS-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

8 Chloromethane, CAS: 74-87-3

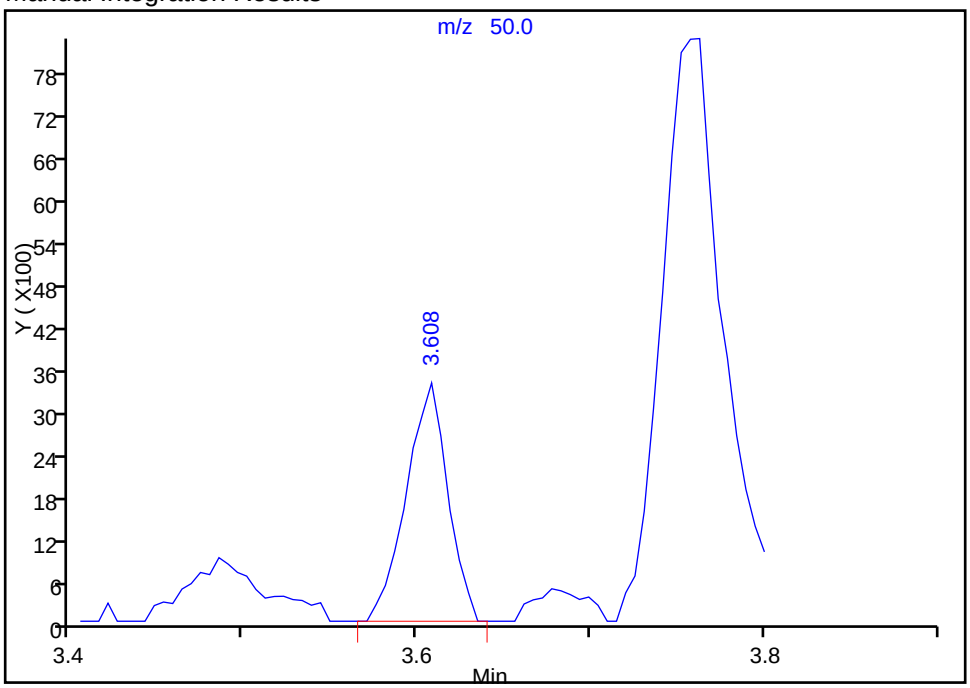
Processing Integration Results

RT: 3.76
Response: 20562
Amount: 1.014931



Manual Integration Results

RT: 3.61
Response: 5616
Amount: 0.277203



Reviewer: daiglep, 24-Mar-2014 11:28:15
Audit Action: Manually Integrated
Audit Reason: Analyte misidentified by the data system

Manual Integration/User Assign Peak Report

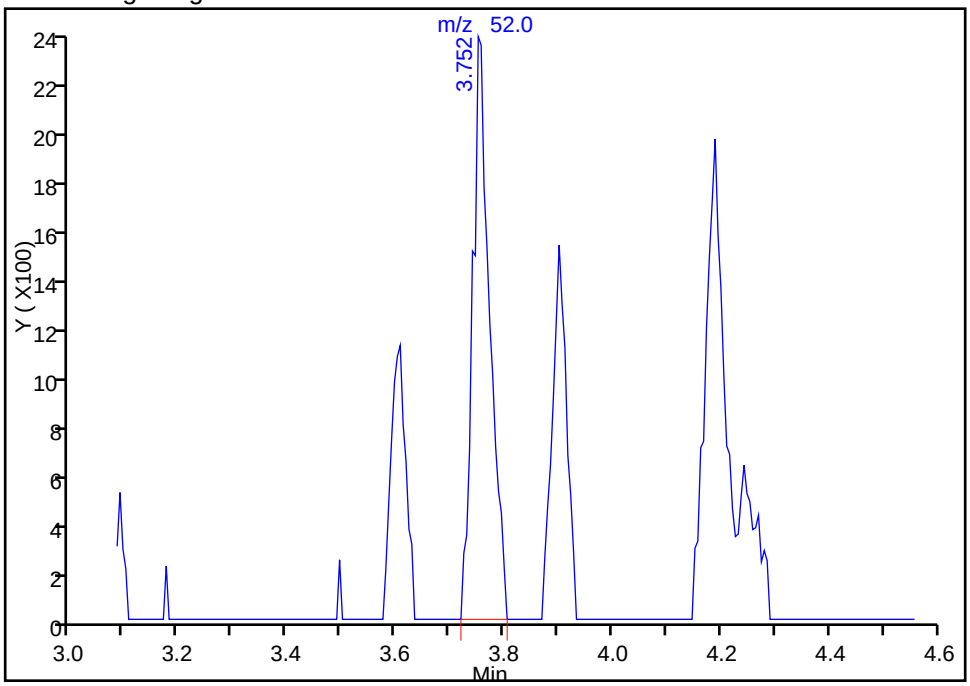
TestAmerica Burlington

Data File:	\\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_008.D				
Injection Date:	21-Mar-2014 15:17:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-2	Lab Sample ID:	200-21380-2		
Client ID:	OFFICE-SS-031114				
Operator ID:	pad	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

8 Chloromethane, CAS: 74-87-3

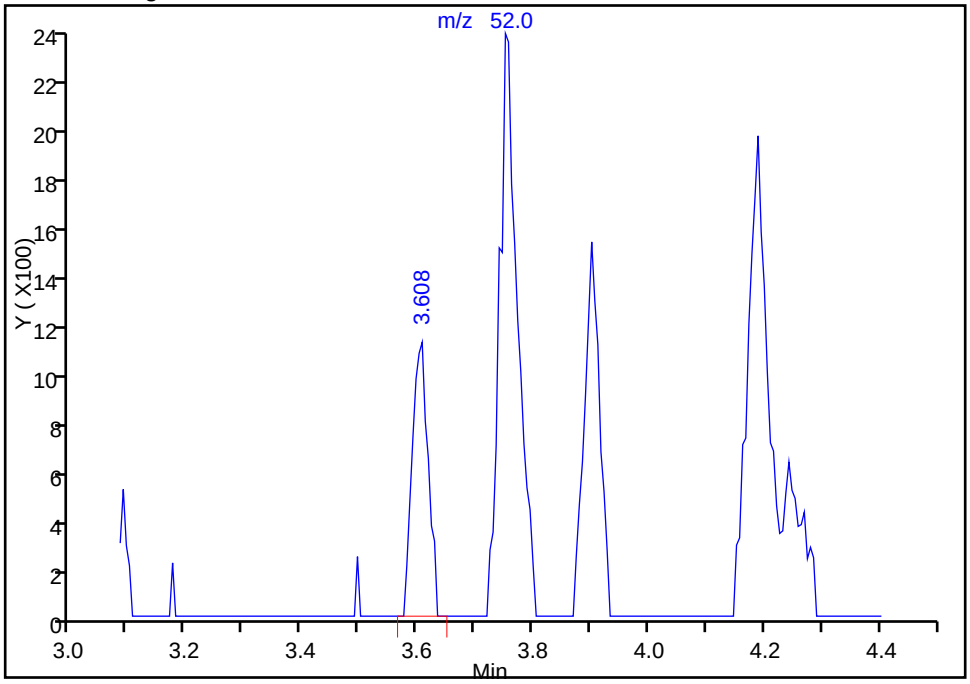
Processing Integration Results

RT: 3.75
Response: 5138
Amount: 1.014931



Manual Integration Results

RT: 3.61
Response: 2097
Amount: 0.277203



Reviewer: daiglep, 24-Mar-2014 11:28:15
Audit Action: Manually Integrated
Audit Reason: Analyte misidentified by the data system

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: SEATING-INDOOR-031114 Lab Sample ID: 200-21380-3

Matrix: Air Lab File ID: 6619_024.D

Analysis Method: TO-15 Date Collected: 03/12/2014 09:50

Sample wt/vol: 306(mL) Date Analyzed: 03/21/2014 05:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69697 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	120.91	0.58		0.50	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	
74-87-3	Chloromethane	50.49	0.57		0.50	
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	
74-83-9	Bromomethane	94.94	0.20	U	0.20	
75-00-3	Chloroethane	64.52	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	137.37	0.26		0.20	
76-13-1	Freon TF	187.38	0.20	U	0.20	
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	
67-64-1	Acetone	58.08	6.8		5.0	
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	
75-09-2	Methylene Chloride	84.93	1.0		0.50	
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	
110-54-3	n-Hexane	86.17	0.20	U	0.20	
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	
78-93-3	Methyl Ethyl Ketone	72.11	0.79		0.50	
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	
67-66-3	Chloroform	119.38	0.37		0.20	
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	
110-82-7	Cyclohexane	84.16	0.20	U	0.20	
56-23-5	Carbon tetrachloride	153.81	0.20	U	0.20	
71-43-2	Benzene	78.11	0.24		0.20	
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	
142-82-5	n-Heptane	100.21	0.20	U	0.20	
79-01-6	Trichloroethene	131.39	0.20	U	0.20	
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	
108-88-3	Toluene	92.14	0.25		0.20	
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: SEATING-INDOOR-031114 Lab Sample ID: 200-21380-3

Matrix: Air Lab File ID: 6619_024.D

Analysis Method: TO-15 Date Collected: 03/12/2014 09:50

Sample wt/vol: 306(mL) Date Analyzed: 03/21/2014 05:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69697 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	
100-41-4	Ethylbenzene	106.17	0.20	U	0.20	
179601-23-1	m,p-Xylene	106.17	0.50	U	0.50	
95-47-6	Xylene, o-	106.17	0.20	U	0.20	
100-42-5	Styrene	104.15	0.20	U	0.20	
75-25-2	Bromoform	252.75	0.20	U	0.20	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20	U	0.20	
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: SEATING-INDOOR-031114 Lab Sample ID: 200-21380-3

Matrix: Air Lab File ID: 6619_024.D

Analysis Method: TO-15 Date Collected: 03/12/2014 09:50

Sample wt/vol: 306(mL) Date Analyzed: 03/21/2014 05:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69697 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	120.91	2.9		2.5	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	
74-87-3	Chloromethane	50.49	1.2		1.0	
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	
74-83-9	Bromomethane	94.94	0.78	U	0.78	
75-00-3	Chloroethane	64.52	1.3	U	1.3	
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	
76-13-1	Freon TF	187.38	1.5	U	1.5	
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	
67-64-1	Acetone	58.08	16		12	
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	
75-09-2	Methylene Chloride	84.93	3.5		1.7	
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	
110-54-3	n-Hexane	86.17	0.70	U	0.70	
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	
78-93-3	Methyl Ethyl Ketone	72.11	2.3		1.5	
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	
67-66-3	Chloroform	119.38	1.8		0.98	
109-99-9	Tetrahydrofuran	72.11	15	U	15	
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	
110-82-7	Cyclohexane	84.16	0.69	U	0.69	
56-23-5	Carbon tetrachloride	153.81	1.3	U	1.3	
71-43-2	Benzene	78.11	0.78		0.64	
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	
142-82-5	n-Heptane	100.21	0.82	U	0.82	
79-01-6	Trichloroethene	131.39	1.1	U	1.1	
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	
108-88-3	Toluene	92.14	0.93		0.75	
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: SEATING-INDOOR-031114 Lab Sample ID: 200-21380-3

Matrix: Air Lab File ID: 6619_024.D

Analysis Method: TO-15 Date Collected: 03/12/2014 09:50

Sample wt/vol: 306(mL) Date Analyzed: 03/21/2014 05:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69697 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	
100-41-4	Ethylbenzene	106.17	0.87	U	0.87	
179601-23-1	m,p-Xylene	106.17	2.2	U	2.2	
95-47-6	Xylene, o-	106.17	0.87	U	0.87	
100-42-5	Styrene	104.15	0.85	U	0.85	
75-25-2	Bromoform	252.75	2.1	U	2.1	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98	U	0.98	
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_024.D
Lims ID: 200-21380-A-3 Lab Sample ID: 200-21380-3
Client ID: SEATING-INDOOR-031114
Sample Type: Client
Inject. Date: 21-Mar-2014 05:38:30 ALS Bottle#: 7 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006619-024
Misc. Info.: 21380-03
Operator ID: pad Instrument ID: CHB.i

Method: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 21-Mar-2014 09:42:20 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK031

First Level Reviewer: daiglep Date: 21-Mar-2014 09:33:30

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
5 Dichlorodifluoromethane	85	3.234	3.234	0.0	98	56121	0.5837	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.469					
8 Chloromethane	50	3.603	3.608	-0.005	94	10171	0.5711	
10 Vinyl chloride	62		3.832					
11 Butadiene	54		3.907					
12 Bromomethane	94		4.633					
14 Chloroethane	64		4.873					
17 Trichlorofluoromethane	101	5.385	5.391	-0.006	87	44018	0.2621	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.431	6.442	-0.011	46	11411	0.0778	
24 1,1-Dichloroethene	96		6.527					
25 Acetone	43	6.714	6.719	-0.005	90	363846	6.82	
27 Carbon disulfide	76		6.954					
31 Methylene Chloride	49	7.520	7.520	0.0	76	44322	1.01	
33 Methyl tert-butyl ether	73		7.846					
34 trans-1,2-Dichloroethene	61		7.915					
36 Hexane	57	8.230	8.230	0.0	78	13823	0.1850	
37 1,1-Dichloroethane	63		8.683					
* 44 Chlorobromomethane	128	9.959	9.964	-0.005	69	658523	10.0	
39 cis-1,2-Dichloroethene	96		9.591					
40 2-Butanone (MEK)	72	9.591	9.596	-0.005	98	25825	0.7871	
43 Tetrahydrofuran	42		9.959					
45 Chloroform	83	10.028	10.034	-0.006	88	50782	0.3671	
46 Cyclohexane	84		10.274					
47 1,1,1-Trichloroethane	97		10.284					
48 Carbon tetrachloride	117	10.466	10.477	-0.011	89	12166	0.0751	
50 Benzene	78	10.818	10.824	-0.006	91	50246	0.2439	
51 1,2-Dichloroethane	62		10.936					
52 n-Heptane	43	10.989	10.994	-0.005	63	7837	0.1157	
* 54 1,4-Difluorobenzene	114	11.363	11.368	-0.005	91	3156075	10.0	
57 Trichloroethene	95	11.725	11.720	0.005	71	6583	0.0641	
58 1,2-Dichloropropane	63		12.115					

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response			On-Col Amt ppb v/v	Flags
	62	Dichlorobromomethane		83		12.473				
	64	cis-1,3-Dichloropropene		75		13.097				
	65	4-Methyl-2-pentanone (MIBK)		43		13.257				
	68	Toluene		92	13.519	13.524	-0.005	90	42078	0.2465
	70	trans-1,3-Dichloropropene		75		13.898				
	71	1,1,2-Trichloroethane		83		14.170				
	72	Tetrachloroethene		166		14.276				
	73	2-Hexanone		43		14.426				
	74	Chlorodibromomethane		129		14.709				
	75	Ethylene Dibromide		107		14.912				
*	76	Chlorobenzene-d5		117	15.451	15.456	-0.005	81	2757560	10.0
	77	Chlorobenzene		112		15.493				
	79	Ethylbenzene		91	15.552	15.552	0.0	79	15260	0.0445
	80	m-Xylene & p-Xylene		106	15.696	15.696	0.0	99	17193	0.1139
	82	o-Xylene		106	16.203	16.203	0.0	65	6658	0.0426
	83	Styrene		104	16.230	16.230	0.0	91	19895	0.0833
	84	Bromoform		173		16.529				
$	86	4-Bromofluorobenzene		95	16.870	16.870	0.0	98	1741536	NC
	87	1,1,2,2-Tetrachloroethane		83		17.025				
	91	4-Ethyltoluene		105		17.206				
	93	1,3,5-Trimethylbenzene		105		17.276				
	96	1,2,4-Trimethylbenzene		105	17.724	17.729	-0.005	64	25011	0.0652
	99	1,3-Dichlorobenzene		146		18.162				
	100	1,4-Dichlorobenzene		146		18.274				
	104	1,2-Dichlorobenzene		146		18.776				
	107	1,2,4-Trichlorobenzene		180		21.225				
	108	Hexachlorobutadiene		225		21.385				

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

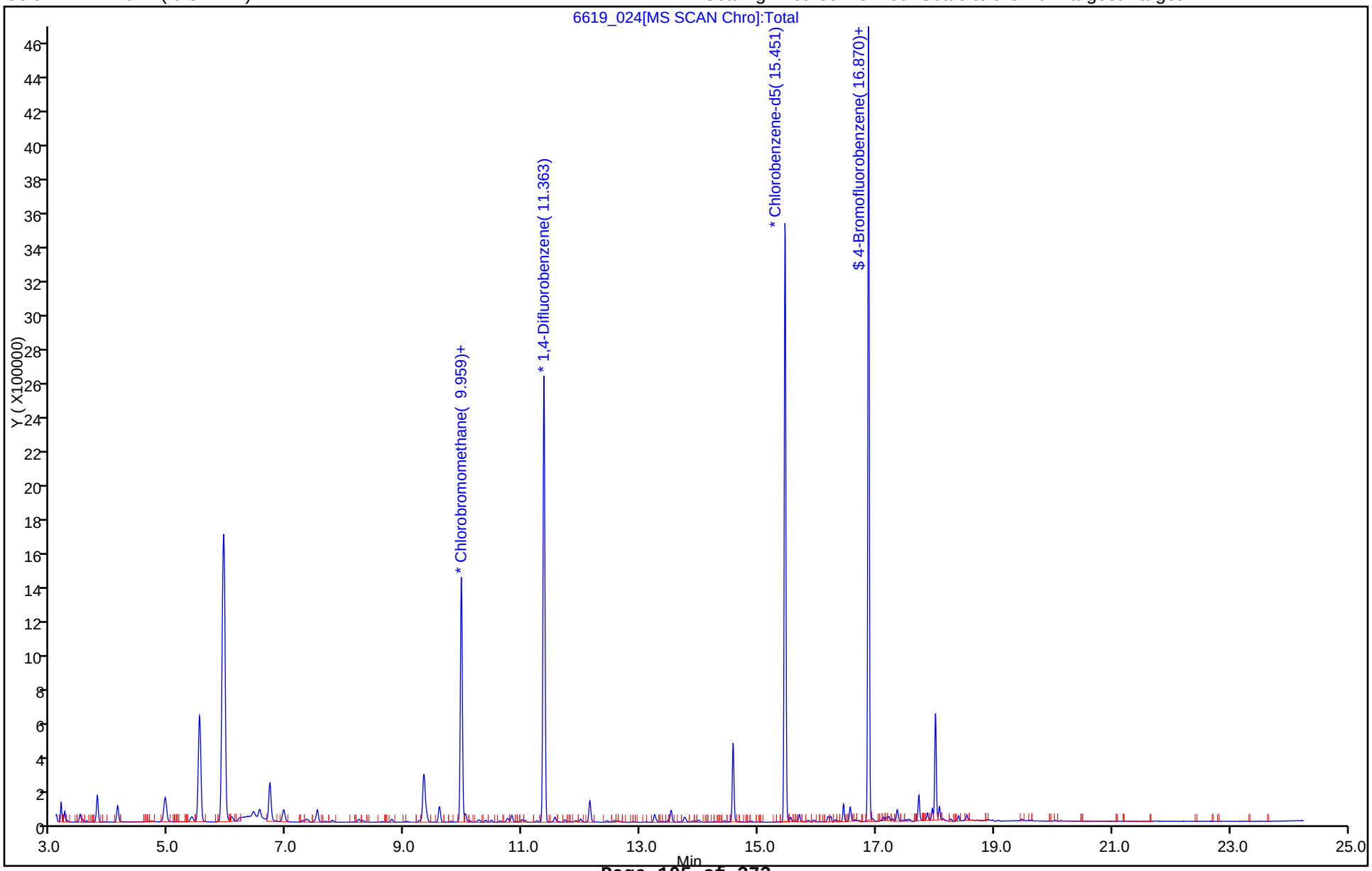
Report Date: 21-Mar-2014 09:42:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_024.D

Injection Date:	21-Mar-2014 05:38:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	200-21380-A-3	Lab Sample ID:	200-21380-3	Worklist Smp#:	24
Client ID:	SEATING-INDOOR-031114				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



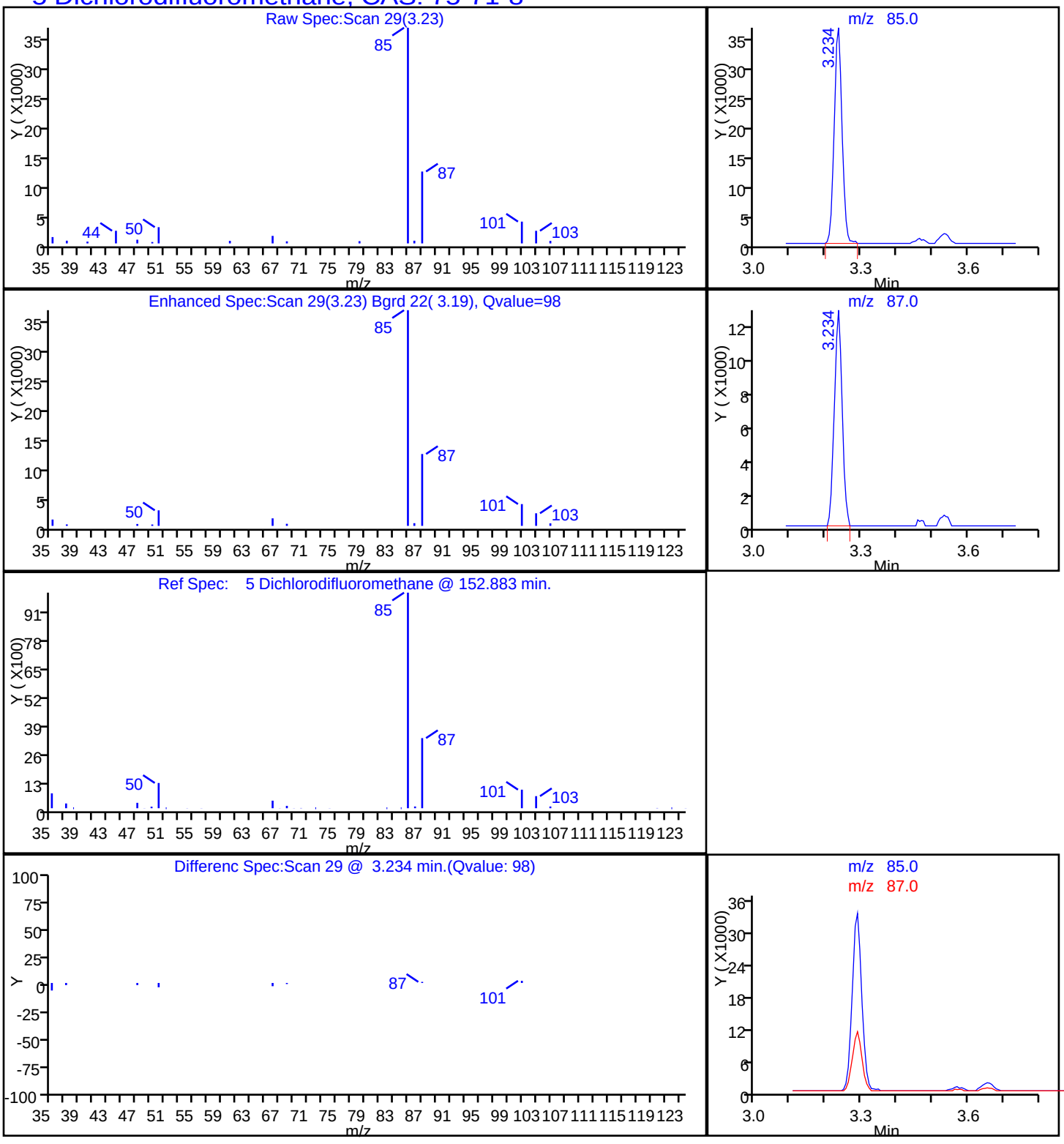
Report Date: 21-Mar-2014 09:42:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_024.D

Injection Date:	21-Mar-2014 05:38:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-3	Lab Sample ID:	200-21380-3		
Client ID:	SEATING-INDOOR-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

5 Dichlorodifluoromethane, CAS: 75-71-8



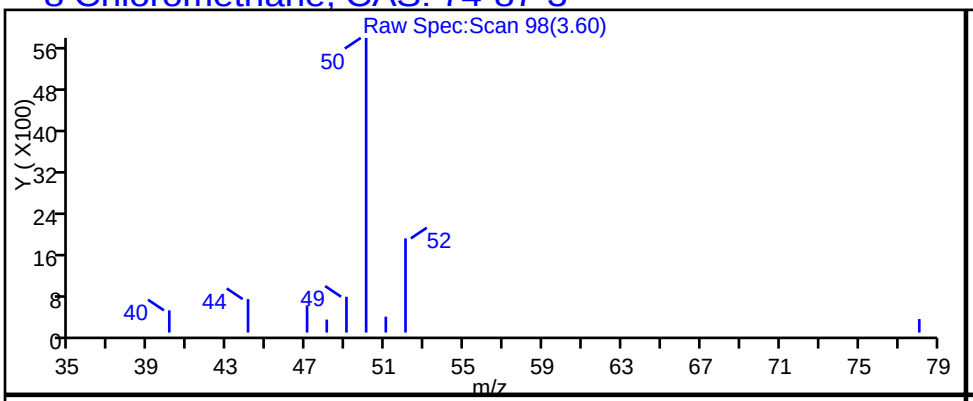
Report Date: 21-Mar-2014 09:42:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

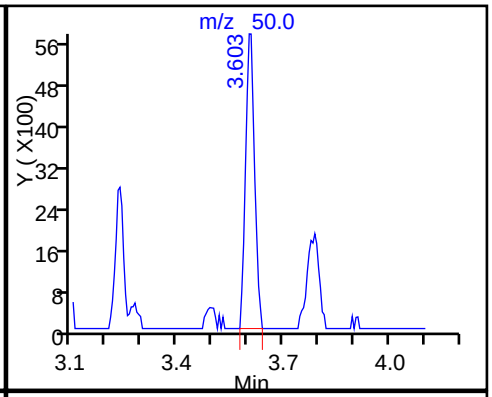
TestAmerica Burlington

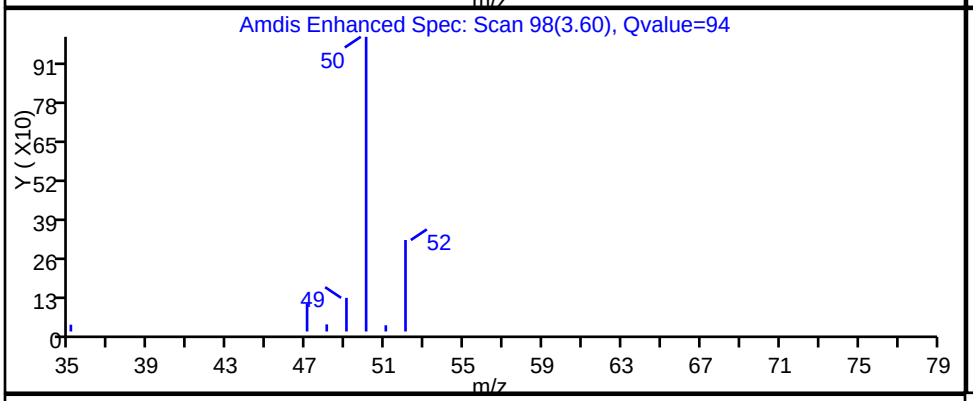
Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_024.D

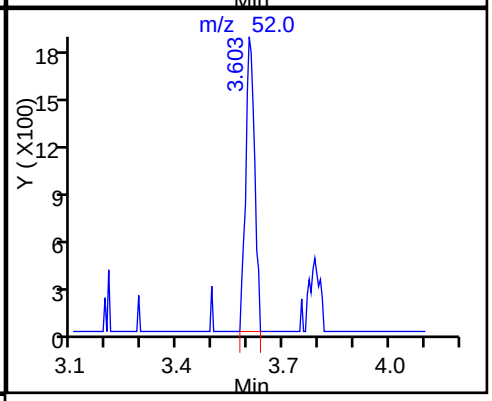
Injection Date:	21-Mar-2014 05:38:30	Instrument ID:	CHB.i
Lims ID:	200-21380-A-3	Lab Sample ID:	200-21380-3
Client ID:	SEATING-INDOOR-031114		
Operator ID:	pad	ALS Bottle#:	7 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

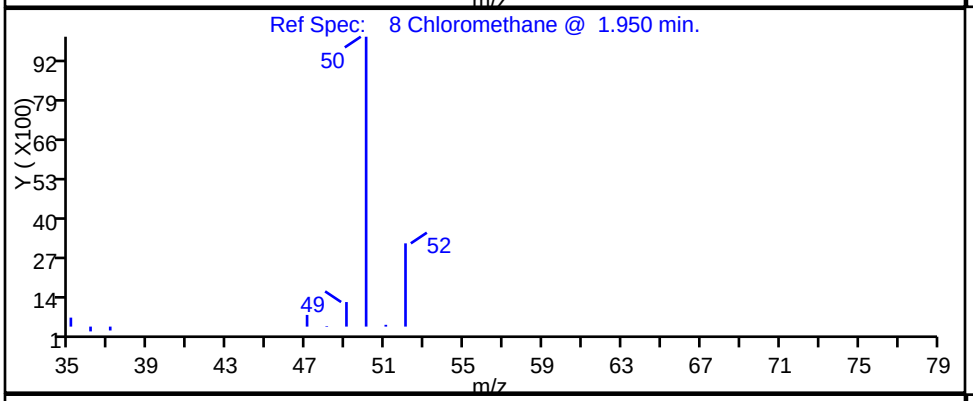
8 Chloromethane, CAS: 74-87-3

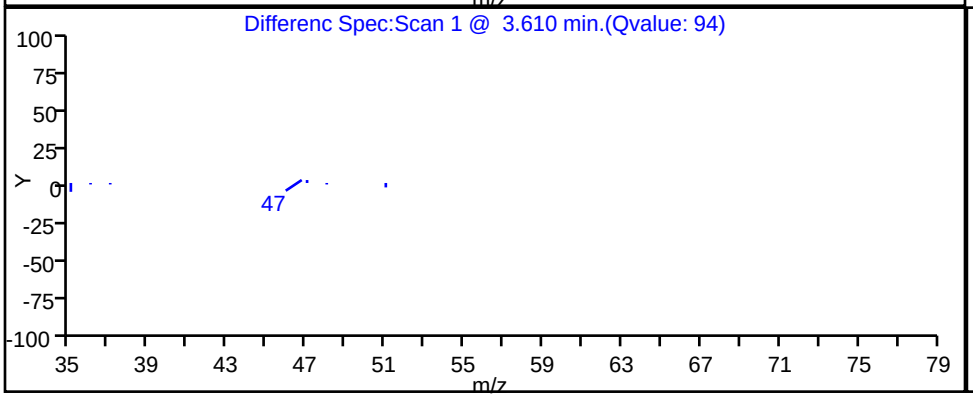


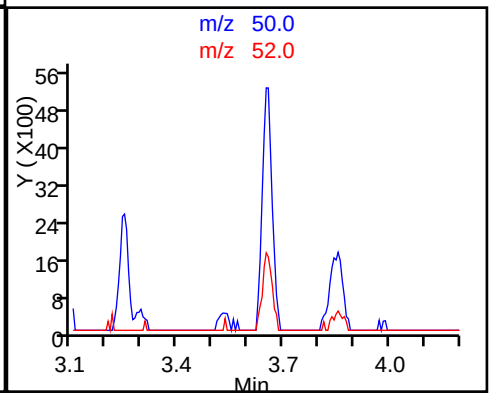












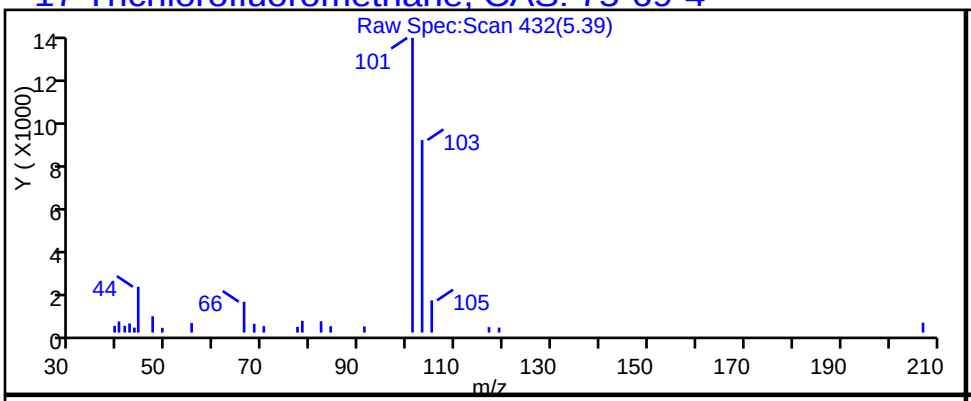
Report Date: 21-Mar-2014 09:42:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

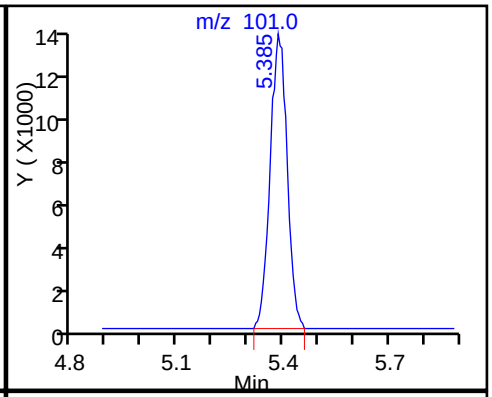
TestAmerica Burlington

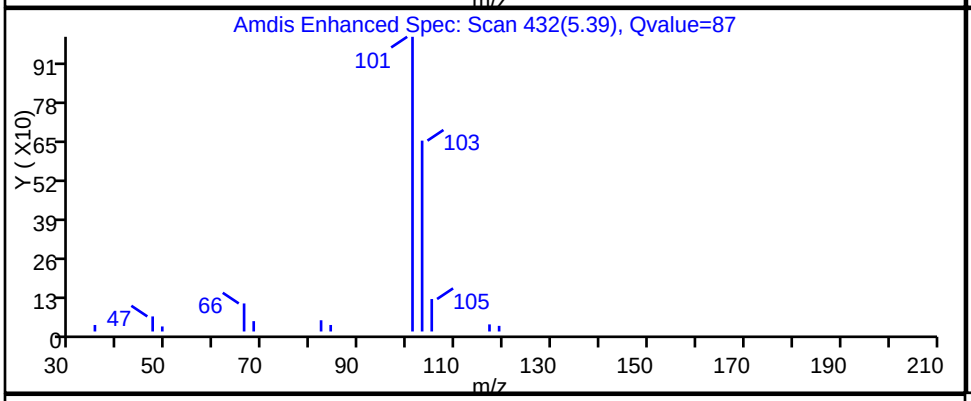
Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_024.D

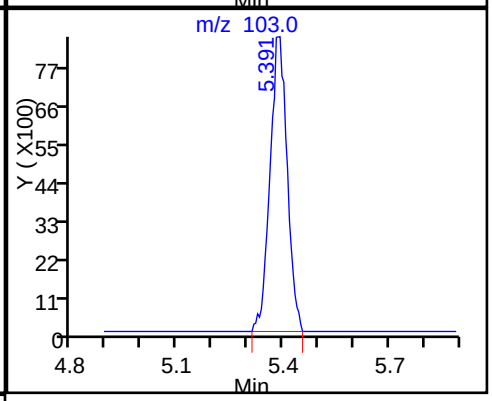
Injection Date:	21-Mar-2014 05:38:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-3	Lab Sample ID:	200-21380-3		
Client ID:	SEATING-INDOOR-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

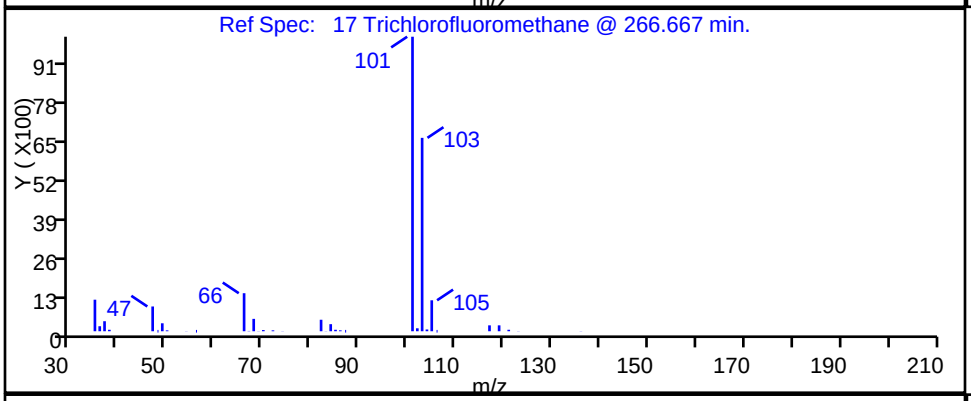
17 Trichlorofluoromethane, CAS: 75-69-4

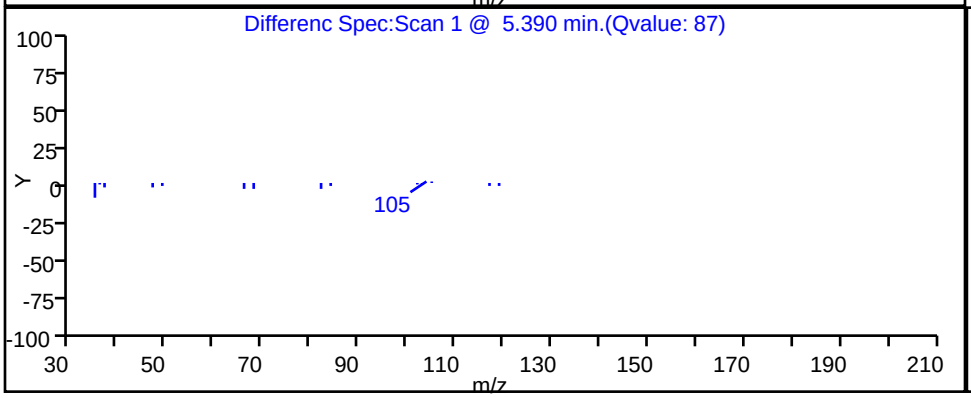


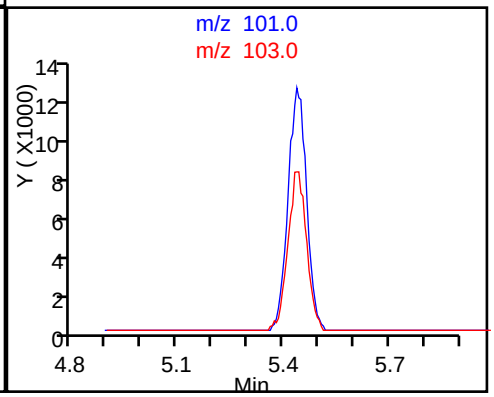












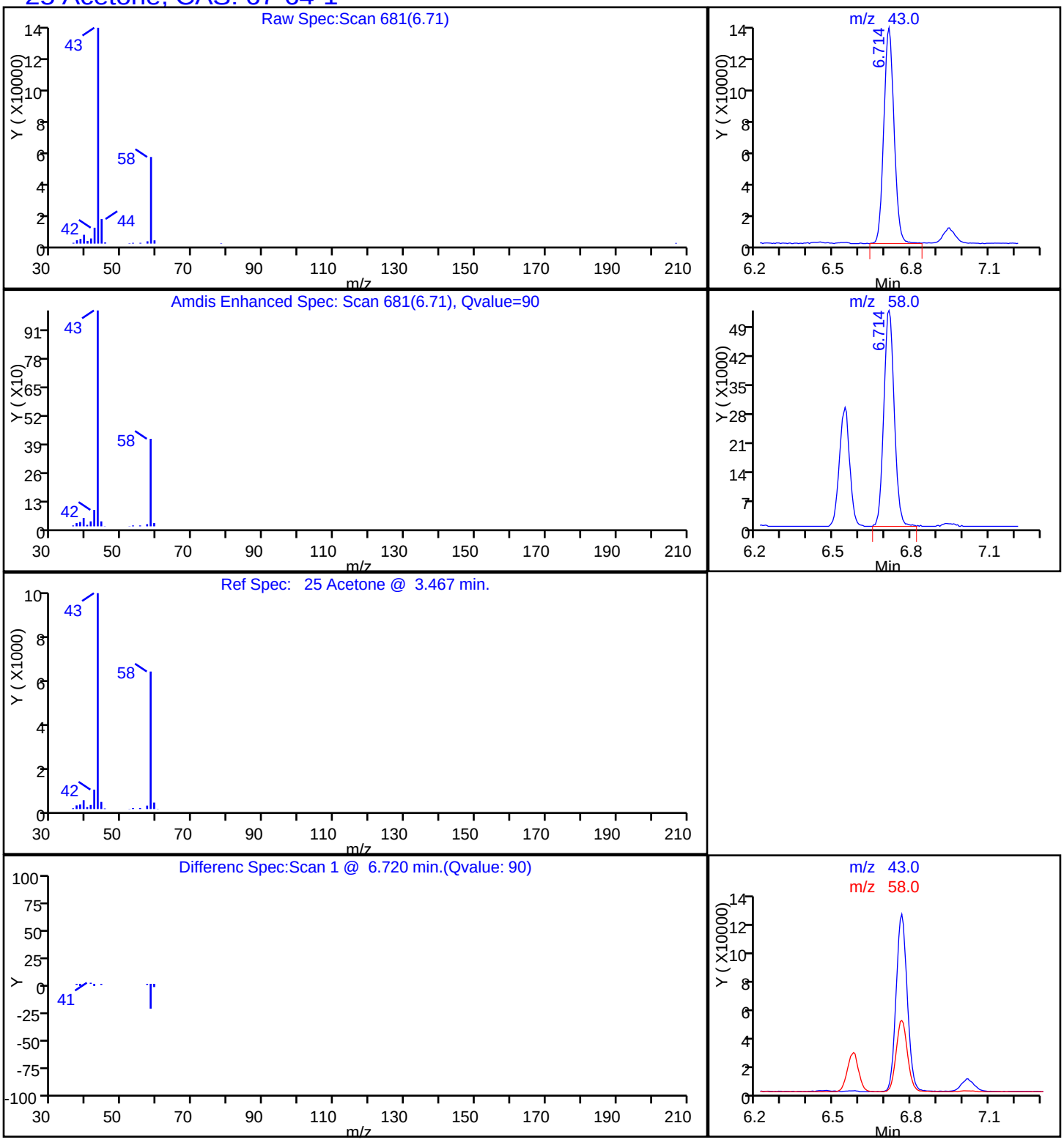
Report Date: 21-Mar-2014 09:42:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_024.D

Injection Date:	21-Mar-2014 05:38:30	Instrument ID:	CHB.i
Lims ID:	200-21380-A-3	Lab Sample ID:	200-21380-3
Client ID:	SEATING-INDOOR-031114		
Operator ID:	pad	ALS Bottle#:	7 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

25 Acetone, CAS: 67-64-1

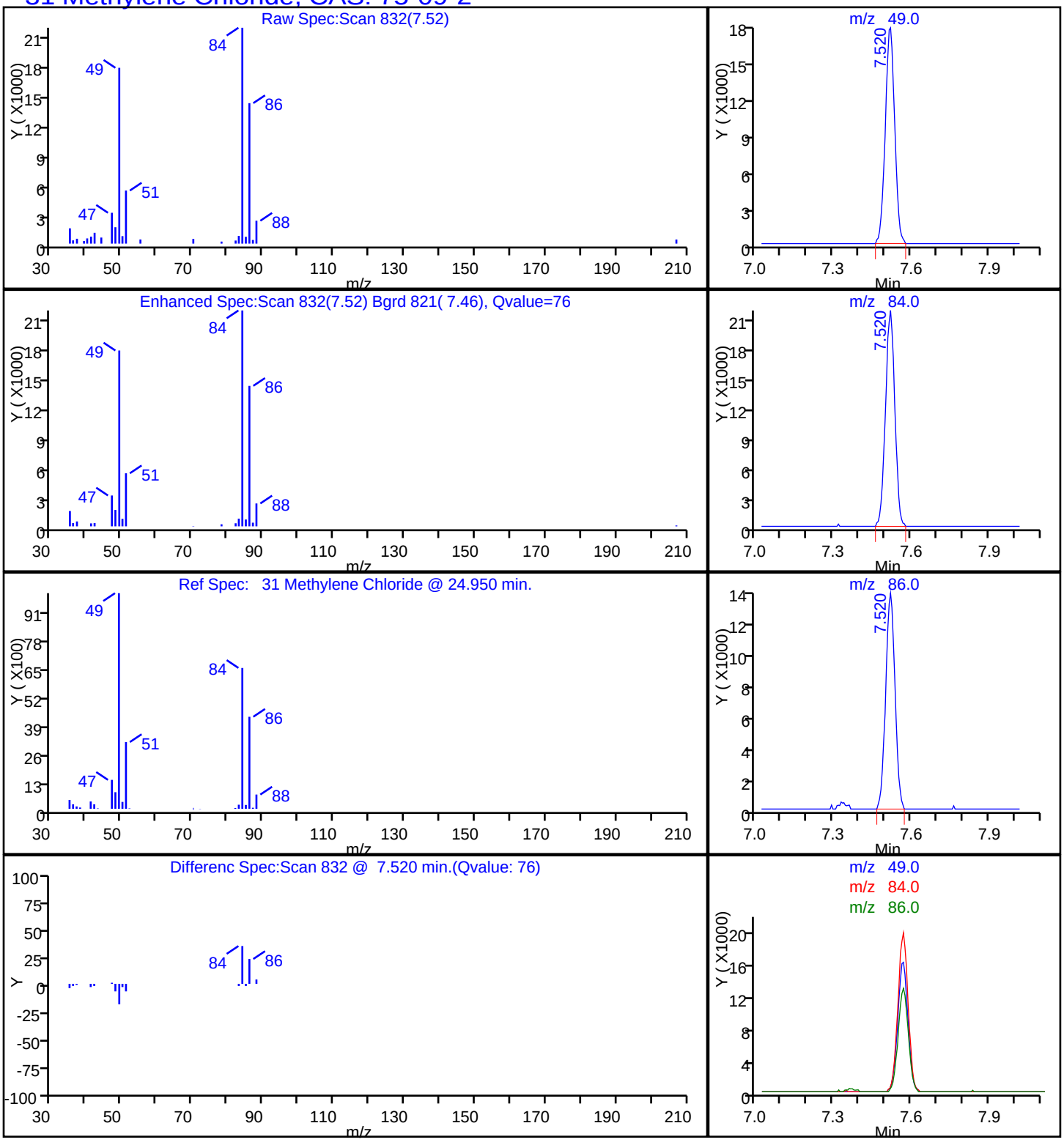


Report Date: 21-Mar-2014 09:42:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File:	\\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_024.D				
Injection Date:	21-Mar-2014 05:38:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-3	Lab Sample ID:	200-21380-3		
Client ID:	SEATING-INDOOR-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



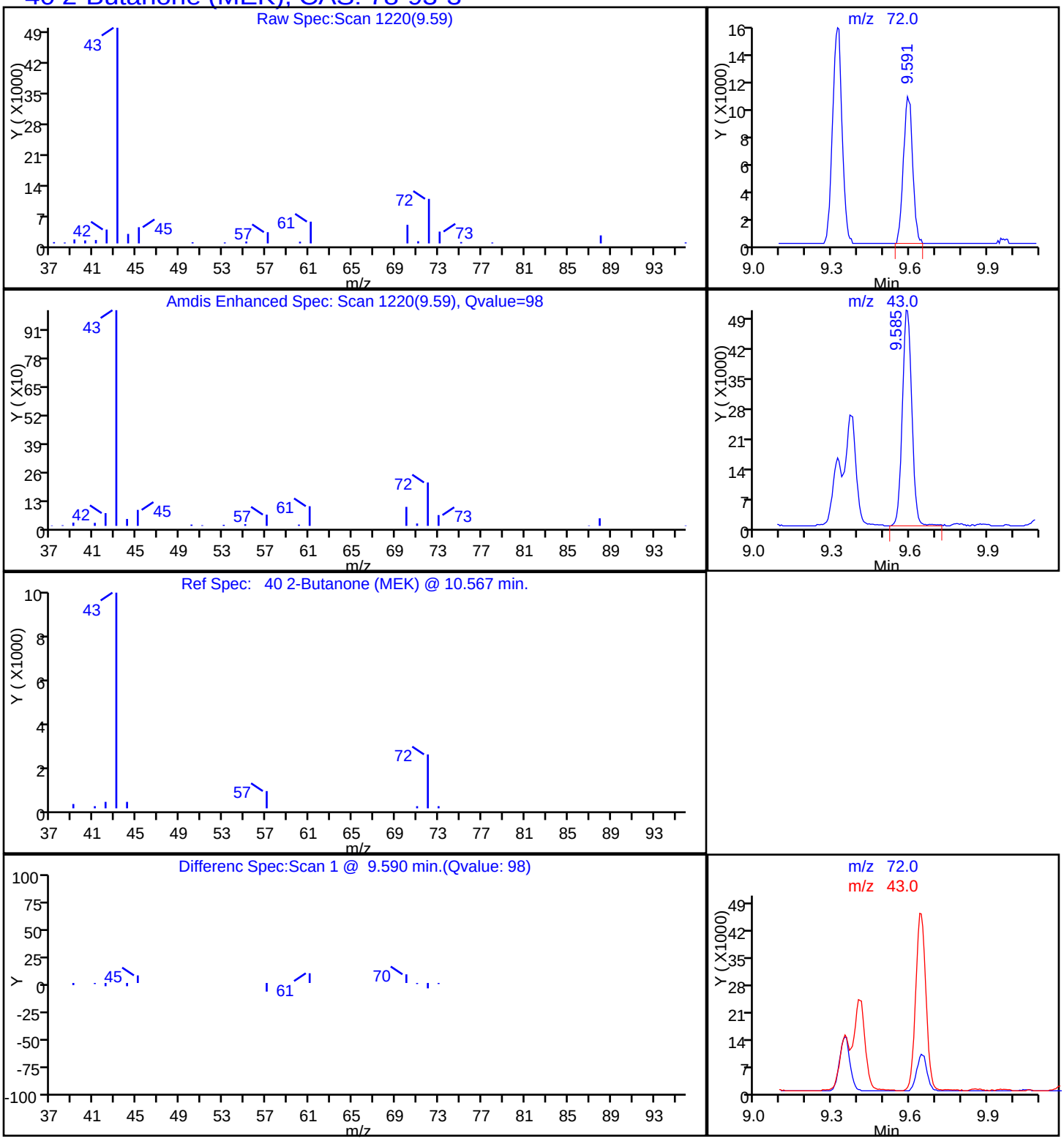
Report Date: 21-Mar-2014 09:42:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_024.D

Injection Date:	21-Mar-2014 05:38:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-3	Lab Sample ID:	200-21380-3		
Client ID:	SEATING-INDOOR-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

40 2-Butanone (MEK), CAS: 78-93-3



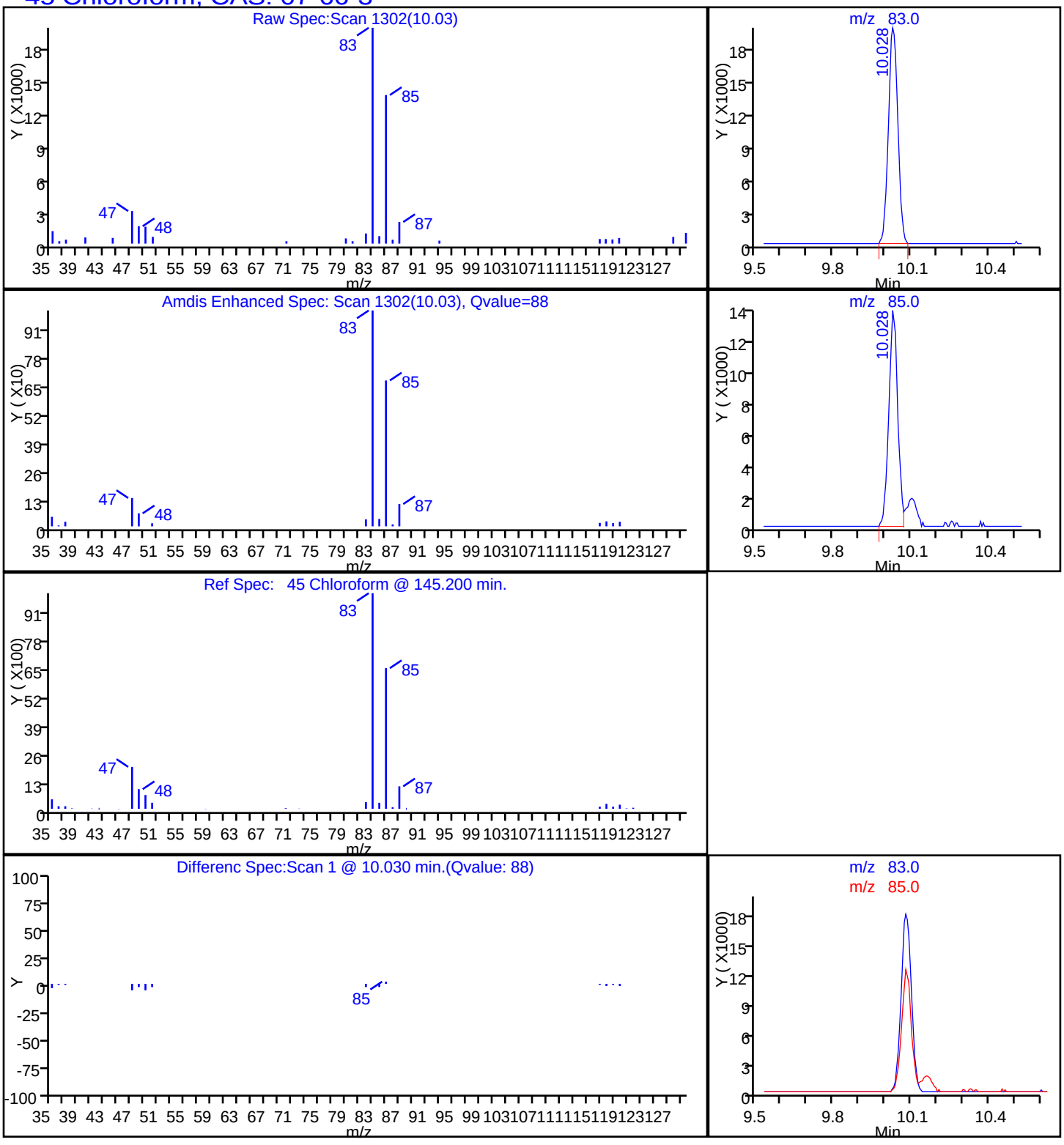
Report Date: 21-Mar-2014 09:42:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_024.D

Injection Date:	21-Mar-2014 05:38:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-3	Lab Sample ID:	200-21380-3		
Client ID:	SEATING-INDOOR-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

45 Chloroform, CAS: 67-66-3



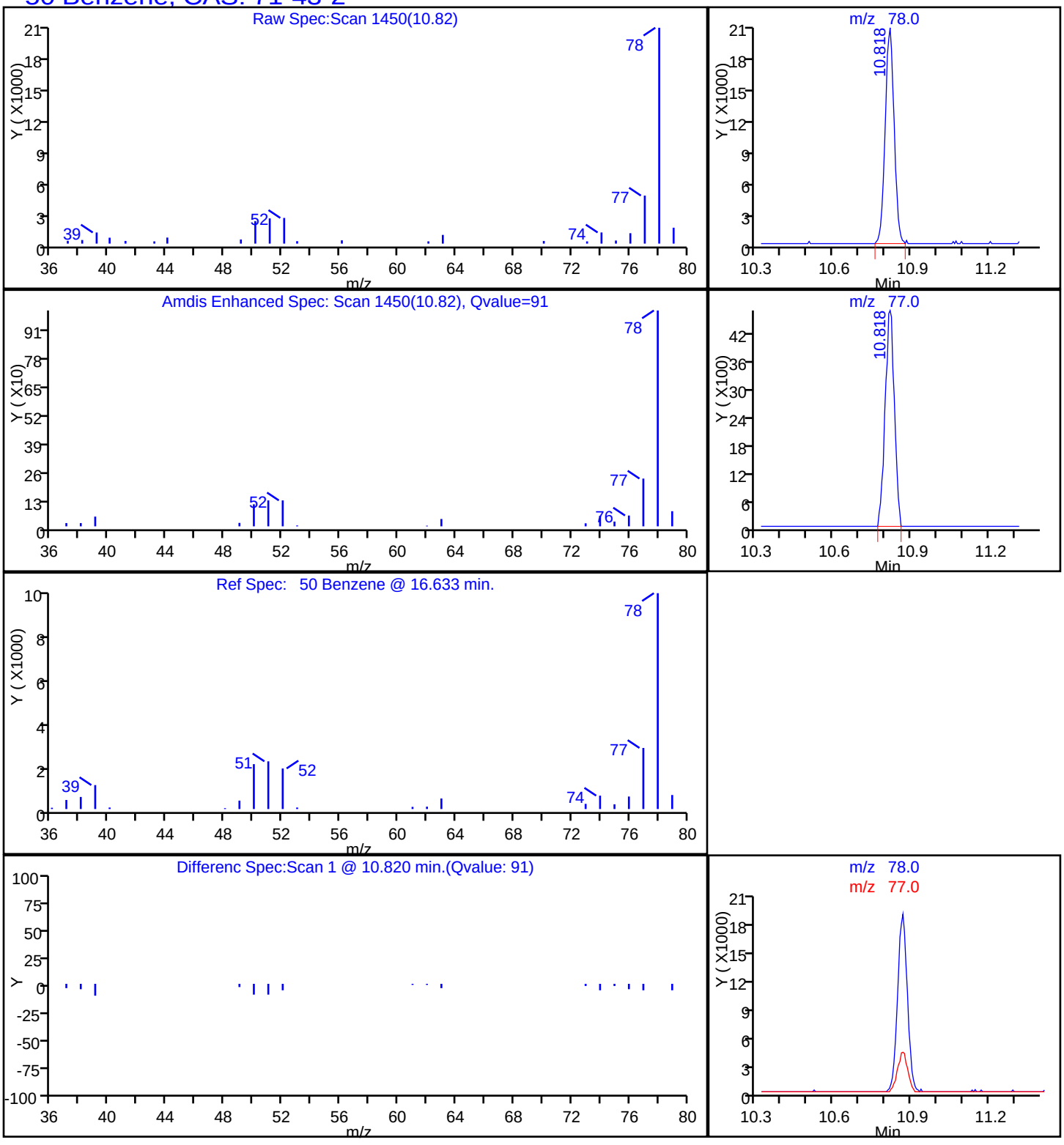
Report Date: 21-Mar-2014 09:42:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_024.D

Injection Date:	21-Mar-2014 05:38:30	Instrument ID:	CHB.i
Lims ID:	200-21380-A-3	Lab Sample ID:	200-21380-3
Client ID:	SEATING-INDOOR-031114		
Operator ID:	pad	ALS Bottle#:	7 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

50 Benzene, CAS: 71-43-2



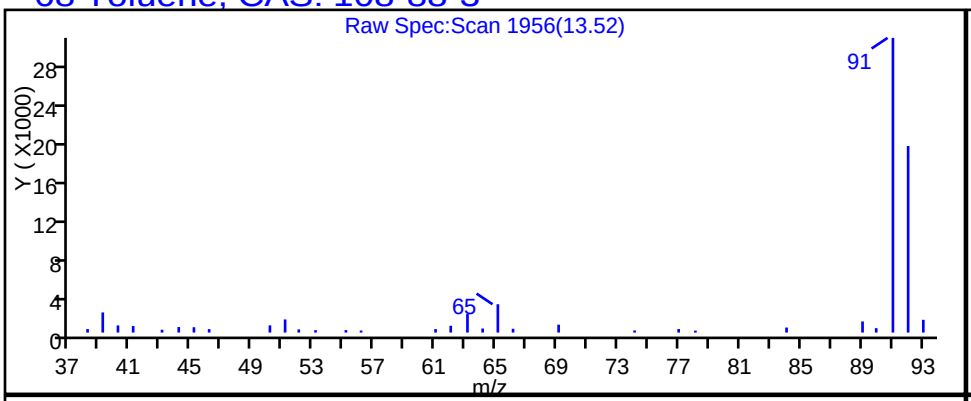
Report Date: 21-Mar-2014 09:42:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

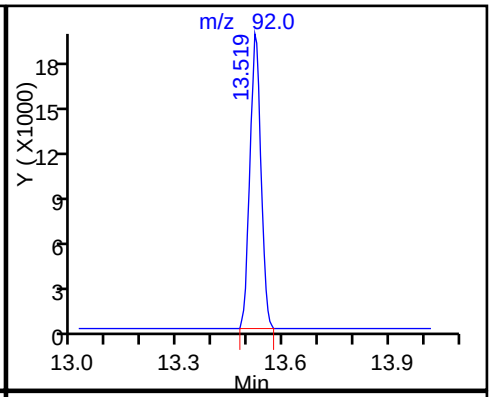
TestAmerica Burlington

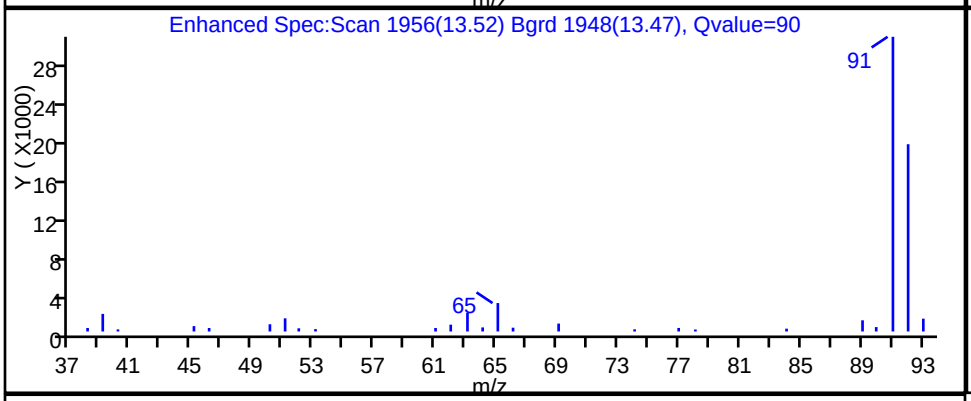
Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_024.D

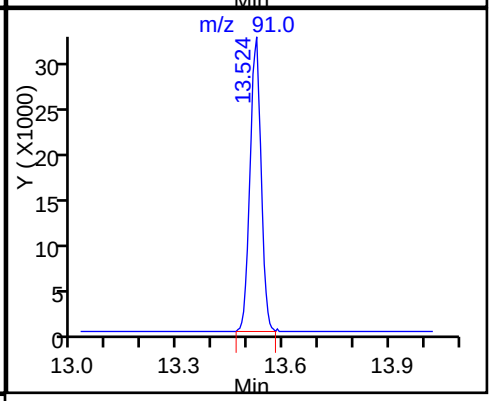
Injection Date:	21-Mar-2014 05:38:30	Instrument ID:	CHB.i
Lims ID:	200-21380-A-3	Lab Sample ID:	200-21380-3
Client ID:	SEATING-INDOOR-031114		
Operator ID:	pad	ALS Bottle#:	7 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

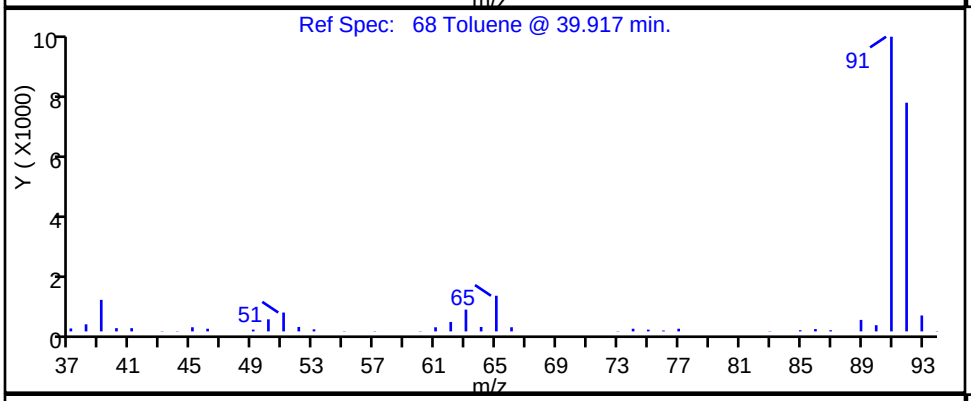
68 Toluene, CAS: 108-88-3

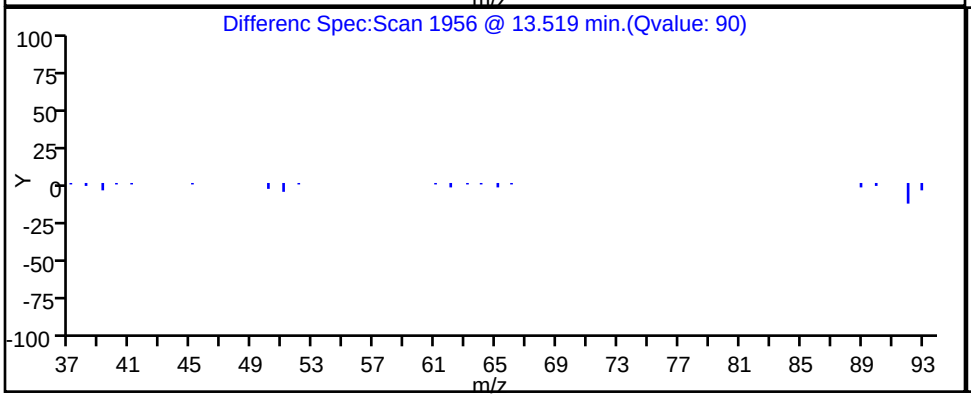


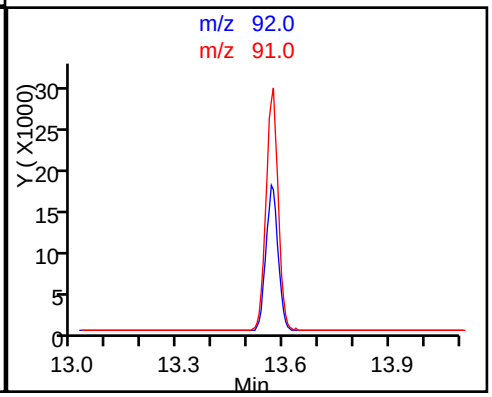












FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: SEATING-SS-031114 Lab Sample ID: 200-21380-4

Matrix: Air Lab File ID: 6635_009.D

Analysis Method: TO-15 Date Collected: 03/12/2014 08:30

Sample wt/vol: 50(mL) Date Analyzed: 03/21/2014 16:10

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69742 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	120.91	63		2.0	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.80	U	0.80	
74-87-3	Chloromethane	50.49	2.0	U	2.0	
75-01-4	Vinyl chloride	62.50	0.80	U	0.80	
106-99-0	1,3-Butadiene	54.09	11		0.80	
74-83-9	Bromomethane	94.94	0.80	U	0.80	
75-00-3	Chloroethane	64.52	2.0	U	2.0	
75-69-4	Trichlorofluoromethane	137.37	1.2		0.80	
76-13-1	Freon TF	187.38	1.0		0.80	
75-35-4	1,1-Dichloroethene	96.94	0.80	U	0.80	
67-64-1	Acetone	58.08	98		20	
75-15-0	Carbon disulfide	76.14	16		2.0	
75-09-2	Methylene Chloride	84.93	2.0	U	2.0	
1634-04-4	Methyl tert-butyl ether	88.15	0.80	U	0.80	
156-60-5	trans-1,2-Dichloroethene	96.94	0.80	U	0.80	
110-54-3	n-Hexane	86.17	7.9		0.80	
75-34-3	1,1-Dichloroethane	98.96	0.80	U	0.80	
78-93-3	Methyl Ethyl Ketone	72.11	31		2.0	
156-59-2	cis-1,2-Dichloroethene	96.94	0.80	U	0.80	
67-66-3	Chloroform	119.38	0.80	U	0.80	
109-99-9	Tetrahydrofuran	72.11	20	U	20	
71-55-6	1,1,1-Trichloroethane	133.41	0.80	U	0.80	
110-82-7	Cyclohexane	84.16	3.7		0.80	
56-23-5	Carbon tetrachloride	153.81	0.80	U	0.80	
71-43-2	Benzene	78.11	12		0.80	
107-06-2	1,2-Dichloroethane	98.96	0.80	U	0.80	
142-82-5	n-Heptane	100.21	6.7		0.80	
79-01-6	Trichloroethene	131.39	0.80	U	0.80	
78-87-5	1,2-Dichloropropane	112.99	0.80	U	0.80	
75-27-4	Bromodichloromethane	163.83	0.80	U	0.80	
10061-01-5	cis-1,3-Dichloropropene	110.97	0.80	U	0.80	
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	
108-88-3	Toluene	92.14	8.0		0.80	
10061-02-6	trans-1,3-Dichloropropene	110.97	0.80	U	0.80	
79-00-5	1,1,2-Trichloroethane	133.41	0.80	U	0.80	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: SEATING-SS-031114 Lab Sample ID: 200-21380-4

Matrix: Air Lab File ID: 6635_009.D

Analysis Method: TO-15 Date Collected: 03/12/2014 08:30

Sample wt/vol: 50(mL) Date Analyzed: 03/21/2014 16:10

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69742 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
127-18-4	Tetrachloroethene	165.83	0.80	U	0.80	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	
124-48-1	Dibromochloromethane	208.29	0.80	U	0.80	
106-93-4	1,2-Dibromoethane	187.87	0.80	U	0.80	
108-90-7	Chlorobenzene	112.56	0.80	U	0.80	
100-41-4	Ethylbenzene	106.17	0.80	U	0.80	
179601-23-1	m,p-Xylene	106.17	2.0	U	2.0	
95-47-6	Xylene, o-	106.17	0.87		0.80	
100-42-5	Styrene	104.15	0.80	U	0.80	
75-25-2	Bromoform	252.75	0.80	U	0.80	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.80	U	0.80	
622-96-8	4-Ethyltoluene	120.20	0.80	U	0.80	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.80	U	0.80	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.80	U	0.80	
541-73-1	1,3-Dichlorobenzene	147.00	0.80	U	0.80	
106-46-7	1,4-Dichlorobenzene	147.00	0.80	U	0.80	
95-50-1	1,2-Dichlorobenzene	147.00	0.80	U	0.80	
120-82-1	1,2,4-Trichlorobenzene	181.45	2.0	U	2.0	
87-68-3	Hexachlorobutadiene	260.76	0.80	U	0.80	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: SEATING-SS-031114 Lab Sample ID: 200-21380-4

Matrix: Air Lab File ID: 6635_009.D

Analysis Method: TO-15 Date Collected: 03/12/2014 08:30

Sample wt/vol: 50(mL) Date Analyzed: 03/21/2014 16:10

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69742 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	120.91	310		9.9	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	5.6	U	5.6	
74-87-3	Chloromethane	50.49	4.1	U	4.1	
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	
106-99-0	1,3-Butadiene	54.09	23		1.8	
74-83-9	Bromomethane	94.94	3.1	U	3.1	
75-00-3	Chloroethane	64.52	5.3	U	5.3	
75-69-4	Trichlorofluoromethane	137.37	7.0		4.5	
76-13-1	Freon TF	187.38	7.7		6.1	
75-35-4	1,1-Dichloroethene	96.94	3.2	U	3.2	
67-64-1	Acetone	58.08	230		48	
75-15-0	Carbon disulfide	76.14	49		6.2	
75-09-2	Methylene Chloride	84.93	6.9	U	6.9	
1634-04-4	Methyl tert-butyl ether	88.15	2.9	U	2.9	
156-60-5	trans-1,2-Dichloroethene	96.94	3.2	U	3.2	
110-54-3	n-Hexane	86.17	28		2.8	
75-34-3	1,1-Dichloroethane	98.96	3.2	U	3.2	
78-93-3	Methyl Ethyl Ketone	72.11	91		5.9	
156-59-2	cis-1,2-Dichloroethene	96.94	3.2	U	3.2	
67-66-3	Chloroform	119.38	3.9	U	3.9	
109-99-9	Tetrahydrofuran	72.11	59	U	59	
71-55-6	1,1,1-Trichloroethane	133.41	4.4	U	4.4	
110-82-7	Cyclohexane	84.16	13		2.8	
56-23-5	Carbon tetrachloride	153.81	5.0	U	5.0	
71-43-2	Benzene	78.11	38		2.6	
107-06-2	1,2-Dichloroethane	98.96	3.2	U	3.2	
142-82-5	n-Heptane	100.21	27		3.3	
79-01-6	Trichloroethene	131.39	4.3	U	4.3	
78-87-5	1,2-Dichloropropane	112.99	3.7	U	3.7	
75-27-4	Bromodichloromethane	163.83	5.4	U	5.4	
10061-01-5	cis-1,3-Dichloropropene	110.97	3.6	U	3.6	
108-10-1	methyl isobutyl ketone	100.16	8.2	U	8.2	
108-88-3	Toluene	92.14	30		3.0	
10061-02-6	trans-1,3-Dichloropropene	110.97	3.6	U	3.6	
79-00-5	1,1,2-Trichloroethane	133.41	4.4	U	4.4	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: SEATING-SS-031114 Lab Sample ID: 200-21380-4

Matrix: Air Lab File ID: 6635_009.D

Analysis Method: TO-15 Date Collected: 03/12/2014 08:30

Sample wt/vol: 50(mL) Date Analyzed: 03/21/2014 16:10

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69742 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
127-18-4	Tetrachloroethene	165.83	5.4	U	5.4	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	8.2	U	8.2	
124-48-1	Dibromochloromethane	208.29	6.8	U	6.8	
106-93-4	1,2-Dibromoethane	187.87	6.1	U	6.1	
108-90-7	Chlorobenzene	112.56	3.7	U	3.7	
100-41-4	Ethylbenzene	106.17	3.5	U	3.5	
179601-23-1	m,p-Xylene	106.17	8.7	U	8.7	
95-47-6	Xylene, o-	106.17	3.8		3.5	
100-42-5	Styrene	104.15	3.4	U	3.4	
75-25-2	Bromoform	252.75	8.3	U	8.3	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	5.5	U	5.5	
622-96-8	4-Ethyltoluene	120.20	3.9	U	3.9	
108-67-8	1,3,5-Trimethylbenzene	120.20	3.9	U	3.9	
95-63-6	1,2,4-Trimethylbenzene	120.20	3.9	U	3.9	
541-73-1	1,3-Dichlorobenzene	147.00	4.8	U	4.8	
106-46-7	1,4-Dichlorobenzene	147.00	4.8	U	4.8	
95-50-1	1,2-Dichlorobenzene	147.00	4.8	U	4.8	
120-82-1	1,2,4-Trichlorobenzene	181.45	15	U	15	
87-68-3	Hexachlorobutadiene	260.76	8.5	U	8.5	

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_009.D
Lims ID: 200-21380-A-4 Lab Sample ID: 200-21380-4
Client ID: SEATING-SS-031114
Sample Type: Client
Inject. Date: 21-Mar-2014 16:10:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 4.0000
Sample Info: 200-0006635-009
Misc. Info.: 21380-04
Operator ID: pad Instrument ID: CHB.i

Method: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 24-Mar-2014 12:20:06 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: daiglep Date: 24-Mar-2014 11:31:15

	Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
	5 Dichlorodifluoromethane	85	3.229	3.229	0.0	99	1796799	15.7	
	7 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.464					
	8 Chloromethane	50		3.603					
	10 Vinyl chloride	62		3.832					
	11 Butadiene	54	3.896	3.902	-0.006	79	64160	2.64	
	12 Bromomethane	94		4.627					
	14 Chloroethane	64		4.868					
	17 Trichlorofluoromethane	101	5.385	5.385	0.0	82	62264	0.3110	
	23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.431	6.437	-0.006	78	44139	0.2525	
	24 1,1-Dichloroethene	96		6.522					
	25 Acetone	43	6.709	6.714	-0.005	92	1558730	24.5	
	27 Carbon disulfide	76	6.949	6.949	0.0	97	758435	3.94	
	31 Methylene Chloride	49		7.520					
	33 Methyl tert-butyl ether	73		7.846					
	34 trans-1,2-Dichloroethene	61		7.915					
	36 Hexane	57	8.224	8.224	0.0	81	176521	1.98	
	37 1,1-Dichloroethane	63		8.678					
	39 cis-1,2-Dichloroethene	96		9.585					
	40 2-Butanone (MEK)	72	9.591	9.591	0.0	93	301952	7.72	
	43 Tetrahydrofuran	42		9.954					
*	44 Chlorobromomethane	128	9.959	9.964	-0.005	64	785035	10.0	
	45 Chloroform	83		10.034					
	46 Cyclohexane	84	10.274	10.274	0.0	72	103388	0.9202	
	47 1,1,1-Trichloroethane	97		10.279					
	48 Carbon tetrachloride	117		10.471					
	50 Benzene	78	10.818	10.818	0.0	92	741203	2.97	
	51 1,2-Dichloroethane	62		10.936					
	52 n-Heptane	43	10.989	10.994	-0.005	76	136765	1.67	
*	54 1,4-Difluorobenzene	114	11.363	11.363	0.0	90	3819514	10.0	
	57 Trichloroethene	95	11.725	11.720	0.005	62	16918	0.1361	
	58 1,2-Dichloropropane	63		12.115					

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v	Flags
	62 Dichlorobromomethane	83		12.467					
	64 cis-1,3-Dichloropropene	75		13.097					
	65 4-Methyl-2-pentanone (MIBK)	43	13.252	13.252	0.0	51	25713	0.2556	
	68 Toluene	92	13.519	13.519	0.0	91	408828	2.01	
	70 trans-1,3-Dichloropropene	75		13.892					
	71 1,1,2-Trichloroethane	83		14.170					
	72 Tetrachloroethene	166		14.277					
	73 2-Hexanone	43	14.426	14.421	0.005	83	31558	0.3219	
	74 Chlorodibromomethane	129		14.709					
	75 Ethylene Dibromide	107		14.912					
*	76 Chlorobenzene-d5	117	15.451	15.451	0.0	74	3282291	10.0	
	77 Chlorobenzene	112		15.488					
	79 Ethylbenzene	91	15.547	15.552	-0.005	76	55114	0.1350	
	80 m-Xylene & p-Xylene	106	15.696	15.696	0.0	97	78008	0.4342	
	82 o-Xylene	106	16.203	16.203	0.0	94	40304	0.2165	
	83 Styrene	104	16.230	16.230	0.0	85	15653	0.0551	
	84 Bromoform	173		16.523					
$	86 4-Bromofluorobenzene	95	16.870	16.870	0.0	98	2022119	NC	
	87 1,1,2,2-Tetrachloroethane	83		17.025					
	91 4-Ethyltoluene	105		17.207					
	93 1,3,5-Trimethylbenzene	105		17.271					
	96 1,2,4-Trimethylbenzene	105	17.724	17.730	-0.006	77	18223	0.0399	
	99 1,3-Dichlorobenzene	146		18.156					
	100 1,4-Dichlorobenzene	146		18.274					
	104 1,2-Dichlorobenzene	146		18.776					
	107 1,2,4-Trichlorobenzene	180		21.225					
	108 Hexachlorobutadiene	225		21.380					

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

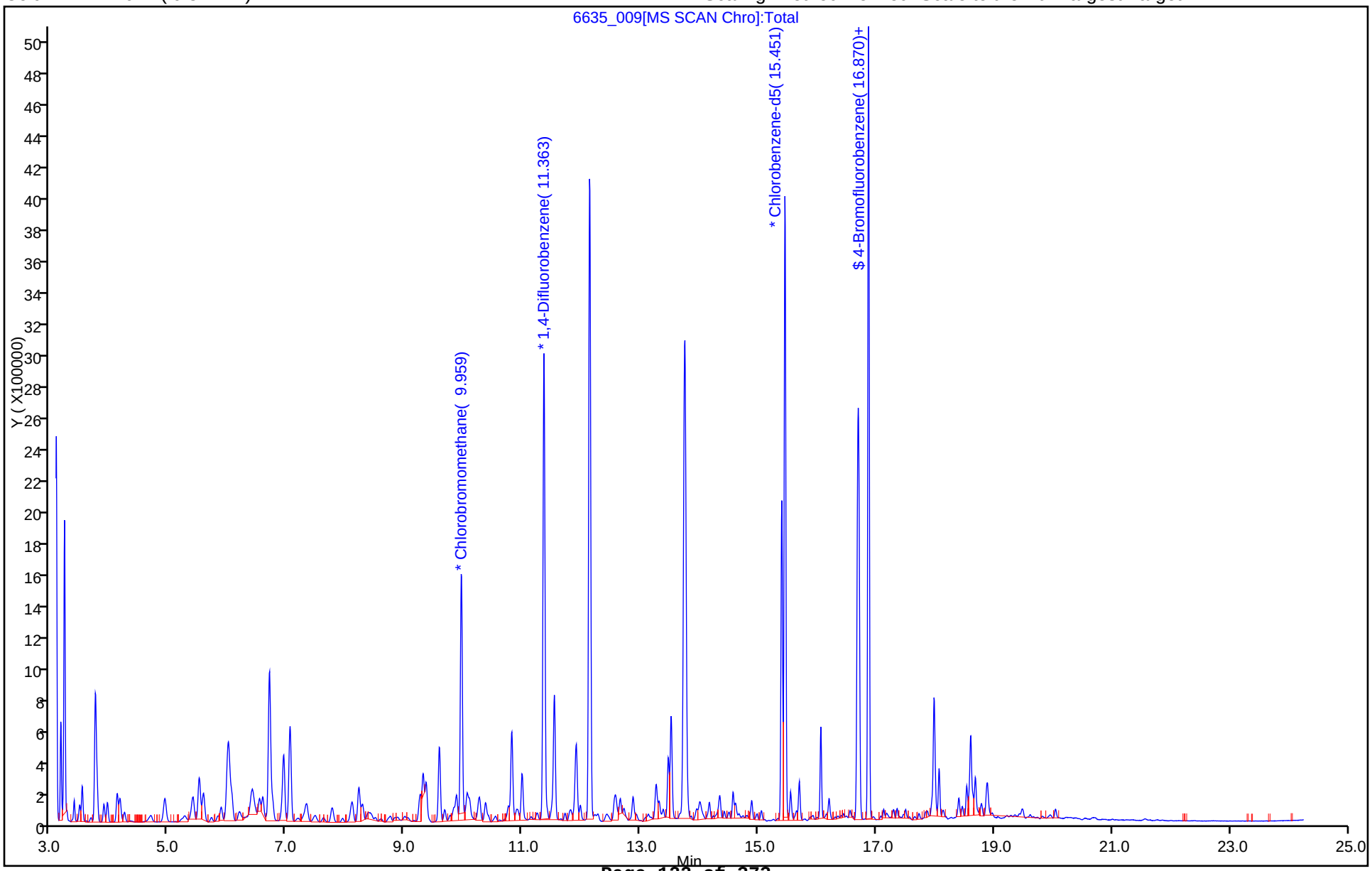
Report Date: 24-Mar-2014 12:20:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_009.D

Injection Date:	21-Mar-2014 16:10:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	200-21380-A-4	Lab Sample ID:	200-21380-4	Worklist Smp#:	9
Client ID:	SEATING-SS-031114				
Purge Vol:	5.000 mL	Dil. Factor:	4.0000	ALS Bottle#:	7
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



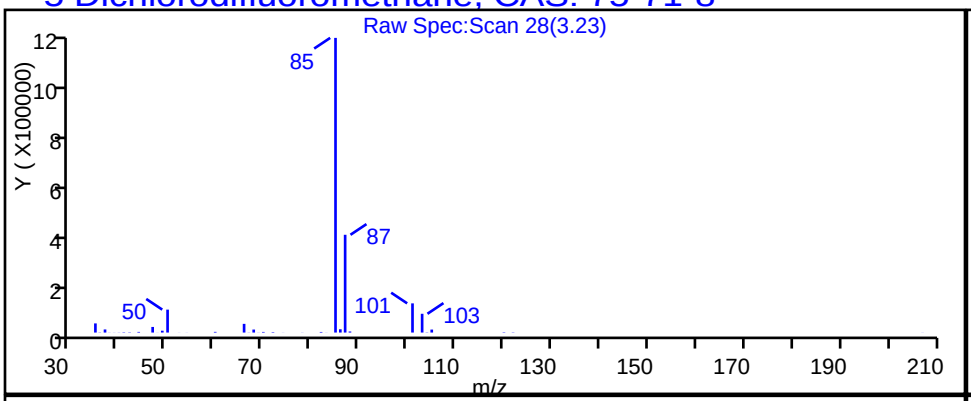
Report Date: 24-Mar-2014 12:20:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

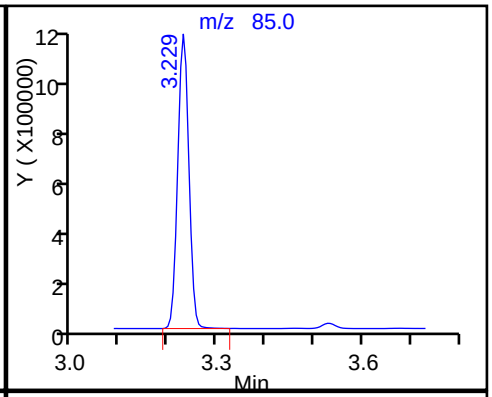
TestAmerica Burlington

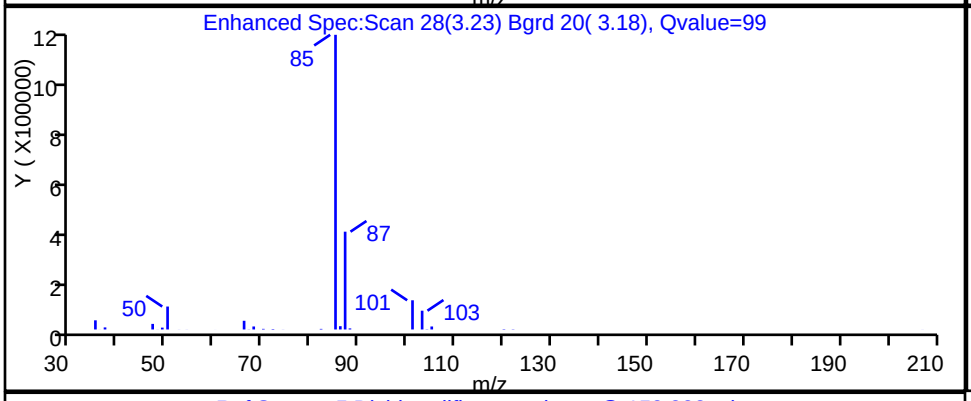
Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_009.D

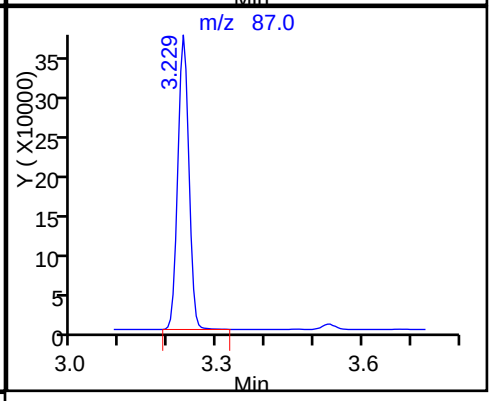
Injection Date:	21-Mar-2014 16:10:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-4	Lab Sample ID:	200-21380-4		
Client ID:	SEATING-SS-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

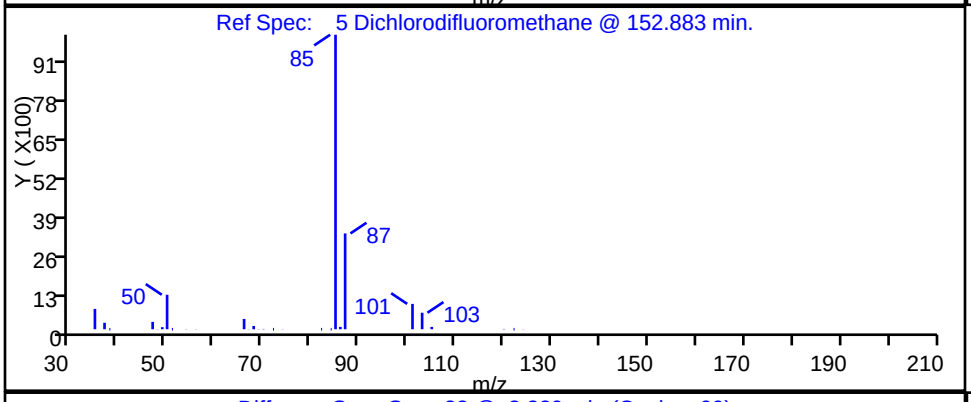
5 Dichlorodifluoromethane, CAS: 75-71-8

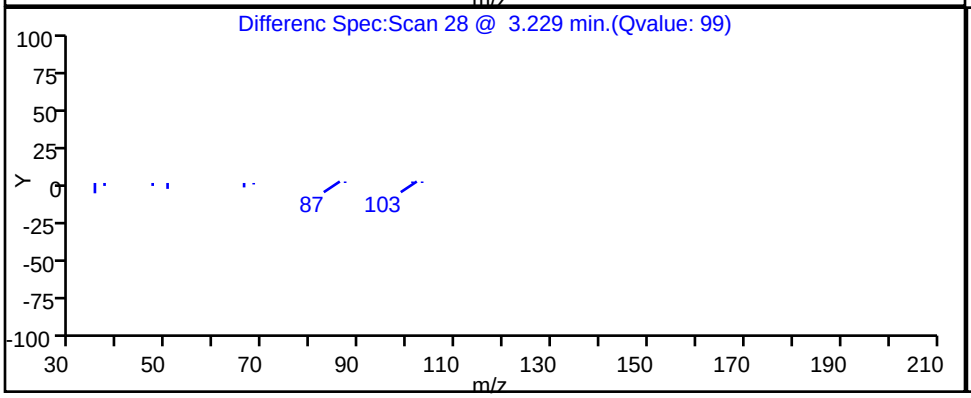


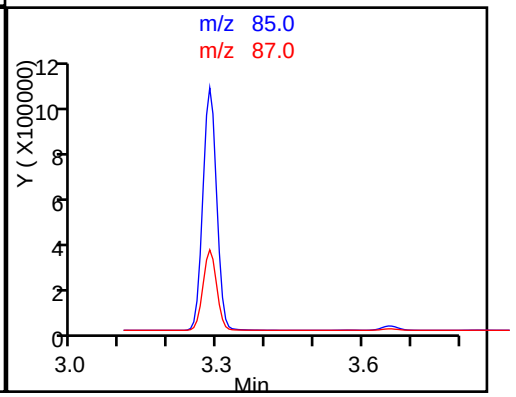












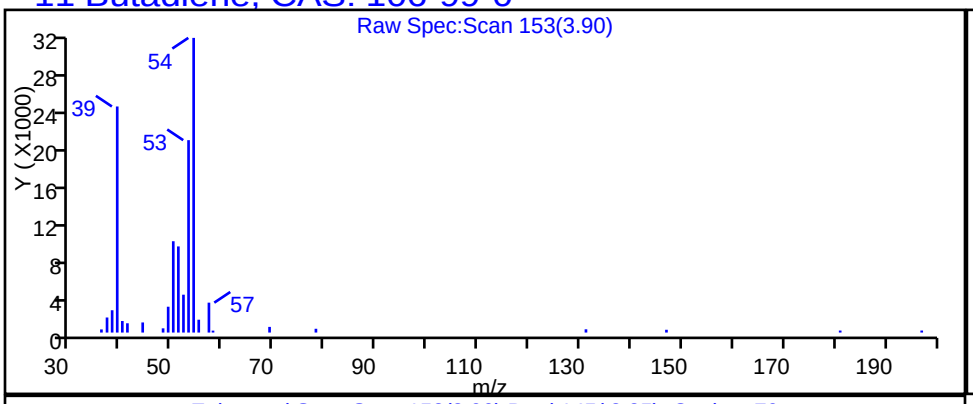
Report Date: 24-Mar-2014 12:20:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

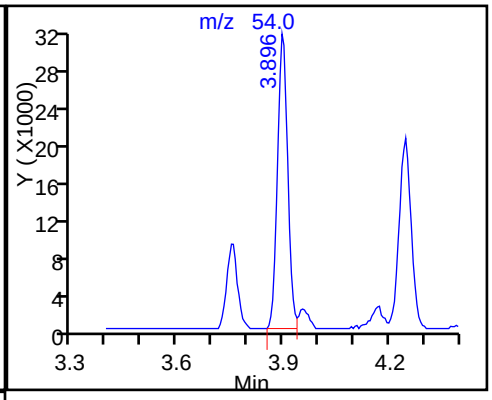
TestAmerica Burlington

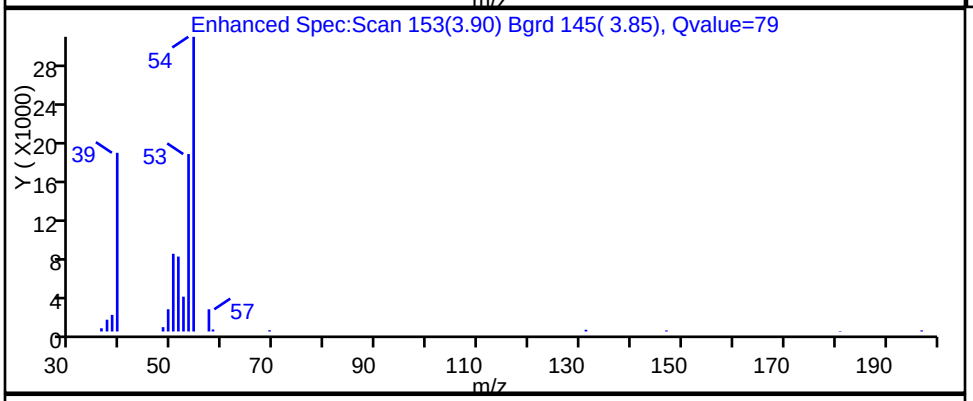
Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_009.D

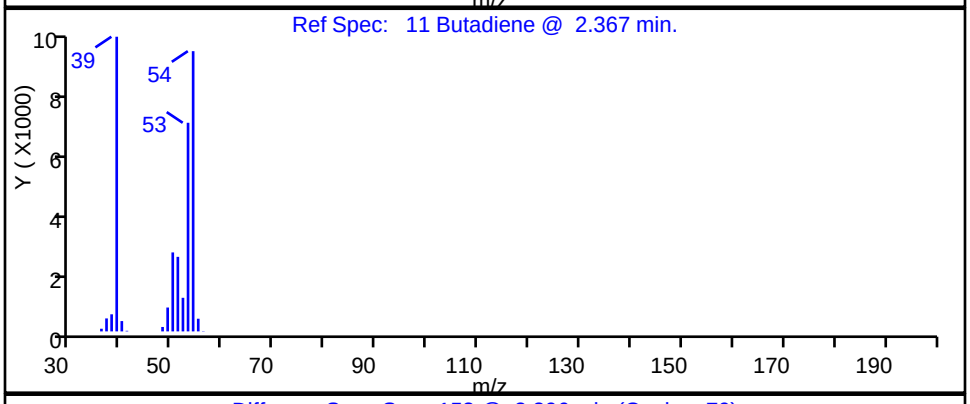
Injection Date:	21-Mar-2014 16:10:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-4	Lab Sample ID:	200-21380-4		
Client ID:	SEATING-SS-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

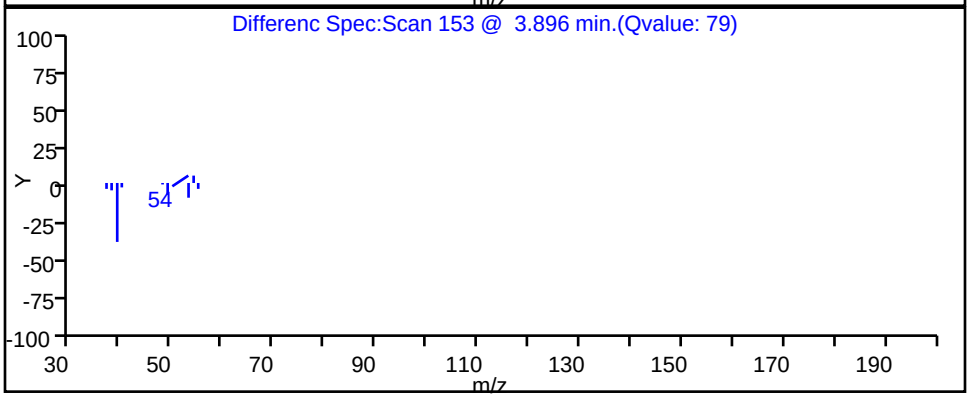
11 Butadiene, CAS: 106-99-0











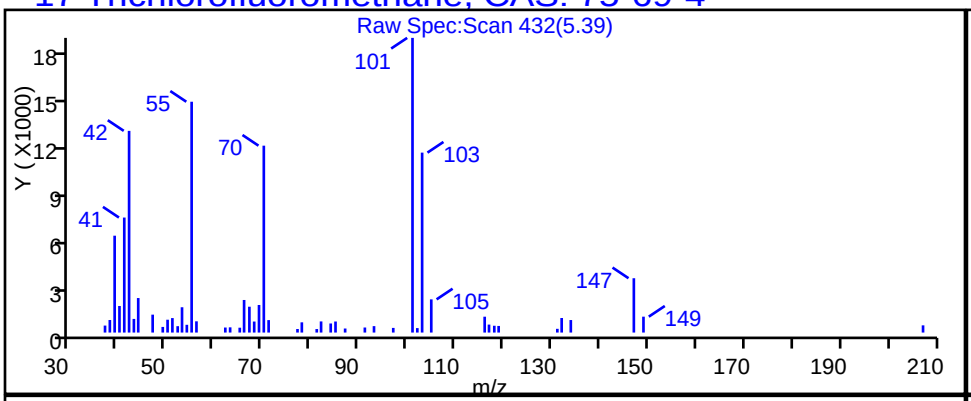
Report Date: 24-Mar-2014 12:20:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

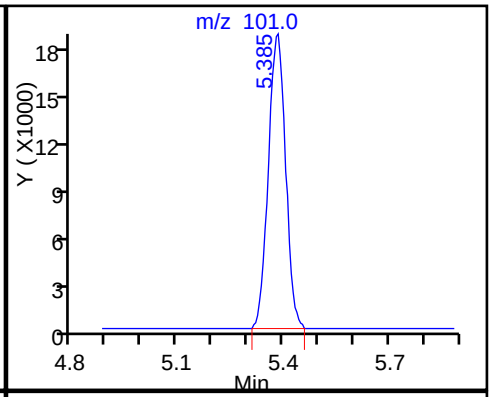
TestAmerica Burlington

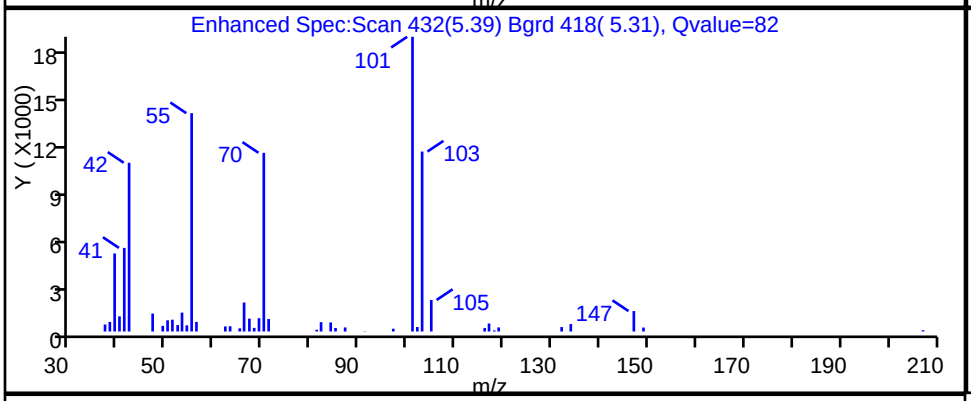
Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_009.D

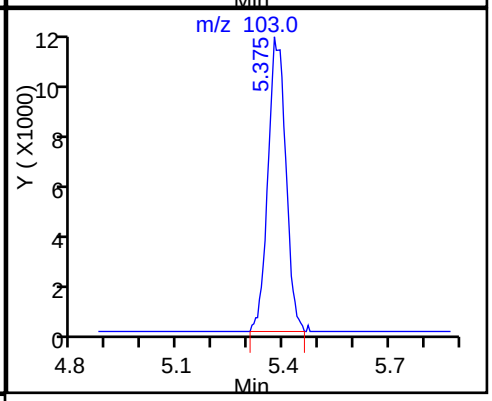
Injection Date:	21-Mar-2014 16:10:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-4	Lab Sample ID:	200-21380-4		
Client ID:	SEATING-SS-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

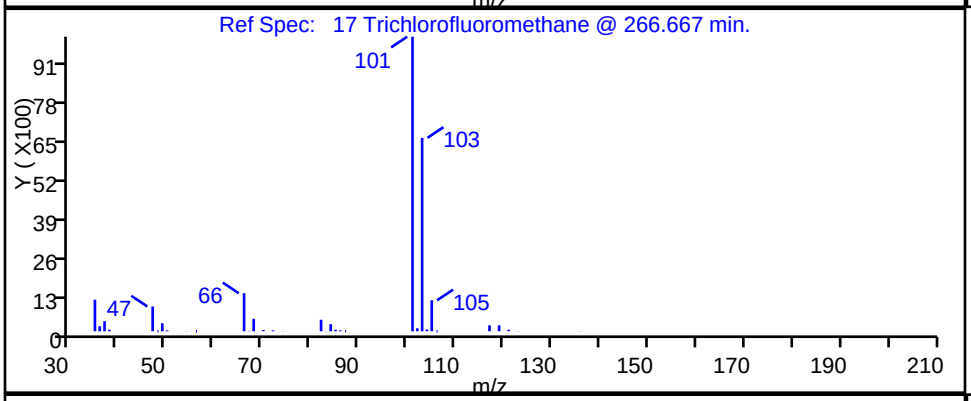
17 Trichlorofluoromethane, CAS: 75-69-4

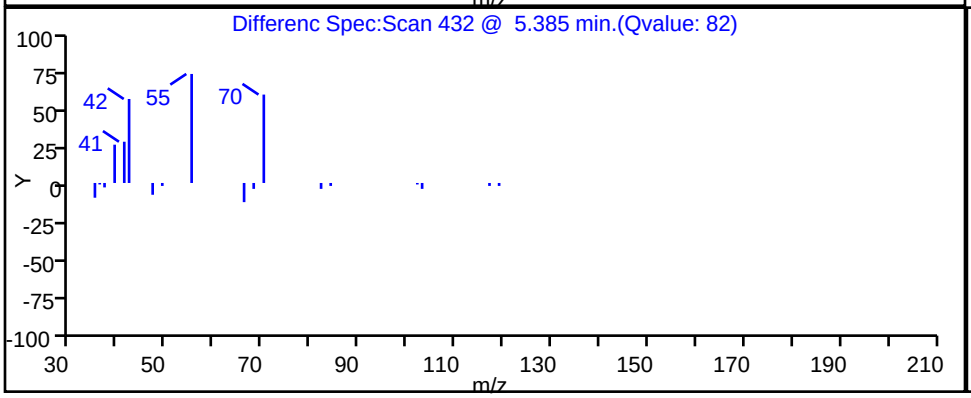


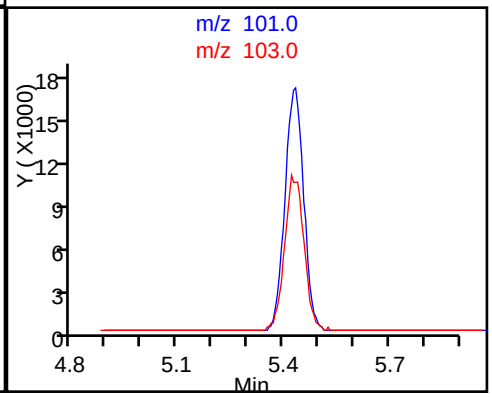












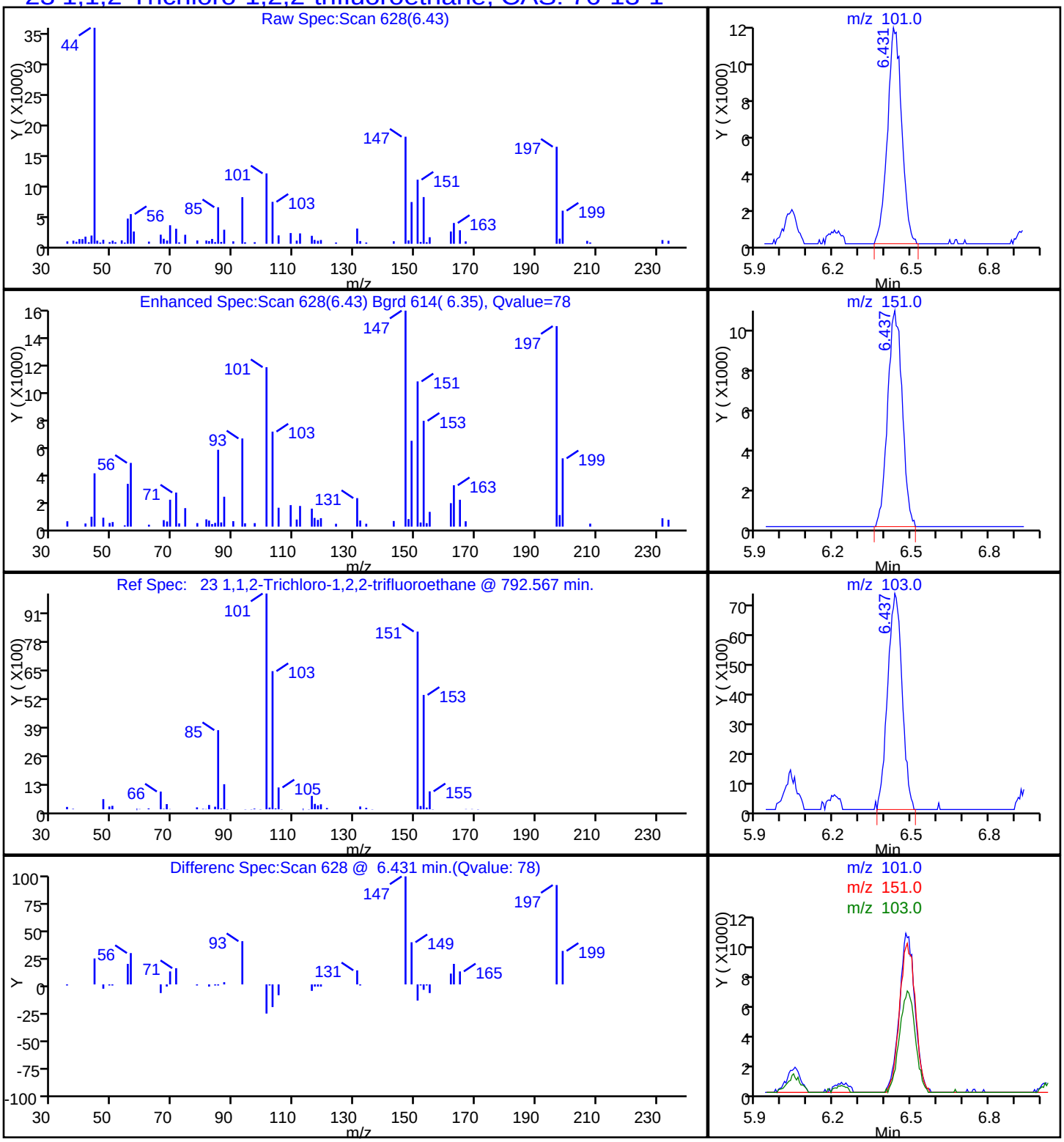
Report Date: 24-Mar-2014 12:20:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_009.D

Injection Date:	21-Mar-2014 16:10:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-4	Lab Sample ID:	200-21380-4		
Client ID:	SEATING-SS-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

23 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



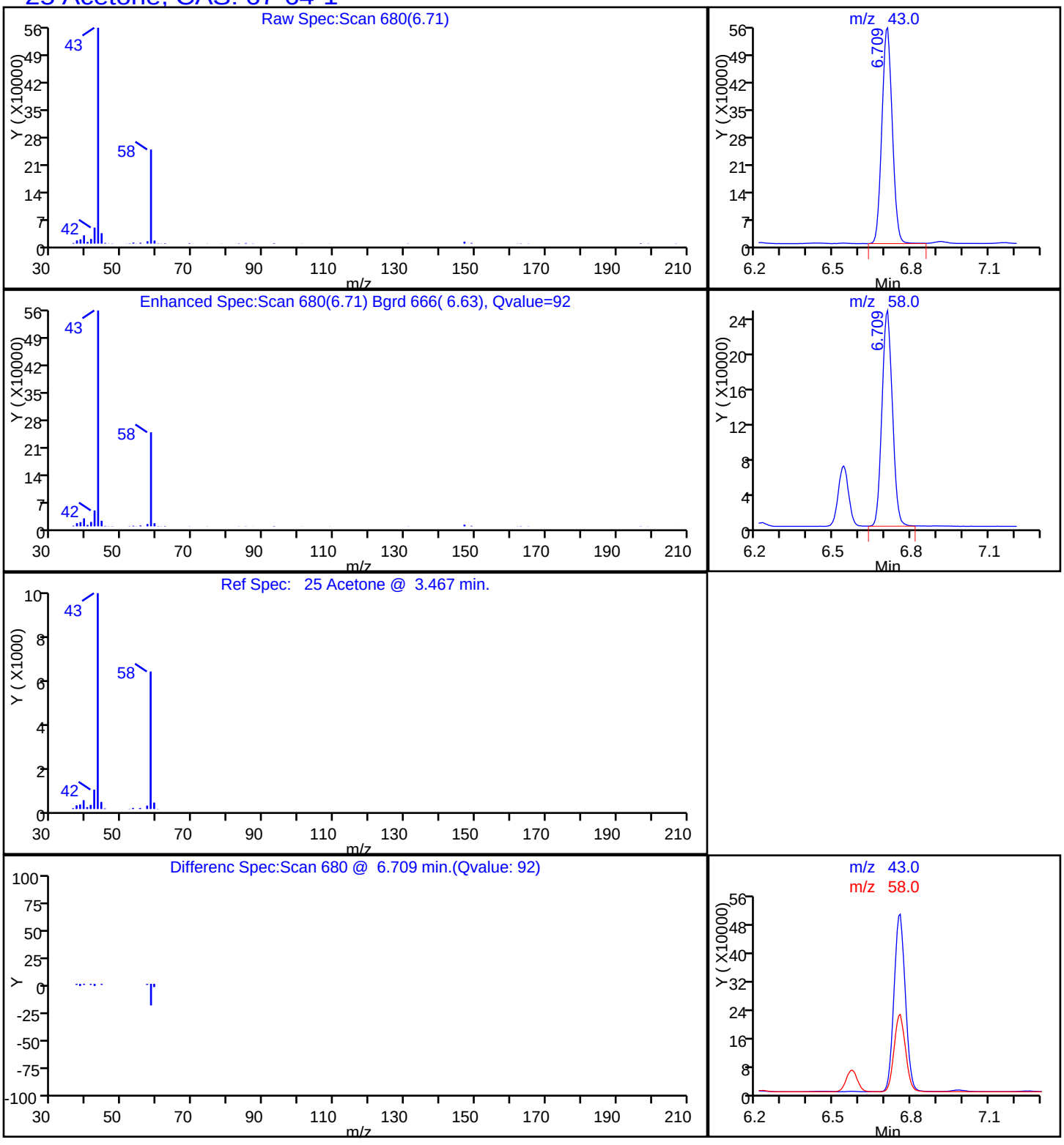
Report Date: 24-Mar-2014 12:20:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_009.D

Injection Date:	21-Mar-2014 16:10:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-4	Lab Sample ID:	200-21380-4		
Client ID:	SEATING-SS-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

25 Acetone, CAS: 67-64-1



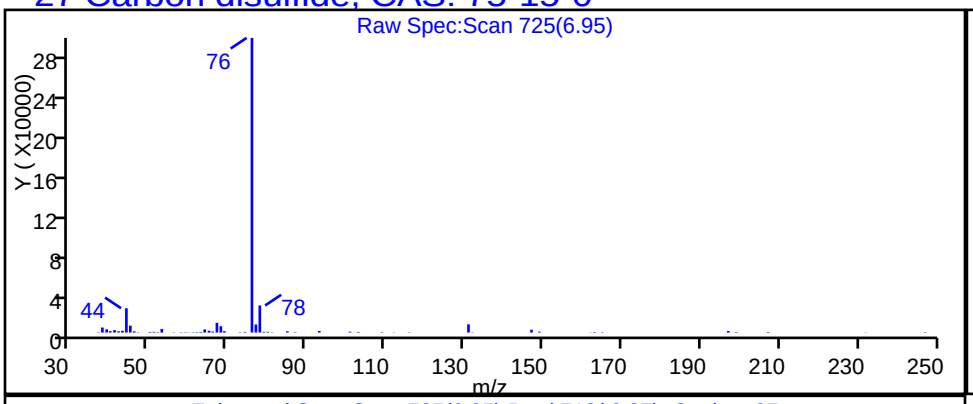
Report Date: 24-Mar-2014 12:20:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

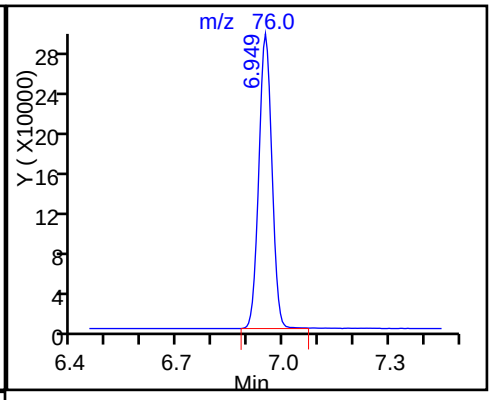
TestAmerica Burlington

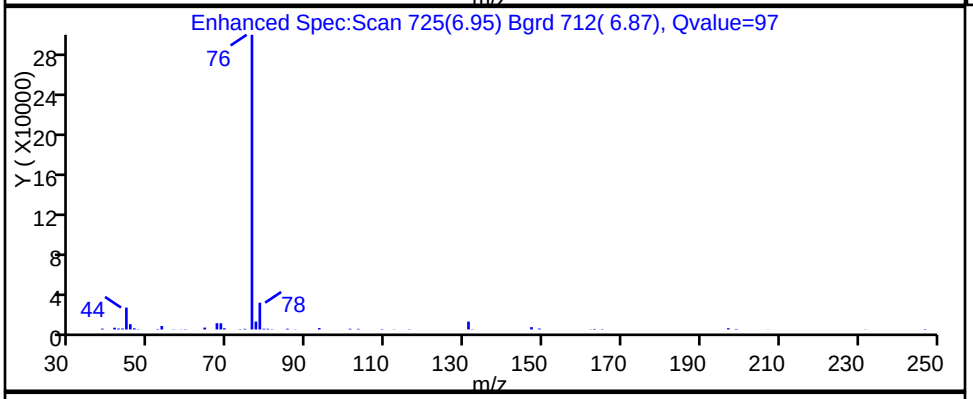
Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_009.D

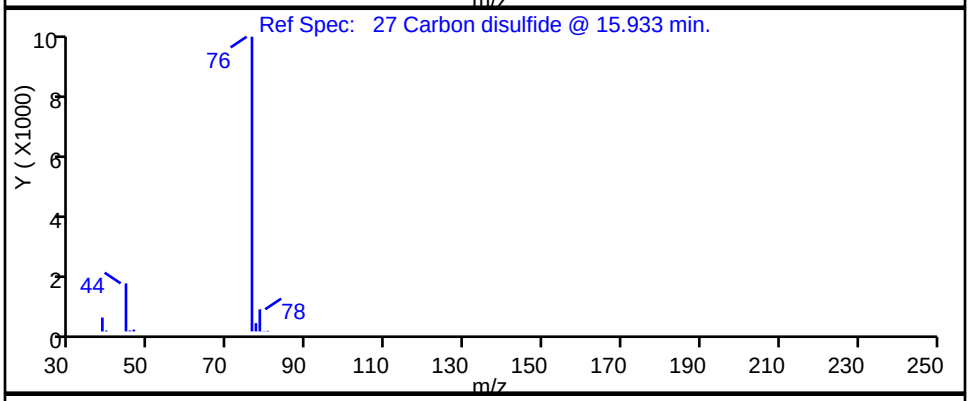
Injection Date:	21-Mar-2014 16:10:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-4	Lab Sample ID:	200-21380-4		
Client ID:	SEATING-SS-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

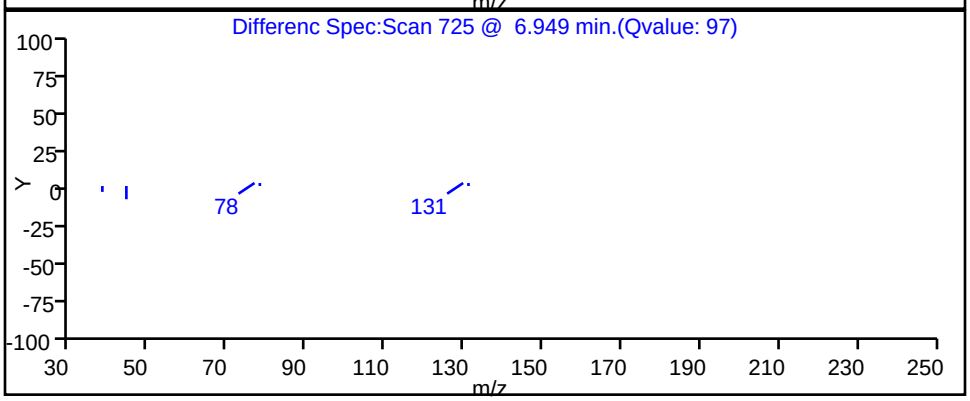
27 Carbon disulfide, CAS: 75-15-0











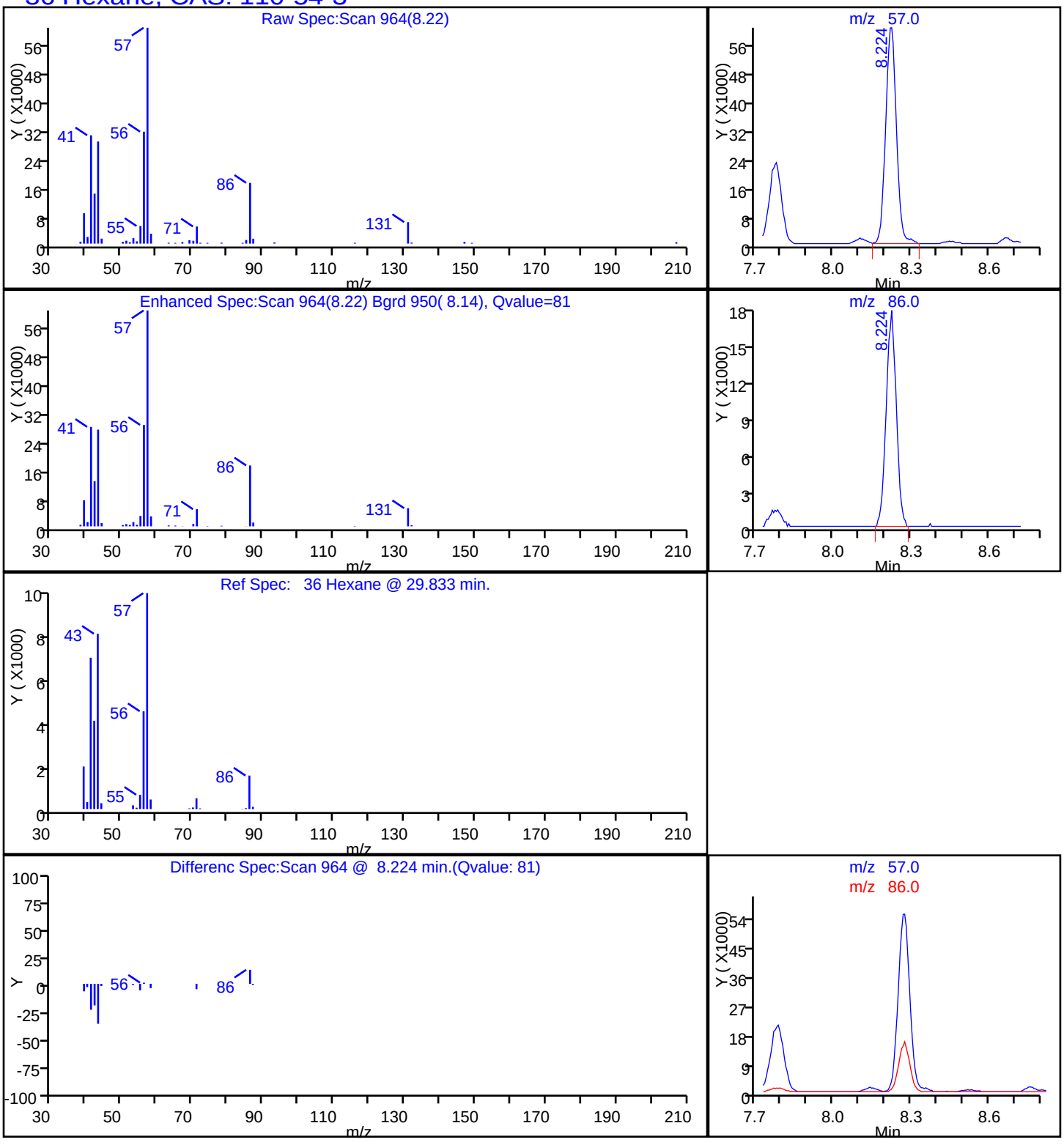
Report Date: 24-Mar-2014 12:20:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_009.D

Injection Date:	21-Mar-2014 16:10:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-4	Lab Sample ID:	200-21380-4		
Client ID:	SEATING-SS-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

36 Hexane, CAS: 110-54-3



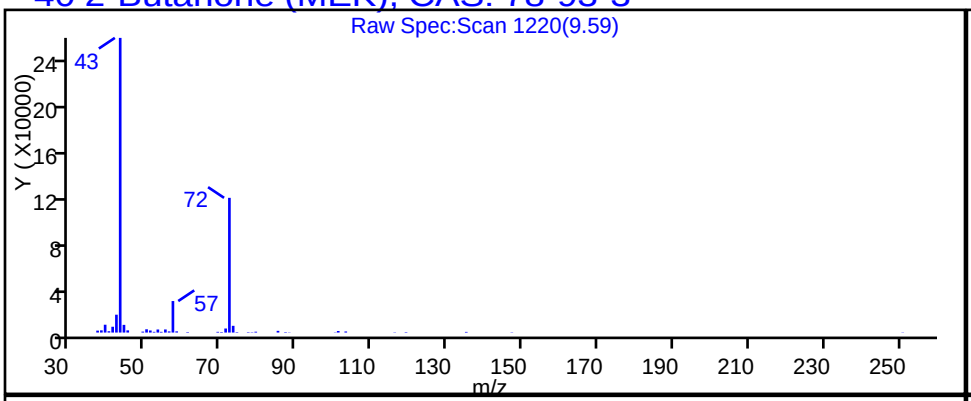
Report Date: 24-Mar-2014 12:20:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

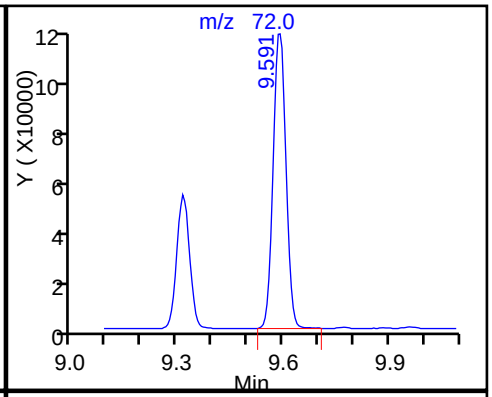
TestAmerica Burlington

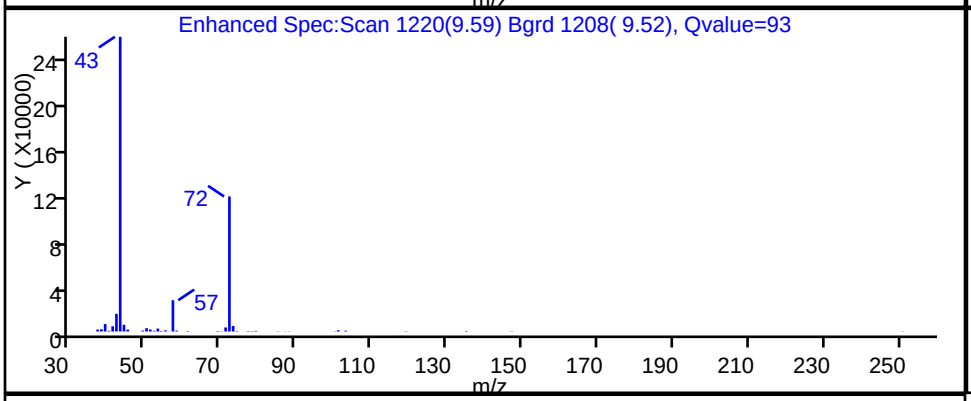
Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_009.D

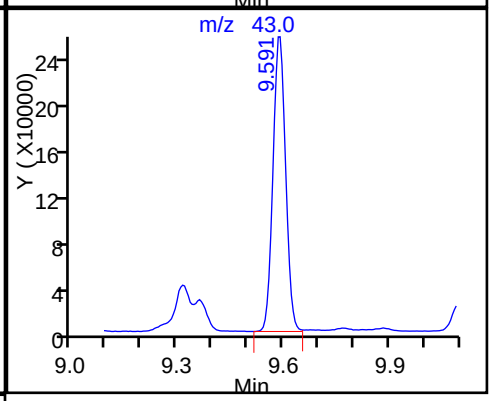
Injection Date:	21-Mar-2014 16:10:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-4	Lab Sample ID:	200-21380-4		
Client ID:	SEATING-SS-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

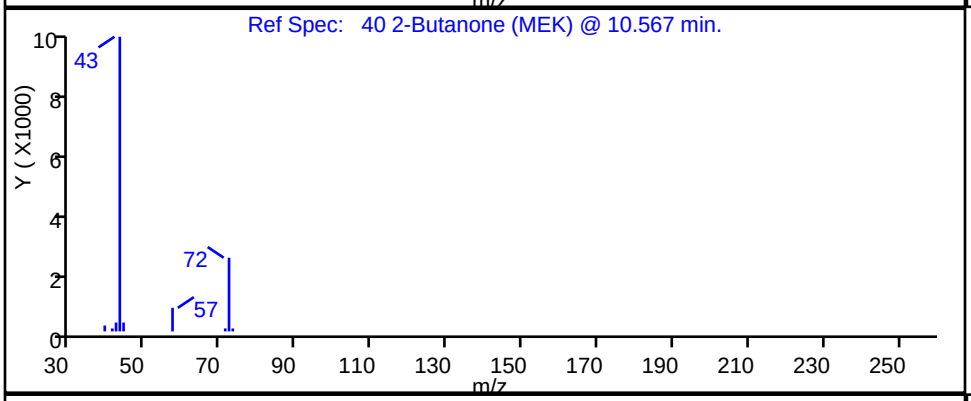
40 2-Butanone (MEK), CAS: 78-93-3

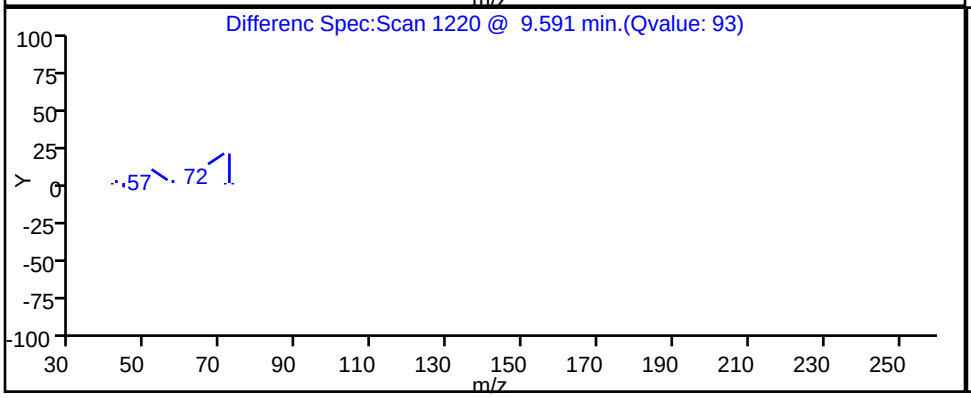


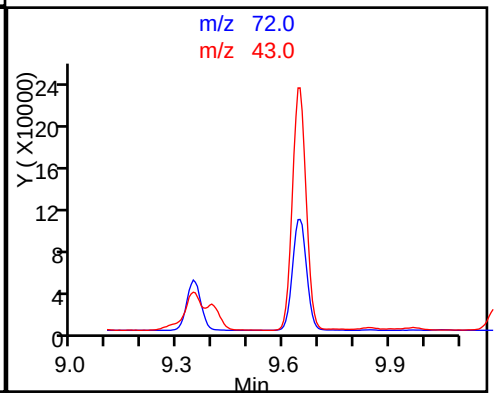












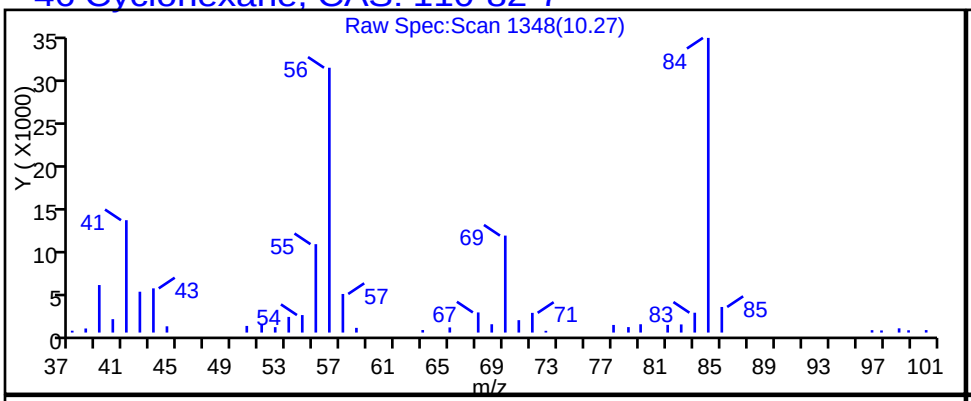
Report Date: 24-Mar-2014 12:20:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

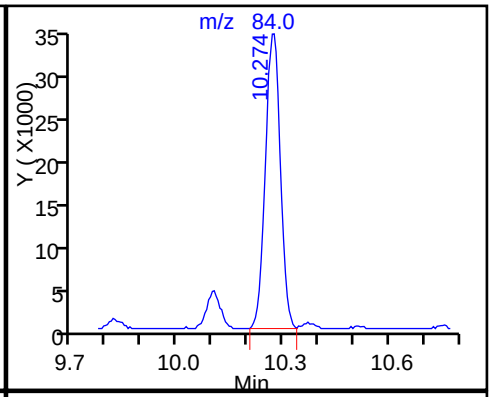
TestAmerica Burlington

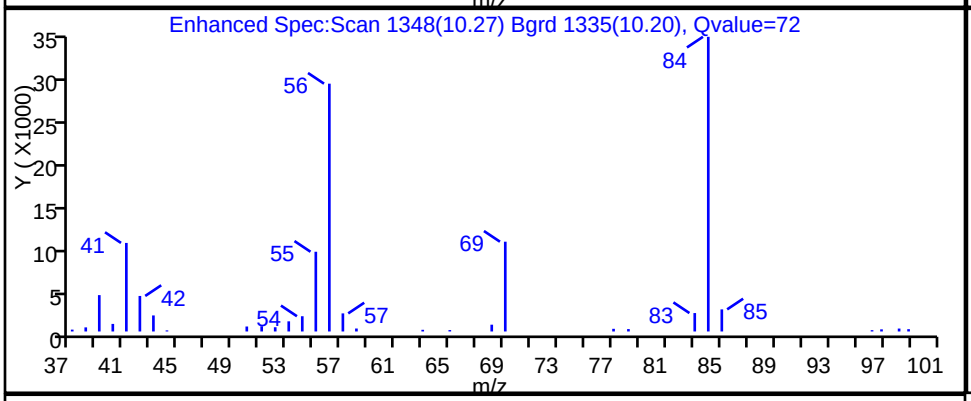
Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_009.D

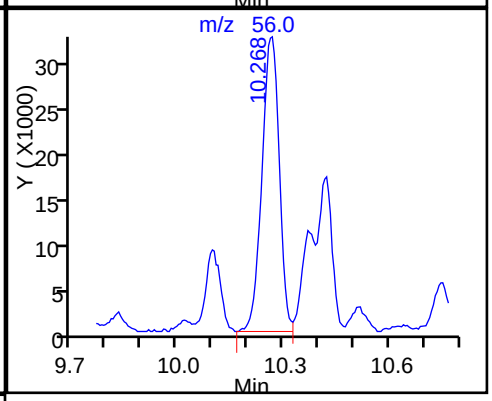
Injection Date:	21-Mar-2014 16:10:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-4	Lab Sample ID:	200-21380-4		
Client ID:	SEATING-SS-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

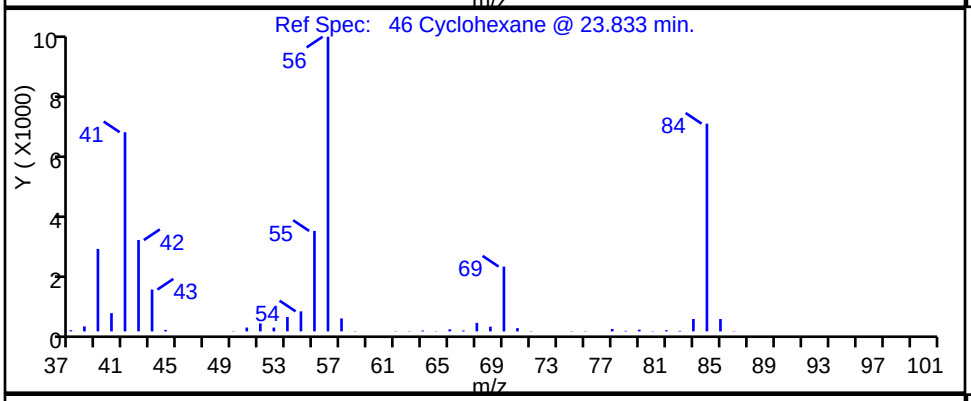
46 Cyclohexane, CAS: 110-82-7

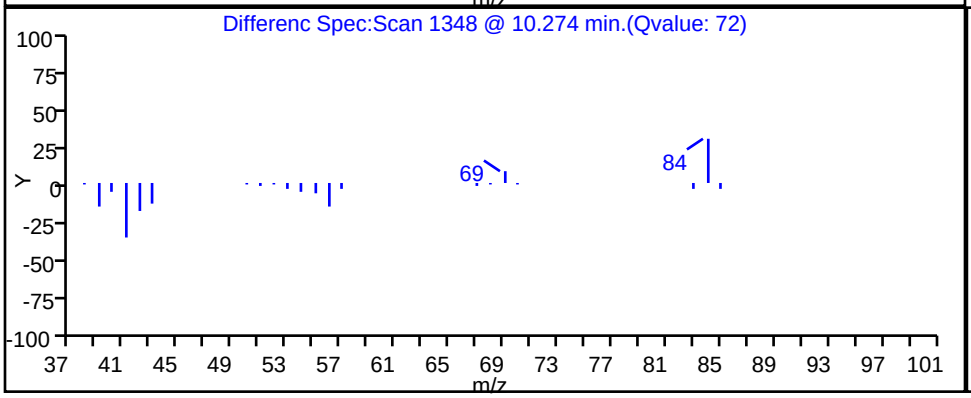


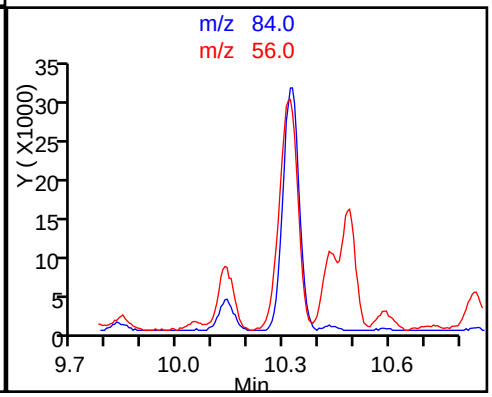












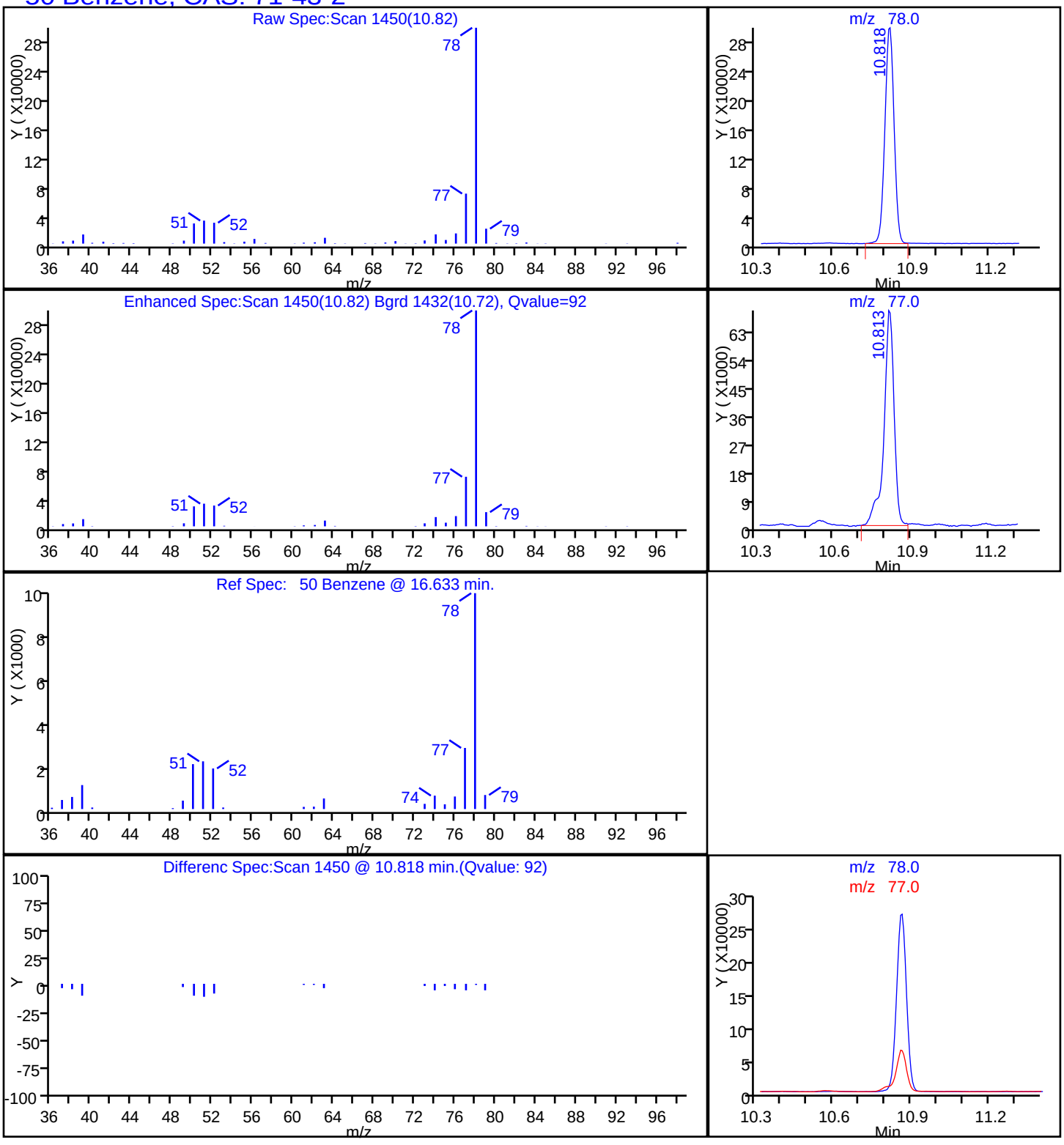
Report Date: 24-Mar-2014 12:20:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_009.D

Injection Date:	21-Mar-2014 16:10:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-4	Lab Sample ID:	200-21380-4		
Client ID:	SEATING-SS-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

50 Benzene, CAS: 71-43-2



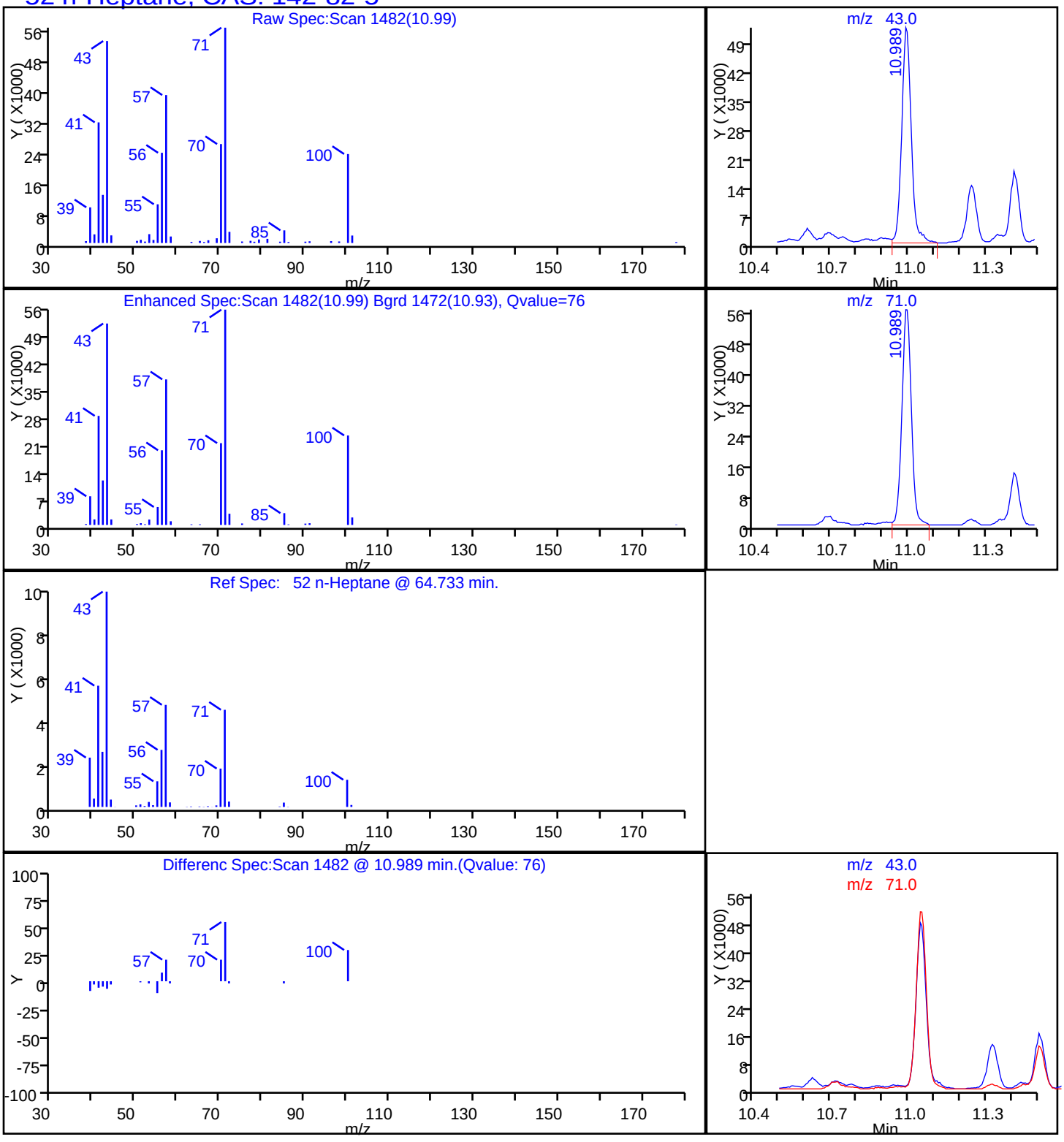
Report Date: 24-Mar-2014 12:20:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_009.D

Injection Date:	21-Mar-2014 16:10:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-4	Lab Sample ID:	200-21380-4		
Client ID:	SEATING-SS-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

52 n-Heptane, CAS: 142-82-5

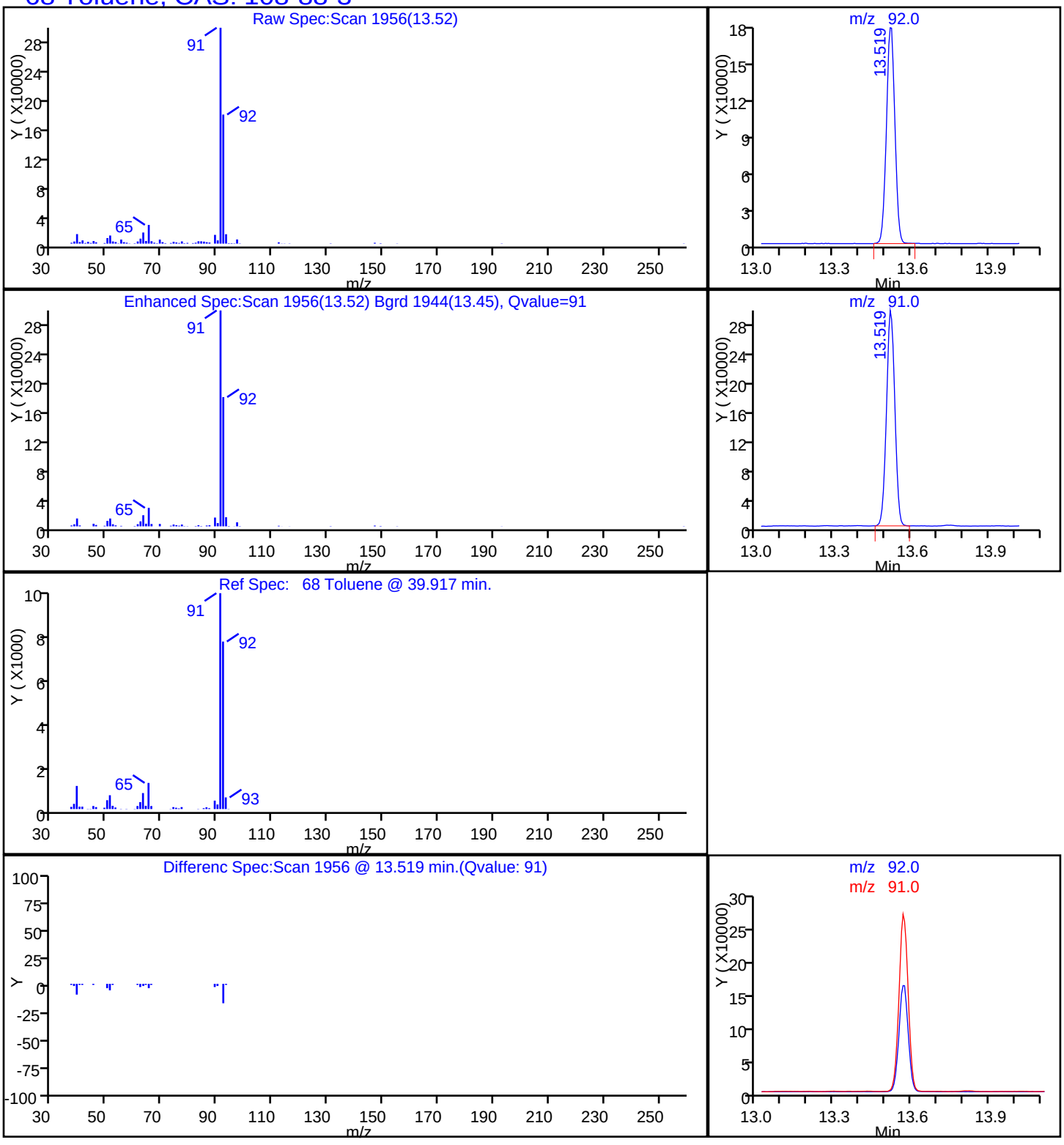


Report Date: 24-Mar-2014 12:20:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File:	\\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_009.D				
Injection Date:	21-Mar-2014 16:10:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-4	Lab Sample ID:	200-21380-4		
Client ID:	SEATING-SS-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Toluene, CAS: 108-88-3



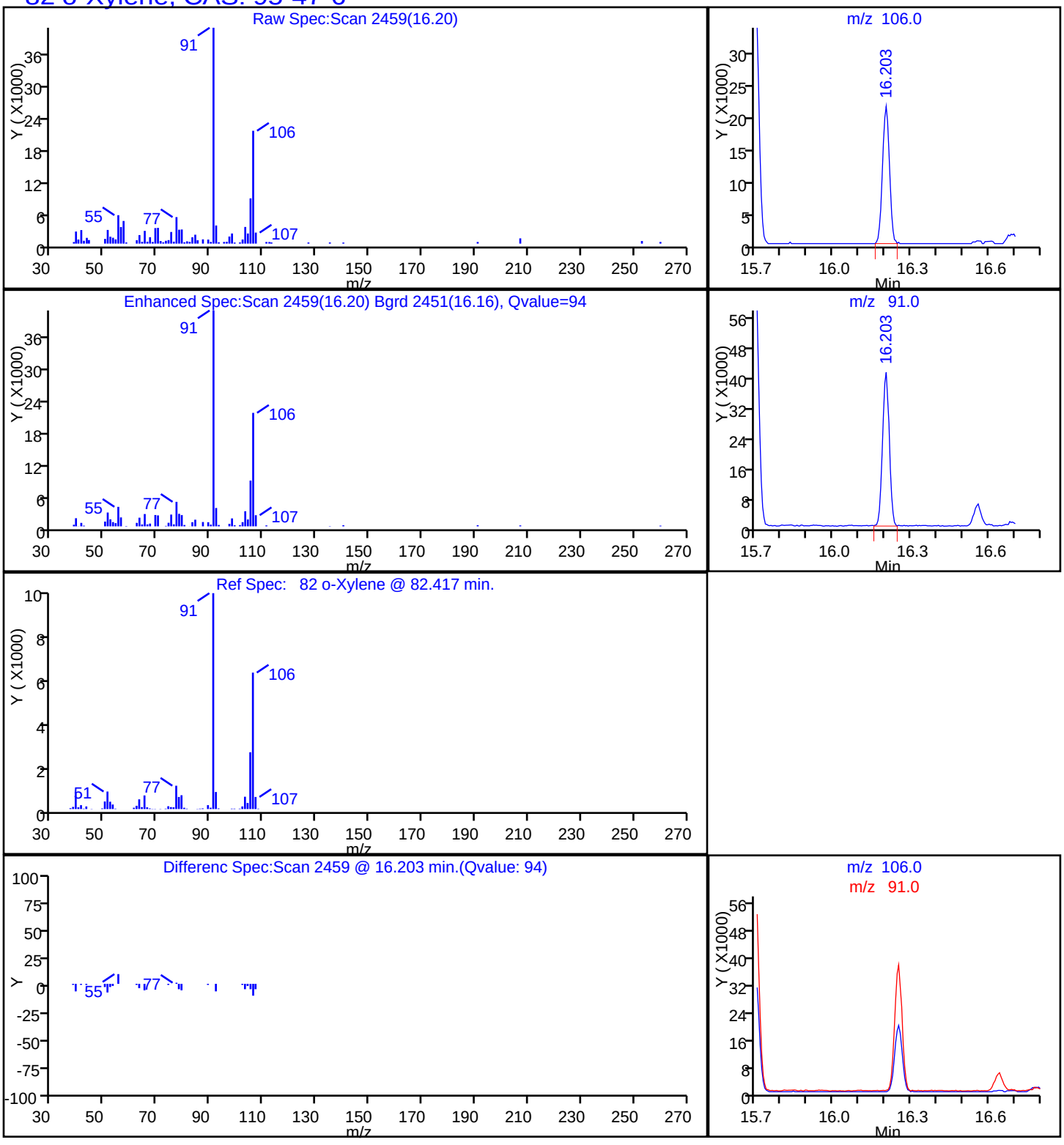
Report Date: 24-Mar-2014 12:20:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_009.D

Injection Date:	21-Mar-2014 16:10:30	Instrument ID:	CHB.i		
Lims ID:	200-21380-A-4	Lab Sample ID:	200-21380-4		
Client ID:	SEATING-SS-031114				
Operator ID:	pad	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21380-1 Analy Batch No.: 69511

SDG No.: 200-21380

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-69511/3	6557_003.D
Level 2	IC 200-69511/4	6557_004.D
Level 3	IC 200-69511/5	6557_005.D
Level 4	IC 200-69511/6	6557_006.D
Level 5	ICIS 200-69511/7	6557_007.D
Level 6	IC 200-69511/8	6557_008.D
Level 7	IC 200-69511/9	6557_009.D
Level 8	IC 200-69511/10	6557_010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	+++++ 0.0649	+++++ 0.1841	0.2747 0.1762	0.1803	0.1655	Ave		0.1743				38.0	*	30.0			
Dichlorodifluoromethane	+++++ 1.3843	+++++ 1.3872	1.8631 1.2626	1.5008	1.3628	Ave		1.4601				14.0		30.0			
Freon 22	+++++ 0.5192	+++++ 0.5365	0.6606 0.5110	0.5312	0.4957	Ave		0.5424				11.0		30.0			
1,2-Dichlorotetrafluoroethane	+++++ 1.2780	1.8021 1.2832	1.6866 1.1718	1.3580	1.2404	Ave		1.4029				17.0		30.0			
Chloromethane	+++++ 0.2557	+++++ 0.2673	0.3374 0.2600	0.2602	0.2420	Ave		0.2704				13.0		30.0			
n-Butane	+++++ 0.4273	+++++ 0.4393	0.5808 0.4225	0.4325	0.4000	Ave		0.4504				14.0		30.0			
Vinyl chloride	0.5225 0.4164	0.5335 0.4378	0.5208 0.4226	0.4337	0.4051	Ave		0.4616				12.0		30.0			
1,3-Butadiene	+++++ 0.2876	0.3548 0.3051	0.3419 0.2945	0.2998	0.2829	Ave		0.3095				9.0		30.0			
Bromomethane	+++++ 0.7524	1.1260 0.8320	1.0784 0.8050	0.8720	0.8046	Ave		0.8958				16.0		30.0			
Chloroethane	+++++ 0.2970	+++++ 0.3413	0.4466 0.3316	0.3583	0.3322	Ave		0.3512				14.0		30.0			
Isopentane	+++++ 0.3975	0.7623 0.4509	0.6503 0.4306	0.4854	0.4419	Ave		0.5170				26.0		30.0			
Bromoethene(Vinyl Bromide)	+++++ 0.8584	1.2481 0.9721	1.2192 0.9407	1.0078	0.9503	Ave		1.0281				14.0		30.0			
Trichlorofluoromethane	+++++ 2.1822	3.1363 2.3916	3.0562 2.2829	2.4875	2.3177	Ave		2.5506				15.0		30.0			
n-Pentane	+++++ 0.8182	+++++ 0.8524	1.2155 0.7879	0.9202	0.8292	Ave		0.9039				18.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21380-1 Analy Batch No.: 69511

SDG No.: 200-21380

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	+++++ 0.2119	+++++ 0.2032	0.2546 0.1803	0.2678	0.2387	Ave		0.2261				15.0		30.0			
Ethyl ether	+++++ 0.5071	0.6258 0.5140	0.6097 0.4844	0.5187	0.4844	Ave		0.5349				11.0		30.0			
Acrolein	+++++ 0.2139	+++++ 0.2216	+++++ 0.1893	0.2500	0.2275	Ave		0.2205				10.0		30.0			
Freon TF	+++++ 2.1092	2.7871 2.1282	2.5294 1.9482	2.0951	1.9898	Ave		2.2267				14.0		30.0			
1,1-Dichloroethene	+++++ 1.0535	1.2832 1.0739	1.2156 1.0189	1.0212	0.9878	Ave		1.0935				10.0		30.0			
Acetone	+++++ 0.8094	+++++ 0.9469	+++++ 0.7397	0.8184	0.7368	Ave		0.8103				11.0		30.0			
Isopropyl alcohol	+++++ 0.7740	+++++ 0.7401	+++++ 0.6297	0.7768	0.6980	Ave		0.7237				8.5		30.0			
Carbon disulfide	+++++ 2.6094	+++++ 2.3649	2.9253 2.1891	2.3918	2.2306	Ave		2.4519				11.0		30.0			
3-Chloropropene	+++++ 0.6495	0.9517 0.6571	0.8494 0.6082	0.7102	0.6364	Ave		0.7232				18.0		30.0			
Acetonitrile	+++++ 0.3643	+++++ 0.3670	+++++ 0.3327	0.3813	0.3412	Ave		0.3573				5.6		30.0			
Methylene Chloride	+++++ 0.6091	+++++ 0.6107	0.9661 0.5657	0.6695	0.5945	Ave		0.6693				22.0		30.0			
tert-Butyl alcohol	+++++ 1.4216	+++++ 1.4670	+++++ 1.2786	1.3753	1.2864	Ave		1.3658				6.1		30.0			
Methyl tert-butyl ether	+++++ 2.5967	3.0850 2.6664	2.9368 2.5416	2.5317	2.4407	Ave		2.6856				8.8		30.0			
trans-1,2-Dichloroethene	+++++ 1.0190	1.3452 1.0305	1.2687 0.9642	1.0569	0.9749	Ave		1.0942				14.0		30.0			
Acrylonitrile	+++++ 0.4677	+++++ 0.4811	0.5705 0.4538	0.4844	0.4427	Ave		0.4834				9.4		30.0			
n-Hexane	+++++ 1.0545	1.4421 1.0531	1.3195 0.9671	1.0960	1.0084	Ave		1.1344				16.0		30.0			
1,1-Dichloroethane	1.9343 1.3399	1.8300 1.3466	1.7175 1.2355	1.4109	1.2937	Ave		1.5135				18.0		30.0			
Vinyl acetate	+++++ 1.3834	+++++ 1.3742	+++++ 1.2295	1.4803	1.3402	Ave		1.3615				6.6		30.0			
cis-1,2-Dichloroethene	+++++ 1.1542	1.5159 1.1410	1.3928 0.9995	1.1741	1.1102	Ave		1.2125				15.0		30.0			
Ethyl acetate	+++++ 0.0916	+++++ 0.0920	+++++ 0.0807	0.0909	0.0869	Ave		0.0884				5.4		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21380-1 Analy Batch No.: 69511

SDG No.: 200-21380

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Methyl Ethyl Ketone	+++++ 0.4418	+++++ 0.4450	0.8399 0.3800	0.4577	0.4251	Ave		0.4983				34.0	*	30.0			
Tetrahydrofuran	+++++ 0.1117	+++++ 0.1099	+++++ 0.0985	0.1178	0.1074	Ave		0.1091				6.4		30.0			
Chloroform	+++++ 1.9716	2.5748 2.0083	2.3925 1.8935	1.9886	1.8740	Ave		2.1005				13.0		30.0			
Cyclohexane	+++++ 0.2828	0.3575 0.2783	0.3407 0.2402	0.2887	0.2710	Ave		0.2942				14.0		30.0			
1,1,1-Trichloroethane	+++++ 0.4425	0.5572 0.4388	0.5158 0.3914	0.4421	0.4164	Ave		0.4577				13.0		30.0			
Carbon tetrachloride	0.6115 0.4897	0.5836 0.4916	0.5501 0.4547	0.4723	0.4552	Ave		0.5136				12.0		30.0			
2,2,4-Trimethylpentane	+++++ 0.7071	0.9184 0.6918	0.8763 0.6075	0.7453	0.6773	Ave		0.7462				15.0		30.0			
Benzene	+++++ 0.6129	0.8222 0.6130	0.7646 0.5549	0.6220	0.5801	Ave		0.6528				15.0		30.0			
1,2-Dichloroethane	+++++ 0.2090	0.2697 0.2119	0.2546 0.1999	0.2114	0.1969	Ave		0.2219				13.0		30.0			
n-Heptane	+++++ 0.1925	0.2935 0.1873	0.2683 0.1621	0.2119	0.1869	Ave		0.2147				22.0		30.0			
n-Butanol	+++++ 0.0900	+++++ 0.0818	+++++ 0.0739	0.0788	0.0745	Ave		0.0798				8.2		30.0			
Trichloroethene	0.4028 0.3019	0.3870 0.3006	0.3557 0.2688	0.3022	0.2852	Ave		0.3255				15.0		30.0			
1,2-Dichloropropane	+++++ 0.1758	0.2441 0.1728	0.2297 0.1506	0.1858	0.1701	Ave		0.1898				18.0		30.0			
Methyl methacrylate	+++++ 0.1989	+++++ 0.1964	0.2206 0.1742	0.2006	0.1891	Ave		0.1966				7.7		30.0			
1,4-Dioxane	+++++ 0.1171	+++++ 0.1126	+++++ 0.0963	0.1078	0.1028	Ave		0.1073				7.6		30.0			
Dibromomethane	+++++ 0.3359	0.4116 0.3256	0.3834 0.2694	0.3341	0.3200	Ave		0.3400				14.0		30.0			
Bromodichloromethane	+++++ 0.4522	0.5578 0.4529	0.5174 0.4105	0.4540	0.4263	Ave		0.4673				11.0		30.0			
cis-1,3-Dichloropropene	+++++ 0.3350	0.3894 0.3372	0.3708 0.3102	0.3287	0.3124	Ave		0.3405				8.6		30.0			
methyl isobutyl ketone	+++++ 0.2607	+++++ 0.2567	0.3111 0.2275	0.2738	0.2506	Ave		0.2634				11.0		30.0			
n-Octane	+++++ 0.2612	0.3942 0.2518	0.3649 0.2117	0.2958	0.2582	Ave		0.2911				23.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21380-1 Analy Batch No.: 69511

SDG No.: 200-21380

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Toluene	+++++ 0.5970	0.7615 0.5874	0.7191 0.5196	0.5897	0.5594	Ave		0.6191				14.0		30.0			
trans-1,3-Dichloropropene	+++++ 0.3462	0.3935 0.3526	0.3730 0.3248	0.3402	0.3244	Ave		0.3507				7.2		30.0			
1,1,2-Trichloroethane	+++++ 0.2627	0.3410 0.2609	0.3149 0.2324	0.2612	0.2455	Ave		0.2741				14.0		30.0			
Tetrachloroethene	0.7247 0.5842	0.7375 0.5564	0.6887 0.4519	0.5833	0.5594	Ave		0.6108				16.0		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.2938	+++++ 0.2917	0.3696 0.2590	0.3014	0.2767	Ave		0.2987				13.0		30.0			
Dibromochloromethane	+++++ 0.6735	0.7625 0.6601	0.7350 0.5663	0.6524	0.6277	Ave		0.6682				9.8		30.0			
1,2-Dibromoethane	+++++ 0.5787	0.6818 0.5704	0.6501 0.4959	0.5602	0.5401	Ave		0.5825				11.0		30.0			
Chlorobenzene	+++++ 0.8982	1.1090 0.8842	1.0589 0.7705	0.8777	0.8385	Ave		0.9196				13.0		30.0			
n-Nonane	+++++ 0.3486	0.5649 0.3289	0.5273 0.2622	0.4026	0.3510	Ave		0.3979				28.0		30.0			
Ethylbenzene	+++++ 1.1589	1.6628 1.0903	1.5460 0.8425	1.2646	1.1447	Ave		1.2443				22.0		30.0			
m,p-Xylene	+++++ 0.5184	0.7038 0.4856	0.6724 0.3785	0.5592	0.5136	Ave		0.5474				20.0		30.0			
Xylene, o-	+++++ 0.5564	0.6892 0.5317	0.6641 0.4362	0.5615	0.5306	Ave		0.5671				15.0		30.0			
Styrene	+++++ 0.8692	0.9959 0.8315	0.9712 0.6853	0.8775	0.8314	Ave		0.8660				12.0		30.0			
Bromoform	+++++ 0.6692	0.7623 0.6207	0.7321 0.4621	0.6894	0.6561	Ave		0.6560				15.0		30.0			
Cumene	+++++ 1.5777	1.9416 1.5216	1.8811 1.2487	1.5915	1.5051	Ave		1.6096				15.0		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.6810	0.9050 0.6626	0.8540 0.5389	0.7067	0.6560	Ave		0.7149				17.0		30.0			
n-Propylbenzene	+++++ 1.7154	2.2503 1.6359	2.1406 1.2486	1.7994	1.6710	Ave		1.7802				19.0		30.0			
1,2,3-Trichloropropane	+++++ 0.4550	+++++ 0.4346	0.6354 0.3300	0.5042	0.4511	Ave		0.4684				21.0		30.0			
n-Decane	+++++ 0.4603	+++++ 0.4181	0.6818 0.3259	0.5380	0.4668	Ave		0.4818				25.0		30.0			
4-Ethyltoluene	+++++ 1.5866	2.0056 1.5185	1.8864 1.1917	1.6161	1.5173	Ave		1.6175				16.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21380-1 Analy Batch No.: 69511

SDG No.: 200-21380

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	+++++ 1.1711	1.5843 1.1243	1.4684 0.8735	1.2239	1.1356	Ave		1.2259				19.0		30.0			
1,3,5-Trimethylbenzene	+++++ 1.2780	1.8405 1.2058	1.5800 0.9213	1.3418	1.2470	Ave		1.3449				22.0		30.0			
Alpha Methyl Styrene	+++++ 0.7427	0.7643 0.6795	0.7608 0.5905	0.7410	0.7166	Ave		0.7136				8.6		30.0			
tert-Butylbenzene	+++++ 1.3383	1.6500 1.2797	1.6121 1.0206	1.3623	1.2752	Ave		1.3626				16.0		30.0			
1,2,4-Trimethylbenzene	+++++ 1.3474	1.8414 1.2725	1.5907 1.0374	1.3632	1.2794	Ave		1.3903				18.0		30.0			
sec-Butylbenzene	+++++ 1.9256	2.4847 1.7896	2.4436 1.4307	1.9983	1.8528	Ave		1.9893				19.0		30.0			
4-Isopropyltoluene	+++++ 1.7011	2.1051 1.5215	2.0199 1.2747	1.7276	1.6212	Ave		1.7102				17.0		30.0			
1,3-Dichlorobenzene	+++++ 1.0335	1.2027 0.9692	1.2192 0.7673	1.0283	0.9819	Ave		1.0289				15.0		30.0			
1,4-Dichlorobenzene	+++++ 1.0392	1.2010 0.9620	1.1836 0.7732	1.0284	0.9835	Ave		1.0244				14.0		30.0			
Benzyl chloride	+++++ 1.1308	1.1119 1.1332	1.1776 1.0055	1.1545	1.1243	Ave		1.1197				4.9		30.0			
n-Undecane	+++++ 0.5446	+++++ 0.5062	+++++ 0.4288	0.6090	0.5128	Ave		0.5203				13.0		30.0			
n-Butylbenzene	+++++ 1.3839	1.6578 1.2166	1.6667 1.0709	1.4202	1.3172	Ave		1.3905				16.0		30.0			
1,2-Dichlorobenzene	+++++ 0.9948	1.1501 0.9058	1.1433 0.7600	0.9847	0.9365	Ave		0.9822				14.0		30.0			
n-Dodecane	+++++ 0.5175	+++++ 0.4807	+++++ 0.3797	0.4243	0.4502	Ave		0.4505				12.0		30.0			
1,2,4-Trichlorobenzene	+++++ 0.7506	+++++ 0.7623	0.6249 0.6384	0.6713	0.6625	Ave		0.6850				8.5		30.0			
Hexachlorobutadiene	+++++ 0.5154	0.7227 0.4881	0.7125 0.3436	0.5561	0.5114	Ave		0.5499				24.0		30.0			
Naphthalene	+++++ 1.8127	+++++ 1.7883	1.3094 1.6270	1.6060	1.5881	Ave		1.6219				11.0		30.0			
1,2,3-Trichlorobenzene	+++++ 0.7150	0.3477 0.7206	0.5376 0.6158	0.5638	0.6165	Ave		0.5882				22.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21380-1 Analy Batch No.: 69511

SDG No.: 200-21380

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-69511/3	6557_003.D
Level 2	IC 200-69511/4	6557_004.D
Level 3	IC 200-69511/5	6557_005.D
Level 4	IC 200-69511/6	6557_006.D
Level 5	ICIS 200-69511/7	6557_007.D
Level 6	IC 200-69511/8	6557_008.D
Level 7	IC 200-69511/9	6557_009.D
Level 8	IC 200-69511/10	6557_010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 68669	+++++ 255405	8571 494024	57846	111743	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
Dichlorodifluoromethane	BCM	Ave	+++++ 1465088	+++++ 1924684	58127 3540616	481596	920185	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
Freon 22	BCM	Ave	+++++ 549505	+++++ 744372	20609 1432858	170467	334727	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	+++++ 1352587	22832 1780420	52621 3286009	435762	837587	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Chloromethane	BCM	Ave	+++++ 270601	+++++ 370938	10528 728978	83492	163438	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
n-Butane	BCM	Ave	+++++ 452265	+++++ 609510	18121 1184752	138783	270060	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
Vinyl chloride	BCM	Ave	1331 440686	6759 607381	16249 1184971	139181	273563	0.0401 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,3-Butadiene	BCM	Ave	+++++ 304353	4495 423287	10668 825788	96202	191019	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Bromomethane	BCM	Ave	+++++ 796315	14266 1154441	33647 2257298	279835	543316	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Chloroethane	BCM	Ave	+++++ 314310	+++++ 473613	13933 929992	114968	224337	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
Isopentane	BCM	Ave	+++++ 420737	9658 625662	20288 1207411	155767	298374	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Bromoethene(Vinyl Bromide)	BCM	Ave	+++++ 908458	15813 1348796	38039 2637985	323401	641650	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Trichlorofluoromethane	BCM	Ave	+++++ 2309499	39736 3318292	95353 6401573	798212	1564955	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Pentane	BCM	Ave	+++++ 865938	+++++ 1182737	37924 2209554	295295	559900	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
Ethanol	BCM	Ave	+++++ 299678	+++++ 563864	79522 1263924	128955	241834	+++++ 20.0	+++++ 40.0	5.01 100.0	7.50	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21380-1 Analy Batch No.: 69511

SDG No.: 200-21380

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl ether	BCM	Ave	+++++ 536655	7929 713148	19022 1358409	166445	327105	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Acrolein	BCM	Ave	+++++ 226399	+++++ 307411	+++++ 530924	80218	153606	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.00
Freon TF	BCM	Ave	+++++ 2232253	35311 2952854	78917 5463001	672307	1343543	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,1-Dichloroethene	BCM	Ave	+++++ 1115004	16258 1490003	37925 2857246	327709	667016	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Acetone	BCM	Ave	+++++ 856670	+++++ 1313841	+++++ 2074276	262630	497524	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.00
Isopropyl alcohol	BCM	Ave	+++++ 819186	+++++ 1026923	+++++ 1765711	249273	471335	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.00
Carbon disulfide	BCM	Ave	+++++ 2761642	+++++ 3281323	91269 6138624	767517	1506201	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
3-Chloropropene	BCM	Ave	+++++ 687372	12058 911683	26500 1705527	227884	429698	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Acetonitrile	BCM	Ave	+++++ 385574	+++++ 509211	+++++ 933071	122363	230402	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.00
Methylene Chloride	BCM	Ave	+++++ 644656	+++++ 847304	30143 1586209	214839	401417	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
tert-Butyl alcohol	BCM	Ave	+++++ 1504559	+++++ 2035444	+++++ 3585393	441312	868611	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.00
Methyl tert-butyl ether	BCM	Ave	+++++ 2748228	39086 3699655	91627 7127075	812400	1648054	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
trans-1,2-Dichloroethene	BCM	Ave	+++++ 1078469	17043 1429875	39584 2703787	339144	658313	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Acrylonitrile	BCM	Ave	+++++ 495022	+++++ 667510	17800 1272502	155452	298927	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
n-Hexane	BCM	Ave	+++++ 1115992	18271 1461195	41169 2711842	351686	680918	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,1-Dichloroethane	BCM	Ave	4927 1418035	23185 1868454	53584 3464607	452748	873545	0.0401 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Vinyl acetate	BCM	Ave	+++++ 1464152	+++++ 1906704	+++++ 3447819	475027	904975	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.00
cis-1,2-Dichloroethene	BCM	Ave	+++++ 1221577	19206 1583080	43454 2802676	376774	749642	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Ethyl acetate	BCM	Ave	+++++ 96943	+++++ 127711	+++++ 226393	29154	58667	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.00
Methyl Ethyl Ketone	BCM	Ave	+++++ 467560	+++++ 617414	26204 1065698	146884	287042	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
Tetrahydrofuran	DFB	Ave	+++++ 580459	+++++ 759097	+++++ 1410138	184951	357806	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21380-1 Analy Batch No.: 69511

SDG No.: 200-21380

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	+++++ 2086637	32622 2786507	74646 5309881	638145	1265393	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Cyclohexane	DFB	Ave	+++++ 1469351	22263 1923315	52451 3438058	453345	902914	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,1,1-Trichloroethane	DFB	Ave	+++++ 2299185	34702 3032003	79404 5601171	694187	1387581	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Carbon tetrachloride	DFB	Ave	7688 2544730	36346 3397109	84690 6507101	741752	1516732	0.0401 15.0	0.200 20.0	0.500 40.0	5.00	10.00
2,2,4-Trimethylpentane	DFB	Ave	+++++ 3674073	57197 4780267	134899 8692904	1170360	2256830	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Benzene	DFB	Ave	+++++ 3184914	51207 4236294	117698 7941325	976766	1932969	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,2-Dichloroethane	DFB	Ave	+++++ 1086275	16799 1464050	39188 2860834	332018	656142	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Heptane	DFB	Ave	+++++ 1000301	18279 1294563	41308 2319165	332828	622895	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Butanol	DFB	Ave	+++++ 467587	+++++ 565060	+++++ 1057428	123822	248283	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.00
Trichloroethene	DFB	Ave	5064 1568848	24102 2077327	54752 3845972	474548	950435	0.0401 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,2-Dichloropropane	DFB	Ave	+++++ 913733	15200 1194267	35366 2154445	291733	566681	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Methyl methacrylate	DFB	Ave	+++++ 1033432	+++++ 1357006	33960 2492241	315002	630238	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
1,4-Dioxane	DFB	Ave	+++++ 608623	+++++ 777877	+++++ 1377573	169229	342447	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.00
Dibromomethane	DFB	Ave	+++++ 1745664	25631 2250293	59019 3855401	524669	1066343	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Bromodichloromethane	DFB	Ave	+++++ 2349823	34739 3129985	79649 5874293	712958	1420398	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
cis-1,3-Dichloropropene	DFB	Ave	+++++ 1740534	24251 2329911	57084 4438475	516162	1040993	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
methyl isobutyl ketone	DFB	Ave	+++++ 1354524	+++++ 1773942	47898 3256051	429924	834973	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
n-Octane	DFB	Ave	+++++ 1357409	24552 1740122	56176 3029042	464584	860496	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Toluene	CBZ	Ave	+++++ 2674219	40930 3499416	95787 6361095	816354	1633881	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
trans-1,3-Dichloropropene	DFB	Ave	+++++ 1798875	24509 2436771	57421 4648506	534250	1080930	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,1,2-Trichloroethane	CBZ	Ave	+++++ 1176628	18328 1554181	41944 2845144	361660	717177	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21380-1 Analy Batch No.: 69511

SDG No.: 200-21380

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	7833 2616855	39642 3314444	91737 5532199	807492	1633959	0.0401 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	+++++ 1316006	+++++ 1737767	49225 3170989	417306	808379	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
Dibromochloromethane	CBZ	Ave	+++++ 3017034	40982 3932354	97899 6932737	903205	1833432	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,2-Dibromoethane	CBZ	Ave	+++++ 2592310	36645 3398396	86600 6070004	775530	1577770	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Chlorobenzene	CBZ	Ave	+++++ 4023470	59607 5267778	141044 9431276	1215122	2449145	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Nonane	CBZ	Ave	+++++ 1561478	30365 1959601	70239 3209594	557391	1025407	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Ethylbenzene	CBZ	Ave	+++++ 5191461	89374 6495489	205924 10312987	1750749	3343755	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
m,p-Xylene	CBZ	Ave	+++++ 4644341	75656 5786128	179129 9266378	1548469	3000428	+++++ 30.0	0.401 40.0	1.00 80.0	10.00	20.0
Xylene, o-	CBZ	Ave	+++++ 2492466	37045 3167400	88465 5339938	777411	1549988	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Styrene	CBZ	Ave	+++++ 3893795	53527 4953505	129371 8389157	1214818	2428442	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Bromoform	CBZ	Ave	+++++ 2997727	40971 3697642	97515 5656651	954393	1916394	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Cumene	CBZ	Ave	+++++ 7067549	104358 9064997	250560 15285968	2203399	4396476	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	+++++ 3050605	48641 3947404	113755 6596922	978332	1916061	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Propylbenzene	CBZ	Ave	+++++ 7684271	120949 9745592	285137 15283787	2491172	4881105	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,2,3-Trichloropropane	CBZ	Ave	+++++ 2038241	+++++ 2588942	84639 4039768	698070	1317531	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
n-Decane	CBZ	Ave	+++++ 2062173	+++++ 2490757	90811 3988912	744811	1363532	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
4-Ethyltoluene	CBZ	Ave	+++++ 7107273	107800 9046481	251275 14587801	2237468	4432110	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
2-Chlorotoluene	CBZ	Ave	+++++ 5246023	85154 6698226	195591 10693128	1694435	3317018	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,3,5-Trimethylbenzene	CBZ	Ave	+++++ 5725056	98925 7183369	210455 11277858	1857598	3642511	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Alpha Methyl Styrene	CBZ	Ave	+++++ 3326924	41079 4047851	101344 7228062	1025925	2093076	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
tert-Butylbenzene	CBZ	Ave	+++++ 5995016	88687 7624038	214734 12493741	1886002	3724879	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21380-1 Analy Batch No.: 69511

SDG No.: 200-21380

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBZ	Ave	+++++ 6036071	98972 7580704	211879 12699315	1887274	3737027	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
sec-Butylbenzene	CBZ	Ave	+++++ 8626253	133548 10661494	325491 17513133	2766537	5412056	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
4-Isopropyltoluene	CBZ	Ave	+++++ 7620158	113149 9064508	269051 15603740	2391787	4735407	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,3-Dichlorobenzene	CBZ	Ave	+++++ 4629709	64644 5773886	162406 9392266	1423576	2868077	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,4-Dichlorobenzene	CBZ	Ave	+++++ 4655273	64551 5731284	157663 9464364	1423820	2872688	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Benzyl chloride	CBZ	Ave	+++++ 5065652	59765 6751126	156864 12308288	1598301	3284040	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Undecane	CBZ	Ave	+++++ 2439571	+++++ 3015477	+++++ 5248772	843164	1497753	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.00
n-Butylbenzene	CBZ	Ave	+++++ 6199465	89107 7247969	222001 13108720	1966195	3847571	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,2-Dichlorobenzene	CBZ	Ave	+++++ 4456201	61816 5396501	152286 9303927	1363193	2735633	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Dodecane	CBZ	Ave	+++++ 2318147	+++++ 2863895	+++++ 4647868	587452	1315124	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.00
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 3362637	+++++ 4541232	83237 7814515	929365	1935193	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
Hexachlorobutadiene	CBZ	Ave	+++++ 2308722	38842 2907662	94901 4206355	769824	1493683	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Naphthalene	CBZ	Ave	+++++ 8120457	+++++ 10653795	174415 19916995	2223399	4638967	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.00
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 3203028	18691 4293018	71612 7538008	780543	1800836	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_003.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 14-Mar-2014 12:11:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006557-003
Misc. Info.: level 1
Operator ID: pad Instrument ID: CHB.i
Sublist: chrom-TO15_LLNJ_TO3*sub5

Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 17-Mar-2014 10:55:04 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: daiglep Date: 17-Mar-2014 10:07:25

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.170	3.170	0.0	77	1861	0.1681	
5 Dichlorodifluoromethane	85	3.234	3.235	-0.001	69	4961	0.0535	
6 Chlorodifluoromethane	51	3.272	3.272	0.0	29	2025	0.0588	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.464	3.464	0.0	69	4797	0.0538	
8 Chloromethane	50	3.608	3.603	0.005	37	952	0.0554	
9 Butane	43	3.779	3.784	-0.005	74	2071	0.0724	
10 Vinyl chloride	62	3.843	3.832	0.011	22	1331	0.0454	
11 Butadiene	54	3.907	3.902	0.005	58	923	0.0469	
12 Bromomethane	94	4.633	4.627	0.006	80	3197	0.0562	
13 BFB								
14 Chloroethane	64	4.868	4.873	-0.005	16	1061	0.0476	
15 2-Methylbutane	43	4.942	4.937	0.005	74	3019	0.0919	
16 Vinyl bromide	106	5.294	5.295	-0.001	69	3648	0.0558	
17 Trichlorofluoromethane	101	5.380	5.385	-0.005	54	8804	0.0543	
18 Pentane	43	5.519	5.524	-0.005	84	5022	0.0874	
19 Ethanol	45	5.898	5.887	0.011	73	1124	0.0783	
21 Ethyl ether	59	6.026	6.020	0.006	55	1631	0.0480	
22 Acrolein	56	6.447	6.437	0.010	1	1384	0.0988	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.442	6.442	0.0	68	7292	0.0515	
24 1,1-Dichloroethene	96	6.517	6.522	-0.005	51	3666	0.0528	
25 Acetone	43	6.730	6.714	0.016	76	19888	0.3863	
26 Isopropyl alcohol	45	6.928	6.917	0.011	62	3869	0.0841	
27 Carbon disulfide	76	6.954	6.954	0.0	85	9544	0.0613	
29 3-Chloro-1-propene	41	7.242	7.253	-0.011	39	2615	0.0569	
30 Acetonitrile	41	7.376	7.371	0.005	77	2263	0.0997	
31 Methylene Chloride	49	7.525	7.520	0.005	57	4383	0.1031	
32 2-Methyl-2-propanol	59	7.627	7.621	0.006	49	4358	0.0502	
33 Methyl tert-butyl ether	73	7.856	7.846	0.010	60	8164	0.0478	
34 trans-1,2-Dichloroethene	61	7.904	7.915	-0.011	40	3485	0.0501	
35 Acrylonitrile	53	8.048	8.043	0.005	62	991	0.0323	

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v		Flags
	36 Hexane	57	8.224	8.230	-0.006	73	4402	0.0611		
	37 1,1-Dichloroethane	63	8.673	8.684	-0.011	59	4927	0.0512		
	38 Vinyl acetate	43	8.683	8.689	-0.006	96	4606	0.0532		
	39 cis-1,2-Dichloroethene	96	9.585	9.591	-0.006	14	3836	0.0498		
	41 Ethyl acetate	88		9.591						
	40 2-Butanone (MEK)	72	9.601	9.596	0.005	93	6139	0.1939		
	43 Tetrahydrofuran	42	9.970	9.959	0.011	19	2559	0.0748		
*	44 Chlorobromomethane	128	9.964	8.558	1.406	68	635388	10.0		
S	42 1,2-Dichloroethene, Total	61				0		0.0999		
	45 Chloroform	83	10.028	10.034	-0.006	32	6755	0.0506		
	46 Cyclohexane	84	10.274	10.274	0.0	36	4638	0.0503		
	47 1,1,1-Trichloroethane	97	10.279	10.285	-0.006	60	7106	0.0495		
	48 Carbon tetrachloride	117	10.477	10.477	0.0	75	7688	0.0477		
	49 Isooctane	57	10.743	10.749	-0.006	90	12251	0.0523		
	50 Benzene	78	10.813	10.824	-0.011	62	11488	0.0561		
	51 1,2-Dichloroethane	62	10.936	10.941	-0.005	66	3647	0.0524		
	52 n-Heptane	43	10.989	11.000	-0.011	65	3852	0.0572		
A	53 GRO	1	11.032	4.927 -	17.137	0	1843153	0		
*	54 1,4-Difluorobenzene	114	11.363	11.368	-0.005	91	3136422	10.0		
	56 n-Butanol	56	11.555	11.544	0.011	61	2918	0.1166		
	57 Trichloroethene	95	11.725	11.726	-0.001	64	5064	0.0496		
	58 1,2-Dichloropropane	63	12.115	12.120	-0.005	46	3330	0.0559		
	59 Methyl methacrylate	69		12.147						
	60 1,4-Dioxane	88	12.259	12.238	0.021	35	2141	0.0636		
	61 Dibromomethane	174	12.297	12.307	-0.010	81	5588	0.0524		
	62 Dichlorobromomethane	83	12.462	12.473	-0.011	66	7099	0.0484		
A	63 TVOC as Toluene	1	12.705	3.160 -	22.249	0	2777462	14.3		
	64 cis-1,3-Dichloropropene	75	13.092	13.102	-0.010	42	4850	0.0454		
	65 4-Methyl-2-pentanone (MIBK)	43	13.263	13.257	0.005	71	6861	0.0830		
	67 n-Octane	43	13.471	13.476	-0.005	70	5405	0.0592		
	68 Toluene	92	13.513	13.524	-0.011	71	8267	0.0495		
	70 trans-1,3-Dichloropropene	75	13.898	13.898	0.0	38	4947	0.0450		
	71 1,1,2-Trichloroethane	83		14.175						
	72 Tetrachloroethene	166	14.282	14.277	0.005	71	7833	0.0476		M
	73 2-Hexanone	43	14.426	14.426	0.0	68	4492	0.0558		
	74 Chlorodibromomethane	129	14.703	14.709	-0.006	60	8288	0.0460		
	75 Ethylene Dibromide	107	14.912	14.917	-0.005	60	7418	0.0472		
*	76 Chlorobenzene-d5	117	15.451	15.456	-0.005	80	2696067	10.0		
	77 Chlorobenzene	112	15.488	15.493	-0.005	21	12607	0.0509		
	78 n-Nonane	57	15.547	15.547	0.0	69	6671	0.0622		
	79 Ethylbenzene	91	15.552	15.557	-0.005	79	18617	0.0555		
	80 m-Xylene & p-Xylene	106	15.696	15.702	-0.006	97	16259	0.1102		
S	81 Xylenes, Total	106				0		0.1614		
	82 o-Xylene	106	16.203	16.209	-0.006	81	7834	0.0512		
	83 Styrene	104	16.230	16.235	-0.005	88	10490	0.0449		
	84 Bromoform	173	16.523	16.529	-0.006	89	8428	0.0477		
	85 Isopropylbenzene	105	16.609	16.609	0.0	75	21196	0.0488		
$	86 4-Bromofluorobenzene	95	16.870	16.870	0.0	98	1678041	NC		
	87 1,1,2,2-Tetrachloroethane	83	17.025	17.025	0.0	76	9910	0.0514		
	88 N-Propylbenzene	91	17.078	17.084	-0.006	92	26207	0.0546		
	89 1,2,3-Trichloropropane	75	17.110	17.116	-0.006	76	8059	0.0638		
	90 n-Decane	57	17.126	17.127	0.0	76	8135	0.0626		

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v	Flags
91 4-Ethyltoluene	105	17.206	17.207	-0.001	76	22188	0.0509	
92 2-Chlorotoluene	91	17.255	17.255	-0.001	69	16933	0.0512	
93 1,3,5-Trimethylbenzene	105	17.271	17.276	-0.005	86	19944	0.0550	
94 Alpha Methyl Styrene	118	17.553	17.553	0.0	79	8189	0.0426	
95 tert-Butylbenzene	119	17.655	17.660	-0.005	81	18912	0.0515	
96 1,2,4-Trimethylbenzene	105	17.729	17.730	-0.001	70	19716	0.0526	
97 sec-Butylbenzene	105	17.922	17.922	0.0	86	27546	0.0514	
98 4-Isopropyltoluene	119	18.076	18.076	0.0	73	23640	0.0513	
99 1,3-Dichlorobenzene	146	18.156	18.162	-0.006	87	12941	0.0467	
100 1,4-Dichlorobenzene	146	18.269	18.274	-0.005	85	12921	0.0468	
101 Benzyl chloride	91	18.439	18.445	-0.006	75	11990	0.0397	
102 Undecane	57	18.535	18.535	0.0	82	6924	0.0494	
103 n-Butylbenzene	91	18.589	18.594	-0.005	78	16395	0.0437	
104 1,2-Dichlorobenzene	146	18.776	18.781	-0.005	80	12239	0.0462	
106 Dodecane	57		20.046					
107 1,2,4-Trichlorobenzene	180	21.225	21.225	0.0	1	1332	0.007212	
108 Hexachlorobutadiene	225	21.380	21.385	-0.005	55	6634	0.0447	
109 Naphthalene	128	21.748	21.748	0.0	1	2406	0.005502	
110 1,2,3-Trichlorobenzene	180		22.239					

QC Flag Legend

Review Flags
M - Manually Integrated

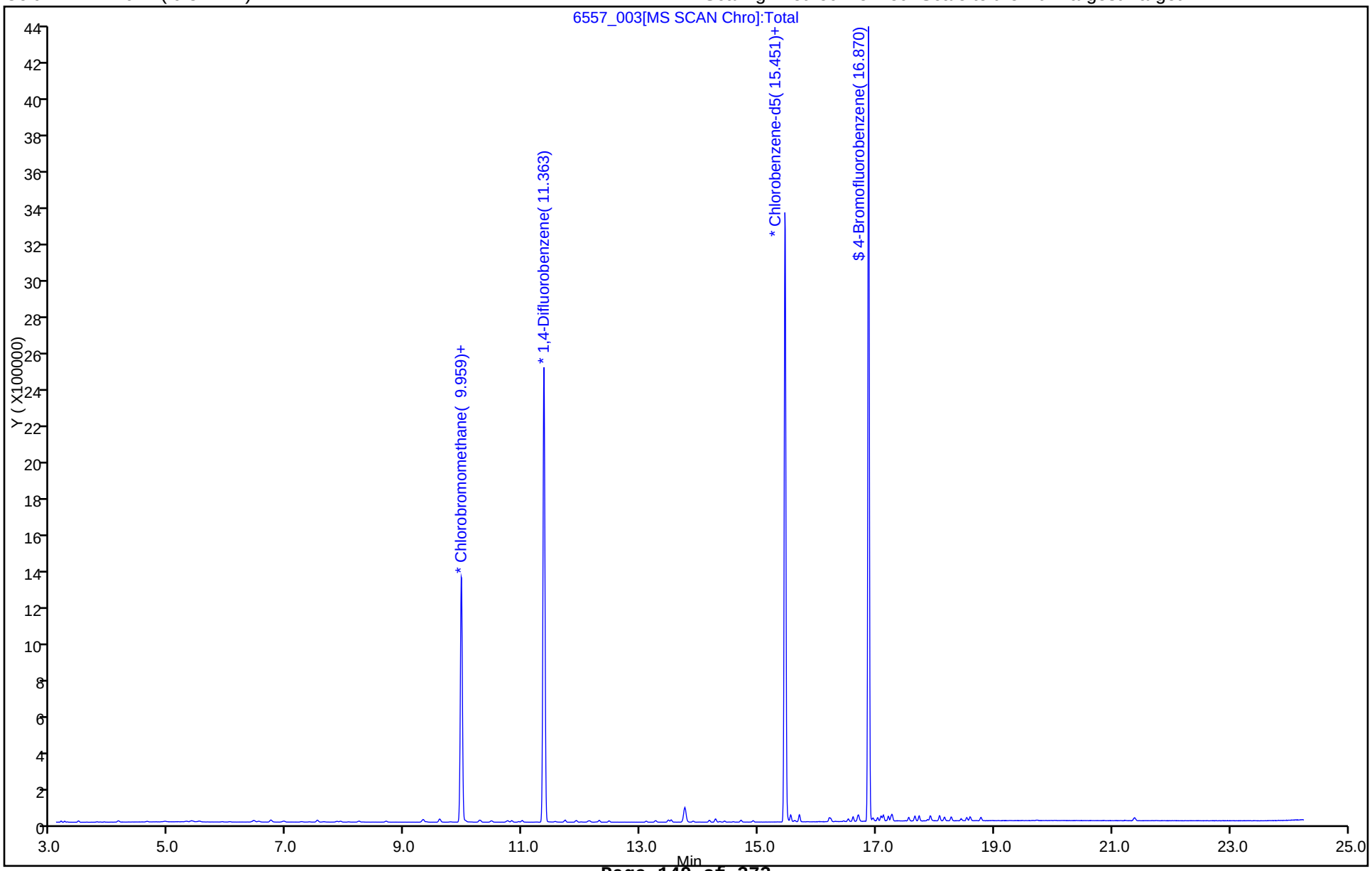
Report Date: 17-Mar-2014 10:55:05 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_003.D

Injection Date:	14-Mar-2014 12:11:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	IC			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

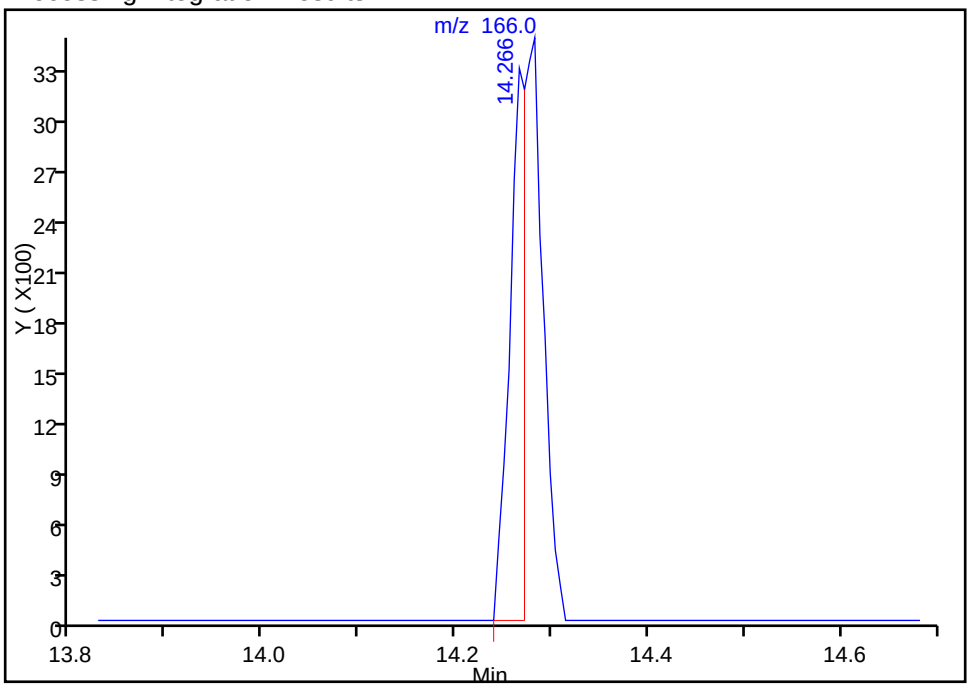
TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_003.D
Injection Date: 14-Mar-2014 12:11:30 Instrument ID: CHB.i
Lims ID: IC
Client ID:
Operator ID: pad ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

72 Tetrachloroethene, CAS: 127-18-4

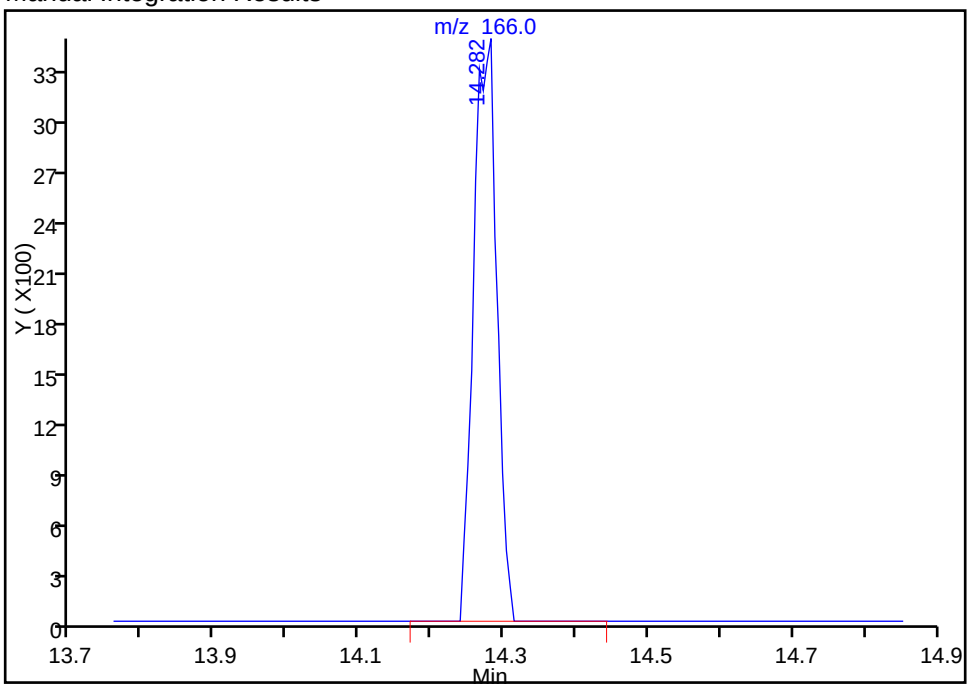
Processing Integration Results

RT: 14.27
Response: 3865
Amount: 0.025379



Manual Integration Results

RT: 14.28
Response: 7833
Amount: 0.047569



Reviewer: daiglep, 17-Mar-2014 10:07:25
Audit Action: Manually Integrated
Audit Reason: Baseline Event

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_004.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 14-Mar-2014 13:03:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006557-004
Misc. Info.: level 2
Operator ID: pad Instrument ID: CHB.i
Sublist: chrom-TO15_LLNJ_TO3*sub5

Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 17-Mar-2014 10:55:06 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.165	3.170	-0.005	87	4452	0.4042	
5 Dichlorodifluoromethane	85	3.229	3.235	-0.006	95	25424	0.2755	
6 Chlorodifluoromethane	51	3.272	3.272	0.0	66	8901	0.2596	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.459	3.464	-0.005	81	22832	0.2575	
8 Chloromethane	50	3.603	3.603	0.0	70	4732	0.2768	
9 Butane	43	3.784	3.784	0.0	83	8276	0.2907	
10 Vinyl chloride	62	3.832	3.832	0.0	52	6759	0.2317	
11 Butadiene	54	3.896	3.902	-0.006	80	4495	0.2298	
12 Bromomethane	94	4.628	4.627	0.001	90	14266	0.2520	
13 BFB								
14 Chloroethane	64	4.868	4.873	-0.005	68	5956	0.2683	
15 2-Methylbutane	43	4.926	4.937	-0.011	82	9658	0.2955	
16 Vinyl bromide	106	5.289	5.295	-0.006	94	15813	0.2433	
17 Trichlorofluoromethane	101	5.385	5.385	0.0	94	39736	0.2465	
18 Pentane	43	5.513	5.524	-0.011	91	17399	0.3045	
19 Ethanol	45	5.887	5.887	0.0	93	11619	0.8131	
21 Ethyl ether	59	6.026	6.020	0.006	77	7929	0.2345	
22 Acrolein	56	6.431	6.437	-0.006	17	6450	0.4629	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.431	6.442	-0.011	91	35311	0.2509	
24 1,1-Dichloroethene	96	6.517	6.522	-0.005	79	16258	0.2352	
25 Acetone	43	6.720	6.714	0.006	90	86377	1.69	
26 Isopropyl alcohol	45	6.912	6.917	-0.005	86	16758	0.3663	
27 Carbon disulfide	76	6.949	6.954	-0.005	96	47217	0.3047	
29 3-Chloro-1-propene	41	7.248	7.253	-0.005	76	12058	0.2638	
30 Acetonitrile	41	7.376	7.371	0.005	93	8875	0.3929	
31 Methylene Chloride	49	7.515	7.520	-0.005	72	15966	0.3774	
32 2-Methyl-2-propanol	59	7.616	7.621	-0.005	92	21332	0.2471	
33 Methyl tert-butyl ether	73	7.846	7.846	0.0	93	39086	0.2303	
34 trans-1,2-Dichloroethene	61	7.910	7.915	-0.005	73	17043	0.2464	
35 Acrylonitrile	53	8.043	8.043	0.0	80	7588	0.2484	
36 Hexane	57	8.225	8.230	-0.005	79	18271	0.2548	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 44 Chlorobromomethane	128	9.959	8.558	1.401	68	632086	10.0
37 1,1-Dichloroethane	63	8.678	8.684	-0.006	79	23185	0.2423
38 Vinyl acetate	43	8.684	8.689	-0.005	98	22330	0.2595
41 Ethyl acetate	88		9.591				
39 cis-1,2-Dichloroethene	96	9.586	9.591	-0.005	87	19206	0.2506
40 2-Butanone (MEK)	72	9.591	9.596	-0.005	98	30365	0.9642
43 Tetrahydrofuran	42	9.964	9.959	0.005	30	11597	0.3423
S 42 1,2-Dichloroethene, Total	61				0		0.4970
45 Chloroform	83	10.029	10.034	-0.006	87	32622	0.2457
46 Cyclohexane	84	10.274	10.274	0.0	65	22263	0.2436
47 1,1,1-Trichloroethane	97	10.274	10.285	-0.011	87	34702	0.2440
48 Carbon tetrachloride	117	10.471	10.477	-0.006	95	36346	0.2278
49 Isooctane	57	10.744	10.749	-0.005	96	57197	0.2467
50 Benzene	78	10.818	10.824	-0.006	91	51207	0.2525
51 1,2-Dichloroethane	62	10.930	10.941	-0.011	85	16799	0.2436
52 n-Heptane	43	10.994	11.000	-0.006	74	18279	0.2741
A 53 GRO	1	11.032	4.927 - 17.137		0	7228199	0
* 54 1,4-Difluorobenzene	114	11.363	11.368	-0.005	91	3107031	10.0
56 n-Butanol	56	11.544	11.544	0.0	77	12811	0.5167
57 Trichloroethene	95	11.720	11.726	-0.006	87	24102	0.2383
58 1,2-Dichloropropane	63	12.115	12.120	-0.005	87	15200	0.2577
59 Methyl methacrylate	69	12.142	12.147	-0.005	85	14685	0.2404
60 1,4-Dioxane	88	12.238	12.238	0.0	67	9726	0.2917
61 Dibromomethane	174	12.302	12.307	-0.005	90	25631	0.2426
62 Dichlorobromomethane	83	12.467	12.473	-0.006	94	34739	0.2393
A 63 TVOC as Toluene	1	12.705	3.160 - 22.249		0	11725467	61.0
64 cis-1,3-Dichloropropene	75	13.097	13.102	-0.005	70	24251	0.2292
65 4-Methyl-2-pentanone (MIBK)	43	13.252	13.257	-0.005	87	34962	0.4272
67 n-Octane	43	13.476	13.476	0.0	76	24552	0.2714
68 Toluene	92	13.519	13.524	-0.005	89	40930	0.2465
70 trans-1,3-Dichloropropene	75	13.892	13.898	-0.006	86	24509	0.2249
71 1,1,2-Trichloroethane	83	14.170	14.175	-0.005	91	18328	0.2494
72 Tetrachloroethene	166	14.277	14.277	0.0	95	39642	0.2420
73 2-Hexanone	43	14.426	14.426	0.0	83	23571	0.2943
74 Chlorodibromomethane	129	14.704	14.709	-0.005	94	40982	0.2287
75 Ethylene Dibromide	107	14.912	14.917	-0.005	96	36645	0.2346
* 76 Chlorobenzene-d5	117	15.451	15.456	-0.005	80	2681551	10.0
77 Chlorobenzene	112	15.488	15.493	-0.005	87	59607	0.2417
78 n-Nonane	57	15.547	15.547	0.0	80	30365	0.2846
79 Ethylbenzene	91	15.552	15.557	-0.005	95	89374	0.2679
80 m-Xylene & p-Xylene	106	15.696	15.702	-0.006	98	75656	0.5154
S 81 Xylenes, Total	106				0		0.7590
82 o-Xylene	106	16.203	16.209	-0.006	92	37045	0.2436
83 Styrene	104	16.230	16.235	-0.005	96	53527	0.2305
84 Bromoform	173	16.524	16.529	-0.005	98	40971	0.2329
85 Isopropylbenzene	105	16.604	16.609	-0.005	91	104358	0.2418
$ 86 4-Bromofluorobenzene	95	16.870	16.870	0.0	99	1676356	NC
87 1,1,2,2-Tetrachloroethane	83	17.020	17.025	-0.005	92	48641	0.2537
88 N-Propylbenzene	91	17.079	17.084	-0.005	96	120949	0.2534
89 1,2,3-Trichloropropane	75	17.111	17.116	-0.005	91	37223	0.2964
90 n-Decane	57	17.127	17.127	0.001	79	40816	0.3159
91 4-Ethyltoluene	105	17.207	17.207	0.0	96	107800	0.2485

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v	Flags
92	2-Chlorotoluene	91	17.249	17.255	-0.006	88	85154	0.2590	
93	1,3,5-Trimethylbenzene	105	17.271	17.276	-0.005	94	98925	0.2743	
94	Alpha Methyl Styrene	118	17.554	17.553	0.001	90	41079	0.2147	
95	tert-Butylbenzene	119	17.655	17.660	-0.005	93	88687	0.2427	
96	1,2,4-Trimethylbenzene	105	17.730	17.730	0.0	94	98972	0.2655	
97	sec-Butylbenzene	105	17.916	17.922	-0.006	95	133548	0.2503	
98	4-Isopropyltoluene	119	18.071	18.076	-0.005	82	113149	0.2467	
99	1,3-Dichlorobenzene	146	18.157	18.162	-0.005	98	64644	0.2343	
100	1,4-Dichlorobenzene	146	18.269	18.274	-0.005	96	64551	0.2350	
101	Benzyl chloride	91	18.439	18.445	-0.006	97	59765	0.1990	
102	Undecane	57	18.530	18.535	-0.005	88	43249	0.3100	
103	n-Butylbenzene	91	18.594	18.594	0.0	93	89107	0.2390	
104	1,2-Dichlorobenzene	146	18.776	18.781	-0.005	98	61816	0.2347	
106	Dodecane	57	20.041	20.046	-0.005	83	15158	0.1255	
107	1,2,4-Trichlorobenzene	180	21.225	21.225	0.0	80	23801	0.1296	
108	Hexachlorobutadiene	225	21.380	21.385	-0.005	88	38842	0.2634	
109	Naphthalene	128	21.748	21.748	0.0	94	48063	0.1105	
110	1,2,3-Trichlorobenzene	180	22.239	22.239	0.0	77	18691	0.1185	

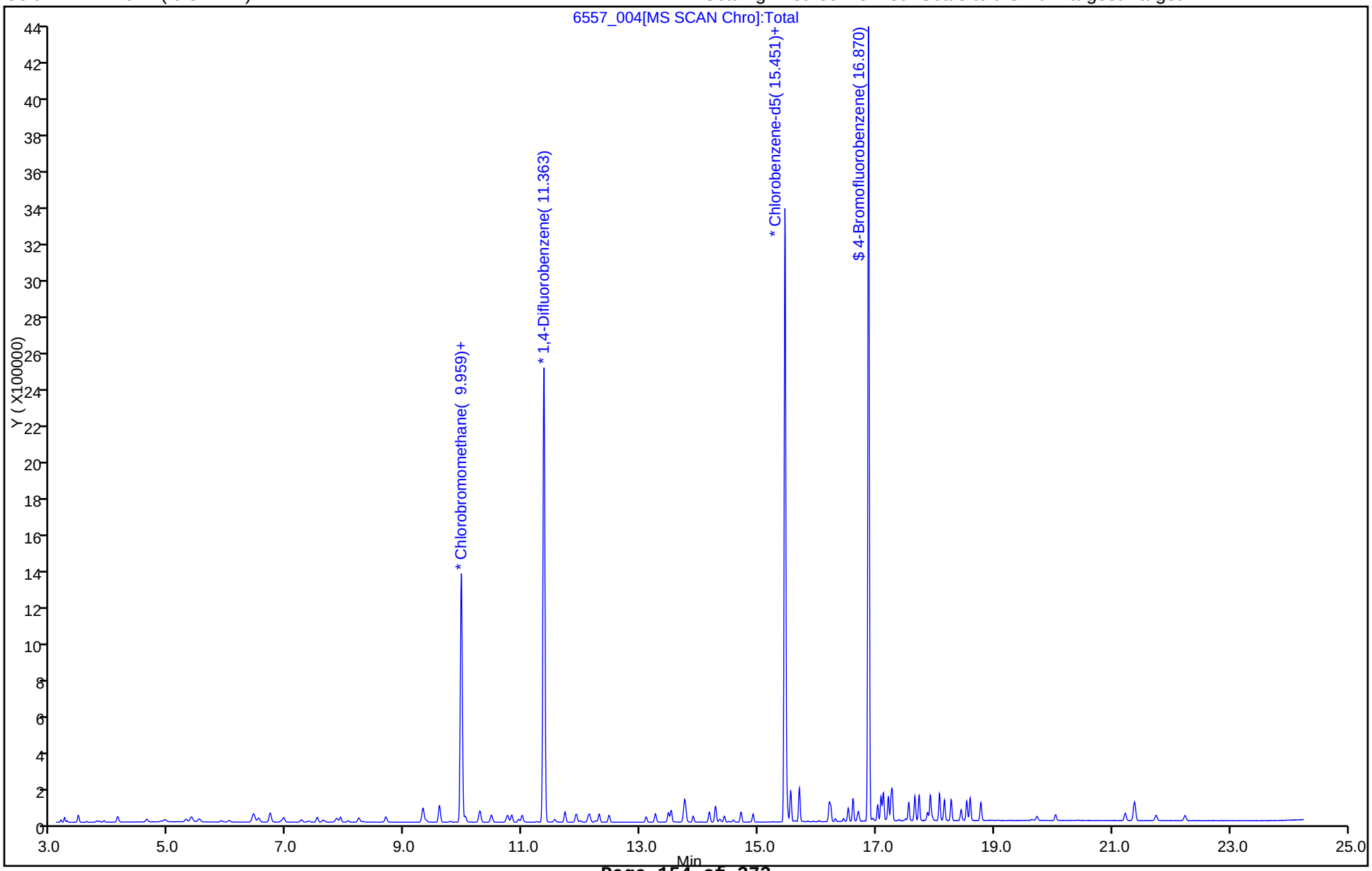
Report Date: 17-Mar-2014 10:55:07 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_004.D

Injection Date:	14-Mar-2014 13:03:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_005.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Mar-2014 13:55:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006557-005
Misc. Info.: level 3
Operator ID: pad Instrument ID: CHB.i
Sublist: chrom-TO15_LLNJ_TO3*sub5

Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 17-Mar-2014 10:55:08 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.176	3.170	0.006	92	8571	0.7889	
5 Dichlorodifluoromethane	85	3.234	3.235	-0.001	98	58127	0.6386	
6 Chlorodifluoromethane	51	3.277	3.272	0.005	84	20609	0.6095	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.464	3.464	0.0	85	52621	0.6017	
8 Chloromethane	50	3.608	3.603	0.005	92	10528	0.6244	
9 Butane	43	3.790	3.784	0.006	93	18121	0.6454	
10 Vinyl chloride	62	3.832	3.832	0.0	79	16249	0.5647	
11 Butadiene	54	3.907	3.902	0.005	84	10668	0.5529	
12 Bromomethane	94	4.633	4.627	0.006	93	33647	0.6025	
13 BFB								
14 Chloroethane	64	4.878	4.873	0.005	87	13933	0.6364	
15 2-Methylbutane	43	4.942	4.937	0.005	86	20288	0.6295	
16 Vinyl bromide	106	5.300	5.295	0.005	95	38039	0.5935	
17 Trichlorofluoromethane	101	5.391	5.385	0.006	94	95353	0.5997	
18 Pentane	43	5.519	5.524	-0.005	96	37924	0.6730	
19 Ethanol	45	5.887	5.887	0.0	99	79522	5.64	
21 Ethyl ether	59	6.026	6.020	0.006	88	19022	0.5704	
22 Acrolein	56	6.437	6.437	0.0	29	11858	0.8628	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.442	6.442	0.0	95	78917	0.5685	
24 1,1-Dichloroethene	96	6.522	6.522	0.0	87	37925	0.5563	
25 Acetone	43	6.719	6.714	0.005	90	111952	2.22	
26 Isopropyl alcohol	45	6.912	6.917	-0.005	95	30782	0.6822	
27 Carbon disulfide	76	6.954	6.954	0.0	96	91269	0.5971	
29 3-Chloro-1-propene	41	7.253	7.253	0.0	84	26500	0.5878	
30 Acetonitrile	41	7.376	7.371	0.005	99	18378	0.8250	
31 Methylene Chloride	49	7.520	7.520	0.0	75	30143	0.7224	
32 2-Methyl-2-propanol	59	7.627	7.621	0.006	94	49491	0.5812	
33 Methyl tert-butyl ether	73	7.851	7.846	0.005	93	91627	0.5473	
34 trans-1,2-Dichloroethene	61	7.915	7.915	0.0	78	39584	0.5803	
35 Acrylonitrile	53	8.048	8.043	0.005	94	17800	0.5907	
36 Hexane	57	8.230	8.230	0.0	83	41169	0.5821	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 44 Chlorobromomethane	128	9.964	8.558	1.406	68	623430	10.0
37 1,1-Dichloroethane	63	8.678	8.684	-0.006	94	53584	0.5679
38 Vinyl acetate	43	8.689	8.689	0.0	98	53083	0.6254
41 Ethyl acetate	88		9.591				
39 cis-1,2-Dichloroethene	96	9.585	9.591	-0.006	90	43454	0.5748
40 2-Butanone (MEK)	72	9.596	9.596	0.0	100	26204	0.8436
43 Tetrahydrofuran	42	9.970	9.959	0.011	32	22320	0.6654
S 42 1,2-Dichloroethene, Total	61				0		1.16
45 Chloroform	83	10.034	10.034	0.0	89	74646	0.5700
46 Cyclohexane	84	10.274	10.274	0.0	78	52451	0.5796
47 1,1,1-Trichloroethane	97	10.285	10.285	0.0	93	79404	0.5639
48 Carbon tetrachloride	117	10.477	10.477	0.0	97	84690	0.5361
49 Isooctane	57	10.749	10.749	0.0	98	134899	0.5877
50 Benzene	78	10.818	10.824	-0.006	91	117698	0.5861
51 1,2-Dichloroethane	62	10.936	10.941	-0.005	87	39188	0.5741
52 n-Heptane	43	10.994	11.000	-0.006	78	41308	0.6256
A 53 GRO	1	11.032	4.927 - 17.137		0	16491845	0
* 54 1,4-Difluorobenzene	114	11.363	11.368	-0.005	91	3076020	10.0
56 n-Butanol	56	11.549	11.544	0.005	80	16303	0.6642
57 Trichloroethene	95	11.720	11.726	-0.006	92	54752	0.5468
58 1,2-Dichloropropane	63	12.115	12.120	-0.005	87	35366	0.6056
59 Methyl methacrylate	69	12.136	12.147	-0.011	85	33960	0.5615
60 1,4-Dioxane	88	12.238	12.238	0.0	81	20810	0.6305
61 Dibromomethane	174	12.302	12.307	-0.005	91	59019	0.5643
62 Dichlorobromomethane	83	12.467	12.473	-0.006	96	79649	0.5541
A 63 TVOC as Toluene	1	12.705	3.160 - 22.249		0	26958727	141.6
64 cis-1,3-Dichloropropene	75	13.097	13.102	-0.005	84	57084	0.5450
65 4-Methyl-2-pentanone (MIBK)	43	13.252	13.257	-0.005	88	47898	0.5912
67 n-Octane	43	13.476	13.476	0.0	78	56176	0.6273
68 Toluene	92	13.524	13.524	0.0	90	95787	0.5813
70 trans-1,3-Dichloropropene	75	13.898	13.898	0.0	90	57421	0.5323
71 1,1,2-Trichloroethane	83	14.170	14.175	-0.005	92	41944	0.5750
72 Tetrachloroethene	166	14.277	14.277	0.0	96	91737	0.5643
73 2-Hexanone	43	14.426	14.426	0.0	87	49225	0.6191
74 Chlorodibromomethane	129	14.709	14.709	0.0	96	97899	0.5505
75 Ethylene Dibromide	107	14.912	14.917	-0.005	98	86600	0.5586
* 76 Chlorobenzene-d5	117	15.456	15.456	0.0	79	2661622	10.0
77 Chlorobenzene	112	15.493	15.493	0.0	60	141044	0.5763
78 n-Nonane	57	15.547	15.547	0.0	79	70239	0.6631
79 Ethylbenzene	91	15.552	15.557	-0.005	96	205924	0.6218
80 m-Xylene & p-Xylene	106	15.696	15.702	-0.006	98	179129	1.23
S 81 Xylenes, Total	106				0		1.82
82 o-Xylene	106	16.203	16.209	-0.006	94	88465	0.5861
83 Styrene	104	16.230	16.235	-0.005	98	129371	0.5613
84 Bromoform	173	16.529	16.529	0.0	99	97515	0.5585
85 Isopropylbenzene	105	16.609	16.609	0.0	93	250560	0.5848
$ 86 4-Bromofluorobenzene	95	16.870	16.870	0.0	98	1709570	NC
87 1,1,2,2-Tetrachloroethane	83	17.025	17.025	0.0	96	113755	0.5979
88 N-Propylbenzene	91	17.078	17.084	-0.006	95	285137	0.6018
89 1,2,3-Trichloropropane	75	17.110	17.116	-0.006	90	84639	0.6789
90 n-Decane	57	17.126	17.127	0.0	79	90811	0.7081
91 4-Ethyltoluene	105	17.207	17.207	0.0	97	251275	0.5837

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v	Flags
92	2-Chlorotoluene	91	17.255	17.255	0.0	94	195591	0.5995	
93	1,3,5-Trimethylbenzene	105	17.271	17.276	-0.005	93	210455	0.5879	
94	Alpha Methyl Styrene	118	17.553	17.553	0.0	90	101344	0.5336	
95	tert-Butylbenzene	119	17.655	17.660	-0.005	91	214734	0.5921	
96	1,2,4-Trimethylbenzene	105	17.730	17.730	0.0	95	211879	0.5726	
97	sec-Butylbenzene	105	17.916	17.922	-0.006	98	325491	0.6147	
98	4-Isopropyltoluene	119	18.076	18.076	0.0	85	269051	0.5911	
99	1,3-Dichlorobenzene	146	18.156	18.162	-0.006	98	162406	0.5931	
100	1,4-Dichlorobenzene	146	18.274	18.274	0.0	97	157663	0.5782	
101	Benzyl chloride	91	18.439	18.445	-0.006	100	156864	0.5264	
102	Undecane	57	18.535	18.535	0.0	88	100102	0.7229	
103	n-Butylbenzene	91	18.594	18.594	0.0	94	222001	0.5999	
104	1,2-Dichlorobenzene	146	18.776	18.781	-0.005	99	152286	0.5825	
106	Dodecane	57	20.040	20.046	-0.006	89	58070	0.4843	
107	1,2,4-Trichlorobenzene	180	21.225	21.225	0.0	91	83237	0.4565	
108	Hexachlorobutadiene	225	21.380	21.385	-0.005	93	94901	0.6483	
109	Naphthalene	128	21.748	21.748	0.0	99	174415	0.4040	
110	1,2,3-Trichlorobenzene	180	22.239	22.239	0.0	95	71612	0.4575	

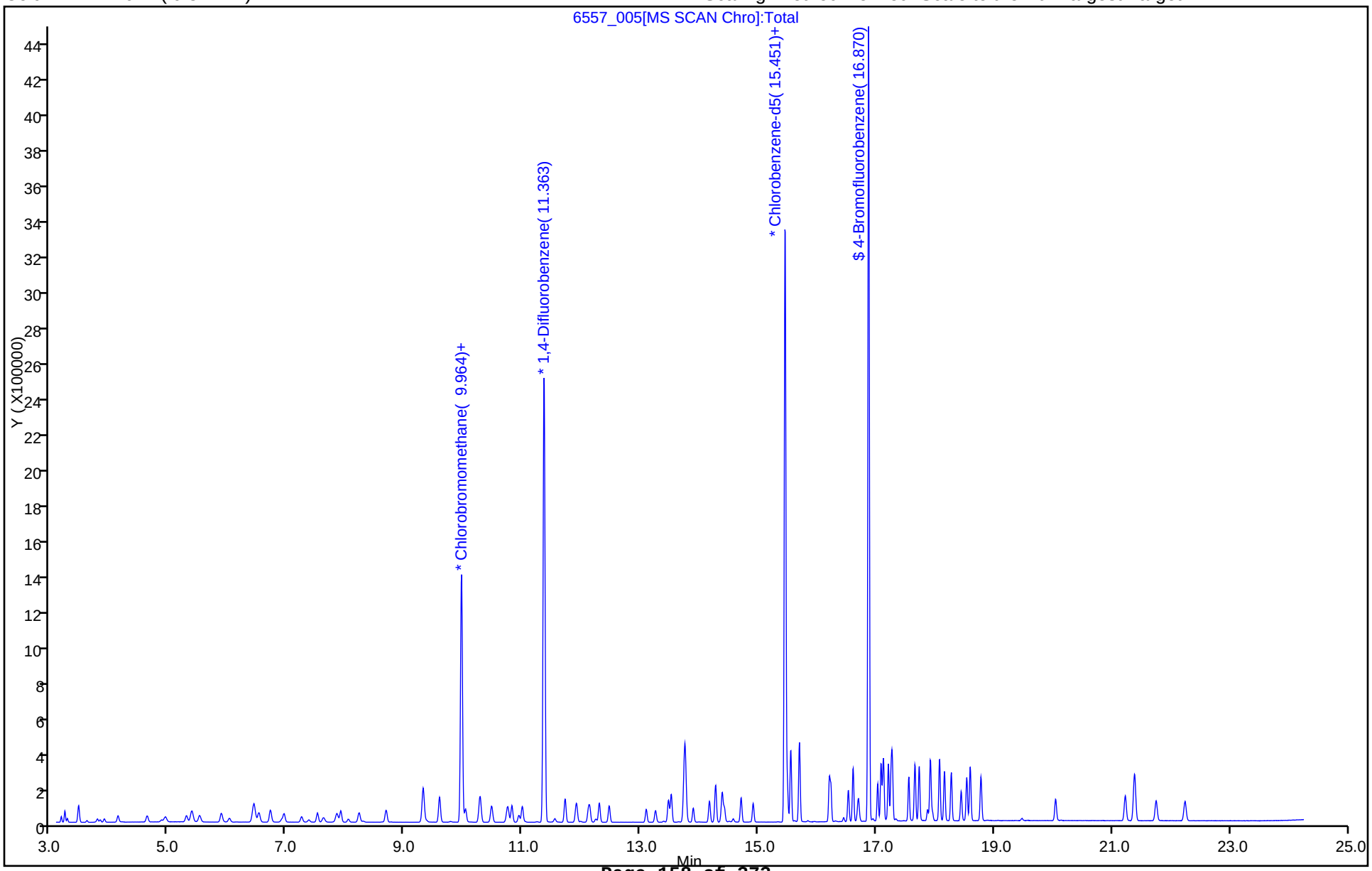
Report Date: 17-Mar-2014 10:55:09 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_005.D

Injection Date:	14-Mar-2014 13:55:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_006.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 14-Mar-2014 14:47:30 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006557-006
Misc. Info.: level 4
Operator ID: pad Instrument ID: CHB.i
Sublist: chrom-TO15_LLNJ_TO3*sub5

Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 17-Mar-2014 10:55:10 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.170	3.170	0.0	97	57846	5.17	
5 Dichlorodifluoromethane	85	3.234	3.235	-0.001	95	481596	5.14	
6 Chlorodifluoromethane	51	3.277	3.272	0.005	93	170467	4.90	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.464	3.464	0.0	88	435762	4.84	
8 Chloromethane	50	3.608	3.603	0.005	99	83492	4.81	
9 Butane	43	3.784	3.784	0.0	95	138783	4.80	
10 Vinyl chloride	62	3.832	3.832	0.0	87	139181	4.70	
11 Butadiene	54	3.901	3.902	-0.001	90	96202	4.84	
12 Bromomethane	94	4.627	4.627	0.0	99	279835	4.87	
13 BFB								
14 Chloroethane	64	4.873	4.873	0.0	97	114968	5.10	
15 2-Methylbutane	43	4.937	4.937	0.0	87	155767	4.69	
16 Vinyl bromide	106	5.294	5.295	-0.001	97	323401	4.90	
17 Trichlorofluoromethane	101	5.390	5.385	0.005	97	798212	4.88	
18 Pentane	43	5.524	5.524	0.0	95	295295	5.09	
19 Ethanol	45	5.887	5.887	0.0	99	128955	8.89	
21 Ethyl ether	59	6.020	6.020	0.0	89	166445	4.85	
22 Acrolein	56	6.437	6.437	0.0	96	80218	5.67	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.442	6.442	0.0	96	672307	4.70	
24 1,1-Dichloroethene	96	6.527	6.522	0.005	87	327709	4.67	
25 Acetone	43	6.719	6.714	0.005	91	262630	5.05	
26 Isopropyl alcohol	45	6.917	6.917	0.0	98	249273	5.37	
27 Carbon disulfide	76	6.954	6.954	0.0	97	767517	4.88	
29 3-Chloro-1-propene	41	7.253	7.253	0.0	85	227884	4.91	
30 Acetonitrile	41	7.370	7.371	-0.001	100	122363	5.33	
31 Methylene Chloride	49	7.520	7.520	0.0	76	214839	5.00	
32 2-Methyl-2-propanol	59	7.621	7.621	0.0	98	441312	5.03	
33 Methyl tert-butyl ether	73	7.851	7.846	0.005	95	812400	4.71	
34 trans-1,2-Dichloroethene	61	7.915	7.915	0.0	82	339144	4.83	
35 Acrylonitrile	53	8.043	8.043	0.0	96	155452	5.01	
36 Hexane	57	8.230	8.230	0.0	85	351686	4.83	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 44 Chlorobromomethane	128	9.964	8.558	1.406	68	641912	10.0
37 1,1-Dichloroethane	63	8.683	8.684	-0.001	99	452748	4.66
38 Vinyl acetate	43	8.689	8.689	0.0	98	475027	5.44
41 Ethyl acetate	88	9.591	9.591	0.0	89	29154	5.14
39 cis-1,2-Dichloroethene	96	9.591	9.591	0.0	96	376774	4.84
40 2-Butanone (MEK)	72	9.596	9.596	0.0	99	146884	4.59
43 Tetrahydrofuran	42	9.959	9.959	0.0	82	184951	5.40
S 42 1,2-Dichloroethene, Total	61				0		9.67
45 Chloroform	83	10.034	10.034	0.0	92	638145	4.73
46 Cyclohexane	84	10.274	10.274	0.0	78	453345	4.91
47 1,1,1-Trichloroethane	97	10.284	10.285	-0.001	94	694187	4.83
48 Carbon tetrachloride	117	10.477	10.477	0.0	97	741752	4.60
49 Isooctane	57	10.749	10.749	0.0	98	1170360	4.99
50 Benzene	78	10.823	10.824	-0.001	92	976766	4.76
51 1,2-Dichloroethane	62	10.941	10.941	0.0	98	332018	4.76
52 n-Heptane	43	10.994	11.000	-0.006	78	332828	4.94
A 53 GRO	1	11.032	4.927 -	17.137	0	118434293	0
* 54 1,4-Difluorobenzene	114	11.368	11.368	0.0	91	3141317	10.0
56 n-Butanol	56	11.544	11.544	0.0	79	123822	4.94
57 Trichloroethene	95	11.725	11.726	-0.001	92	474548	4.64
58 1,2-Dichloropropane	63	12.120	12.120	0.0	92	291733	4.89
59 Methyl methacrylate	69	12.142	12.147	-0.005	83	315002	5.10
60 1,4-Dioxane	88	12.238	12.238	0.0	83	169229	5.02
61 Dibromomethane	174	12.302	12.307	-0.005	91	524669	4.91
62 Dichlorobromomethane	83	12.473	12.473	0.0	97	712958	4.86
A 63 TVOC as Toluene	1	12.705	3.160 -	22.249	0	209444866	1077.0
64 cis-1,3-Dichloropropene	75	13.102	13.102	0.0	85	516162	4.83
65 4-Methyl-2-pentanone (MIBK)	43	13.257	13.257	0.0	88	429924	5.20
A 66 C8 Range	1	13.457	13.426 -	13.506	0	2353773	NC
67 n-Octane	43	13.476	13.476	0.0	78	464584	5.08
68 Toluene	92	13.524	13.524	0.0	91	816354	4.76
A 69 Toluene Range	1	13.539	13.514 -	13.564	0	3073033	NC
70 trans-1,3-Dichloropropene	75	13.898	13.898	0.0	91	534250	4.85
71 1,1,2-Trichloroethane	83	14.175	14.175	0.0	92	361660	4.76
72 Tetrachloroethene	166	14.276	14.277	-0.001	96	807492	4.77
73 2-Hexanone	43	14.426	14.426	0.0	87	417306	5.04
74 Chlorodibromomethane	129	14.709	14.709	0.0	97	903205	4.88
75 Ethylene Dibromide	107	14.912	14.917	-0.005	99	775530	4.81
* 76 Chlorobenzene-d5	117	15.456	15.456	0.0	78	2769425	10.0
77 Chlorobenzene	112	15.493	15.493	0.0	95	1215122	4.77
78 n-Nonane	57	15.547	15.547	0.0	78	557391	5.06
79 Ethylbenzene	91	15.557	15.557	0.0	96	1750749	5.08
80 m-Xylene & p-Xylene	106	15.701	15.702	-0.001	98	1548469	10.2
S 81 Xylenes, Total	106				0		15.2
82 o-Xylene	106	16.208	16.209	-0.001	95	777411	4.95
83 Styrene	104	16.230	16.235	-0.005	97	1214818	5.07
84 Bromoform	173	16.529	16.529	0.0	99	954393	5.25
85 Isopropylbenzene	105	16.609	16.609	0.0	93	2203399	4.94
$ 86 4-Bromofluorobenzene	95	16.870	16.870	0.0	98	1789645	NC
87 1,1,2,2-Tetrachloroethane	83	17.025	17.025	0.0	95	978332	4.94
88 N-Propylbenzene	91	17.084	17.084	0.0	96	2491172	5.05
89 1,2,3-Trichloropropane	75	17.116	17.116	0.0	89	698070	5.38

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
90 n-Decane	57	17.126	17.127	0.0	77	744811	5.58
91 4-Ethyltoluene	105	17.206	17.207	-0.001	85	2237468	4.99
92 2-Chlorotoluene	91	17.254	17.255	-0.001	94	1694435	4.99
93 1,3,5-Trimethylbenzene	105	17.276	17.276	0.0	94	1857598	4.99
94 Alpha Methyl Styrene	118	17.553	17.553	0.0	90	1025925	5.19
95 tert-Butylbenzene	119	17.660	17.660	0.0	91	1886002	5.00
96 1,2,4-Trimethylbenzene	105	17.729	17.730	-0.001	95	1887274	4.90
97 sec-Butylbenzene	105	17.922	17.922	0.0	99	2766537	5.02
98 4-Isopropyltoluene	119	18.076	18.076	0.0	86	2391787	5.05
99 1,3-Dichlorobenzene	146	18.162	18.162	0.0	99	1423576	5.00
100 1,4-Dichlorobenzene	146	18.274	18.274	0.0	97	1423820	5.02
101 Benzyl chloride	91	18.445	18.445	0.0	99	1598301	5.15
102 Undecane	57	18.535	18.535	0.0	87	843164	5.85
103 n-Butylbenzene	91	18.594	18.594	0.0	90	1966195	5.11
104 1,2-Dichlorobenzene	146	18.781	18.781	0.0	99	1363193	5.01
106 Dodecane	57	20.046	20.046	0.0	88	587452	4.71
107 1,2,4-Trichlorobenzene	180	21.225	21.225	0.0	93	929365	4.90
108 Hexachlorobutadiene	225	21.385	21.385	0.0	93	769824	5.05
109 Naphthalene	128	21.748	21.748	0.0	99	2223399	4.95
110 1,2,3-Trichlorobenzene	180	22.239	22.239	0.0	95	780543	4.79

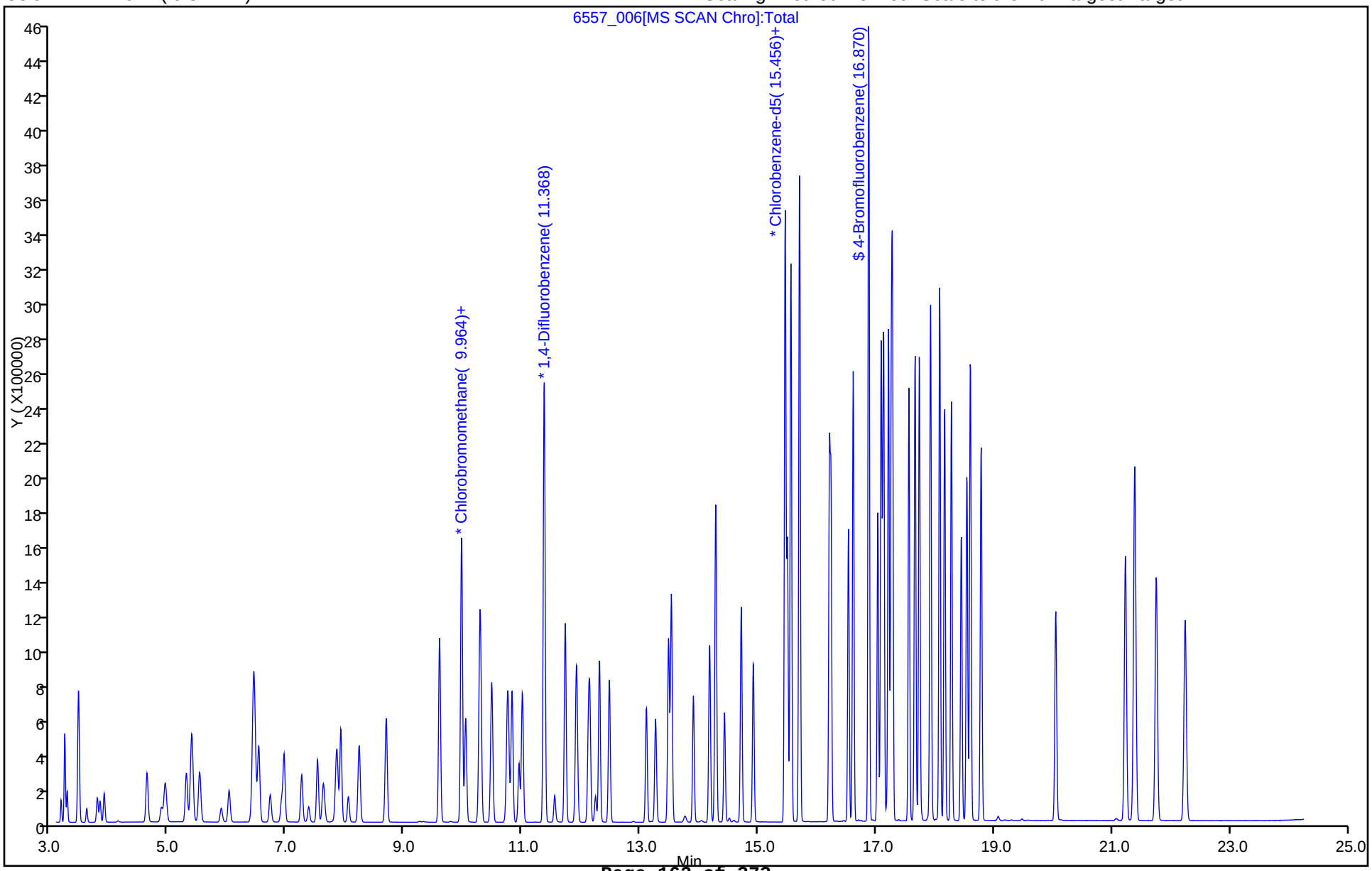
Report Date: 17-Mar-2014 10:55:10 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_006.D

Injection Date:	14-Mar-2014 14:47:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_007.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 14-Mar-2014 15:39:30 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006557-007
Misc. Info.: level 5
Operator ID: pad Instrument ID: CHB.i
Sublist: chrom-TO15_LLNJ_TO3*sub5

Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 17-Mar-2014 10:55:11 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: daiglep Date: 17-Mar-2014 08:54:47

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.170	3.170	0.0	97	111743	9.49	
5 Dichlorodifluoromethane	85	3.235	3.235	0.0	99	920185	9.33	
6 Chlorodifluoromethane	51	3.272	3.272	0.0	77	334727	9.14	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.464	3.464	0.0	81	837587	8.84	
8 Chloromethane	50	3.603	3.603	0.0	99	163438	8.95	
9 Butane	43	3.784	3.784	0.0	96	270060	8.88	
10 Vinyl chloride	62	3.832	3.832	0.0	96	273563	8.78	
11 Butadiene	54	3.902	3.902	0.0	89	191019	9.14	
12 Bromomethane	94	4.627	4.627	0.0	99	543316	8.98	
13 BFB								
14 Chloroethane	64	4.873	4.873	0.0	95	224337	9.46	
15 2-Methylbutane	43	4.937	4.937	0.0	86	298374	8.55	
16 Vinyl bromide	106	5.295	5.295	0.0	97	641650	9.24	
17 Trichlorofluoromethane	101	5.385	5.385	0.0	96	1564955	9.08	
18 Pentane	43	5.524	5.524	0.0	95	559900	9.17	
19 Ethanol	45	5.887	5.887	0.0	99	241834	15.8	
21 Ethyl ether	59	6.020	6.020	0.0	88	327105	9.06	
22 Acrolein	56	6.437	6.437	0.0	38	153606	10.3	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.442	6.442	0.0	96	1343543	8.93	
24 1,1-Dichloroethene	96	6.522	6.522	0.0	86	667016	9.03	
25 Acetone	43	6.714	6.714	0.0	91	497524	9.09	
26 Isopropyl alcohol	45	6.917	6.917	0.0	98	471335	9.64	
27 Carbon disulfide	76	6.954	6.954	0.0	97	1506201	9.10	
29 3-Chloro-1-propene	41	7.253	7.253	0.0	84	429698	8.80	
30 Acetonitrile	41	7.371	7.371	0.0	99	230402	9.55	
31 Methylene Chloride	49	7.520	7.520	0.0	70	401417	8.88	
32 2-Methyl-2-propanol	59	7.621	7.621	0.0	97	868611	9.42	
33 Methyl tert-butyl ether	73	7.846	7.846	0.0	94	1648054	9.09	
34 trans-1,2-Dichloroethene	61	7.915	7.915	0.0	81	658313	8.91	
35 Acrylonitrile	53	8.043	8.043	0.0	95	298927	9.16	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
36 Hexane	57	8.230	8.230	0.0	84	680918	8.89
* 44 Chlorobromomethane	128	9.964	9.964	0.0	67	675362	10.0
37 1,1-Dichloroethane	63	8.684	8.684	0.0	97	873545	8.55
38 Vinyl acetate	43	8.689	8.689	0.0	98	904975	9.84
41 Ethyl acetate	88	9.591	9.591	0.0	89	58667	9.82
39 cis-1,2-Dichloroethene	96	9.591	9.591	0.0	74	749642	9.15
40 2-Butanone (MEK)	72	9.596	9.596	0.0	99	287042	8.53
43 Tetrahydrofuran	42	9.959	9.959	0.0	69	357806	9.84
S 42 1,2-Dichloroethene, Total	61				0		18.1
45 Chloroform	83	10.034	10.034	0.0	90	1265393	8.92
46 Cyclohexane	84	10.274	10.274	0.0	72	902914	9.21
47 1,1,1-Trichloroethane	97	10.285	10.285	0.0	93	1387581	9.10
48 Carbon tetrachloride	117	10.477	10.477	0.0	97	1516732	8.86
49 Isooctane	57	10.749	10.749	0.0	98	2256830	9.07
50 Benzene	78	10.824	10.824	0.0	89	1932969	8.88
51 1,2-Dichloroethane	62	10.941	10.941	0.0	98	656142	8.87
52 n-Heptane	43	11.000	11.000	0.0	75	622895	8.71
A 53 GRO	1	11.032	4.927 -	17.137	0	232329310	0
* 54 1,4-Difluorobenzene	114	11.368	11.368	0.0	91	3332868	10.0
56 n-Butanol	56	11.544	11.544	0.0	79	248283	9.34
57 Trichloroethene	95	11.726	11.726	0.0	92	950435	8.76
58 1,2-Dichloropropane	63	12.120	12.120	0.0	86	566681	8.96
59 Methyl methacrylate	69	12.147	12.147	0.0	72	630238	9.62
60 1,4-Dioxane	88	12.238	12.238	0.0	79	342447	9.58
61 Dibromomethane	174	12.307	12.307	0.0	89	1066343	9.41
62 Dichlorobromomethane	83	12.473	12.473	0.0	97	1420398	9.12
A 63 TVOC as Toluene	1	12.705	3.160 -	22.249	0	414064909	2006.8
64 cis-1,3-Dichloropropene	75	13.102	13.102	0.0	84	1040993	9.17
65 4-Methyl-2-pentanone (MIBK)	43	13.257	13.257	0.0	87	834973	9.51
A 66 C8 Range	1	13.459	13.426 -	13.506	0	4492335	NC
67 n-Octane	43	13.476	13.476	0.0	74	860496	8.87
68 Toluene	92	13.524	13.524	0.0	91	1633881	9.03
A 69 Toluene Range	1	13.539	13.514 -	13.564	0	5691776	NC
70 trans-1,3-Dichloropropene	75	13.898	13.898	0.0	90	1080930	9.25
71 1,1,2-Trichloroethane	83	14.175	14.175	0.0	92	717177	8.96
72 Tetrachloroethene	166	14.277	14.277	0.0	95	1633959	9.16
73 2-Hexanone	43	14.426	14.426	0.0	86	808379	9.26
74 Chlorodibromomethane	129	14.709	14.709	0.0	97	1833432	9.39
75 Ethylene Dibromide	107	14.917	14.917	0.0	98	1577770	9.27
* 76 Chlorobenzene-d5	117	15.456	15.456	0.0	76	2921558	10.0
77 Chlorobenzene	112	15.493	15.493	0.0	84	2449145	9.12
78 n-Nonane	57	15.547	15.547	0.0	64	1025407	8.82
79 Ethylbenzene	91	15.557	15.557	0.0	68	3343755	9.20
80 m-Xylene & p-Xylene	106	15.702	15.702	0.0	98	3000428	18.8
S 81 Xylenes, Total	106				0		28.1
82 o-Xylene	106	16.209	16.209	0.0	95	1549988	9.35
83 Styrene	104	16.235	16.235	0.0	98	2428442	9.60
84 Bromoform	173	16.529	16.529	0.0	97	1916394	10.0
85 Isopropylbenzene	105	16.609	16.609	0.0	93	4396476	9.35
$ 86 4-Bromofluorobenzene	95	16.870	16.870	0.0	97	1869556	NC
87 1,1,2,2-Tetrachloroethane	83	17.025	17.025	0.0	93	1916061	9.17
88 N-Propylbenzene	91	17.084	17.084	0.0	98	4881105	9.39

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v	Flags
89	1,2,3-Trichloropropane	75	17.116	17.116	0.0	83	1317531	9.63	
90	n-Decane	57	17.127	17.127	0.0	77	1363532	9.69	
91	4-Ethyltoluene	105	17.207	17.207	0.0	67	4432110	9.38	
92	2-Chlorotoluene	91	17.255	17.255	0.0	94	3317018	9.26	
93	1,3,5-Trimethylbenzene	105	17.276	17.276	0.0	94	3642511	9.27	
94	Alpha Methyl Styrene	118	17.553	17.553	0.0	90	2093076	10.0	
95	tert-Butylbenzene	119	17.660	17.660	0.0	92	3724879	9.36	
96	1,2,4-Trimethylbenzene	105	17.730	17.730	0.0	75	3737027	9.20	
97	sec-Butylbenzene	105	17.922	17.922	0.0	99	5412056	9.31	
98	4-Isopropyltoluene	119	18.076	18.076	0.0	84	4735407	9.48	
99	1,3-Dichlorobenzene	146	18.162	18.162	0.0	98	2868077	9.54	
100	1,4-Dichlorobenzene	146	18.274	18.274	0.0	97	2872688	9.60	
101	Benzyl chloride	91	18.445	18.445	0.0	97	3284040	10.0	
102	Undecane	57	18.535	18.535	0.0	86	1497753	9.85	
103	n-Butylbenzene	91	18.594	18.594	0.0	89	3847571	9.47	
104	1,2-Dichlorobenzene	146	18.781	18.781	0.0	99	2735633	9.53	
106	Dodecane	57	20.046	20.046	0.0	87	1315124	10.0	
107	1,2,4-Trichlorobenzene	180	21.225	21.225	0.0	93	1935193	9.67	
108	Hexachlorobutadiene	225	21.385	21.385	0.0	91	1493683	9.30	
109	Naphthalene	128	21.748	21.748	0.0	99	4638967	9.79	
110	1,2,3-Trichlorobenzene	180	22.239	22.239	0.0	95	1800836	10.5	

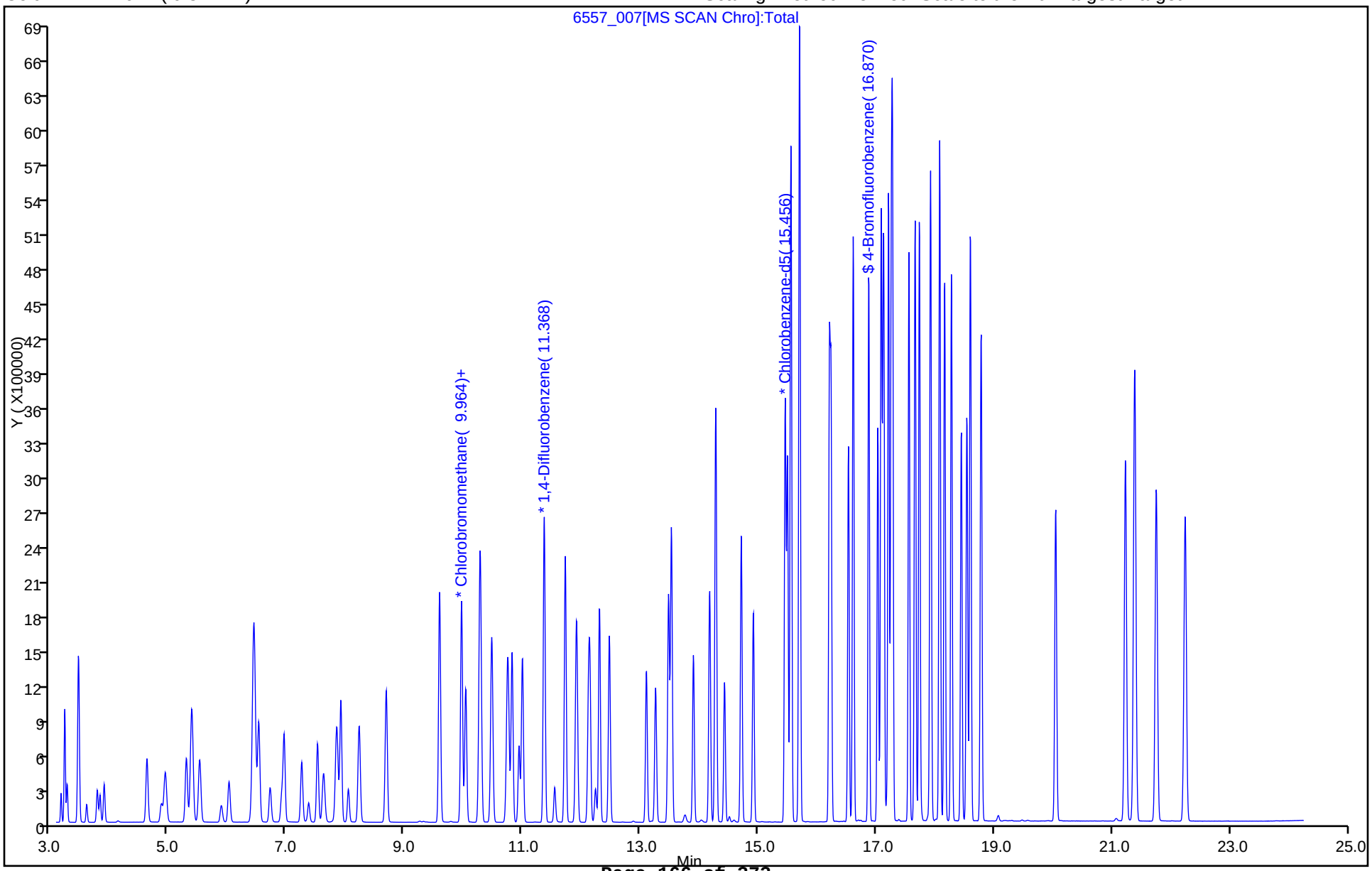
Report Date: 17-Mar-2014 10:55:12 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_007.D

Injection Date:	14-Mar-2014 15:39:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	ICIS			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_008.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 14-Mar-2014 16:31:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006557-008
Misc. Info.: level 6
Operator ID: pad Instrument ID: CHB.i
Sublist: chrom-TO15_LLNJ_TO3*sub5

Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 17-Mar-2014 10:55:14 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.160	3.170	-0.010	97	68669	5.59	
5 Dichlorodifluoromethane	85	3.229	3.235	-0.006	99	1465088	14.2	
6 Chlorodifluoromethane	51	3.266	3.272	-0.006	94	549505	14.4	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.459	3.464	-0.005	90	1352587	13.7	
8 Chloromethane	50	3.597	3.603	-0.006	99	270601	14.2	
9 Butane	43	3.779	3.784	-0.005	96	452265	14.2	
10 Vinyl chloride	62	3.827	3.832	-0.005	96	440686	13.5	
11 Butadiene	54	3.896	3.902	-0.006	90	304353	13.9	
12 Bromomethane	94	4.622	4.627	-0.005	99	796315	12.6	
13 BFB								
14 Chloroethane	64	4.867	4.873	-0.006	98	314310	12.7	
15 2-Methylbutane	43	4.937	4.937	0.0	86	420737	11.5	
16 Vinyl bromide	106	5.289	5.295	-0.006	98	908458	12.5	
17 Trichlorofluoromethane	101	5.380	5.385	-0.005	97	2309499	12.8	
18 Pentane	43	5.519	5.524	-0.005	94	865938	13.6	
19 Ethanol	45	5.887	5.887	0.0	99	299678	18.8	
21 Ethyl ether	59	6.015	6.020	-0.005	88	536655	14.2	
22 Acrolein	56	6.431	6.437	-0.006	95	226399	14.6	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.437	6.442	-0.005	96	2232253	14.2	
24 1,1-Dichloroethene	96	6.522	6.522	0.0	85	1115004	14.5	
25 Acetone	43	6.714	6.714	0.0	91	856670	15.0	
26 Isopropyl alcohol	45	6.917	6.917	0.0	98	819186	16.0	
27 Carbon disulfide	76	6.949	6.954	-0.005	97	2761642	16.0	
29 3-Chloro-1-propene	41	7.248	7.253	-0.005	82	687372	13.5	
30 Acetonitrile	41	7.370	7.371	-0.001	99	385574	15.3	
31 Methylene Chloride	49	7.520	7.520	0.0	73	644656	13.7	
32 2-Methyl-2-propanol	59	7.621	7.621	0.0	98	1504559	15.6	
33 Methyl tert-butyl ether	73	7.845	7.846	-0.001	94	2748228	14.5	
34 trans-1,2-Dichloroethene	61	7.915	7.915	0.0	81	1078469	14.0	
35 Acrylonitrile	53	8.043	8.043	0.0	96	495022	14.5	
36 Hexane	57	8.224	8.230	-0.006	83	1115992	13.9	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 44 Chlorobromomethane	128	9.964	9.964	0.0	66	705392	10.0
37 1,1-Dichloroethane	63	8.683	8.684	-0.001	99	1418035	13.3
38 Vinyl acetate	43	8.689	8.689	0.0	98	1464152	15.2
41 Ethyl acetate	88	9.591	9.591	0.0	93	96943	15.5
39 cis-1,2-Dichloroethene	96	9.591	9.591	0.0	93	1221577	14.3
40 2-Butanone (MEK)	72	9.596	9.596	0.0	99	467560	13.3
43 Tetrahydrofuran	42	9.959	9.959	0.0	78	580459	15.4
S 42 1,2-Dichloroethene, Total	61				0		28.3
45 Chloroform	83	10.034	10.034	0.0	98	2086637	14.1
46 Cyclohexane	84	10.274	10.274	0.0	75	1469351	14.4
47 1,1,1-Trichloroethane	97	10.284	10.285	-0.001	95	2299185	14.5
48 Carbon tetrachloride	117	10.477	10.477	0.0	97	2544730	14.3
49 Isooctane	57	10.749	10.749	0.0	98	3674073	14.2
50 Benzene	78	10.818	10.824	-0.006	91	3184914	14.1
51 1,2-Dichloroethane	62	10.941	10.941	0.0	98	1086275	14.1
52 n-Heptane	43	10.994	11.000	-0.006	76	1000301	13.5
A 53 GRO	1	11.032	4.927 -	17.137	0	354082227	0
* 54 1,4-Difluorobenzene	114	11.368	11.368	0.0	91	3463368	10.0
56 n-Butanol	56	11.544	11.544	0.0	79	467587	16.9
57 Trichloroethene	95	11.725	11.726	-0.001	91	1568848	13.9
58 1,2-Dichloropropane	63	12.120	12.120	0.0	92	913733	13.9
59 Methyl methacrylate	69	12.142	12.147	-0.005	80	1033432	15.2
60 1,4-Dioxane	88	12.238	12.238	0.0	82	608623	16.4
61 Dibromomethane	174	12.307	12.307	0.0	90	1745664	14.8
62 Dichlorobromomethane	83	12.473	12.473	0.0	97	2349823	14.5
A 63 TVOC as Toluene	1	12.705	3.160 -	22.249	0	663758643	3095.7
64 cis-1,3-Dichloropropene	75	13.102	13.102	0.0	84	1740534	14.8
65 4-Methyl-2-pentanone (MIBK)	43	13.257	13.257	0.0	86	1354524	14.8
A 66 C8 Range	1	13.459	13.426 -	13.506	0	7246285	NC
67 n-Octane	43	13.476	13.476	0.0	74	1357409	13.5
68 Toluene	92	13.524	13.524	0.0	91	2674219	14.5
A 69 Toluene Range	1	13.539	13.514 -	13.564	0	9320496	NC
70 trans-1,3-Dichloropropene	75	13.898	13.898	0.0	90	1798875	14.8
71 1,1,2-Trichloroethane	83	14.175	14.175	0.0	92	1176628	14.4
72 Tetrachloroethene	166	14.276	14.277	-0.001	96	2616855	14.4
73 2-Hexanone	43	14.426	14.426	0.0	85	1316006	14.8
74 Chlorodibromomethane	129	14.709	14.709	0.0	96	3017034	15.1
75 Ethylene Dibromide	107	14.917	14.917	0.0	98	2592310	14.9
* 76 Chlorobenzene-d5	117	15.456	15.456	0.0	78	2985737	10.0
77 Chlorobenzene	112	15.493	15.493	0.0	91	4023470	14.7
78 n-Nonane	57	15.547	15.547	0.0	78	1561478	13.1
79 Ethylbenzene	91	15.557	15.557	0.0	96	5191461	14.0
80 m-Xylene & p-Xylene	106	15.701	15.702	-0.001	98	4644341	28.4
S 81 Xylenes, Total	106				0		43.1
82 o-Xylene	106	16.208	16.209	-0.001	95	2492466	14.7
83 Styrene	104	16.235	16.235	0.0	98	3893795	15.1
84 Bromoform	173	16.529	16.529	0.0	97	2997727	15.3
85 Isopropylbenzene	105	16.609	16.609	0.0	93	7067549	14.7
$ 86 4-Bromofluorobenzene	95	16.870	16.870	0.0	98	1901545	NC
87 1,1,2,2-Tetrachloroethane	83	17.025	17.025	0.0	95	3050605	14.3
88 N-Propylbenzene	91	17.084	17.084	0.0	95	7684271	14.5
89 1,2,3-Trichloropropane	75	17.116	17.116	0.0	90	2038241	14.6

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
90 n-Decane	57	17.132	17.127	0.006	76	2062173	14.3
91 4-Ethyltoluene	105	17.206	17.207	-0.001	86	7107273	14.7
92 2-Chlorotoluene	91	17.254	17.255	-0.001	93	5246023	14.3
93 1,3,5-Trimethylbenzene	105	17.276	17.276	0.0	94	5725056	14.3
94 Alpha Methyl Styrene	118	17.553	17.553	0.0	90	3326924	15.6
95 tert-Butylbenzene	119	17.660	17.660	0.0	91	5995016	14.7
96 1,2,4-Trimethylbenzene	105	17.729	17.730	-0.001	95	6036071	14.5
97 sec-Butylbenzene	105	17.922	17.922	0.0	98	8626253	14.5
98 4-Isopropyltoluene	119	18.076	18.076	0.0	88	7620158	14.9
99 1,3-Dichlorobenzene	146	18.162	18.162	0.0	98	4629709	15.1
100 1,4-Dichlorobenzene	146	18.279	18.274	0.005	96	4655273	15.2
101 Benzyl chloride	91	18.445	18.445	0.0	99	5065652	15.2
102 Undecane	57	18.535	18.535	0.0	85	2439571	15.7
103 n-Butylbenzene	91	18.599	18.594	0.005	96	6199465	14.9
104 1,2-Dichlorobenzene	146	18.781	18.781	0.0	99	4456201	15.2
106 Dodecane	57	20.046	20.046	0.0	86	2318147	17.2
107 1,2,4-Trichlorobenzene	180	21.230	21.225	0.005	93	3362637	16.4
108 Hexachlorobutadiene	225	21.385	21.385	0.0	89	2308722	14.1
109 Naphthalene	128	21.753	21.748	0.005	99	8120457	16.8
110 1,2,3-Trichlorobenzene	180	22.239	22.239	0.0	95	3203028	18.2

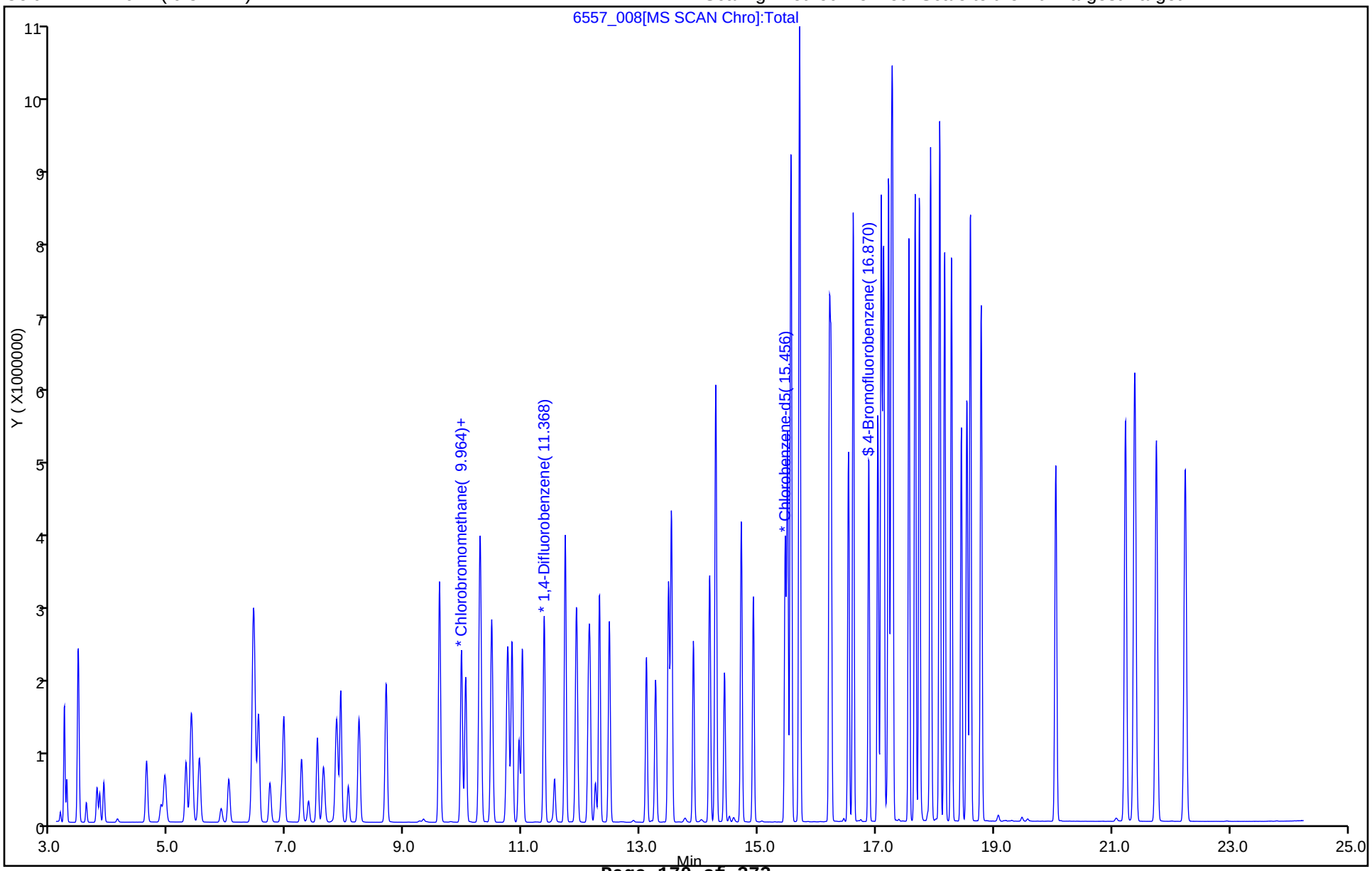
Report Date: 17-Mar-2014 10:55:14 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_008.D

Injection Date:	14-Mar-2014 16:31:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	IC			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_009.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 14-Mar-2014 17:24:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006557-009
Misc. Info.: level 7
Operator ID: pad Instrument ID: CHB.i
Sublist: chrom-TO15_LLNJ_TO3*sub5

Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 17-Mar-2014 10:55:15 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.171	3.170	0.001	97	255405	21.1	
5 Dichlorodifluoromethane	85	3.229	3.235	-0.006	99	1924684	19.0	
6 Chlorodifluoromethane	51	3.272	3.272	0.0	96	744372	19.8	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.464	3.464	0.0	82	1780420	18.3	
8 Chloromethane	50	3.603	3.603	0.0	99	370938	19.8	
9 Butane	43	3.784	3.784	0.0	95	609510	19.5	
10 Vinyl chloride	62	3.832	3.832	0.0	96	607381	19.0	
11 Butadiene	54	3.902	3.902	0.0	89	423287	19.7	
12 Bromomethane	94	4.627	4.627	0.0	99	1154441	18.6	
13 BFB								
14 Chloroethane	64	4.873	4.873	0.0	96	473613	19.4	
15 2-Methylbutane	43	4.937	4.937	0.0	86	625662	17.4	
16 Vinyl bromide	106	5.295	5.295	0.0	99	1348796	18.9	
17 Trichlorofluoromethane	101	5.385	5.385	0.0	96	3318292	18.7	
18 Pentane	43	5.519	5.524	-0.005	95	1182737	18.9	
19 Ethanol	45	5.892	5.887	0.005	99	563864	35.9	
21 Ethyl ether	59	6.020	6.020	0.0	87	713148	19.2	
22 Acrolein	56	6.431	6.437	-0.006	37	307411	20.1	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.442	6.442	0.0	95	2952854	19.1	
24 1,1-Dichloroethene	96	6.522	6.522	0.0	84	1490003	19.6	
25 Acetone	43	6.714	6.714	0.0	91	1313841	23.4	
26 Isopropyl alcohol	45	6.922	6.917	0.005	98	1026923	20.4	
27 Carbon disulfide	76	6.954	6.954	0.0	97	3281323	19.3	
29 3-Chloro-1-propene	41	7.253	7.253	0.0	82	911683	18.2	
30 Acetonitrile	41	7.371	7.371	0.0	99	509211	20.5	
31 Methylene Chloride	49	7.520	7.520	0.0	66	847304	18.2	
32 2-Methyl-2-propanol	59	7.632	7.621	0.011	96	2035444	21.5	
33 Methyl tert-butyl ether	73	7.846	7.846	0.0	93	3699655	19.9	
34 trans-1,2-Dichloroethene	61	7.915	7.915	0.0	79	1429875	18.8	
35 Acrylonitrile	53	8.048	8.043	0.005	96	667510	19.9	
36 Hexane	57	8.225	8.230	-0.005	83	1461195	18.6	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
37 1,1-Dichloroethane	63	8.684	8.684	0.0	99	1868454	17.8
38 Vinyl acetate	43	8.694	8.689	0.005	98	1906704	20.2
41 Ethyl acetate	88	9.596	9.591	0.005	89	127711	20.8
39 cis-1,2-Dichloroethene	96	9.591	9.591	0.0	77	1583080	18.8
40 2-Butanone (MEK)	72	9.596	9.596	0.0	99	617414	17.9
43 Tetrahydrofuran	42	9.959	9.959	0.0	77	759097	20.1
* 44 Chlorobromomethane	128	9.970	9.964	0.006	49	693879	10.0
S 42 1,2-Dichloroethene, Total	61				0		37.6
45 Chloroform	83	10.034	10.034	0.0	90	2786507	19.1
46 Cyclohexane	84	10.274	10.274	0.0	71	1923315	18.9
47 1,1,1-Trichloroethane	97	10.285	10.285	0.0	93	3032003	19.2
48 Carbon tetrachloride	117	10.477	10.477	0.0	97	3397109	19.1
49 Isooctane	57	10.749	10.749	0.0	98	4780267	18.5
50 Benzene	78	10.824	10.824	0.0	83	4236294	18.8
51 1,2-Dichloroethane	62	10.941	10.941	0.0	98	1464050	19.1
52 n-Heptane	43	11.000	11.000	0.0	75	1294563	17.5
A 53 GRO	1	11.032	4.927 -	17.137	0	463859596	0
* 54 1,4-Difluorobenzene	114	11.368	11.368	0.0	90	3455795	10.0
56 n-Butanol	56	11.549	11.544	0.005	79	565060	20.5
57 Trichloroethene	95	11.726	11.726	0.0	91	2077327	18.5
58 1,2-Dichloropropane	63	12.121	12.120	0.001	86	1194267	18.2
59 Methyl methacrylate	69	12.147	12.147	0.0	73	1357006	20.0
60 1,4-Dioxane	88	12.238	12.238	0.0	79	777877	21.0
61 Dibromomethane	174	12.307	12.307	0.0	90	2250293	19.2
62 Dichlorobromomethane	83	12.473	12.473	0.0	97	3129985	19.4
A 63 TVOC as Toluene	1	12.705	3.160 -	22.249	0	858362003	4012.1
64 cis-1,3-Dichloropropene	75	13.103	13.102	0.0	84	2329911	19.8
65 4-Methyl-2-pentanone (MIBK)	43	13.257	13.257	0.0	86	1773942	19.5
A 66 C8 Range	1	13.459	13.426 -	13.506	0	9248180	NC
67 n-Octane	43	13.476	13.476	0.0	74	1740122	17.3
68 Toluene	92	13.524	13.524	0.0	92	3499416	19.0
A 69 Toluene Range	1	13.539	13.514 -	13.564	0	12371923	NC
70 trans-1,3-Dichloropropene	75	13.898	13.898	0.0	90	2436771	20.1
71 1,1,2-Trichloroethane	83	14.175	14.175	0.0	92	1554181	19.0
72 Tetrachloroethene	166	14.277	14.277	0.0	95	3314444	18.2
73 2-Hexanone	43	14.426	14.426	0.0	85	1737767	19.5
74 Chlorodibromomethane	129	14.714	14.709	0.005	96	3932354	19.8
75 Ethylene Dibromide	107	14.917	14.917	0.0	98	3398396	19.6
* 76 Chlorobenzene-d5	117	15.456	15.456	0.0	51	2979300	10.0
77 Chlorobenzene	112	15.493	15.493	0.0	84	5267778	19.2
78 n-Nonane	57	15.547	15.547	0.0	65	1959601	16.5
79 Ethylbenzene	91	15.557	15.557	0.0	68	6495489	17.5
80 m-Xylene & p-Xylene	106	15.702	15.702	0.0	98	5786128	35.5
S 81 Xylenes, Total	106				0		54.2
82 o-Xylene	106	16.209	16.209	0.0	95	3167400	18.7
83 Styrene	104	16.235	16.235	0.0	97	4953505	19.2
84 Bromoform	173	16.529	16.529	0.0	96	3697642	18.9
85 Isopropylbenzene	105	16.609	16.609	0.0	93	9064997	18.9
$ 86 4-Bromofluorobenzene	95	16.876	16.870	0.006	97	1921376	NC
87 1,1,2,2-Tetrachloroethane	83	17.030	17.025	0.005	92	3947404	18.5
88 N-Propylbenzene	91	17.084	17.084	0.0	95	9745592	18.4
89 1,2,3-Trichloropropane	75	17.116	17.116	0.0	83	2588942	18.6

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
90	n-Decane	57	17.132	17.127	0.006	76	2490757	17.4
91	4-Ethyltoluene	105	17.212	17.207	0.005	67	9046481	18.8
92	2-Chlorotoluene	91	17.255	17.255	0.0	92	6698226	18.3
93	1,3,5-Trimethylbenzene	105	17.281	17.276	0.005	86	7183369	17.9
94	Alpha Methyl Styrene	118	17.559	17.553	0.006	89	4047851	19.0
95	tert-Butylbenzene	119	17.660	17.660	0.0	94	7624038	18.8
96	1,2,4-Trimethylbenzene	105	17.735	17.730	0.005	83	7580704	18.3
97	sec-Butylbenzene	105	17.922	17.922	0.0	98	10661494	18.0
98	4-Isopropyltoluene	119	18.077	18.076	0.0	83	9064508	17.8
99	1,3-Dichlorobenzene	146	18.162	18.162	0.0	97	5773886	18.8
100	1,4-Dichlorobenzene	146	18.279	18.274	0.005	96	5731284	18.8
101	Benzyl chloride	91	18.445	18.445	0.0	98	6751126	20.2
102	Undecane	57	18.541	18.535	0.006	85	3015477	19.5
103	n-Butylbenzene	91	18.600	18.594	0.006	89	7247969	17.5
104	1,2-Dichlorobenzene	146	18.781	18.781	0.0	98	5396501	18.4
106	Dodecane	57	20.046	20.046	0.0	86	2863895	21.3
107	1,2,4-Trichlorobenzene	180	21.231	21.225	0.006	94	4541232	22.3
108	Hexachlorobutadiene	225	21.385	21.385	0.0	87	2907662	17.7
109	Naphthalene	128	21.754	21.748	0.006	99	10653795	22.0
110	1,2,3-Trichlorobenzene	180	22.245	22.239	0.006	96	4293018	24.5

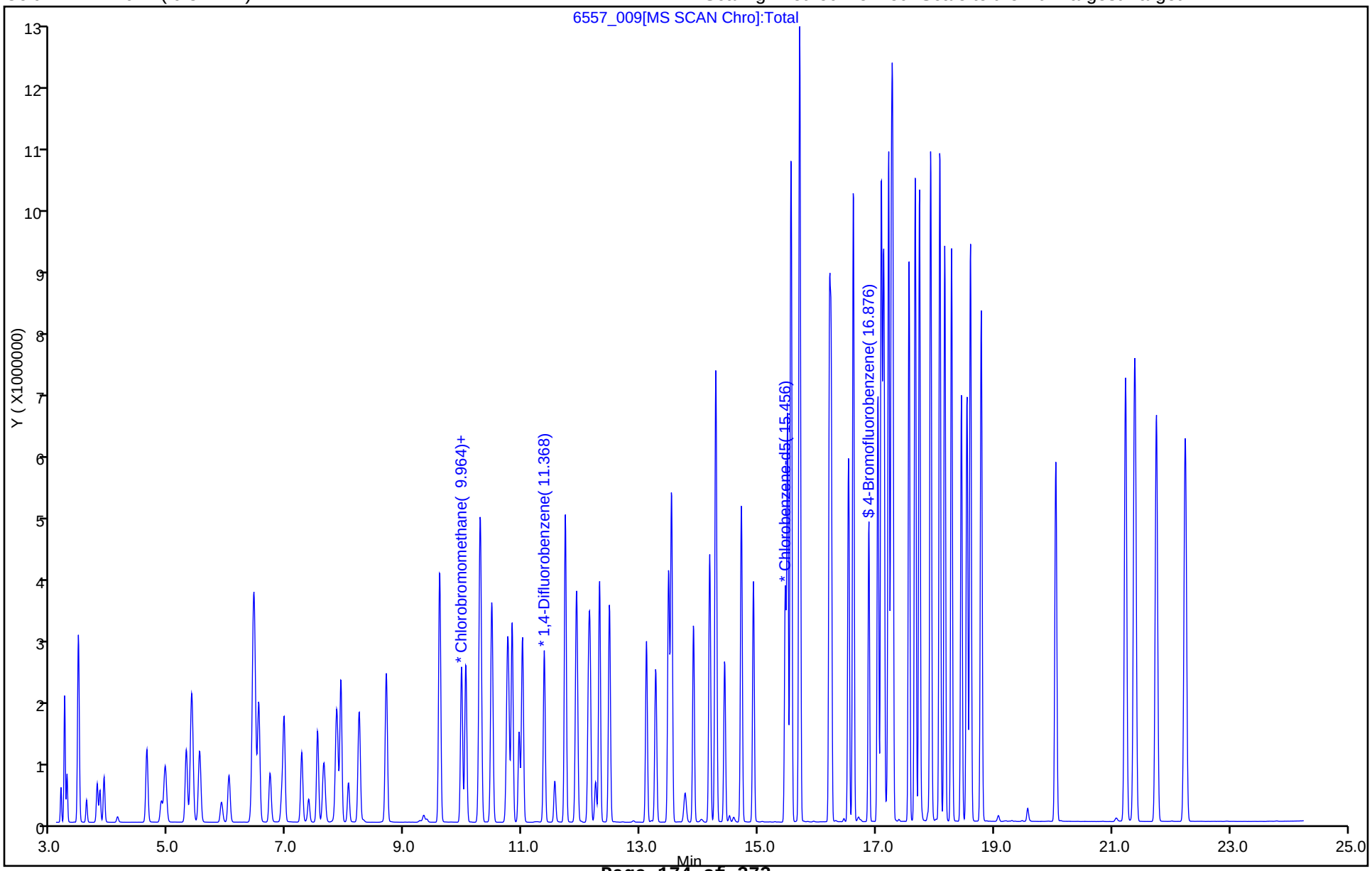
Report Date: 17-Mar-2014 10:55:16 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_009.D

Injection Date:	14-Mar-2014 17:24:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	IC			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 14-Mar-2014 18:16:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006557-010
Misc. Info.: level 8
Operator ID: pad Instrument ID: CHB.i
Sublist: chrom-TO15_LLNJ_TO3*sub5

Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 17-Mar-2014 10:55:17 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.176	3.170	0.006	97	494024	40.4	
5 Dichlorodifluoromethane	85	3.234	3.235	-0.001	99	3540616	34.6	
6 Chlorodifluoromethane	51	3.277	3.272	0.005	71	1432858	37.7	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.469	3.464	0.005	91	3286009	33.4	
8 Chloromethane	50	3.608	3.603	0.005	99	728978	38.4	
9 Butane	43	3.789	3.784	0.005	95	1184752	37.5	
10 Vinyl chloride	62	3.838	3.832	0.006	96	1184971	36.6	
11 Butadiene	54	3.907	3.902	0.005	89	825788	38.1	
12 Bromomethane	94	4.633	4.627	0.006	96	2257298	35.9	
13 BFB								
14 Chloroethane	64	4.878	4.873	0.005	98	929992	37.8	
15 2-Methylbutane	43	4.948	4.937	0.011	85	1207411	33.3	
16 Vinyl bromide	106	5.305	5.295	0.010	100	2637985	36.6	
17 Trichlorofluoromethane	101	5.396	5.385	0.011	97	6401573	35.8	
18 Pentane	43	5.529	5.524	0.005	94	2209554	34.9	
19 Ethanol	45	5.908	5.887	0.021	99	1263924	79.7	
21 Ethyl ether	59	6.026	6.020	0.006	82	1358409	36.2	
22 Acrolein	56	6.442	6.437	0.005	36	530924	34.3	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.447	6.442	0.005	96	5463001	35.0	
24 1,1-Dichloroethene	96	6.533	6.522	0.011	85	2857246	37.3	
25 Acetone	43	6.725	6.714	0.011	91	2074276	36.5	
26 Isopropyl alcohol	45	6.933	6.917	0.016	87	1765711	34.8	
27 Carbon disulfide	76	6.960	6.954	0.006	97	6138624	35.7	
29 3-Chloro-1-propene	41	7.258	7.253	0.005	80	1705527	33.6	
30 Acetonitrile	41	7.376	7.371	0.005	99	933071	37.2	
31 Methylene Chloride	49	7.525	7.520	0.005	69	1586209	33.8	
32 2-Methyl-2-propanol	59	7.648	7.621	0.027	96	3585393	37.4	
33 Methyl tert-butyl ether	73	7.856	7.846	0.010	93	7127075	37.8	
34 trans-1,2-Dichloroethene	61	7.926	7.915	0.011	78	2703787	35.2	
35 Acrylonitrile	53	8.054	8.043	0.011	96	1272502	37.5	
36 Hexane	57	8.235	8.230	0.005	83	2711842	34.1	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
37 1,1-Dichloroethane	63	8.689	8.684	0.005	99	3464607	32.6
38 Vinyl acetate	43	8.699	8.689	0.010	98	3447819	36.1
41 Ethyl acetate	88	9.601	9.591	0.010	88	226393	36.5
39 cis-1,2-Dichloroethene	96	9.596	9.591	0.005	80	2802676	33.0
40 2-Butanone (MEK)	72	9.607	9.596	0.011	99	1065698	30.5
43 Tetrahydrofuran	42	9.964	9.959	0.005	73	1410138	36.1
* 44 Chlorobromomethane	128	9.975	9.964	0.011	55	701185	10.0
S 42 1,2-Dichloroethene, Total	61				0		68.2
45 Chloroform	83	10.039	10.034	0.005	98	5309881	36.1
46 Cyclohexane	84	10.279	10.274	0.005	69	3438058	32.7
47 1,1,1-Trichloroethane	97	10.290	10.285	0.005	93	5601171	34.2
48 Carbon tetrachloride	117	10.482	10.477	0.005	96	6507101	35.4
49 Isooctane	57	10.754	10.749	0.005	97	8692904	32.6
50 Benzene	78	10.829	10.824	0.005	85	7941325	34.0
51 1,2-Dichloroethane	62	10.946	10.941	0.005	98	2860834	36.0
52 n-Heptane	43	11.005	11.000	0.005	75	2319165	30.2
A 53 GRO	1	11.032	4.927 - 17.137		0	797280296	0
* 54 1,4-Difluorobenzene	114	11.373	11.368	0.005	90	3578300	10.0
56 n-Butanol	56	11.555	11.544	0.011	76	1057428	37.0
57 Trichloroethene	95	11.731	11.726	0.005	92	3845972	33.0
58 1,2-Dichloropropane	63	12.126	12.120	0.006	86	2154445	31.7
59 Methyl methacrylate	69	12.152	12.147	0.005	71	2492241	35.4
60 1,4-Dioxane	88	12.248	12.238	0.010	74	1377573	35.9
61 Dibromomethane	174	12.313	12.307	0.006	91	3855401	31.7
62 Dichlorobromomethane	83	12.478	12.473	0.005	97	5874293	35.1
A 63 TVOC as Toluene	1	12.705	3.160 - 22.249		0	1470746957	6639.0
64 cis-1,3-Dichloropropene	75	13.108	13.102	0.006	84	4438475	36.4
65 4-Methyl-2-pentanone (MIBK)	43	13.263	13.257	0.005	85	3256051	34.5
A 66 C8 Range	1	13.459	13.426 - 13.506		0	16843391	NC
67 n-Octane	43	13.481	13.476	0.005	73	3029042	29.1
68 Toluene	92	13.529	13.524	0.005	92	6361095	33.6
A 69 Toluene Range	1	13.539	13.514 - 13.564		0	22137957	NC
70 trans-1,3-Dichloropropene	75	13.903	13.898	0.005	90	4648506	37.0
71 1,1,2-Trichloroethane	83	14.180	14.175	0.005	92	2845144	33.9
72 Tetrachloroethene	166	14.282	14.277	0.005	94	5532199	29.6
73 2-Hexanone	43	14.431	14.426	0.005	85	3170989	34.7
74 Chlorodibromomethane	129	14.714	14.709	0.005	95	6932737	33.9
75 Ethylene Dibromide	107	14.922	14.917	0.005	98	6070004	34.0
* 76 Chlorobenzene-d5	117	15.461	15.456	0.005	44	3060897	10.0
77 Chlorobenzene	112	15.499	15.493	0.006	85	9431276	33.5
78 n-Nonane	57	15.552	15.547	0.005	65	3209594	26.3
79 Ethylbenzene	91	15.563	15.557	0.006	68	10312987	27.1
80 m-Xylene & p-Xylene	106	15.707	15.702	0.005	98	9266378	55.3
S 81 Xylenes, Total	106				0		86.1
82 o-Xylene	106	16.208	16.209	-0.001	95	5339938	30.8
83 Styrene	104	16.240	16.235	0.005	97	8389157	31.6
84 Bromoform	173	16.534	16.529	0.005	93	5656651	28.2
85 Isopropylbenzene	105	16.614	16.609	0.005	93	15285968	31.0
$ 86 4-Bromofluorobenzene	95	16.876	16.870	0.006	95	2004344	NC
87 1,1,2,2-Tetrachloroethane	83	17.030	17.025	0.005	92	6596922	30.1
88 N-Propylbenzene	91	17.089	17.084	0.005	94	15283787	28.0
89 1,2,3-Trichloropropane	75	17.116	17.116	0.0	82	4039768	28.2

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
90 n-Decane	57	17.137	17.127	0.011	77	3988912	27.0
91 4-Ethyltoluene	105	17.212	17.207	0.005	66	14587801	29.5
92 2-Chlorotoluene	91	17.260	17.255	0.005	94	10693128	28.5
93 1,3,5-Trimethylbenzene	105	17.281	17.276	0.005	93	11277858	27.4
94 Alpha Methyl Styrene	118	17.559	17.553	0.006	89	7228062	33.1
95 tert-Butylbenzene	119	17.665	17.660	0.005	90	12493741	30.0
96 1,2,4-Trimethylbenzene	105	17.740	17.730	0.010	71	12699315	29.8
97 sec-Butylbenzene	105	17.927	17.922	0.005	98	17513133	28.8
98 4-Isopropyltoluene	119	18.082	18.076	0.006	82	15603740	29.8
99 1,3-Dichlorobenzene	146	18.167	18.162	0.005	96	9392266	29.8
100 1,4-Dichlorobenzene	146	18.279	18.274	0.005	95	9464364	30.2
101 Benzyl chloride	91	18.450	18.445	0.005	98	12308288	35.9
102 Undecane	57	18.541	18.535	0.006	85	5248772	33.0
103 n-Butylbenzene	91	18.599	18.594	0.005	89	13108720	30.8
104 1,2-Dichlorobenzene	146	18.786	18.781	0.005	97	9303927	30.9
106 Dodecane	57	20.046	20.046	0.0	85	4647868	33.7
107 1,2,4-Trichlorobenzene	180	21.231	21.225	0.005	91	7814515	37.3
108 Hexachlorobutadiene	225	21.391	21.385	0.006	80	4206355	25.0
109 Naphthalene	128	21.754	21.748	0.006	99	19916995	40.1
110 1,2,3-Trichlorobenzene	180	22.245	22.239	0.006	96	7538008	41.9

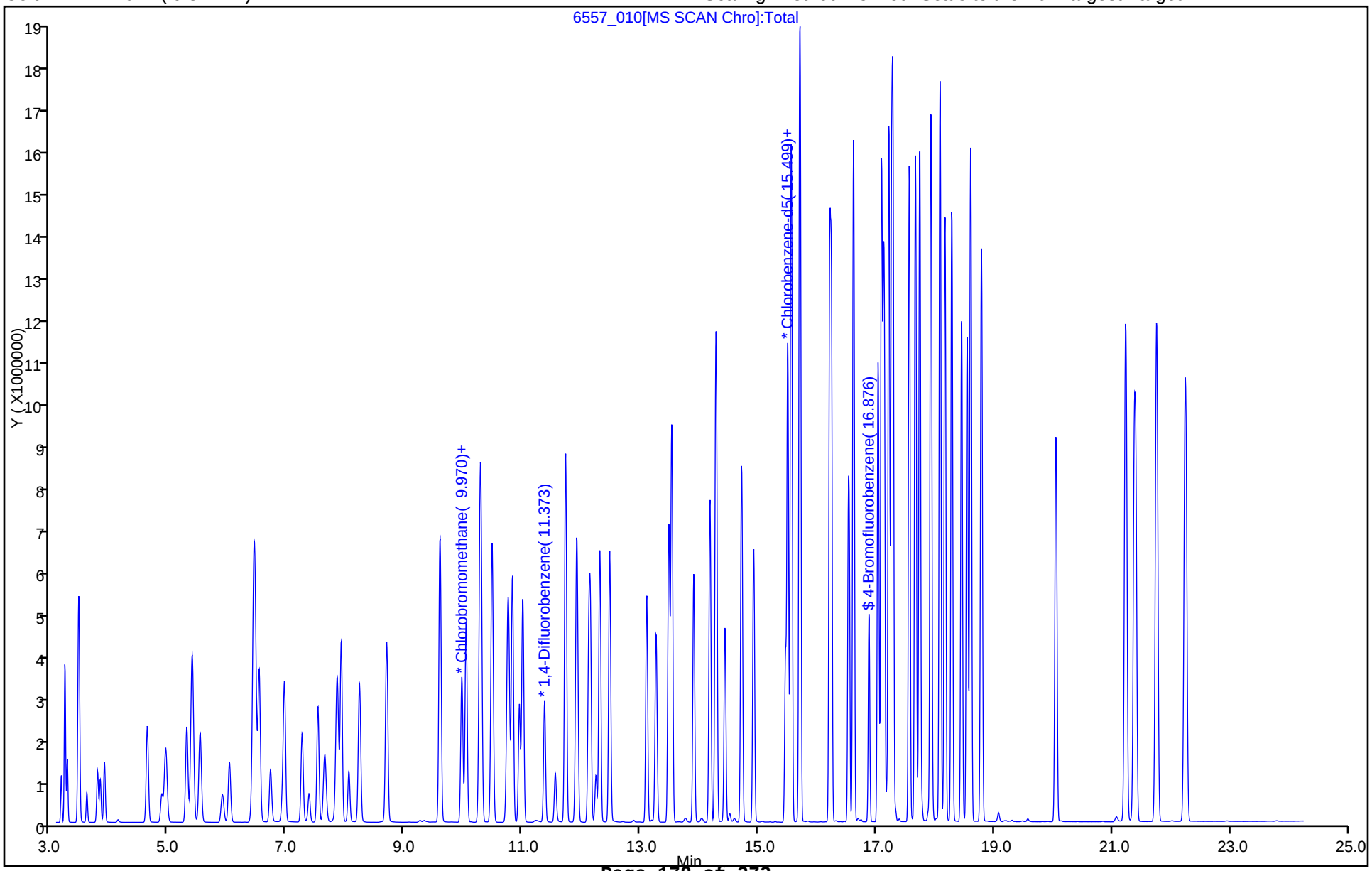
Report Date: 17-Mar-2014 10:55:18 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Injection Date:	14-Mar-2014 18:16:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	IC			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Lab Sample ID: ICV 200-69511/13 Calibration Date: 03/14/2014 20:54

Instrument ID: CHB.i Calib Start Date: 03/14/2014 12:11

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 03/14/2014 18:16

Lab File ID: 6557_013.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.1743	0.1689		9.69	10.0	-3.1	30.0
Dichlorodifluoromethane	Ave	1.460	1.279		8.76	10.0	-12.4	30.0
Freon 22	Ave	0.5424	0.4978		9.18	10.0	-8.2	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.403	1.345		9.59	10.0	-4.1	30.0
Chloromethane	Ave	0.2704	0.2466		9.12	10.0	-8.8	30.0
n-Butane	Ave	0.4504	0.4212		9.35	10.0	-6.5	30.0
Vinyl chloride	Ave	0.4616	0.4030		8.73	10.0	-12.7	30.0
1,3-Butadiene	Ave	0.3095	0.2794		9.02	10.0	-9.7	30.0
Bromomethane	Ave	0.8958	0.7559		8.44	10.0	-15.6	30.0
Chloroethane	Ave	0.3512	0.3075		8.75	10.0	-12.4	30.0
Isopentane	Ave	0.5170	0.4479		8.66	10.0	-13.4	30.0
Bromoethene(Vinyl Bromide)	Ave	1.028	0.8848		8.60	10.0	-13.9	30.0
Trichlorofluoromethane	Ave	2.551	2.176		8.53	10.0	-14.7	30.0
n-Pentane	Ave	0.9039	0.8825		9.76	10.0	-2.4	30.0
Ethanol	Ave	0.2261	0.1994		13.2	15.0	-11.8	30.0
Ethyl ether	Ave	0.5349	0.5438		10.2	10.0	1.7	30.0
Acrolein	Ave	0.2205	0.2504		11.4	10.0	13.6	30.0
Freon TF	Ave	2.227	2.041		9.17	10.0	-8.3	30.0
1,1-Dichloroethene	Ave	1.093	1.011		9.24	10.0	-7.6	30.0
Acetone	Ave	0.8103	0.7894		9.74	10.0	-2.6	30.0
Isopropyl alcohol	Ave	0.7237	0.6152		8.50	10.0	-15.0	30.0
Carbon disulfide	Ave	2.452	2.593		10.6	10.0	5.7	30.0
3-Chloropropene	Ave	0.7232	0.5910		8.17	10.0	-18.3	30.0
Acetonitrile	Ave	0.3573	0.3550		9.93	10.0	-0.7	30.0
Methylene Chloride	Ave	0.6693	0.5862		8.76	10.0	-12.4	30.0
tert-Butyl alcohol	Ave	1.366	1.236		9.05	10.0	-9.5	30.0
Methyl tert-butyl ether	Ave	2.686	2.536		9.44	10.0	-5.6	30.0
trans-1,2-Dichloroethene	Ave	1.094	1.049		9.58	10.0	-4.2	30.0
Acrylonitrile	Ave	0.4834	0.4667		9.65	10.0	-3.5	30.0
n-Hexane	Ave	1.134	1.098		9.68	10.0	-3.2	30.0
1,1-Dichloroethane	Ave	1.514	1.332		8.80	10.0	-12.0	30.0
Vinyl acetate	Ave	1.362	1.294		9.50	10.0	-5.0	30.0
cis-1,2-Dichloroethene	Ave	1.213	1.115		9.19	10.0	-8.1	30.0
Ethyl acetate	Ave	0.0884	0.0977		11.0	10.0	10.5	30.0
Methyl Ethyl Ketone	Ave	0.4983	0.4376		8.78	10.0	-12.2	30.0
Tetrahydrofuran	Ave	0.1091	0.1069		9.80	10.0	-2.0	30.0
Chloroform	Ave	2.101	1.932		9.20	10.0	-8.0	30.0
Cyclohexane	Ave	0.2942	0.2818		9.58	10.0	-4.2	30.0
1,1,1-Trichloroethane	Ave	0.4577	0.4252		9.29	10.0	-7.1	30.0
Carbon tetrachloride	Ave	0.5136	0.4633		9.02	10.0	-9.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Lab Sample ID: ICV 200-69511/13 Calibration Date: 03/14/2014 20:54

Instrument ID: CHB.i Calib Start Date: 03/14/2014 12:11

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 03/14/2014 18:16

Lab File ID: 6557_013.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.7462	0.6797		9.11	10.0	-8.9	30.0
Benzene	Ave	0.6528	0.5963		9.13	10.0	-8.7	30.0
1,2-Dichloroethane	Ave	0.2219	0.2030		9.14	10.0	-8.5	30.0
n-Heptane	Ave	0.2147	0.1858		8.65	10.0	-13.5	30.0
n-Butanol	Ave	0.0798	0.0756		9.47	10.0	-5.3	30.0
Trichloroethene	Ave	0.3255	0.2936		9.02	10.0	-9.8	30.0
1,2-Dichloropropane	Ave	0.1898	0.1693		8.92	10.0	-10.8	30.0
Methyl methacrylate	Ave	0.1966	0.1967		10.0	10.0	0.0	30.0
1,4-Dioxane	Ave	0.1073	0.0999		9.31	10.0	-6.9	30.0
Dibromomethane	Ave	0.3400	0.3116		9.16	10.0	-8.4	30.0
Bromodichloromethane	Ave	0.4673	0.4270		9.14	10.0	-8.6	30.0
cis-1,3-Dichloropropene	Ave	0.3405	0.3234		9.49	10.0	-5.0	30.0
methyl isobutyl ketone	Ave	0.2634	0.2425		9.20	10.0	-7.9	30.0
n-Octane	Ave	0.2911	0.2555		8.77	10.0	-12.2	30.0
Toluene	Ave	0.6191	0.5824		9.41	10.0	-5.9	30.0
trans-1,3-Dichloropropene	Ave	0.3507	0.3327		9.49	10.0	-5.1	30.0
1,1,2-Trichloroethane	Ave	0.2741	0.2551		9.31	10.0	-6.9	30.0
Tetrachloroethene	Ave	0.6108	0.5573		9.12	10.0	-8.8	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2987	0.2754		9.22	10.0	-7.8	30.0
Dibromochloromethane	Ave	0.6682	0.6141		9.19	10.0	-8.1	30.0
1,2-Dibromoethane	Ave	0.5825	0.5540		9.51	10.0	-4.9	30.0
Chlorobenzene	Ave	0.9196	0.8582		9.33	10.0	-6.7	30.0
n-Nonane	Ave	0.3979	0.3537		8.89	10.0	-11.1	30.0
Ethylbenzene	Ave	1.244	1.159		9.31	10.0	-6.9	30.0
m,p-Xylene	Ave	0.5474	0.5133		18.8	20.0	-6.2	30.0
Xylene, o-	Ave	0.5671	0.5291		9.33	10.0	-6.7	30.0
Styrene	Ave	0.8660	0.8276		9.55	10.0	-4.4	30.0
Bromoform	Ave	0.6560	0.6113		9.32	10.0	-6.8	30.0
Cumene	Ave	1.610	1.497		9.30	10.0	-7.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7149	0.6624		9.26	10.0	-7.3	30.0
n-Propylbenzene	Ave	1.780	1.657		9.31	10.0	-6.9	30.0
1,2,3-Trichloropropane	Ave	0.4684	0.4462		9.52	10.0	-4.7	30.0
n-Decane	Ave	0.4818	0.4674		9.70	10.0	-3.0	30.0
4-Ethyltoluene	Ave	1.617	1.544		9.55	10.0	-4.5	30.0
2-Chlorotoluene	Ave	1.226	1.123		9.16	10.0	-8.4	30.0
1,3,5-Trimethylbenzene	Ave	1.345	1.234		9.18	10.0	-8.2	30.0
Alpha Methyl Styrene	Ave	0.7136	0.7155		10.0	10.0	0.3	30.0
tert-Butylbenzene	Ave	1.363	1.262		9.26	10.0	-7.4	30.0
1,2,4-Trimethylbenzene	Ave	1.390	1.267		9.11	10.0	-8.8	30.0
sec-Butylbenzene	Ave	1.989	1.837		9.23	10.0	-7.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Lab Sample ID: ICV 200-69511/13 Calibration Date: 03/14/2014 20:54

Instrument ID: CHB.i Calib Start Date: 03/14/2014 12:11

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 03/14/2014 18:16

Lab File ID: 6557_013.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.710	1.598		9.34	10.0	-6.5	30.0
1,3-Dichlorobenzene	Ave	1.029	0.9614		9.34	10.0	-6.6	30.0
1,4-Dichlorobenzene	Ave	1.024	0.9608		9.38	10.0	-6.2	30.0
Benzyl chloride	Ave	1.120	1.023		9.14	10.0	-8.6	30.0
n-Undecane	Ave	0.5203	0.5218		10.0	10.0	0.3	30.0
n-Butylbenzene	Ave	1.390	1.297		9.33	10.0	-6.7	30.0
1,2-Dichlorobenzene	Ave	0.9822	0.9137		9.30	10.0	-7.0	30.0
n-Dodecane	Ave	0.4505	0.3911		8.68	10.0	-13.2	30.0
1,2,4-Trichlorobenzene	Ave	0.6850	0.5823		8.50	10.0	-15.0	30.0
Hexachlorobutadiene	Ave	0.5499	0.4604		8.37	10.0	-16.3	30.0
Naphthalene	Ave	1.622	1.262		7.78	10.0	-22.2	30.0
1,2,3-Trichlorobenzene	Ave	0.5882	0.5106		8.68	10.0	-13.2	30.0

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_013.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 14-Mar-2014 20:54:30 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006557-013
Misc. Info.: icv
Operator ID: pad Instrument ID: CHB.i
Sublist:

Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 17-Mar-2014 10:55:17 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.165	3.170	-0.005	97	117164	9.69	
5 Dichlorodifluoromethane	85	3.229	3.235	-0.006	99	887031	8.76	
6 Chlorodifluoromethane	51	3.272	3.272	0.0	94	345218	9.18	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.459	3.464	-0.005	95	933058	9.59	
8 Chloromethane	50	3.603	3.603	0.0	99	171019	9.12	
9 Butane	43	3.784	3.784	0.0	96	292094	9.35	
10 Vinyl chloride	62	3.827	3.832	-0.005	96	279503	8.73	
11 Butadiene	54	3.896	3.902	-0.006	89	193730	9.02	
12 Bromomethane	94	4.622	4.627	-0.005	99	524190	8.44	
13 BFB								
14 Chloroethane	64	4.867	4.873	-0.006	96	213230	8.75	
15 2-Methylbutane	43	4.932	4.937	-0.005	86	310637	8.66	
16 Vinyl bromide	106	5.289	5.295	-0.006	97	613607	8.60	
17 Trichlorofluoromethane	101	5.380	5.385	-0.005	98	1508955	8.53	
18 Pentane	43	5.519	5.524	-0.005	95	612005	9.76	
19 Ethanol	45	5.887	5.887	0.0	99	207550	13.2	
21 Ethyl ether	59	6.015	6.020	-0.005	88	377147	10.2	
22 Acrolein	56	6.431	6.437	-0.006	95	173656	11.4	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.437	6.442	-0.006	96	1415647	9.17	
24 1,1-Dichloroethene	96	6.522	6.522	0.0	85	701053	9.24	
25 Acetone	43	6.714	6.714	0.0	92	547431	9.74	
26 Isopropyl alcohol	45	6.912	6.917	-0.005	98	426659	8.50	
27 Carbon disulfide	76	6.949	6.954	-0.005	97	1798170	10.6	
29 3-Chloro-1-propene	41	7.248	7.253	-0.005	83	409880	8.17	
30 Acetonitrile	41	7.370	7.371	-0.001	99	246165	9.93	
31 Methylene Chloride	49	7.520	7.520	0.0	73	406522	8.76	
32 2-Methyl-2-propanol	59	7.621	7.621	0.0	98	856893	9.05	
33 Methyl tert-butyl ether	73	7.845	7.846	-0.001	94	1758706	9.44	
34 trans-1,2-Dichloroethene	61	7.915	7.915	0.0	80	727195	9.58	
35 Acrylonitrile	53	8.043	8.043	0.0	95	323653	9.65	
36 Hexane	57	8.224	8.230	-0.006	83	761390	9.68	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
37 1,1-Dichloroethane	63	8.683	8.684	-0.001	99	923834	8.80
38 Vinyl acetate	43	8.689	8.689	0.0	98	897199	9.50
41 Ethyl acetate	88	9.591	9.591	0.0	90	67749	11.0
39 cis-1,2-Dichloroethene	96	9.591	9.591	0.0	96	773131	9.19
40 2-Butanone (MEK)	72	9.591	9.596	-0.005	99	303506	8.78
43 Tetrahydrofuran	42	9.959	9.959	0.0	76	368418	9.80
* 44 Chlorobromomethane	128	9.964	9.964	0.0	66	693647	10.0
S 42 1,2-Dichloroethene, Total	61				0		18.8
45 Chloroform	83	10.034	10.034	0.0	90	1339754	9.20
46 Cyclohexane	84	10.274	10.274	0.0	74	971149	9.58
47 1,1,1-Trichloroethane	97	10.284	10.285	-0.001	95	1465290	9.29
48 Carbon tetrachloride	117	10.477	10.477	0.0	97	1596865	9.02
49 Isooctane	57	10.749	10.749	0.0	98	2342436	9.11
50 Benzene	78	10.818	10.824	-0.006	91	2055266	9.13
51 1,2-Dichloroethane	62	10.936	10.941	-0.005	98	699508	9.14
52 n-Heptane	43	10.994	11.000	-0.006	75	640238	8.65
A 53 GRO	1	11.032	4.927 - 17.137		0	232638442	0
* 54 1,4-Difluorobenzene	114	11.368	11.368	0.0	91	3447206	10.0
56 n-Butanol	56	11.544	11.544	0.0	78	260404	9.47
57 Trichloroethene	95	11.725	11.726	-0.001	92	1011722	9.02
58 1,2-Dichloropropane	63	12.115	12.120	-0.005	92	583450	8.92
59 Methyl methacrylate	69	12.142	12.147	-0.005	79	677862	10.0
60 1,4-Dioxane	88	12.238	12.238	0.0	82	344341	9.31
61 Dibromomethane	174	12.307	12.307	0.0	90	1073958	9.16
62 Dichlorobromomethane	83	12.473	12.473	0.0	97	1471607	9.14
A 63 TVOC as Toluene	1	12.705	3.160 - 22.249		0	409432873	1918.5
64 cis-1,3-Dichloropropene	75	13.102	13.102	0.0	84	1114501	9.49
65 4-Methyl-2-pentanone (MIBK)	43	13.257	13.257	0.0	86	835696	9.20
A 66 C8 Range	1	13.457	13.426 - 13.506		0	4704741	NC
67 n-Octane	43	13.476	13.476	0.0	75	880577	8.77
68 Toluene	92	13.524	13.524	0.0	91	1728162	9.41
A 69 Toluene Range	1	13.539	13.514 - 13.564		0	6369725	NC
70 trans-1,3-Dichloropropene	75	13.898	13.898	0.0	90	1146790	9.49
71 1,1,2-Trichloroethane	83	14.175	14.175	0.0	92	756974	9.31
72 Tetrachloroethene	166	14.276	14.277	-0.001	96	1653633	9.12
73 2-Hexanone	43	14.426	14.426	0.0	86	817322	9.22
74 Chlorodibromomethane	129	14.709	14.709	0.0	96	1822161	9.19
75 Ethylene Dibromide	107	14.917	14.917	0.0	98	1643952	9.51
* 76 Chlorobenzene-d5	117	15.456	15.456	0.0	78	2967928	10.0
77 Chlorobenzene	112	15.493	15.493	0.0	90	2546593	9.33
78 n-Nonane	57	15.547	15.547	0.0	76	1049533	8.89
79 Ethylbenzene	91	15.557	15.557	0.0	96	3438012	9.31
80 m-Xylene & p-Xylene	106	15.701	15.702	-0.001	98	3046127	18.8
S 81 Xylenes, Total	106				0		28.1
82 o-Xylene	106	16.208	16.209	-0.001	95	1570045	9.33
83 Styrene	104	16.235	16.235	0.0	98	2455692	9.55
84 Bromoform	173	16.529	16.529	0.0	97	1813916	9.32
85 Isopropylbenzene	105	16.609	16.609	0.0	93	4442474	9.30
$ 86 4-Bromofluorobenzene	95	16.870	16.870	0.0	96	1899865	NC
87 1,1,2,2-Tetrachloroethane	83	17.025	17.025	0.0	96	1965498	9.26
88 N-Propylbenzene	91	17.084	17.084	0.0	98	4916784	9.31
89 1,2,3-Trichloropropane	75	17.116	17.116	0.0	84	1323964	9.52

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
90 n-Decane	57	17.126	17.127	0.0	77	1386846	9.70
91 4-Ethyltoluene	105	17.206	17.207	-0.001	81	4582305	9.55
92 2-Chlorotoluene	91	17.254	17.255	-0.001	95	3332059	9.16
93 1,3,5-Trimethylbenzene	105	17.276	17.276	0.0	94	3662635	9.18
94 Alpha Methyl Styrene	118	17.553	17.553	0.0	90	2123197	10.0
95 tert-Butylbenzene	119	17.660	17.660	0.0	92	3743526	9.26
96 1,2,4-Trimethylbenzene	105	17.729	17.730	-0.001	95	3761035	9.11
97 sec-Butylbenzene	105	17.922	17.922	0.0	99	5451230	9.23
98 4-Isopropyltoluene	119	18.076	18.076	0.0	87	4742327	9.34
99 1,3-Dichlorobenzene	146	18.162	18.162	0.0	98	2852693	9.34
100 1,4-Dichlorobenzene	146	18.274	18.274	0.0	97	2851129	9.38
101 Benzyl chloride	91	18.445	18.445	0.0	99	3036526	9.14
102 Undecane	57	18.535	18.535	0.0	86	1548329	10.0
103 n-Butylbenzene	91	18.594	18.594	0.0	93	3848935	9.33
104 1,2-Dichlorobenzene	146	18.781	18.781	0.0	98	2711280	9.30
106 Dodecane	57	20.046	20.046	0.0	87	1160453	8.68
107 1,2,4-Trichlorobenzene	180	21.225	21.225	0.0	91	1727917	8.50
108 Hexachlorobutadiene	225	21.385	21.385	0.0	91	1366299	8.37
109 Naphthalene	128	21.753	21.748	0.005	99	3745985	7.78
110 1,2,3-Trichlorobenzene	180	22.244	22.239	0.005	95	1515132	8.68

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

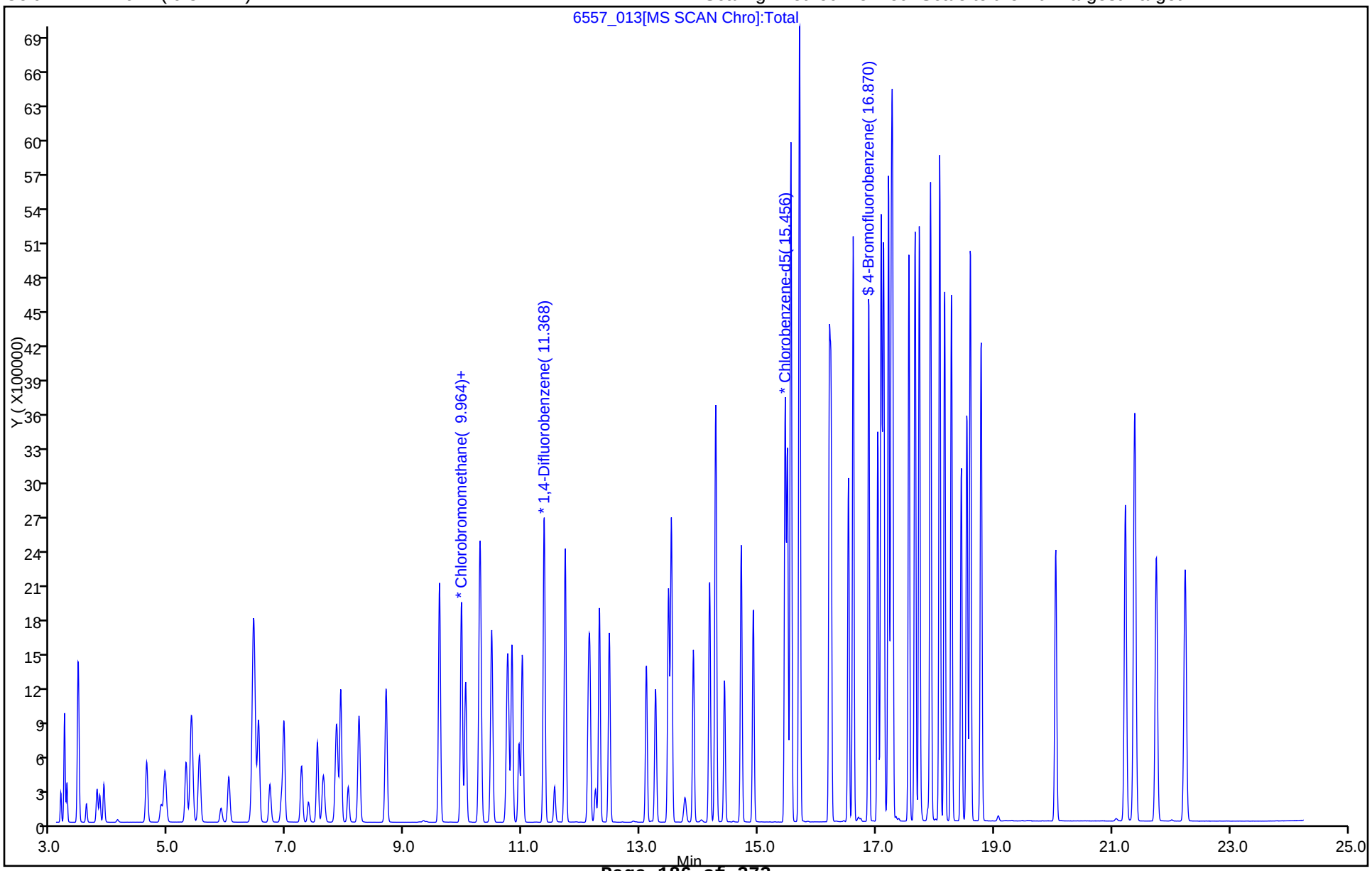
Report Date: 17-Mar-2014 10:55:22 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_013.D

Injection Date:	14-Mar-2014 20:54:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	ICV			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Lab Sample ID: CCVIS 200-69697/2 Calibration Date: 03/20/2014 10:27

Instrument ID: CHB.i Calib Start Date: 03/14/2014 12:11

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 03/14/2014 18:16

Lab File ID: 6619_002.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.1743	0.1459		8.37	10.0	-16.3	30.0
Dichlorodifluoromethane	Ave	1.460	1.246		8.53	10.0	-14.7	30.0
Freon 22	Ave	0.5424	0.4393		8.10	10.0	-19.0	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.403	1.134		8.08	10.0	-19.2	30.0
Chloromethane	Ave	0.2704	0.2163		8.00	10.0	-20.0	30.0
n-Butane	Ave	0.4504	0.3576		7.94	10.0	-20.6	30.0
Vinyl chloride	Ave	0.4616	0.3696		8.01	10.0	-19.9	30.0
1,3-Butadiene	Ave	0.3095	0.2519		8.14	10.0	-18.6	30.0
Bromomethane	Ave	0.8958	0.7657		8.55	10.0	-14.5	30.0
Chloroethane	Ave	0.3512	0.3102		8.83	10.0	-11.7	30.0
Isopentane	Ave	0.5170	0.4035		7.80	10.0	-22.0	30.0
Bromoethene(Vinyl Bromide)	Ave	1.028	0.9177		8.92	10.0	-10.7	30.0
Trichlorofluoromethane	Ave	2.551	2.235		8.76	10.0	-12.4	30.0
n-Pentane	Ave	0.9039	0.7525		8.32	10.0	-16.8	30.0
Ethanol	Ave	0.2261	0.2167		14.4	15.0	-4.1	30.0
Ethyl ether	Ave	0.5349	0.4551		8.51	10.0	-14.9	30.0
Acrolein	Ave	0.2205	0.1968		8.92	10.0	-10.8	30.0
Freon TF	Ave	2.227	1.933		8.68	10.0	-13.2	30.0
1,1-Dichloroethene	Ave	1.093	0.9584		8.76	10.0	-12.4	30.0
Acetone	Ave	0.8103	0.6703		8.27	10.0	-17.3	30.0
Isopropyl alcohol	Ave	0.7237	0.6259		8.65	10.0	-13.5	30.0
Carbon disulfide	Ave	2.452	2.119		8.64	10.0	-13.6	30.0
3-Chloropropene	Ave	0.7232	0.5657		7.82	10.0	-21.8	30.0
Acetonitrile	Ave	0.3573	0.3000		8.39	10.0	-16.0	30.0
Methylene Chloride	Ave	0.6693	0.5365		8.01	10.0	-19.8	30.0
tert-Butyl alcohol	Ave	1.366	1.205		8.82	10.0	-11.8	30.0
Methyl tert-butyl ether	Ave	2.686	2.336		8.69	10.0	-13.0	30.0
trans-1,2-Dichloroethene	Ave	1.094	0.9138		8.35	10.0	-16.5	30.0
Acrylonitrile	Ave	0.4834	0.4042		8.36	10.0	-16.4	30.0
n-Hexane	Ave	1.134	0.9336		8.23	10.0	-17.7	30.0
1,1-Dichloroethane	Ave	1.514	1.199		7.92	10.0	-20.8	30.0
Vinyl acetate	Ave	1.362	1.194		8.76	10.0	-12.3	30.0
cis-1,2-Dichloroethene	Ave	1.213	1.065		8.78	10.0	-12.2	30.0
Ethyl acetate	Ave	0.0884	0.0836		9.45	10.0	-5.4	30.0
Methyl Ethyl Ketone	Ave	0.4983	0.3995		8.02	10.0	-19.8	30.0
Tetrahydrofuran	Ave	0.1091	0.0979		8.97	10.0	-10.3	30.0
Chloroform	Ave	2.101	1.801		8.57	10.0	-14.2	30.0
Cyclohexane	Ave	0.2942	0.2654		9.02	10.0	-9.8	30.0
1,1,1-Trichloroethane	Ave	0.4577	0.4128		9.02	10.0	-9.8	30.0
Carbon tetrachloride	Ave	0.5136	0.4526		8.81	10.0	-11.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Lab Sample ID: CCVIS 200-69697/2 Calibration Date: 03/20/2014 10:27

Instrument ID: CHB.i Calib Start Date: 03/14/2014 12:11

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 03/14/2014 18:16

Lab File ID: 6619_002.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.7462	0.6418		8.60	10.0	-14.0	30.0
Benzene	Ave	0.6528	0.5643		8.64	10.0	-13.6	30.0
1,2-Dichloroethane	Ave	0.2219	0.1885		8.49	10.0	-15.1	30.0
n-Heptane	Ave	0.2147	0.1722		8.02	10.0	-19.8	30.0
n-Butanol	Ave	0.0798	0.0697		8.73	10.0	-12.7	30.0
Trichloroethene	Ave	0.3255	0.2823		8.67	10.0	-13.3	30.0
1,2-Dichloropropane	Ave	0.1898	0.1607		8.46	10.0	-15.4	30.0
Methyl methacrylate	Ave	0.1966	0.1798		9.14	10.0	-8.5	30.0
1,4-Dioxane	Ave	0.1073	0.1008		9.39	10.0	-6.1	30.0
Dibromomethane	Ave	0.3400	0.3183		9.36	10.0	-6.4	30.0
Bromodichloromethane	Ave	0.4673	0.4144		8.87	10.0	-11.3	30.0
cis-1,3-Dichloropropene	Ave	0.3405	0.2996		8.80	10.0	-12.0	30.0
methyl isobutyl ketone	Ave	0.2634	0.2276		8.64	10.0	-13.6	30.0
n-Octane	Ave	0.2911	0.2361		8.11	10.0	-18.9	30.0
Toluene	Ave	0.6191	0.5493		8.87	10.0	-11.3	30.0
trans-1,3-Dichloropropene	Ave	0.3507	0.3112		8.87	10.0	-11.3	30.0
1,1,2-Trichloroethane	Ave	0.2741	0.2406		8.78	10.0	-12.2	30.0
Tetrachloroethene	Ave	0.6108	0.5553		9.09	10.0	-9.1	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2987	0.2547		8.52	10.0	-14.7	30.0
Dibromochloromethane	Ave	0.6682	0.6256		9.36	10.0	-6.4	30.0
1,2-Dibromoethane	Ave	0.5825	0.5356		9.19	10.0	-8.1	30.0
Chlorobenzene	Ave	0.9196	0.8249		8.97	10.0	-10.3	30.0
n-Nonane	Ave	0.3979	0.3316		8.33	10.0	-16.7	30.0
Ethylbenzene	Ave	1.244	1.121		9.00	10.0	-9.9	30.0
m,p-Xylene	Ave	0.5474	0.5022		18.3	20.0	-8.2	30.0
Xylene, o-	Ave	0.5671	0.5185		9.14	10.0	-8.6	30.0
Styrene	Ave	0.8660	0.8053		9.30	10.0	-7.0	30.0
Bromoform	Ave	0.6560	0.6412		9.77	10.0	-2.2	30.0
Cumene	Ave	1.610	1.483		9.21	10.0	-7.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7149	0.6329		8.85	10.0	-11.5	30.0
n-Propylbenzene	Ave	1.780	1.621		9.10	10.0	-8.9	30.0
1,2,3-Trichloropropane	Ave	0.4684	0.4326		9.23	10.0	-7.6	30.0
n-Decane	Ave	0.4818	0.4406		9.14	10.0	-8.6	30.0
4-Ethyltoluene	Ave	1.617	1.485		9.18	10.0	-8.2	30.0
2-Chlorotoluene	Ave	1.226	1.101		8.98	10.0	-10.2	30.0
1,3,5-Trimethylbenzene	Ave	1.345	1.236		9.19	10.0	-8.1	30.0
Alpha Methyl Styrene	Ave	0.7136	0.6980		9.78	10.0	-2.2	30.0
tert-Butylbenzene	Ave	1.363	1.256		9.22	10.0	-7.8	30.0
1,2,4-Trimethylbenzene	Ave	1.390	1.249		8.98	10.0	-10.1	30.0
sec-Butylbenzene	Ave	1.989	1.811		9.10	10.0	-9.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Lab Sample ID: CCVIS 200-69697/2 Calibration Date: 03/20/2014 10:27

Instrument ID: CHB.i Calib Start Date: 03/14/2014 12:11

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 03/14/2014 18:16

Lab File ID: 6619_002.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.710	1.591		9.30	10.0	-7.0	30.0
1,3-Dichlorobenzene	Ave	1.029	0.9647		9.37	10.0	-6.2	30.0
1,4-Dichlorobenzene	Ave	1.024	0.9662		9.43	10.0	-5.7	30.0
Benzyl chloride	Ave	1.120	1.081		9.65	10.0	-3.5	30.0
n-Undecane	Ave	0.5203	0.4764		9.16	10.0	-8.4	30.0
n-Butylbenzene	Ave	1.390	1.274		9.16	10.0	-8.4	30.0
1,2-Dichlorobenzene	Ave	0.9822	0.9199		9.36	10.0	-6.3	30.0
n-Dodecane	Ave	0.4505	0.4074		9.04	10.0	-9.6	30.0
1,2,4-Trichlorobenzene	Ave	0.6850	0.6257		9.13	10.0	-8.7	30.0
Hexachlorobutadiene	Ave	0.5499	0.4981		9.05	10.0	-9.4	30.0
Naphthalene	Ave	1.622	1.465		9.03	10.0	-9.6	30.0
1,2,3-Trichlorobenzene	Ave	0.5882	0.5792		9.85	10.0	-1.5	30.0

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_002.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 20-Mar-2014 10:27:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006619-002
Misc. Info.: ccvis
Operator ID: pad Instrument ID: CHB.i
Sublist: chrom-TO15_LLNJ_TO3*sub5

Method: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 21-Mar-2014 09:42:20 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK031

First Level Reviewer: daiglep Date: 20-Mar-2014 11:35:50

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.176	3.176	0.0	97	117205	8.37	
5 Dichlorodifluoromethane	85	3.234	3.234	0.0	99	1000565	8.53	
6 Chlorodifluoromethane	51	3.277	3.277	0.0	75	352886	8.10	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.469	3.469	0.0	88	910914	8.08	
8 Chloromethane	50	3.608	3.608	0.0	99	173748	8.00	
9 Butane	43	3.789	3.789	0.0	95	287265	7.94	
10 Vinyl chloride	62	3.832	3.832	0.0	96	296918	8.01	
11 Butadiene	54	3.907	3.907	0.0	89	202348	8.14	
12 Bromomethane	94	4.633	4.633	0.0	99	615053	8.55	
13 BFB								
14 Chloroethane	64	4.873	4.873	0.0	98	249201	8.83	
15 2-Methylbutane	43	4.942	4.942	0.0	85	324101	7.80	
16 Vinyl bromide	106	5.300	5.300	0.0	97	737215	8.92	
17 Trichlorofluoromethane	101	5.391	5.391	0.0	97	1795088	8.76	
18 Pentane	43	5.524	5.524	0.0	94	604459	8.32	
19 Ethanol	45	5.892	5.892	0.0	99	261225	14.4	
21 Ethyl ether	59	6.020	6.020	0.0	87	365592	8.51	
22 Acrolein	56	6.437	6.437	0.0	94	158051	8.92	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.442	6.442	0.0	96	1553088	8.68	
24 1,1-Dichloroethene	96	6.527	6.527	0.0	84	769887	8.76	
25 Acetone	43	6.719	6.719	0.0	92	538484	8.27	
26 Isopropyl alcohol	45	6.917	6.917	0.0	98	502765	8.65	
27 Carbon disulfide	76	6.954	6.954	0.0	97	1702481	8.64	
29 3-Chloro-1-propene	41	7.253	7.253	0.0	81	454384	7.82	
30 Acetonitrile	41	7.371	7.371	0.0	99	240969	8.39	
31 Methylene Chloride	49	7.520	7.520	0.0	78	430982	8.01	
32 2-Methyl-2-propanol	59	7.621	7.621	0.0	98	967997	8.82	
33 Methyl tert-butyl ether	73	7.846	7.846	0.0	94	1876112	8.69	
34 trans-1,2-Dichloroethene	61	7.915	7.915	0.0	80	734066	8.35	
35 Acrylonitrile	53	8.043	8.043	0.0	96	324700	8.36	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
36 Hexane	57	8.230	8.230	0.0	83	749931	8.23
37 1,1-Dichloroethane	63	8.683	8.683	0.0	99	963283	7.92
38 Vinyl acetate	43	8.689	8.689	0.0	98	958772	8.76
41 Ethyl acetate	88	9.591	9.591	0.0	88	67163	9.45
39 cis-1,2-Dichloroethene	96	9.591	9.591	0.0	92	855657	8.78
40 2-Butanone (MEK)	72	9.596	9.596	0.0	99	320917	8.02
43 Tetrahydrofuran	42	9.959	9.959	0.0	76	380683	8.97
* 44 Chlorobromomethane	128	9.964	9.964	0.0	65	803453	10.0
S 42 1,2-Dichloroethene, Total	61				0		17.1
45 Chloroform	83	10.034	10.034	0.0	98	1446914	8.57
46 Cyclohexane	84	10.274	10.274	0.0	74	1032527	9.02
47 1,1,1-Trichloroethane	97	10.284	10.284	0.0	94	1605741	9.02
48 Carbon tetrachloride	117	10.477	10.477	0.0	96	1760764	8.81
49 Isooctane	57	10.749	10.749	0.0	98	2496546	8.60
50 Benzene	78	10.824	10.824	0.0	91	2195202	8.64
51 1,2-Dichloroethane	62	10.936	10.936	0.0	98	733390	8.49
52 n-Heptane	43	10.994	10.994	0.0	75	669992	8.02
A 53 GRO	1	11.325	4.932 -	17.136	0	255249015	0
* 54 1,4-Difluorobenzene	114	11.368	11.368	0.0	90	3890911	10.0
56 n-Butanol	56	11.544	11.544	0.0	78	271104	8.73
57 Trichloroethene	95	11.720	11.720	0.0	92	1098239	8.67
58 1,2-Dichloropropane	63	12.115	12.115	0.0	92	625129	8.46
59 Methyl methacrylate	69	12.142	12.142	0.0	79	699499	9.14
60 1,4-Dioxane	88	12.238	12.238	0.0	81	392090	9.39
61 Dibromomethane	174	12.302	12.302	0.0	89	1238326	9.36
62 Dichlorobromomethane	83	12.473	12.473	0.0	97	1612242	8.87
A 63 TVOC as Toluene	1	13.014	3.166 -	22.249	0	458240375	1902.3
64 cis-1,3-Dichloropropene	75	13.097	13.097	0.0	84	1165540	8.80
65 4-Methyl-2-pentanone (MIBK)	43	13.257	13.257	0.0	86	885222	8.64
A 66 C8 Range	1	13.457	13.426 -	13.506	0	5076560	NC
67 n-Octane	43	13.476	13.476	0.0	74	918260	8.11
68 Toluene	92	13.524	13.524	0.0	92	1859853	8.87
A 69 Toluene Range	1	13.539	13.514 -	13.564	0	6755008	NC
70 trans-1,3-Dichloropropene	75	13.898	13.898	0.0	89	1210428	8.87
71 1,1,2-Trichloroethane	83	14.170	14.170	0.0	91	814816	8.78
72 Tetrachloroethene	166	14.276	14.276	0.0	96	1880290	9.09
73 2-Hexanone	43	14.426	14.426	0.0	85	862293	8.52
74 Chlorodibromomethane	129	14.709	14.709	0.0	97	2118326	9.36
75 Ethylene Dibromide	107	14.912	14.912	0.0	98	1813415	9.19
* 76 Chlorobenzene-d5	117	15.456	15.456	0.0	78	3386739	10.0
77 Chlorobenzene	112	15.493	15.493	0.0	89	2793112	8.97
78 n-Nonane	57	15.547	15.547	0.0	76	1122861	8.33
79 Ethylbenzene	91	15.552	15.552	0.0	96	3794108	9.00
80 m-Xylene & p-Xylene	106	15.696	15.696	0.0	98	3401280	18.3
S 81 Xylenes, Total	106				0		27.5
82 o-Xylene	106	16.203	16.203	0.0	95	1755628	9.14
83 Styrene	104	16.230	16.230	0.0	97	2726730	9.30
84 Bromoform	173	16.529	16.529	0.0	99	2171220	9.77
85 Isopropylbenzene	105	16.609	16.609	0.0	93	5020209	9.21
$ 86 4-Bromofluorobenzene	95	16.870	16.870	0.0	98	2147982	NC
87 1,1,2,2-Tetrachloroethane	83	17.025	17.025	0.0	95	2142870	8.85
88 N-Propylbenzene	91	17.084	17.084	0.0	96	5488980	9.10

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v	Flags
89	1,2,3-Trichloropropane	75	17.110	17.110	0.0	89	1464741	9.23	
90	n-Decane	57	17.126	17.126	0.0	76	1491919	9.14	
91	4-Ethyltoluene	105	17.206	17.206	0.0	84	5029334	9.18	
92	2-Chlorotoluene	91	17.254	17.254	0.0	94	3728814	8.98	
93	1,3,5-Trimethylbenzene	105	17.276	17.276	0.0	94	4186124	9.19	
94	Alpha Methyl Styrene	118	17.553	17.553	0.0	90	2363471	9.78	
95	tert-Butylbenzene	119	17.660	17.660	0.0	91	4253784	9.22	
96	1,2,4-Trimethylbenzene	105	17.729	17.729	0.0	95	4230533	8.98	
97	sec-Butylbenzene	105	17.922	17.922	0.0	99	6133082	9.10	
98	4-Isopropyltoluene	119	18.076	18.076	0.0	88	5386240	9.30	
99	1,3-Dichlorobenzene	146	18.162	18.162	0.0	99	3266396	9.37	
100	1,4-Dichlorobenzene	146	18.274	18.274	0.0	96	3271483	9.43	
101	Benzyl chloride	91	18.439	18.439	0.0	99	3659208	9.65	
102	Undecane	57	18.535	18.535	0.0	86	1613238	9.16	
103	n-Butylbenzene	91	18.594	18.594	0.0	89	4312225	9.16	
104	1,2-Dichlorobenzene	146	18.776	18.776	0.0	99	3114885	9.36	
106	Dodecane	57	20.040	20.040	0.0	87	1379312	9.04	
107	1,2,4-Trichlorobenzene	180	21.225	21.225	0.0	93	2118634	9.13	
108	Hexachlorobutadiene	225	21.385	21.385	0.0	92	1686431	9.05	
109	Naphthalene	128	21.748	21.748	0.0	99	4962160	9.03	
110	1,2,3-Trichlorobenzene	180	22.239	22.239	0.0	95	1961237	9.85	

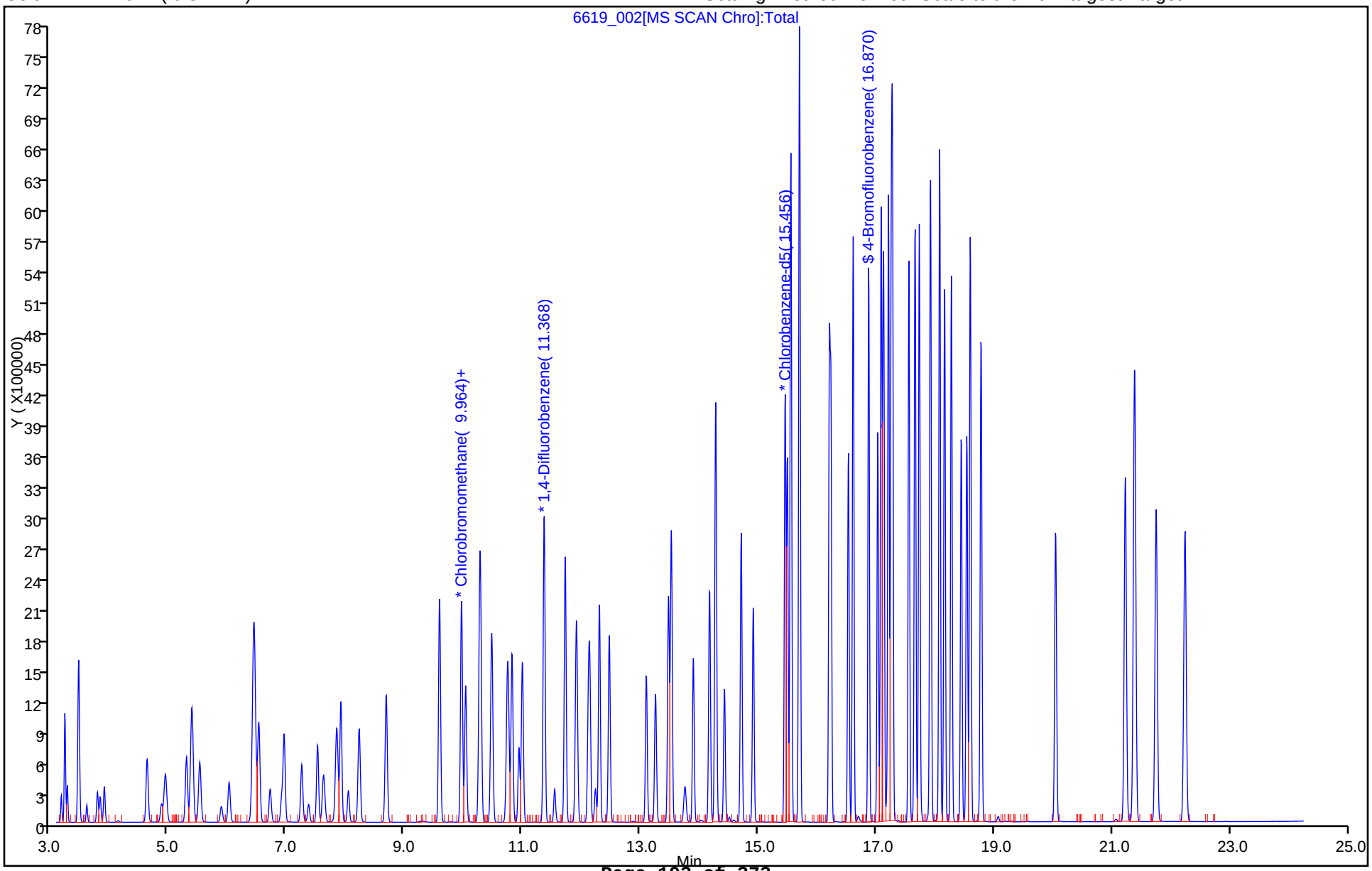
Report Date: 21-Mar-2014 09:42:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_002.D

Injection Date:	20-Mar-2014 10:27:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Lab Sample ID: CCVIS 200-69742/2 Calibration Date: 03/21/2014 10:04

Instrument ID: CHB.i Calib Start Date: 03/14/2014 12:11

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 03/14/2014 18:16

Lab File ID: 6635_002.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.1743	0.1514		8.69	10.0	-13.1	30.0
Dichlorodifluoromethane	Ave	1.460	1.453		9.95	10.0	-0.5	30.0
Freon 22	Ave	0.5424	0.4660		8.59	10.0	-14.1	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.403	1.253		8.93	10.0	-10.7	30.0
Chloromethane	Ave	0.2704	0.2281		8.43	10.0	-15.7	30.0
n-Butane	Ave	0.4504	0.3805		8.45	10.0	-15.5	30.0
Vinyl chloride	Ave	0.4616	0.3873		8.39	10.0	-16.1	30.0
1,3-Butadiene	Ave	0.3095	0.2659		8.59	10.0	-14.1	30.0
Bromomethane	Ave	0.8958	0.8286		9.25	10.0	-7.5	30.0
Chloroethane	Ave	0.3512	0.3299		9.39	10.0	-6.1	30.0
Isopentane	Ave	0.5170	0.4470		8.64	10.0	-13.5	30.0
Bromoethene(Vinyl Bromide)	Ave	1.028	0.9498		9.24	10.0	-7.6	30.0
Trichlorofluoromethane	Ave	2.551	2.447		9.59	10.0	-4.1	30.0
n-Pentane	Ave	0.9039	0.8760		9.69	10.0	-3.1	30.0
Ethanol	Ave	0.2261	0.2524		16.8	15.0	11.7	30.0
Ethyl ether	Ave	0.5349	0.4864		9.09	10.0	-9.1	30.0
Acrolein	Ave	0.2205	0.2218		10.1	10.0	0.6	30.0
Freon TF	Ave	2.227	1.983		8.90	10.0	-10.9	30.0
1,1-Dichloroethene	Ave	1.093	0.9641		8.82	10.0	-11.8	30.0
Acetone	Ave	0.8103	0.7950		9.81	10.0	-1.9	30.0
Isopropyl alcohol	Ave	0.7237	0.7157		9.89	10.0	-1.1	30.0
Carbon disulfide	Ave	2.452	2.249		9.17	10.0	-8.3	30.0
3-Chloropropene	Ave	0.7232	0.6698		9.26	10.0	-7.4	30.0
Acetonitrile	Ave	0.3573	0.3681		10.3	10.0	3.0	30.0
Methylene Chloride	Ave	0.6693	0.6344		9.48	10.0	-5.2	30.0
tert-Butyl alcohol	Ave	1.366	1.281		9.38	10.0	-6.2	30.0
Methyl tert-butyl ether	Ave	2.686	2.391		8.90	10.0	-11.0	30.0
trans-1,2-Dichloroethene	Ave	1.094	1.013		9.26	10.0	-7.4	30.0
Acrylonitrile	Ave	0.4834	0.4565		9.44	10.0	-5.6	30.0
n-Hexane	Ave	1.134	1.027		9.05	10.0	-9.5	30.0
1,1-Dichloroethane	Ave	1.514	1.317		8.70	10.0	-13.0	30.0
Vinyl acetate	Ave	1.362	1.390		10.2	10.0	2.1	30.0
cis-1,2-Dichloroethene	Ave	1.213	1.096		9.04	10.0	-9.6	30.0
Ethyl acetate	Ave	0.0884	0.0840		9.50	10.0	-5.0	30.0
Methyl Ethyl Ketone	Ave	0.4983	0.4245		8.52	10.0	-14.8	30.0
Tetrahydrofuran	Ave	0.1091	0.1176		10.8	10.0	7.9	30.0
Chloroform	Ave	2.101	1.896		9.03	10.0	-9.7	30.0
Cyclohexane	Ave	0.2942	0.2788		9.47	10.0	-5.2	30.0
1,1,1-Trichloroethane	Ave	0.4577	0.4398		9.61	10.0	-3.9	30.0
Carbon tetrachloride	Ave	0.5136	0.4707		9.16	10.0	-8.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Lab Sample ID: CCVIS 200-69742/2 Calibration Date: 03/21/2014 10:04

Instrument ID: CHB.i Calib Start Date: 03/14/2014 12:11

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 03/14/2014 18:16

Lab File ID: 6635_002.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.7462	0.7213		9.66	10.0	-3.3	30.0
Benzene	Ave	0.6528	0.6011		9.21	10.0	-7.9	30.0
1,2-Dichloroethane	Ave	0.2219	0.2096		9.44	10.0	-5.6	30.0
n-Heptane	Ave	0.2147	0.2079		9.68	10.0	-3.1	30.0
n-Butanol	Ave	0.0798	0.0776		9.73	10.0	-2.7	30.0
Trichloroethene	Ave	0.3255	0.2943		9.04	10.0	-9.6	30.0
1,2-Dichloropropane	Ave	0.1898	0.1813		9.55	10.0	-4.5	30.0
Methyl methacrylate	Ave	0.1966	0.1963		9.98	10.0	-0.1	30.0
1,4-Dioxane	Ave	0.1073	0.1018		9.49	10.0	-5.1	30.0
Dibromomethane	Ave	0.3400	0.3267		9.61	10.0	-3.9	30.0
Bromodichloromethane	Ave	0.4673	0.4502		9.63	10.0	-3.7	30.0
cis-1,3-Dichloropropene	Ave	0.3405	0.3181		9.34	10.0	-6.6	30.0
methyl isobutyl ketone	Ave	0.2634	0.2734		10.4	10.0	3.8	30.0
n-Octane	Ave	0.2911	0.2861		9.83	10.0	-1.7	30.0
Toluene	Ave	0.6191	0.5487		8.86	10.0	-11.4	30.0
trans-1,3-Dichloropropene	Ave	0.3507	0.3357		9.57	10.0	-4.3	30.0
1,1,2-Trichloroethane	Ave	0.2741	0.2476		9.03	10.0	-9.6	30.0
Tetrachloroethene	Ave	0.6108	0.5515		9.03	10.0	-9.7	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2987	0.2905		9.72	10.0	-2.7	30.0
Dibromochloromethane	Ave	0.6682	0.6344		9.49	10.0	-5.1	30.0
1,2-Dibromoethane	Ave	0.5825	0.5342		9.17	10.0	-8.3	30.0
Chlorobenzene	Ave	0.9196	0.8112		8.82	10.0	-11.8	30.0
n-Nonane	Ave	0.3979	0.3647		9.16	10.0	-8.3	30.0
Ethylbenzene	Ave	1.244	1.174		9.43	10.0	-5.7	30.0
m,p-Xylene	Ave	0.5474	0.5184		18.9	20.0	-5.3	30.0
Xylene, o-	Ave	0.5671	0.5214		9.19	10.0	-8.1	30.0
Styrene	Ave	0.8660	0.8096		9.35	10.0	-6.5	30.0
Bromoform	Ave	0.6560	0.6694		10.2	10.0	2.0	30.0
Cumene	Ave	1.610	1.498		9.30	10.0	-6.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7149	0.6641		9.29	10.0	-7.1	30.0
n-Propylbenzene	Ave	1.780	1.679		9.43	10.0	-5.7	30.0
1,2,3-Trichloropropane	Ave	0.4684	0.4639		9.90	10.0	-1.0	30.0
n-Decane	Ave	0.4818	0.4837		10.0	10.0	0.4	30.0
4-Ethyltoluene	Ave	1.617	1.509		9.33	10.0	-6.7	30.0
2-Chlorotoluene	Ave	1.226	1.163		9.49	10.0	-5.1	30.0
1,3,5-Trimethylbenzene	Ave	1.345	1.265		9.40	10.0	-6.0	30.0
Alpha Methyl Styrene	Ave	0.7136	0.6900		9.67	10.0	-3.3	30.0
tert-Butylbenzene	Ave	1.363	1.267		9.30	10.0	-7.0	30.0
1,2,4-Trimethylbenzene	Ave	1.390	1.272		9.15	10.0	-8.5	30.0
sec-Butylbenzene	Ave	1.989	1.854		9.32	10.0	-6.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Lab Sample ID: CCVIS 200-69742/2 Calibration Date: 03/21/2014 10:04

Instrument ID: CHB.i Calib Start Date: 03/14/2014 12:11

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 03/14/2014 18:16

Lab File ID: 6635_002.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.710	1.609		9.41	10.0	-5.9	30.0
1,3-Dichlorobenzene	Ave	1.029	0.9759		9.48	10.0	-5.1	30.0
1,4-Dichlorobenzene	Ave	1.024	0.9765		9.53	10.0	-4.7	30.0
Benzyl chloride	Ave	1.120	1.105		9.87	10.0	-1.3	30.0
n-Undecane	Ave	0.5203	0.5408		10.4	10.0	3.9	30.0
n-Butylbenzene	Ave	1.390	1.330		9.56	10.0	-4.3	30.0
1,2-Dichlorobenzene	Ave	0.9822	0.9297		9.46	10.0	-5.3	30.0
n-Dodecane	Ave	0.4505	0.4384		9.73	10.0	-2.7	30.0
1,2,4-Trichlorobenzene	Ave	0.6850	0.6063		8.85	10.0	-11.5	30.0
Hexachlorobutadiene	Ave	0.5499	0.5122		9.31	10.0	-6.9	30.0
Naphthalene	Ave	1.622	1.396		8.61	10.0	-13.9	30.0
1,2,3-Trichlorobenzene	Ave	0.5882	0.5414		9.20	10.0	-8.0	30.0

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_002.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 21-Mar-2014 10:04:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006635-002
Misc. Info.: ccvis
Operator ID: pad Instrument ID: CHB.i
Sublist: chrom-TO15_LLNJ_TO3*sub5

Method: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 24-Mar-2014 12:20:06 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK008

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.170	3.170	0.0	96	104004	8.69	
5 Dichlorodifluoromethane	85	3.229	3.229	0.0	88	998242	9.95	
6 Chlorodifluoromethane	51	3.272	3.272	0.0	77	320050	8.59	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.464	3.464	0.0	85	860505	8.93	
8 Chloromethane	50	3.603	3.603	0.0	99	156673	8.43	
9 Butane	43	3.784	3.784	0.0	95	261299	8.45	
10 Vinyl chloride	62	3.832	3.832	0.0	96	266002	8.39	
11 Butadiene	54	3.902	3.902	0.0	89	182606	8.59	
13 BFB								
12 Bromomethane	94	4.627	4.627	0.0	99	569103	9.25	
14 Chloroethane	64	4.868	4.868	0.0	98	226542	9.39	
15 2-Methylbutane	43	4.937	4.937	0.0	88	306983	8.64	
16 Vinyl bromide	106	5.295	5.295	0.0	98	652349	9.24	
17 Trichlorofluoromethane	101	5.385	5.385	0.0	98	1680707	9.59	
18 Pentane	43	5.519	5.519	0.0	95	601609	9.69	
19 Ethanol	45	5.882	5.882	0.0	99	260152	16.8	
21 Ethyl ether	59	6.020	6.020	0.0	89	334042	9.09	
22 Acrolein	56	6.431	6.431	0.0	95	152308	10.1	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.437	6.437	0.0	96	1362046	8.90	
24 1,1-Dichloroethene	96	6.522	6.522	0.0	88	662153	8.82	
25 Acetone	43	6.714	6.714	0.0	91	545979	9.81	
26 Isopropyl alcohol	45	6.912	6.912	0.0	98	491529	9.89	
27 Carbon disulfide	76	6.949	6.949	0.0	98	1544677	9.17	
29 3-Chloro-1-propene	41	7.248	7.248	0.0	85	460042	9.26	
30 Acetonitrile	41	7.365	7.365	0.0	100	252843	10.3	
31 Methylene Chloride	49	7.520	7.520	0.0	76	435731	9.48	
32 2-Methyl-2-propanol	59	7.616	7.616	0.0	98	880008	9.38	
33 Methyl tert-butyl ether	73	7.846	7.846	0.0	95	1642108	8.90	
34 trans-1,2-Dichloroethene	61	7.915	7.915	0.0	83	695987	9.26	
35 Acrylonitrile	53	8.043	8.043	0.0	95	313553	9.44	
36 Hexane	57	8.224	8.224	0.0	85	705450	9.05	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
37 1,1-Dichloroethane	63	8.678	8.678	0.0	99	904779	8.70
38 Vinyl acetate	43	8.689	8.689	0.0	98	954518	10.2
41 Ethyl acetate	88	9.585	9.585	0.0	89	57706	9.50
39 cis-1,2-Dichloroethene	96	9.585	9.585	0.0	94	752588	9.04
40 2-Butanone (MEK)	72	9.591	9.591	0.0	99	291542	8.52
43 Tetrahydrofuran	42	9.954	9.954	0.0	79	382003	10.8
* 44 Chlorobromomethane	128	9.964	9.964	0.0	68	686942	10.0
S 42 1,2-Dichloroethene, Total	61				0		18.3
45 Chloroform	83	10.034	10.034	0.0	98	1302468	9.03
46 Cyclohexane	84	10.274	10.274	0.0	78	905243	9.47
47 1,1,1-Trichloroethane	97	10.279	10.279	0.0	93	1428305	9.61
48 Carbon tetrachloride	117	10.471	10.471	0.0	97	1528627	9.16
49 Isooctane	57	10.744	10.744	0.0	99	2342489	9.66
50 Benzene	78	10.818	10.818	0.0	92	1952110	9.21
51 1,2-Dichloroethane	62	10.936	10.936	0.0	98	680644	9.44
52 n-Heptane	43	10.994	10.994	0.0	77	675178	9.68
A 53 GRO	1	11.032	4.927 -	17.136	0	238996100	0
* 54 1,4-Difluorobenzene	114	11.363	11.363	0.0	91	3248187	10.0
56 n-Butanol	56	11.539	11.539	0.0	80	252101	9.73
57 Trichloroethene	95	11.720	11.720	0.0	93	955898	9.04
58 1,2-Dichloropropane	63	12.115	12.115	0.0	92	588849	9.55
59 Methyl methacrylate	69	12.142	12.142	0.0	83	637621	9.98
60 1,4-Dioxane	88	12.233	12.233	0.0	84	330679	9.49
61 Dibromomethane	174	12.302	12.302	0.0	90	1060971	9.61
62 Dichlorobromomethane	83	12.467	12.467	0.0	97	1462123	9.63
A 63 TVOC as Toluene	1	12.702	3.160 -	22.244	0	421725543	2097.2
64 cis-1,3-Dichloropropene	75	13.097	13.097	0.0	85	1033040	9.34
65 4-Methyl-2-pentanone (MIBK)	43	13.252	13.252	0.0	89	887900	10.4
A 66 C8 Range	1	13.454	13.421 -	13.501	0	4981318	NC
67 n-Octane	43	13.471	13.471	0.0	77	929245	9.83
68 Toluene	92	13.519	13.519	0.0	91	1630997	8.86
A 69 Toluene Range	1	13.534	13.509 -	13.559	0	5905203	NC
70 trans-1,3-Dichloropropene	75	13.892	13.892	0.0	91	1090110	9.57
71 1,1,2-Trichloroethane	83	14.170	14.170	0.0	93	736148	9.03
72 Tetrachloroethene	166	14.277	14.277	0.0	96	1639303	9.03
73 2-Hexanone	43	14.421	14.421	0.0	87	863686	9.72
74 Chlorodibromomethane	129	14.709	14.709	0.0	97	1885895	9.49
75 Ethylene Dibromide	107	14.912	14.912	0.0	99	1588044	9.17
* 76 Chlorobenzene-d5	117	15.451	15.451	0.0	76	2973257	10.0
77 Chlorobenzene	112	15.488	15.488	0.0	96	2411542	8.82
78 n-Nonane	57	15.547	15.547	0.0	77	1084194	9.16
79 Ethylbenzene	91	15.552	15.552	0.0	96	3488994	9.43
80 m-Xylene & p-Xylene	106	15.696	15.696	0.0	98	3082208	18.9
S 81 Xylenes, Total	106				0		28.1
82 o-Xylene	106	16.203	16.203	0.0	95	1550029	9.19
83 Styrene	104	16.230	16.230	0.0	97	2406807	9.35
84 Bromoform	173	16.523	16.523	0.0	99	1989830	10.2
85 Isopropylbenzene	105	16.609	16.609	0.0	93	4452368	9.30
$ 86 4-Bromofluorobenzene	95	16.870	16.870	0.0	98	1978374	NC
87 1,1,2,2-Tetrachloroethane	83	17.025	17.025	0.0	96	1974099	9.29
88 N-Propylbenzene	91	17.078	17.078	0.0	98	4992312	9.43
89 1,2,3-Trichloropropane	75	17.110	17.110	0.0	89	1379011	9.90

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
90	n-Decane	57	17.126	17.126	0.0	77	1437900	10.0
91	4-Ethyltoluene	105	17.207	17.207	0.0	97	4485656	9.33
92	2-Chlorotoluene	91	17.249	17.249	0.0	96	3458618	9.49
93	1,3,5-Trimethylbenzene	105	17.271	17.271	0.0	93	3759913	9.40
94	Alpha Methyl Styrene	118	17.553	17.553	0.0	90	2051214	9.67
95	tert-Butylbenzene	119	17.655	17.655	0.0	92	3766158	9.30
96	1,2,4-Trimethylbenzene	105	17.730	17.730	0.0	95	3781477	9.15
97	sec-Butylbenzene	105	17.916	17.916	0.0	99	5511762	9.32
98	4-Isopropyltoluene	119	18.071	18.071	0.0	88	4783190	9.41
99	1,3-Dichlorobenzene	146	18.156	18.156	0.0	99	2901047	9.48
100	1,4-Dichlorobenzene	146	18.274	18.274	0.0	97	2902786	9.53
101	Benzyl chloride	91	18.439	18.439	0.0	99	3284444	9.87
102	Undecane	57	18.535	18.535	0.0	86	1607662	10.4
103	n-Butylbenzene	91	18.594	18.594	0.0	94	3953812	9.56
104	1,2-Dichlorobenzene	146	18.776	18.776	0.0	99	2763593	9.46
106	Dodecane	57	20.040	20.040	0.0	88	1303235	9.73
107	1,2,4-Trichlorobenzene	180	21.225	21.225	0.0	93	1802189	8.85
108	Hexachlorobutadiene	225	21.380	21.380	0.0	93	1522714	9.31
109	Naphthalene	128	21.748	21.748	0.0	99	4150009	8.61
110	1,2,3-Trichlorobenzene	180	22.234	22.234	0.0	95	1609342	9.20

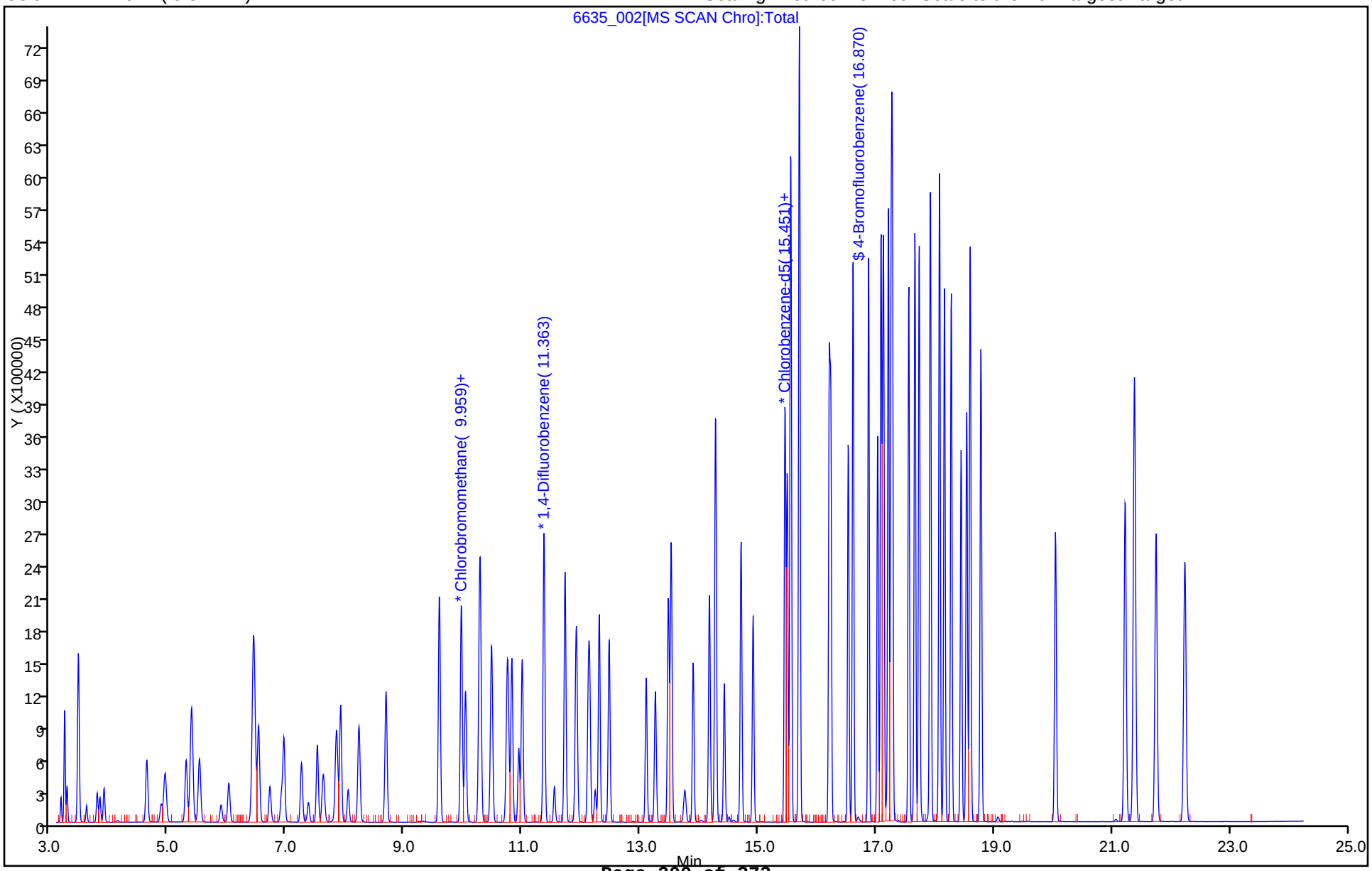
Report Date: 24-Mar-2014 12:20:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_002.D

Injection Date:	21-Mar-2014 10:04:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_001.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 14-Mar-2014 10:21:30 ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006557-001
Misc. Info.: bfb
Operator ID: pad Instrument ID: CHB.i

Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 17-Mar-2014 10:55:01 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

	Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
	13 BFB								
*	44 Chlorobromomethane	128	8.558	8.558	0.0	1	35	10.0	s
*	54 1,4-Difluorobenzene	114		11.368					
*	76 Chlorobenzene-d5	117		15.456					
$	86 4-Bromofluorobenzene	95		16.870					

QC Flag Legend

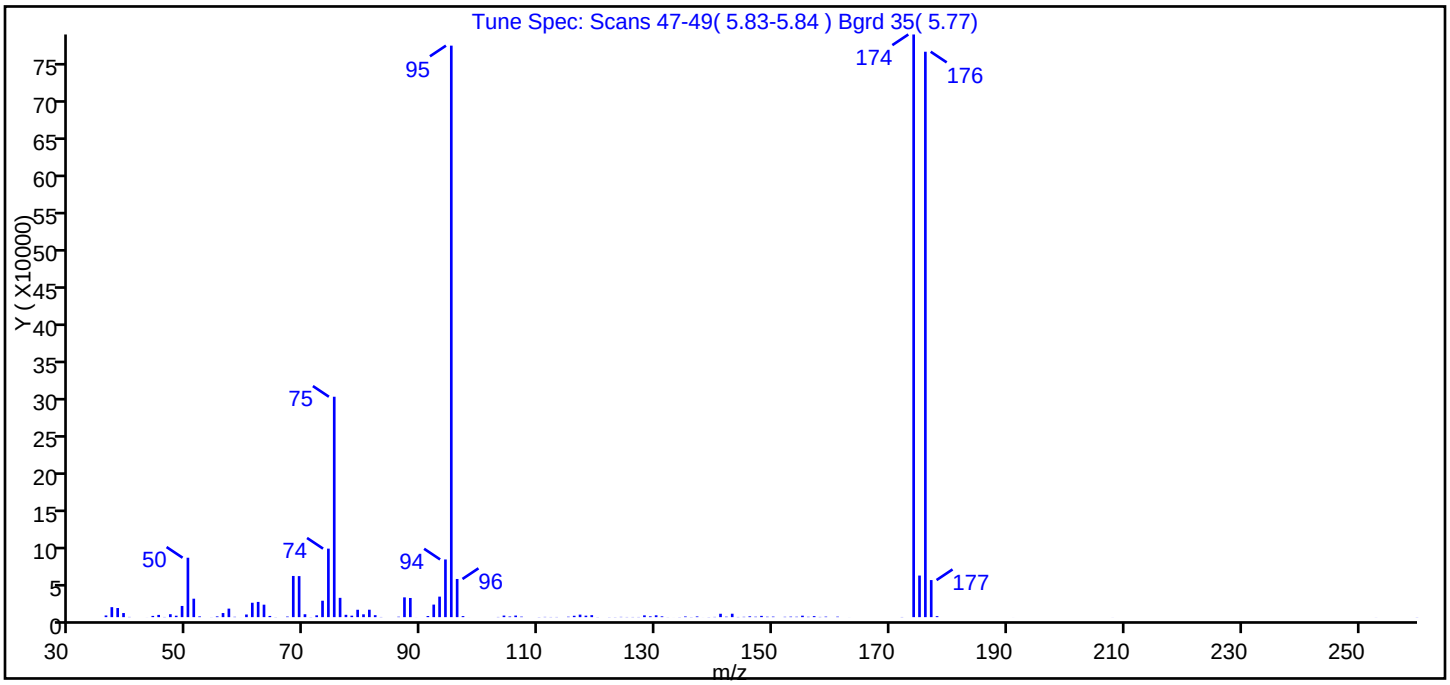
Processing Flags
s - Failed ISTD Recovery Test

MS Tune Report

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_001.D
Injection Date: 14-Mar-2014 10:21:30 Instrument ID: CHB.i
Lims ID: BFB
Client ID:
Operator ID: pad ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
Tune Method: BFB Method TO-15

13 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	10.40
75	30.00 - 66.00% of mass 95	38.60
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	102.00
175	4.00 - 9.00% of mass 174	7.30 (7.10)
176	93.00 - 101.00% of mass 174	98.90 (97.00)
177	5.00 - 9.00% of mass 176	6.50 (6.60)

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_001.D\TO15_LLNJ_TO3.rslt\spectra.d
Injection Date: 14-Mar-2014 10:21:30
Spectrum: Tune Spec: Scans 47-49(5.83-5.84) Bgrd 35(5.77)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 121

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2250	71.00	180	111.00	329	144.00	256
37.00	13448	72.00	2438	112.00	225	145.00	432
38.00	12293	73.00	22112	113.00	237	146.00	1104
39.00	5536	74.00	92272	115.00	575	147.00	588
40.00	293	75.00	296832	116.00	1856	148.00	1722
43.00	46	76.00	26000	117.00	3376	149.00	555
44.00	1687	77.00	3143	118.00	2013	150.00	709
45.00	3018	78.00	1984	119.00	2673	152.00	453
46.00	240	79.00	9938	120.00	137	153.00	693
47.00	3951	80.00	3784	122.00	156	154.00	543
48.00	1938	81.00	10006	123.00	167	155.00	1956
49.00	15077	82.00	2639	124.00	348	156.00	476
50.00	80016	83.00	230	125.00	230	157.00	1368
51.00	24840	86.00	562	126.00	235	158.00	302
52.00	970	87.00	26640	127.00	234	159.00	702
54.00	91	88.00	25824	128.00	2411	161.00	674
55.00	1022	89.00	41	129.00	1078	163.00	39
56.00	5541	91.00	1504	130.00	2465	172.00	221
57.00	11479	92.00	16912	131.00	1075	174.00	784704
58.00	442	93.00	27640	132.00	105	175.00	56008
59.00	34	94.00	77704	133.00	29	176.00	761472
60.00	3553	95.00	769664	134.00	169	177.00	49936
61.00	19392	96.00	51392	135.00	907	178.00	1312
62.00	20512	97.00	1412	136.00	188	191.00	30
63.00	16792	98.00	34	137.00	961	208.00	54
64.00	1613	103.00	264	138.00	34	209.00	6
65.00	156	104.00	2119	139.00	171	253.00	67
67.00	792	105.00	885	140.00	312	260.00	137
68.00	55480	106.00	2124	141.00	4559		
69.00	55272	107.00	675	142.00	611		
70.00	3920	110.00	196	143.00	4620		

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_001.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 20-Mar-2014 09:34:30 ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006619-001
Misc. Info.: bfb
Operator ID: pad Instrument ID: CHB.i

Method: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 21-Mar-2014 09:42:19 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK031

	Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
	13 BFB								
*	44 Chlorobromomethane	128	8.707	8.707	0.0	1	41	10.0	s
*	54 1,4-Difluorobenzene	114		11.368					
*	76 Chlorobenzene-d5	117		15.456					
$	86 4-Bromofluorobenzene	95		16.870					

QC Flag Legend

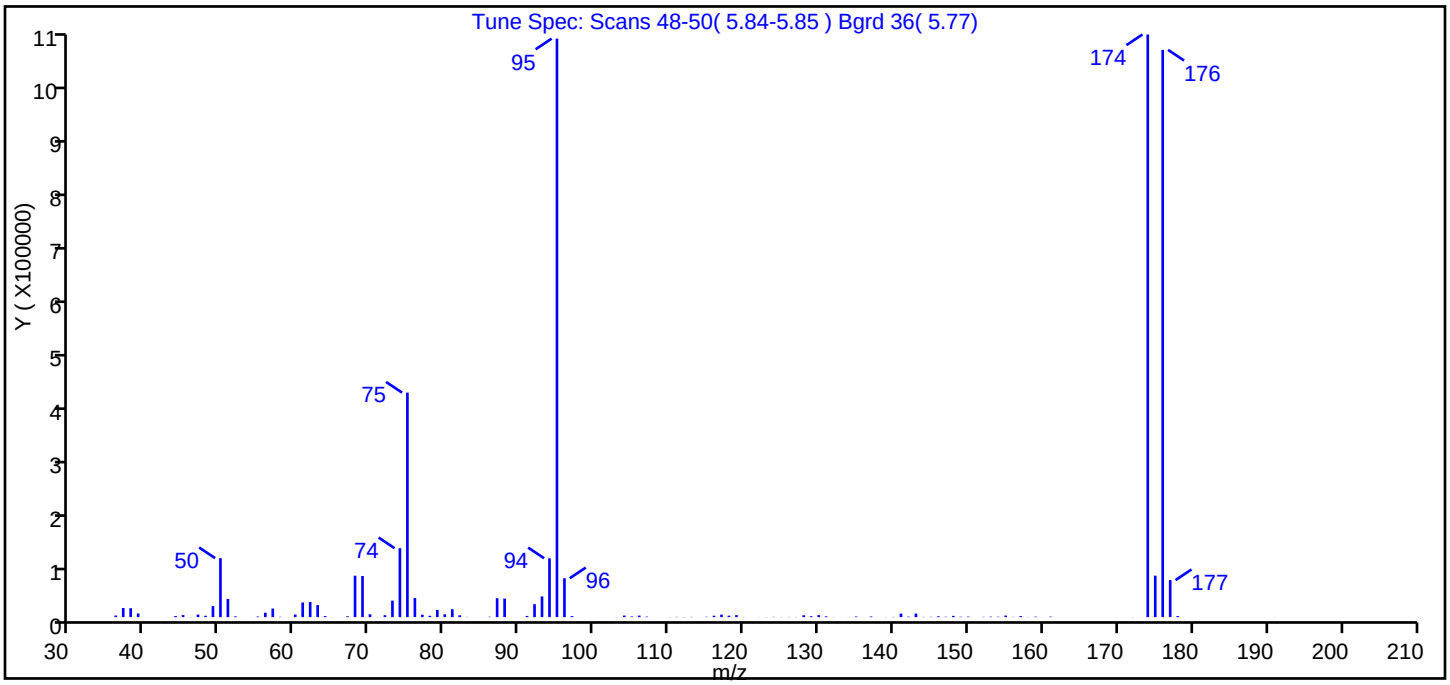
Processing Flags
s - Failed ISTD Recovery Test

MS Tune Report

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_001.D
Injection Date: 20-Mar-2014 09:34:30 Instrument ID: CHB.i
Lims ID: BFB
Client ID:
Operator ID: pad ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
Tune Method: BFB Method TO-15

13 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	10.20
75	30.00 - 66.00% of mass 95	38.80
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	100.70
175	4.00 - 9.00% of mass 174	7.20 (7.10)
176	93.00 - 101.00% of mass 174	98.10 (97.40)
177	5.00 - 9.00% of mass 176	6.40 (6.50)

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_001.D\TO15_LLNJ_TO3.rslt\spectra.d
Injection Date: 20-Mar-2014 09:34:30
Spectrum: Tune Spec: Scans 48-50(5.84-5.85) Bgrd 36(5.77)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 118

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2916	69.00	73648	110.00	234	143.00	6424
37.00	16350	70.00	5139	111.00	481	144.00	359
38.00	15953	71.00	151	112.00	259	145.00	546
39.00	6558	72.00	3484	113.00	396	146.00	1507
41.00	5	73.00	29496	115.00	650	147.00	662
43.00	161	74.00	123312	116.00	2510	148.00	2307
44.00	1952	75.00	401664	117.00	4447	149.00	733
45.00	3768	76.00	34184	118.00	2666	150.00	946
46.00	298	77.00	4295	119.00	3598	152.00	508
47.00	4598	78.00	2409	120.00	204	153.00	866
48.00	2480	79.00	12906	122.00	188	154.00	732
49.00	19728	80.00	5094	123.00	251	155.00	2814
50.00	105536	81.00	14126	124.00	516	156.00	440
51.00	32640	82.00	3296	125.00	265	157.00	1816
52.00	1424	83.00	333	126.00	316	158.00	233
53.00	51	86.00	661	127.00	271	159.00	892
54.00	91	87.00	33896	128.00	3355	161.00	885
55.00	1132	88.00	33224	129.00	1642	162.00	38
56.00	7928	91.00	2153	130.00	3599	170.00	79
57.00	15290	92.00	23160	131.00	1411	172.00	195
58.00	609	93.00	37080	132.00	213	174.00	1042304
59.00	34	94.00	105320	133.00	113	175.00	74224
60.00	4685	95.00	1034880	134.00	169	176.00	1014784
61.00	26248	96.00	69600	135.00	1155	177.00	66264
62.00	27128	97.00	1910	136.00	124	178.00	1912
63.00	21560	103.00	239	137.00	1183	191.00	171
64.00	1933	104.00	2851	139.00	234	208.00	10
65.00	237	105.00	1163	140.00	424	209.00	13
67.00	1539	106.00	2772	141.00	6331		
68.00	74160	107.00	903	142.00	875		

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_001.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	21-Mar-2014 09:11:30	ALS Bottle#:	1	Worklist Smp#:	1
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	200-0006635-001				
Misc. Info.:	bfb				
Operator ID:	pad	Instrument ID:	CHB.i		
Method:	\\Btv-lims1\chromdata\CHB.i\20140321-6635.b\TO15_LLNJ_TO3.m				
Limit Group:	AI_TO15_ICAL				
Last Update:	24-Mar-2014 12:20:05	Calib Date:	14-Mar-2014 18:16:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D				
Column 1 :	RTX-624 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK008				

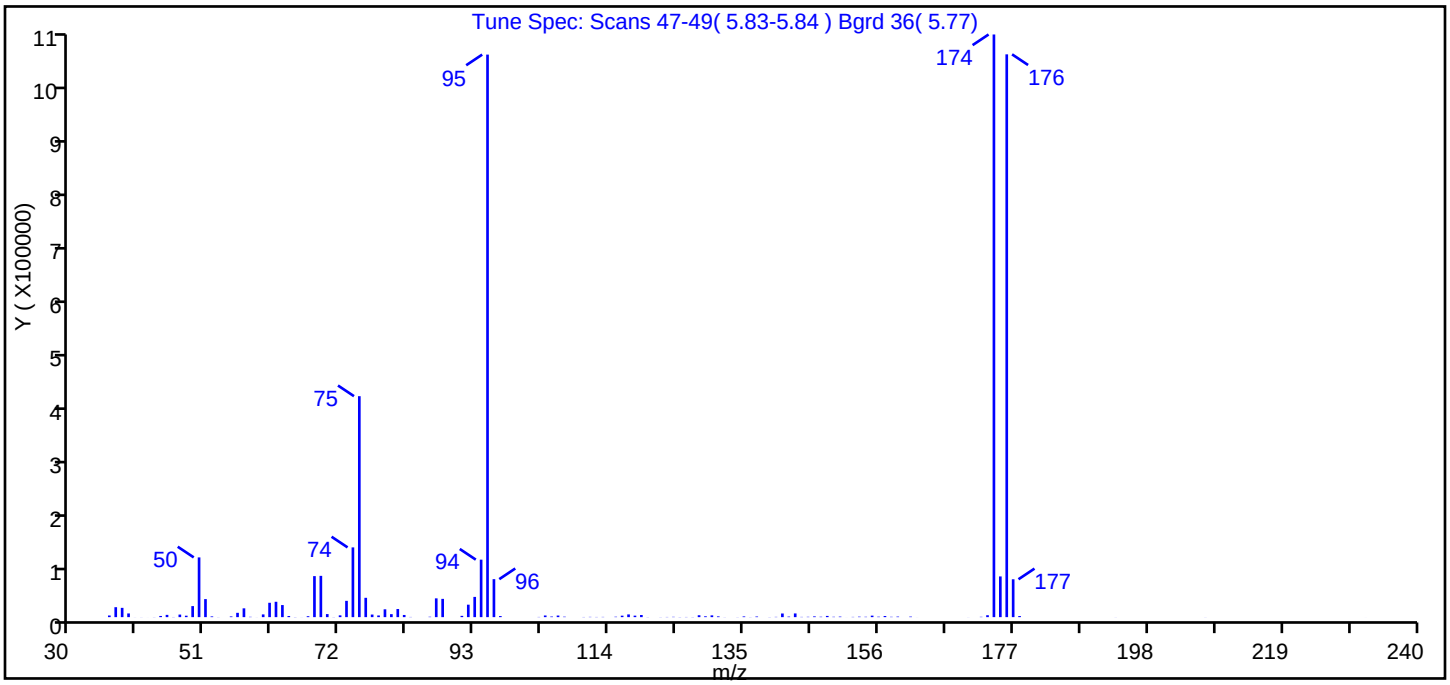
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
13 BFB								
* 44 Chlorobromomethane	128	9.964						
* 54 1,4-Difluorobenzene	114	11.363						
* 76 Chlorobenzene-d5	117	15.451						
$ 86 4-Bromofluorobenzene	95	16.870						

MS Tune Report

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_001.D
Injection Date: 21-Mar-2014 09:11:30 Instrument ID: CHB.i
Lims ID: BFB
Client ID:
Operator ID: pad ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
Tune Method: BFB Method TO-15

13 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	10.60
75	30.00 - 66.00% of mass 95	39.30
96	5.00 - 9.00% of mass 95	6.80
173	Less than 2.00% of mass 174	0.30 (0.30)
174	50.00 - 120.00% of mass 95	103.60
175	4.00 - 9.00% of mass 174	7.20 (7.00)
176	93.00 - 101.00% of mass 174	100.00 (96.60)
177	5.00 - 9.00% of mass 176	6.70 (6.70)

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_001.D\TO15_LLNJ_TO3.rslt\spectra.d
Injection Date: 21-Mar-2014 09:11:30
Spectrum: Tune Spec: Scans 47-49(5.83-5.84) Bgrd 36(5.77)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 121

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2922	68.00	72560	110.00	293	145.00	592
37.00	17600	69.00	73016	111.00	474	146.00	1332
38.00	16432	70.00	5390	112.00	333	147.00	725
39.00	6539	71.00	208	113.00	416	148.00	2155
40.00	84	72.00	3146	115.00	743	149.00	632
41.00	116	73.00	28816	116.00	2610	150.00	957
42.00	41	74.00	123352	117.00	4806	151.00	39
43.00	175	75.00	390784	118.00	2642	152.00	427
44.00	2093	76.00	34184	119.00	3751	153.00	838
45.00	4016	77.00	4592	120.00	185	154.00	644
46.00	274	78.00	2965	122.00	182	155.00	2656
47.00	4536	79.00	13877	123.00	330	156.00	792
48.00	2561	80.00	5278	124.00	546	157.00	1977
49.00	19536	81.00	14357	125.00	258	158.00	596
50.00	105672	82.00	3835	126.00	312	159.00	969
51.00	31920	83.00	344	127.00	248	161.00	960
52.00	1290	86.00	703	128.00	3354	162.00	42
53.00	150	87.00	33224	129.00	1521	170.00	86
55.00	1253	88.00	32320	130.00	3148	172.00	580
56.00	7632	91.00	2281	131.00	1320	173.00	3391
57.00	15572	92.00	22040	132.00	153	174.00	1030464
58.00	546	93.00	35800	134.00	166	175.00	72008
59.00	72	94.00	101688	135.00	1249	176.00	995328
60.00	4838	95.00	994880	136.00	187	177.00	66976
61.00	25400	96.00	67176	137.00	1112	178.00	1895
62.00	27168	97.00	1880	139.00	213	193.00	99
63.00	21360	103.00	353	140.00	471	207.00	106
64.00	1952	104.00	2920	141.00	6454	232.00	35
65.00	246	105.00	1077	142.00	952		
66.00	71	106.00	2831	143.00	6549		
67.00	1629	107.00	802	144.00	428		

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: Lab Sample ID: MB 200-69697/4

Matrix: Air Lab File ID: 6619_004.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 12:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69697 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	120.91	0.50	U	0.50	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	
74-87-3	Chloromethane	50.49	0.50	U	0.50	
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	
74-83-9	Bromomethane	94.94	0.20	U	0.20	
75-00-3	Chloroethane	64.52	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	137.37	0.20	U	0.20	
76-13-1	Freon TF	187.38	0.20	U	0.20	
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	
67-64-1	Acetone	58.08	5.0	U	5.0	
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	
75-09-2	Methylene Chloride	84.93	0.50	U	0.50	
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	
110-54-3	n-Hexane	86.17	0.20	U	0.20	
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	
78-93-3	Methyl Ethyl Ketone	72.11	0.50	U	0.50	
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	
67-66-3	Chloroform	119.38	0.20	U	0.20	
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	
110-82-7	Cyclohexane	84.16	0.20	U	0.20	
56-23-5	Carbon tetrachloride	153.81	0.20	U	0.20	
71-43-2	Benzene	78.11	0.20	U	0.20	
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	
142-82-5	n-Heptane	100.21	0.20	U	0.20	
79-01-6	Trichloroethene	131.39	0.20	U	0.20	
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	
108-88-3	Toluene	92.14	0.20	U	0.20	
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: Lab Sample ID: MB 200-69697/4

Matrix: Air Lab File ID: 6619_004.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 12:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69697 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	
100-41-4	Ethylbenzene	106.17	0.20	U	0.20	
179601-23-1	m,p-Xylene	106.17	0.50	U	0.50	
95-47-6	Xylene, o-	106.17	0.20	U	0.20	
100-42-5	Styrene	104.15	0.20	U	0.20	
75-25-2	Bromoform	252.75	0.20	U	0.20	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20	U	0.20	
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: Lab Sample ID: MB 200-69697/4

Matrix: Air Lab File ID: 6619_004.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 12:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69697 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	120.91	2.5	U	2.5	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	
74-87-3	Chloromethane	50.49	1.0	U	1.0	
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	
74-83-9	Bromomethane	94.94	0.78	U	0.78	
75-00-3	Chloroethane	64.52	1.3	U	1.3	
75-69-4	Trichlorofluoromethane	137.37	1.1	U	1.1	
76-13-1	Freon TF	187.38	1.5	U	1.5	
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	
67-64-1	Acetone	58.08	12	U	12	
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	
75-09-2	Methylene Chloride	84.93	1.7	U	1.7	
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	
110-54-3	n-Hexane	86.17	0.70	U	0.70	
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	
78-93-3	Methyl Ethyl Ketone	72.11	1.5	U	1.5	
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	
67-66-3	Chloroform	119.38	0.98	U	0.98	
109-99-9	Tetrahydrofuran	72.11	15	U	15	
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	
110-82-7	Cyclohexane	84.16	0.69	U	0.69	
56-23-5	Carbon tetrachloride	153.81	1.3	U	1.3	
71-43-2	Benzene	78.11	0.64	U	0.64	
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	
142-82-5	n-Heptane	100.21	0.82	U	0.82	
79-01-6	Trichloroethene	131.39	1.1	U	1.1	
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	
108-88-3	Toluene	92.14	0.75	U	0.75	
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: Lab Sample ID: MB 200-69697/4

Matrix: Air Lab File ID: 6619_004.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 12:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69697 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	
100-41-4	Ethylbenzene	106.17	0.87	U	0.87	
179601-23-1	m,p-Xylene	106.17	2.2	U	2.2	
95-47-6	Xylene, o-	106.17	0.87	U	0.87	
100-42-5	Styrene	104.15	0.85	U	0.85	
75-25-2	Bromoform	252.75	2.1	U	2.1	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98	U	0.98	
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_004.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 20-Mar-2014 12:12:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006619-004
Misc. Info.: mb
Operator ID: pad Instrument ID: CHB.i

Method: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 21-Mar-2014 09:42:20 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK031

First Level Reviewer: daiglep Date: 21-Mar-2014 09:03:47

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
1 Difluoroethane TIC	51		3.150					
2 Chlorotrifluoroethene TIC	116		3.162					
4 Propene	41		3.176					
3 Freon 115 TIC	85		3.180					
5 Dichlorodifluoromethane	85		3.234					
6 Chlorodifluoromethane	51		3.277					
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.469					
8 Chloromethane	50		3.608					
9 Butane	43		3.789					
10 Vinyl chloride	62		3.832					
11 Butadiene	54		3.907					
12 Bromomethane	94		4.633					
14 Chloroethane	64		4.873					
15 2-Methylbutane	43	4.942	4.942	0.0	67	3794	0.0933	
16 Vinyl bromide	106		5.300					
17 Trichlorofluoromethane	101		5.391					
18 Pentane	43		5.524					
19 Ethanol	45		5.892					
21 Ethyl ether	59		6.020					
20 1,1,1-Trifluoro-2,2-dichloroetha	83		6.430					
22 Acrolein	56		6.437					
23 1,1,2-Trichloro-1,2,2-trifluoroe	101		6.442					
24 1,1-Dichloroethene	96		6.527					
25 Acetone	43		6.719					
26 Isopropyl alcohol	45		6.917					
27 Carbon disulfide	76		6.954					
28 Methyl Acetate TIC	43		7.200					
29 3-Chloro-1-propene	41		7.253					
30 Acetonitrile	41		7.371					
31 Methylene Chloride	49		7.520					
32 2-Methyl-2-propanol	59		7.621					

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Methyl tert-butyl ether	73		7.846				
34 trans-1,2-Dichloroethene	61		7.915				
35 Acrylonitrile	53		8.043				
36 Hexane	57		8.230				
37 1,1-Dichloroethane	63		8.683				
38 Vinyl acetate	43		8.689				
* 44 Chlorobromomethane	128	9.964	9.964	0.0	65	786800	10.0
39 cis-1,2-Dichloroethene	96		9.591				
41 Ethyl acetate	88		9.591				
40 2-Butanone (MEK)	72		9.596				
43 Tetrahydrofuran	42		9.959				
S 42 1,2-Dichloroethene, Total	61		10.000				
45 Chloroform	83		10.034				
46 Cyclohexane	84		10.274				
47 1,1,1-Trichloroethane	97		10.284				
48 Carbon tetrachloride	117		10.477				
49 Isooctane	57		10.749				
50 Benzene	78		10.824				
51 1,2-Dichloroethane	62		10.936				
52 n-Heptane	43		10.994				
A 53 GRO	1	11.034	4.932 -	17.136	0	394720	0
* 54 1,4-Difluorobenzene	114	11.363	11.368	-0.005	90	3876043	10.0
55 Methyl cyclohexane TIC	55		11.500				
56 n-Butanol	56		11.544				
57 Trichloroethene	95		11.720				
58 1,2-Dichloropropane	63		12.115				
59 Methyl methacrylate	69		12.142				
60 1,4-Dioxane	88		12.238				
61 Dibromomethane	174		12.302				
62 Dichlorobromomethane	83		12.473				
A 63 TVOC as Toluene	1	12.707	3.166 -	22.249	0	611207	2.55
64 cis-1,3-Dichloropropene	75		13.097				
65 4-Methyl-2-pentanone (MIBK)	43		13.257				
A 66 C8 Range	1	13.454	13.426	-13.506	0	688	NC
67 n-Octane	43		13.476				
68 Toluene	92		13.524				
A 69 Toluene Range	1	13.539	13.514	-13.564	0	850	NC
70 trans-1,3-Dichloropropene	75		13.898				
71 1,1,2-Trichloroethane	83		14.170				
72 Tetrachloroethene	166		14.276				
73 2-Hexanone	43		14.426				
74 Chlorodibromomethane	129		14.709				
75 Ethylene Dibromide	107		14.912				
* 76 Chlorobenzene-d5	117	15.451	15.456	-0.005	80	3328327	10.0
77 Chlorobenzene	112		15.493				
78 n-Nonane	57		15.547				
79 Ethylbenzene	91		15.552				
80 m-Xylene & p-Xylene	106		15.696				
S 81 Xylenes, Total	106		16.000				
82 o-Xylene	106		16.203				
83 Styrene	104		16.230				
84 Bromoform	173		16.529				

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v	Flags
	85 Isopropylbenzene	105		16.609					
$	86 4-Bromofluorobenzene	95	16.870	16.870	0.0	98	1866752		NC
	87 1,1,2,2-Tetrachloroethane	83		17.025					
	88 N-Propylbenzene	91		17.084					
	89 1,2,3-Trichloropropane	75		17.110					
	90 n-Decane	57		17.126					
	91 4-Ethyltoluene	105		17.206					
	92 2-Chlorotoluene	91		17.254					
	93 1,3,5-Trimethylbenzene	105		17.276					
	94 Alpha Methyl Styrene	118		17.553					
	95 tert-Butylbenzene	119		17.660					
	96 1,2,4-Trimethylbenzene	105		17.729					
	97 sec-Butylbenzene	105		17.922					
	98 4-Isopropyltoluene	119		18.076					
	99 1,3-Dichlorobenzene	146		18.162					
	100 1,4-Dichlorobenzene	146		18.274					
	101 Benzyl chloride	91		18.439					
	102 Undecane	57		18.535					
	103 n-Butylbenzene	91		18.594					
	104 1,2-Dichlorobenzene	146		18.776					
	105 1,2-Dibromo-3-Chloropropane TIC	75		19.300					
	106 Dodecane	57		20.040					
	107 1,2,4-Trichlorobenzene	180		21.225					
	108 Hexachlorobutadiene	225		21.385					
	109 Naphthalene	128		21.748					
	110 1,2,3-Trichlorobenzene	180		22.239					
	111 Total Alkanes	1		0.0					

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

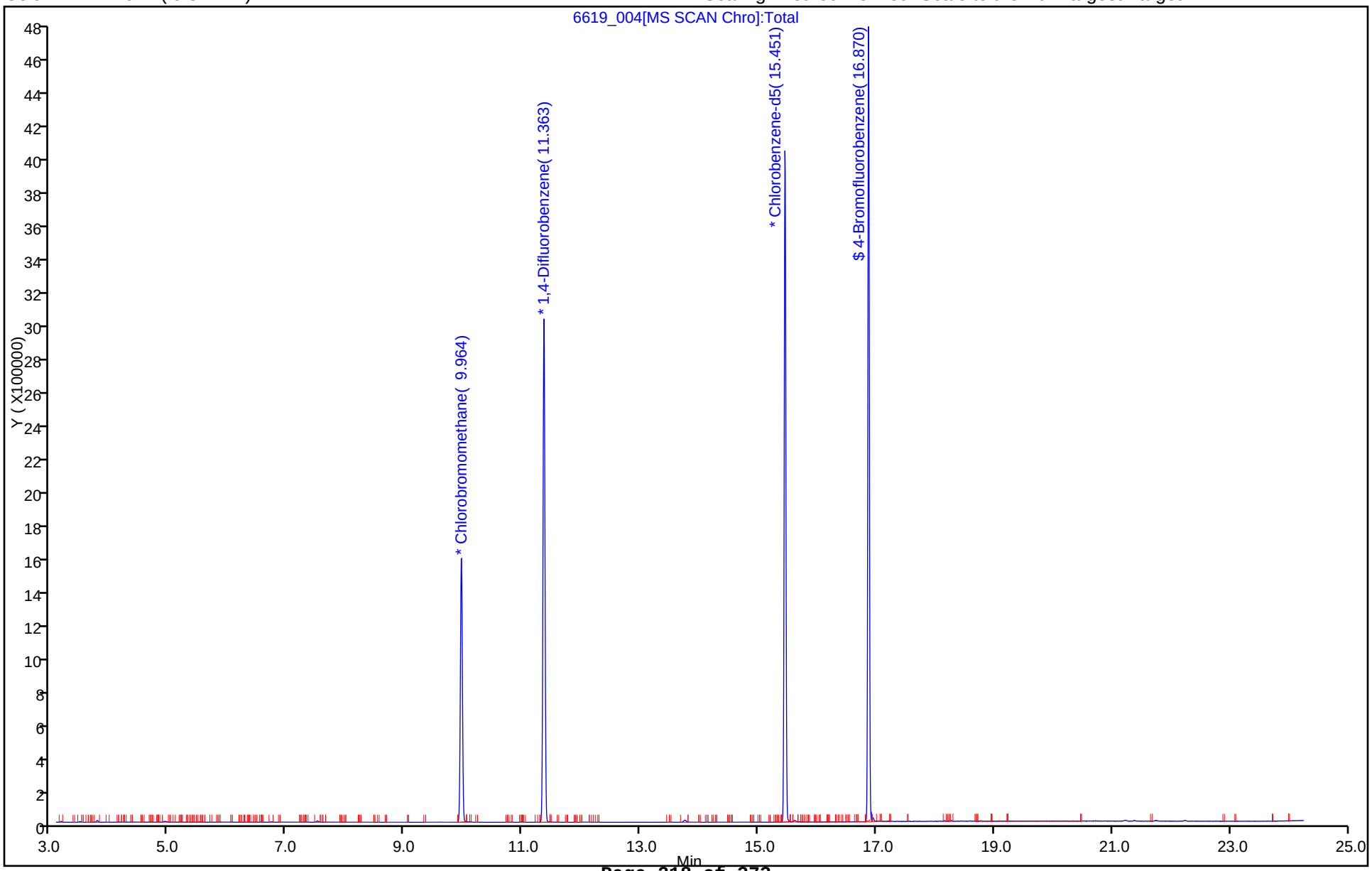
Report Date: 21-Mar-2014 09:42:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_004.D

Injection Date:	20-Mar-2014 12:12:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	MB			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: Lab Sample ID: MB 200-69742/4

Matrix: Air Lab File ID: 6635_004.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 11:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69742 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	120.91	0.50	U	0.50	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	
74-87-3	Chloromethane	50.49	0.50	U	0.50	
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	
74-83-9	Bromomethane	94.94	0.20	U	0.20	
75-00-3	Chloroethane	64.52	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	137.37	0.20	U	0.20	
76-13-1	Freon TF	187.38	0.20	U	0.20	
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	
67-64-1	Acetone	58.08	5.0	U	5.0	
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	
75-09-2	Methylene Chloride	84.93	0.50	U	0.50	
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	
110-54-3	n-Hexane	86.17	0.20	U	0.20	
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	
78-93-3	Methyl Ethyl Ketone	72.11	0.50	U	0.50	
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	
67-66-3	Chloroform	119.38	0.20	U	0.20	
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	
110-82-7	Cyclohexane	84.16	0.20	U	0.20	
56-23-5	Carbon tetrachloride	153.81	0.20	U	0.20	
71-43-2	Benzene	78.11	0.20	U	0.20	
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	
142-82-5	n-Heptane	100.21	0.20	U	0.20	
79-01-6	Trichloroethene	131.39	0.20	U	0.20	
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	
108-88-3	Toluene	92.14	0.20	U	0.20	
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: Lab Sample ID: MB 200-69742/4

Matrix: Air Lab File ID: 6635_004.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 11:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69742 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	
100-41-4	Ethylbenzene	106.17	0.20	U	0.20	
179601-23-1	m,p-Xylene	106.17	0.50	U	0.50	
95-47-6	Xylene, o-	106.17	0.20	U	0.20	
100-42-5	Styrene	104.15	0.20	U	0.20	
75-25-2	Bromoform	252.75	0.20	U	0.20	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20	U	0.20	
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: Lab Sample ID: MB 200-69742/4

Matrix: Air Lab File ID: 6635_004.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 11:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69742 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	120.91	2.5	U	2.5	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	
74-87-3	Chloromethane	50.49	1.0	U	1.0	
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	
74-83-9	Bromomethane	94.94	0.78	U	0.78	
75-00-3	Chloroethane	64.52	1.3	U	1.3	
75-69-4	Trichlorofluoromethane	137.37	1.1	U	1.1	
76-13-1	Freon TF	187.38	1.5	U	1.5	
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	
67-64-1	Acetone	58.08	12	U	12	
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	
75-09-2	Methylene Chloride	84.93	1.7	U	1.7	
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	
110-54-3	n-Hexane	86.17	0.70	U	0.70	
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	
78-93-3	Methyl Ethyl Ketone	72.11	1.5	U	1.5	
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	
67-66-3	Chloroform	119.38	0.98	U	0.98	
109-99-9	Tetrahydrofuran	72.11	15	U	15	
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	
110-82-7	Cyclohexane	84.16	0.69	U	0.69	
56-23-5	Carbon tetrachloride	153.81	1.3	U	1.3	
71-43-2	Benzene	78.11	0.64	U	0.64	
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	
142-82-5	n-Heptane	100.21	0.82	U	0.82	
79-01-6	Trichloroethene	131.39	1.1	U	1.1	
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	
108-88-3	Toluene	92.14	0.75	U	0.75	
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: Lab Sample ID: MB 200-69742/4

Matrix: Air Lab File ID: 6635_004.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 11:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69742 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	
100-41-4	Ethylbenzene	106.17	0.87	U	0.87	
179601-23-1	m,p-Xylene	106.17	2.2	U	2.2	
95-47-6	Xylene, o-	106.17	0.87	U	0.87	
100-42-5	Styrene	104.15	0.85	U	0.85	
75-25-2	Bromoform	252.75	2.1	U	2.1	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98	U	0.98	
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_004.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 21-Mar-2014 11:49:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006635-004
Misc. Info.: mb
Operator ID: pad Instrument ID: CHB.i

Method: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 24-Mar-2014 12:20:06 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: daiglep Date: 24-Mar-2014 11:21:42

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
1 Difluoroethane TIC	51		3.150					
2 Chlorotrifluoroethene TIC	116		3.162					
4 Propene	41		3.170					
3 Freon 115 TIC	85		3.180					
5 Dichlorodifluoromethane	85		3.229					
6 Chlorodifluoromethane	51		3.272					
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.464					
8 Chloromethane	50		3.603					
9 Butane	43		3.784					
10 Vinyl chloride	62		3.832					
11 Butadiene	54		3.902					
12 Bromomethane	94		4.627					
14 Chloroethane	64		4.868					
15 2-Methylbutane	43	4.926	4.937	-0.011	71	3622	0.0967	
16 Vinyl bromide	106		5.295					
17 Trichlorofluoromethane	101		5.385					
18 Pentane	43		5.519					
19 Ethanol	45		5.882					
21 Ethyl ether	59		6.020					
20 1,1,1-Trifluoro-2,2-dichloroetha	83		6.430					
22 Acrolein	56		6.431					
23 1,1,2-Trichloro-1,2,2-trifluoroe	101		6.437					
24 1,1-Dichloroethene	96		6.522					
25 Acetone	43		6.714					
26 Isopropyl alcohol	45		6.912					
27 Carbon disulfide	76		6.949					
28 Methyl Acetate TIC	43		7.200					
29 3-Chloro-1-propene	41		7.248					
30 Acetonitrile	41		7.365					
31 Methylene Chloride	49		7.520					
32 2-Methyl-2-propanol	59		7.616					

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response			On-Col Amt ppb v/v	Flags
	33 Methyl tert-butyl ether	73		7.846						
	34 trans-1,2-Dichloroethene	61		7.915						
	35 Acrylonitrile	53		8.043						
	36 Hexane	57		8.224						
	37 1,1-Dichloroethane	63		8.678						
	38 Vinyl acetate	43		8.689						
	41 Ethyl acetate	88		9.585						
	39 cis-1,2-Dichloroethene	96		9.585						
	40 2-Butanone (MEK)	72		9.591						
	43 Tetrahydrofuran	42		9.954						
*	44 Chlorobromomethane	128	9.959	9.964	-0.005	67	724232		10.0	
S	42 1,2-Dichloroethene, Total	61		10.000						
	45 Chloroform	83		10.034						
	46 Cyclohexane	84		10.274						
	47 1,1,1-Trichloroethane	97		10.279						
	48 Carbon tetrachloride	117		10.471						
	49 Isooctane	57		10.744						
	50 Benzene	78		10.818						
	51 1,2-Dichloroethane	62		10.936						
	52 n-Heptane	43		10.994						
A	53 GRO	1	11.032	4.927 -	17.136	0	389435		0	
*	54 1,4-Difluorobenzene	114	11.363	11.363	0.0	91	3509136		10.0	
	55 Methyl cyclohexane TIC	55		11.500						
	56 n-Butanol	56		11.539						
	57 Trichloroethene	95		11.720						
	58 1,2-Dichloropropane	63		12.115						
	59 Methyl methacrylate	69		12.142						
	60 1,4-Dioxane	88		12.233						
	61 Dibromomethane	174		12.302						
	62 Dichlorobromomethane	83		12.467						
A	63 TVOC as Toluene	1	12.702	3.160 -	22.244	0	625945		2.88	
	64 cis-1,3-Dichloropropene	75		13.097						
	65 4-Methyl-2-pentanone (MIBK)	43		13.252						
A	66 C8 Range	1	13.449	13.421	-13.501	0	995	NC		
	67 n-Octane	43		13.471						
	68 Toluene	92		13.519						
A	69 Toluene Range	1	13.534	13.509	-13.559	0	1292	NC		
	70 trans-1,3-Dichloropropene	75		13.892						
	71 1,1,2-Trichloroethane	83		14.170						
	72 Tetrachloroethene	166		14.277						
	73 2-Hexanone	43		14.421						
	74 Chlorodibromomethane	129		14.709						
	75 Ethylene Dibromide	107		14.912						
*	76 Chlorobenzene-d5	117	15.451	15.451	0.0	80	3010074		10.0	
	77 Chlorobenzene	112		15.488						
	78 n-Nonane	57		15.547						
	79 Ethylbenzene	91		15.552						
	80 m-Xylene & p-Xylene	106		15.696						
S	81 Xylenes, Total	106		16.000						
	82 o-Xylene	106		16.203						
	83 Styrene	104		16.230						
	84 Bromoform	173		16.523						

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
	85 Isopropylbenzene	105		16.609				
$	86 4-Bromofluorobenzene	95	16.870	16.870	0.0	98	1757837	NC
	87 1,1,2,2-Tetrachloroethane	83		17.025				
	88 N-Propylbenzene	91		17.078				
	89 1,2,3-Trichloropropane	75		17.110				
	90 n-Decane	57		17.126				
	91 4-Ethyltoluene	105		17.207				
	92 2-Chlorotoluene	91		17.249				
	93 1,3,5-Trimethylbenzene	105		17.271				
	94 Alpha Methyl Styrene	118		17.553				
	95 tert-Butylbenzene	119		17.655				
	96 1,2,4-Trimethylbenzene	105		17.730				
	97 sec-Butylbenzene	105		17.916				
	98 4-Isopropyltoluene	119		18.071				
	99 1,3-Dichlorobenzene	146		18.156				
	100 1,4-Dichlorobenzene	146		18.274				
	101 Benzyl chloride	91		18.439				
	102 Undecane	57		18.535				
	103 n-Butylbenzene	91		18.594				
	104 1,2-Dichlorobenzene	146		18.776				
	105 1,2-Dibromo-3-Chloropropane TIC	75		19.300				
	106 Dodecane	57		20.040				
	107 1,2,4-Trichlorobenzene	180		21.225				
	108 Hexachlorobutadiene	225		21.380				
	109 Naphthalene	128		21.748				
	110 1,2,3-Trichlorobenzene	180		22.234				
	111 Total Alkanes	1		0.0				

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

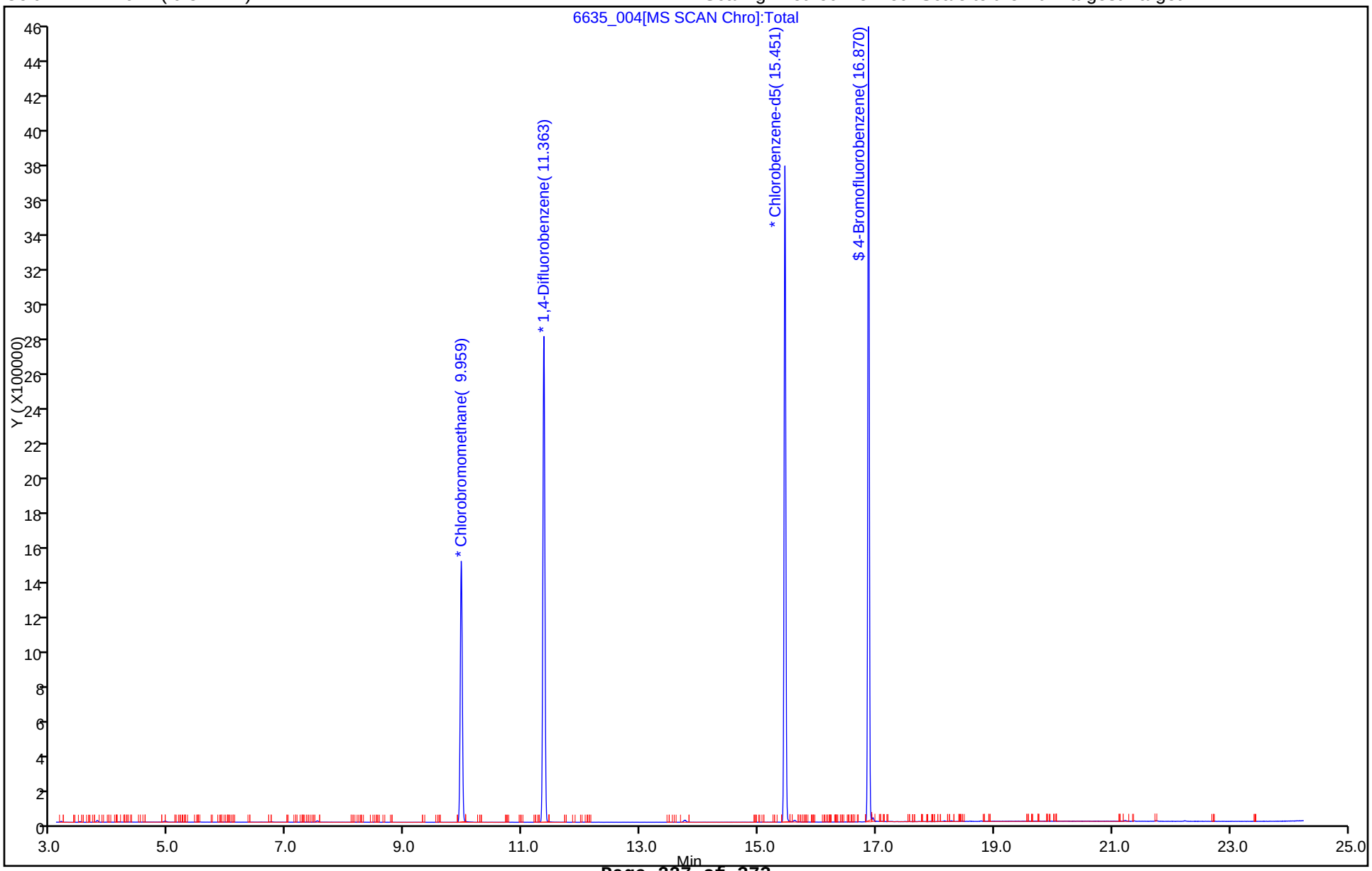
Report Date: 24-Mar-2014 12:20:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_004.D

Injection Date:	21-Mar-2014 11:49:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	MB			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: Lab Sample ID: LCS 200-69697/3

Matrix: Air Lab File ID: 6619_003.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 11:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69697 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	120.91	8.50		0.50	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	9.10		0.20	
74-87-3	Chloromethane	50.49	7.70		0.50	
75-01-4	Vinyl chloride	62.50	7.82		0.20	
106-99-0	1,3-Butadiene	54.09	7.85		0.20	
74-83-9	Bromomethane	94.94	8.69		0.20	
75-00-3	Chloroethane	64.52	8.70		0.50	
75-69-4	Trichlorofluoromethane	137.37	8.86		0.20	
76-13-1	Freon TF	187.38	8.88		0.20	
75-35-4	1,1-Dichloroethene	96.94	8.89		0.20	
67-64-1	Acetone	58.08	8.86		5.0	
75-15-0	Carbon disulfide	76.14	10.0		0.50	
75-09-2	Methylene Chloride	84.93	8.05		0.50	
1634-04-4	Methyl tert-butyl ether	88.15	8.88		0.20	
156-60-5	trans-1,2-Dichloroethene	96.94	8.96		0.20	
110-54-3	n-Hexane	86.17	8.93		0.20	
75-34-3	1,1-Dichloroethane	98.96	8.14		0.20	
78-93-3	Methyl Ethyl Ketone	72.11	8.25		0.50	
156-59-2	cis-1,2-Dichloroethene	96.94	8.85		0.20	
67-66-3	Chloroform	119.38	8.84		0.20	
109-99-9	Tetrahydrofuran	72.11	9.11		5.0	
71-55-6	1,1,1-Trichloroethane	133.41	9.21		0.20	
110-82-7	Cyclohexane	84.16	9.34		0.20	
56-23-5	Carbon tetrachloride	153.81	9.03		0.20	
71-43-2	Benzene	78.11	8.82		0.20	
107-06-2	1,2-Dichloroethane	98.96	8.63		0.20	
142-82-5	n-Heptane	100.21	8.04		0.20	
79-01-6	Trichloroethene	131.39	8.89		0.20	
78-87-5	1,2-Dichloropropane	112.99	8.51		0.20	
75-27-4	Bromodichloromethane	163.83	8.90		0.20	
10061-01-5	cis-1,3-Dichloropropene	110.97	8.99		0.20	
108-10-1	methyl isobutyl ketone	100.16	8.56		0.50	
108-88-3	Toluene	92.14	9.08		0.20	
10061-02-6	trans-1,3-Dichloropropene	110.97	9.08		0.20	
79-00-5	1,1,2-Trichloroethane	133.41	8.93		0.20	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: Lab Sample ID: LCS 200-69697/3

Matrix: Air Lab File ID: 6619_003.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 11:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69697 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
127-18-4	Tetrachloroethene	165.83	9.34		0.20	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	8.42		0.50	
124-48-1	Dibromochloromethane	208.29	9.17		0.20	
106-93-4	1,2-Dibromoethane	187.87	9.34		0.20	
108-90-7	Chlorobenzene	112.56	9.17		0.20	
100-41-4	Ethylbenzene	106.17	9.08		0.20	
179601-23-1	m,p-Xylene	106.17	18.6		0.50	
95-47-6	Xylene, o-	106.17	9.19		0.20	
100-42-5	Styrene	104.15	9.33		0.20	
75-25-2	Bromoform	252.75	9.52		0.20	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	9.00		0.20	
622-96-8	4-Ethyltoluene	120.20	9.43		0.20	
108-67-8	1,3,5-Trimethylbenzene	120.20	9.20		0.20	
95-63-6	1,2,4-Trimethylbenzene	120.20	9.01		0.20	
541-73-1	1,3-Dichlorobenzene	147.00	9.49		0.20	
106-46-7	1,4-Dichlorobenzene	147.00	9.52		0.20	
95-50-1	1,2-Dichlorobenzene	147.00	9.49		0.20	
120-82-1	1,2,4-Trichlorobenzene	181.45	8.99		0.50	
87-68-3	Hexachlorobutadiene	260.76	9.15		0.20	

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_003.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 20-Mar-2014 11:19:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006619-003
Misc. Info.: lcs
Operator ID: pad Instrument ID: CHB.i

Method: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 21-Mar-2014 09:33:30 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK031

First Level Reviewer: daiglep Date: 21-Mar-2014 09:42:18

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.176	3.176	0.0	96	111042	7.98	
5 Dichlorodifluoromethane	85	3.240	3.234	0.006	88	992031	8.50	
6 Chlorodifluoromethane	51	3.283	3.277	0.006	75	348726	8.05	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.469	3.469	0.0	91	1020264	9.10	
8 Chloromethane	50	3.614	3.608	0.006	88	166362	7.70	
9 Butane	43	3.795	3.789	0.006	96	284874	7.92	
10 Vinyl chloride	62	3.838	3.832	0.006	96	288468	7.82	
11 Butadiene	54	3.907	3.907	0.0	89	194020	7.85	
12 Bromomethane	94	4.638	4.633	0.005	99	621612	8.69	
13 BFB								
14 Chloroethane	64	4.878	4.873	0.005	98	244115	8.70	
15 2-Methylbutane	43	4.942	4.942	0.0	86	350275	8.48	
16 Vinyl bromide	106	5.305	5.300	0.005	98	744326	9.06	
17 Trichlorofluoromethane	101	5.396	5.391	0.005	97	1805451	8.86	
18 Pentane	43	5.529	5.524	0.005	95	660044	9.14	
19 Ethanol	45	5.898	5.892	0.006	99	222277	12.3	
21 Ethyl ether	59	6.026	6.020	0.006	87	402723	9.42	
22 Acrolein	56	6.437	6.437	0.0	95	180842	10.3	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.447	6.442	0.005	96	1579981	8.88	
24 1,1-Dichloroethene	96	6.527	6.527	0.0	76	776985	8.89	
25 Acetone	43	6.720	6.719	0.001	92	573459	8.86	
26 Isopropyl alcohol	45	6.922	6.917	0.005	99	450793	7.80	
27 Carbon disulfide	76	6.960	6.954	0.006	97	1960067	10.0	
29 3-Chloro-1-propene	41	7.259	7.253	0.006	82	424548	7.35	
30 Acetonitrile	41	7.376	7.371	0.005	100	255577	8.95	
31 Methylene Chloride	49	7.525	7.520	0.005	72	430698	8.05	
32 2-Methyl-2-propanol	59	7.627	7.621	0.006	98	916430	8.40	
33 Methyl tert-butyl ether	73	7.851	7.846	0.005	94	1904911	8.88	
34 trans-1,2-Dichloroethene	61	7.920	7.915	0.005	80	782982	8.96	
35 Acrylonitrile	53	8.048	8.043	0.005	96	339808	8.80	
36 Hexane	57	8.230	8.230	0.0	83	809443	8.93	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
37 1,1-Dichloroethane	63	8.684	8.683	0.001	98	984044	8.14
38 Vinyl acetate	43	8.694	8.689	0.005	98	927572	8.53
41 Ethyl acetate	88	9.596	9.591	0.005	89	73489	10.4
39 cis-1,2-Dichloroethene	96	9.596	9.591	0.005	93	857550	8.85
40 2-Butanone (MEK)	72	9.596	9.596	0.0	99	328373	8.25
43 Tetrahydrofuran	42	9.964	9.959	0.005	75	387688	9.11
* 44 Chlorobromomethane	128	9.970	9.964	0.006	65	798985	10.0
S 42 1,2-Dichloroethene, Total	61				0		17.8
45 Chloroform	83	10.039	10.034	0.005	98	1483643	8.84
46 Cyclohexane	84	10.274	10.274	0.0	74	1071802	9.34
47 1,1,1-Trichloroethane	97	10.285	10.284	0.001	94	1645166	9.21
48 Carbon tetrachloride	117	10.477	10.477	0.0	96	1809007	9.03
49 Isooctane	57	10.749	10.749	0.0	98	2505006	8.60
50 Benzene	78	10.824	10.824	0.0	91	2247486	8.82
51 1,2-Dichloroethane	62	10.941	10.936	0.005	98	747047	8.63
52 n-Heptane	43	11.000	10.994	0.006	75	673289	8.04
A 53 GRO	1	11.034	4.932 - 17.136		0	262006406	0
* 54 1,4-Difluorobenzene	114	11.368	11.368	0.0	90	3901969	10.0
56 n-Butanol	56	11.544	11.544	0.0	78	279182	8.97
57 Trichloroethene	95	11.726	11.720	0.006	91	1129201	8.89
58 1,2-Dichloropropane	63	12.121	12.115	0.006	92	630653	8.51
59 Methyl methacrylate	69	12.142	12.142	0.0	78	724784	9.45
60 1,4-Dioxane	88	12.238	12.238	0.0	81	379650	9.07
61 Dibromomethane	174	12.307	12.302	0.005	89	1256194	9.47
62 Dichlorobromomethane	83	12.473	12.473	0.0	97	1622365	8.90
A 63 TVOC as Toluene	1	12.707	3.166 - 22.249		0	465092991	1925.3
64 cis-1,3-Dichloropropene	75	13.103	13.097	0.006	84	1194931	8.99
65 4-Methyl-2-pentanone (MIBK)	43	13.257	13.257	0.0	86	879816	8.56
A 66 C8 Range	1	13.457	13.438 - 13.477		0	5101398	NC
67 n-Octane	43	13.476	13.476	0.0	73	924804	8.14
68 Toluene	92	13.524	13.524	0.0	91	1920076	9.08
A 69 Toluene Range	1	13.539	13.514 - 13.564		0	6998695	NC
70 trans-1,3-Dichloropropene	75	13.898	13.898	0.0	89	1242348	9.08
71 1,1,2-Trichloroethane	83	14.170	14.170	0.0	91	836364	8.93
72 Tetrachloroethene	166	14.277	14.276	0.001	95	1949910	9.34
73 2-Hexanone	43	14.426	14.426	0.0	85	859498	8.42
74 Chlorodibromomethane	129	14.709	14.709	0.0	97	2093542	9.17
75 Ethylene Dibromide	107	14.912	14.912	0.0	98	1859781	9.34
* 76 Chlorobenzene-d5	117	15.456	15.456	0.0	71	3416967	10.0
77 Chlorobenzene	112	15.493	15.493	0.0	89	2880814	9.17
78 n-Nonane	57	15.547	15.547	0.0	79	1142504	8.40
79 Ethylbenzene	91	15.552	15.552	0.0	96	3861841	9.08
80 m-Xylene & p-Xylene	106	15.696	15.696	0.0	98	3474201	18.6
S 81 Xylenes, Total	106				0		27.8
82 o-Xylene	106	16.203	16.203	0.0	95	1780695	9.19
83 Styrene	104	16.230	16.230	0.0	97	2759807	9.33
84 Bromoform	173	16.529	16.529	0.0	99	2133314	9.52
85 Isopropylbenzene	105	16.609	16.609	0.0	93	5067695	9.21
$ 86 4-Bromofluorobenzene	95	16.870	16.870	0.0	98	2159059	NC
87 1,1,2,2-Tetrachloroethane	83	17.025	17.025	0.0	95	2198441	9.00
88 N-Propylbenzene	91	17.084	17.084	0.0	95	5548340	9.12
89 1,2,3-Trichloropropane	75	17.111	17.110	0.001	83	1468080	9.17

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
90 n-Decane	57	17.127	17.126	0.001	76	1505409	9.14
91 4-Ethyltoluene	105	17.207	17.206	0.001	85	5212412	9.43
92 2-Chlorotoluene	91	17.255	17.254	0.001	94	3769019	9.00
93 1,3,5-Trimethylbenzene	105	17.276	17.276	0.0	94	4225910	9.20
94 Alpha Methyl Styrene	118	17.554	17.553	0.001	90	2426571	9.95
95 tert-Butylbenzene	119	17.660	17.660	0.0	92	4321826	9.28
96 1,2,4-Trimethylbenzene	105	17.730	17.729	0.001	95	4280599	9.01
97 sec-Butylbenzene	105	17.922	17.922	0.0	99	6230976	9.17
98 4-Isopropyltoluene	119	18.077	18.076	0.001	88	5435766	9.30
99 1,3-Dichlorobenzene	146	18.162	18.162	0.0	99	3337203	9.49
100 1,4-Dichlorobenzene	146	18.274	18.274	0.0	97	3333494	9.52
101 Benzyl chloride	91	18.439	18.439	0.0	99	3394500	8.87
102 Undecane	57	18.536	18.535	0.001	85	1659840	9.34
103 n-Butylbenzene	91	18.594	18.594	0.0	89	4333469	9.12
104 1,2-Dichlorobenzene	146	18.776	18.776	0.0	99	3183685	9.49
106 Dodecane	57	20.041	20.040	0.0	86	1432765	9.31
107 1,2,4-Trichlorobenzene	180	21.225	21.225	0.0	91	2103270	8.99
108 Hexachlorobutadiene	225	21.380	21.385	-0.005	92	1719395	9.15
109 Naphthalene	128	21.748	21.748	0.0	99	4449742	8.03
110 1,2,3-Trichlorobenzene	180	22.239	22.239	0.0	95	1911917	9.51

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

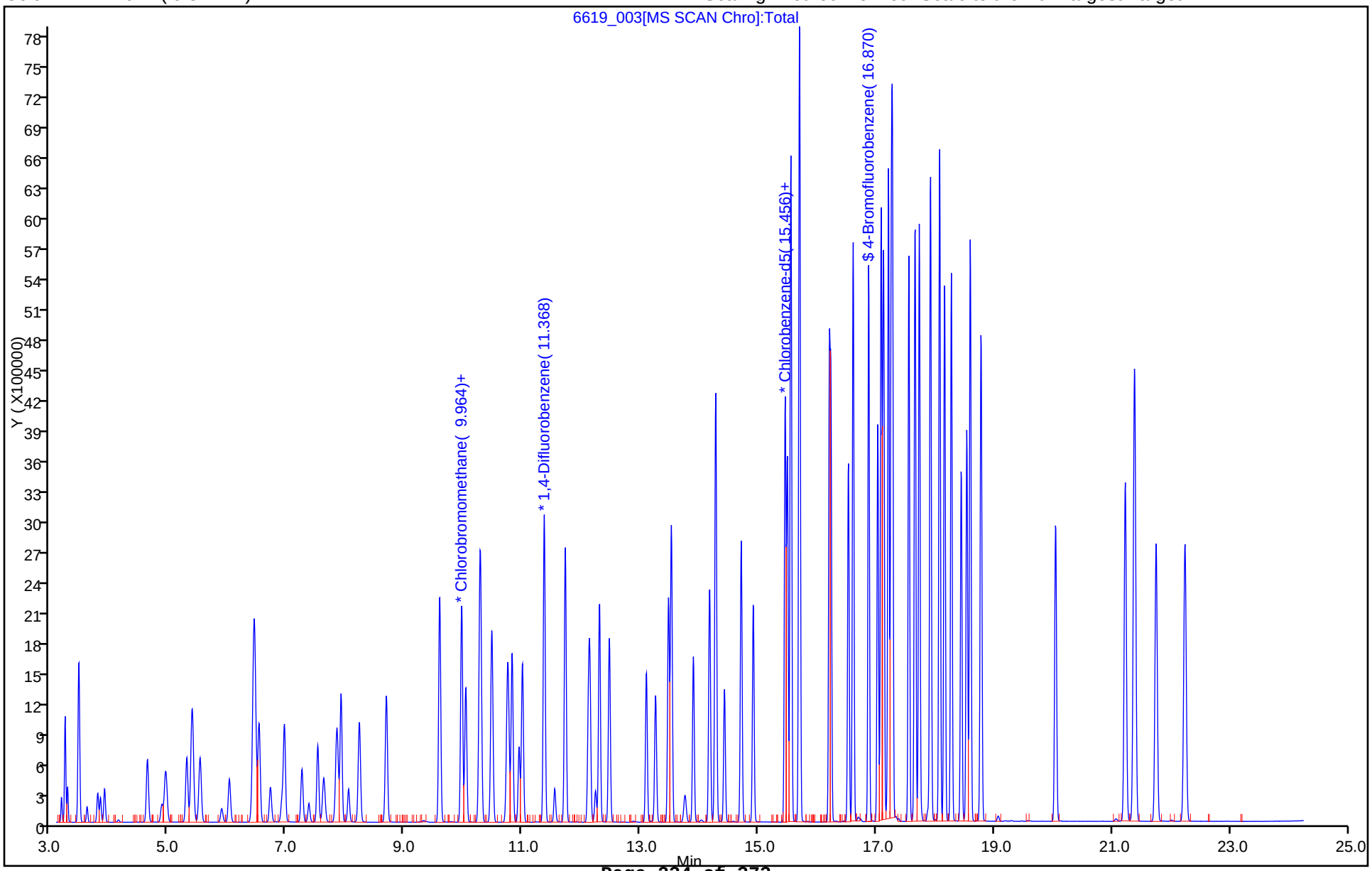
Report Date: 21-Mar-2014 09:42:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140320-6619.b\6619_003.D

Injection Date:	20-Mar-2014 11:19:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	LCS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: Lab Sample ID: LCS 200-69742/3

Matrix: Air Lab File ID: 6635_003.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 10:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69742 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	120.91	9.27		0.50	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	9.48		0.20	
74-87-3	Chloromethane	50.49	7.64		0.50	
75-01-4	Vinyl chloride	62.50	7.91		0.20	
106-99-0	1,3-Butadiene	54.09	7.93		0.20	
74-83-9	Bromomethane	94.94	9.02		0.20	
75-00-3	Chloroethane	64.52	9.03		0.50	
75-69-4	Trichlorofluoromethane	137.37	9.29		0.20	
76-13-1	Freon TF	187.38	8.84		0.20	
75-35-4	1,1-Dichloroethene	96.94	8.71		0.20	
67-64-1	Acetone	58.08	9.69		5.0	
75-15-0	Carbon disulfide	76.14	10.1		0.50	
75-09-2	Methylene Chloride	84.93	8.81		0.50	
1634-04-4	Methyl tert-butyl ether	88.15	8.79		0.20	
156-60-5	trans-1,2-Dichloroethene	96.94	9.33		0.20	
110-54-3	n-Hexane	86.17	9.27		0.20	
75-34-3	1,1-Dichloroethane	98.96	8.48		0.20	
78-93-3	Methyl Ethyl Ketone	72.11	8.43		0.50	
156-59-2	cis-1,2-Dichloroethene	96.94	8.83		0.20	
67-66-3	Chloroform	119.38	8.93		0.20	
109-99-9	Tetrahydrofuran	72.11	10.2		5.0	
71-55-6	1,1,1-Trichloroethane	133.41	9.63		0.20	
110-82-7	Cyclohexane	84.16	9.52		0.20	
56-23-5	Carbon tetrachloride	153.81	9.23		0.20	
71-43-2	Benzene	78.11	9.08		0.20	
107-06-2	1,2-Dichloroethane	98.96	9.27		0.20	
142-82-5	n-Heptane	100.21	9.01		0.20	
79-01-6	Trichloroethene	131.39	9.15		0.20	
78-87-5	1,2-Dichloropropane	112.99	9.09		0.20	
75-27-4	Bromodichloromethane	163.83	9.30		0.20	
10061-01-5	cis-1,3-Dichloropropene	110.97	9.31		0.20	
108-10-1	methyl isobutyl ketone	100.16	9.62		0.50	
108-88-3	Toluene	92.14	9.02		0.20	
10061-02-6	trans-1,3-Dichloropropene	110.97	9.41		0.20	
79-00-5	1,1,2-Trichloroethane	133.41	9.13		0.20	

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

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Client Sample ID: Lab Sample ID: LCS 200-69742/3

Matrix: Air Lab File ID: 6635_003.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 10:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69742 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
127-18-4	Tetrachloroethene	165.83	9.37		0.20	
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	9.33		0.50	
124-48-1	Dibromochloromethane	208.29	9.32		0.20	
106-93-4	1,2-Dibromoethane	187.87	9.38		0.20	
108-90-7	Chlorobenzene	112.56	9.08		0.20	
100-41-4	Ethylbenzene	106.17	9.43		0.20	
179601-23-1	m,p-Xylene	106.17	18.9		0.50	
95-47-6	Xylene, o-	106.17	9.16		0.20	
100-42-5	Styrene	104.15	9.36		0.20	
75-25-2	Bromoform	252.75	9.84		0.20	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	9.34		0.20	
622-96-8	4-Ethyltoluene	120.20	9.52		0.20	
108-67-8	1,3,5-Trimethylbenzene	120.20	9.35		0.20	
95-63-6	1,2,4-Trimethylbenzene	120.20	9.07		0.20	
541-73-1	1,3-Dichlorobenzene	147.00	9.50		0.20	
106-46-7	1,4-Dichlorobenzene	147.00	9.55		0.20	
95-50-1	1,2-Dichlorobenzene	147.00	9.44		0.20	
120-82-1	1,2,4-Trichlorobenzene	181.45	8.91		0.50	
87-68-3	Hexachlorobutadiene	260.76	9.53		0.20	

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_003.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 21-Mar-2014 10:56:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006635-003
Misc. Info.: lcs
Operator ID: pad Instrument ID: CHB.i

Method: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 24-Mar-2014 12:20:06 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK008

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.171	3.170	0.001	96	101013	7.90	
5 Dichlorodifluoromethane	85	3.235	3.229	0.006	99	993829	9.27	
6 Chlorodifluoromethane	51	3.277	3.272	0.005	92	324546	8.15	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.464	3.464	0.0	92	976276	9.48	
8 Chloromethane	50	3.608	3.603	0.005	99	151556	7.64	
9 Butane	43	3.790	3.784	0.006	95	263333	7.97	
10 Vinyl chloride	62	3.832	3.832	0.0	96	268091	7.91	
11 Butadiene	54	3.902	3.902	0.0	89	180104	7.93	
13 BFB								
12 Bromomethane	94	4.628	4.627	0.001	99	592901	9.02	
14 Chloroethane	64	4.873	4.868	0.005	98	232690	9.03	
15 2-Methylbutane	43	4.942	4.937	0.005	86	348387	9.18	
16 Vinyl bromide	106	5.300	5.295	0.005	98	697885	9.25	
17 Trichlorofluoromethane	101	5.391	5.385	0.006	97	1738619	9.29	
18 Pentane	43	5.524	5.519	0.005	94	665723	10.0	
19 Ethanol	45	5.892	5.882	0.010	100	222791	13.4	
21 Ethyl ether	59	6.021	6.020	0.0	89	380761	9.70	
22 Acrolein	56	6.437	6.431	0.006	95	175100	10.8	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.442	6.437	0.005	96	1445050	8.84	
24 1,1-Dichloroethene	96	6.522	6.522	0.0	87	698719	8.71	
25 Acetone	43	6.714	6.714	0.0	91	576282	9.69	
26 Isopropyl alcohol	45	6.917	6.912	0.005	98	447955	8.43	
27 Carbon disulfide	76	6.954	6.949	0.005	97	1822611	10.1	
29 3-Chloro-1-propene	41	7.253	7.248	0.005	83	428031	8.06	
30 Acetonitrile	41	7.371	7.365	0.006	99	259973	9.91	
31 Methylene Chloride	49	7.520	7.520	0.0	75	432894	8.81	
32 2-Methyl-2-propanol	59	7.622	7.616	0.006	98	861616	8.60	
33 Methyl tert-butyl ether	73	7.846	7.846	0.0	94	1733393	8.79	
34 trans-1,2-Dichloroethene	61	7.915	7.915	0.0	82	749122	9.33	
35 Acrylonitrile	53	8.043	8.043	0.0	96	335053	9.44	
36 Hexane	57	8.230	8.224	0.006	84	771726	9.27	
37 1,1-Dichloroethane	63	8.684	8.678	0.006	99	942150	8.48	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
38 Vinyl acetate	43	8.689	8.689	0.0	98	933338	9.34
41 Ethyl acetate	88	9.591	9.585	0.006	89	66198	10.2
39 cis-1,2-Dichloroethene	96	9.591	9.585	0.006	95	786167	8.83
40 2-Butanone (MEK)	72	9.596	9.591	0.005	99	308087	8.43
43 Tetrahydrofuran	42	9.959	9.954	0.005	78	387213	10.2
* 44 Chlorobromomethane	128	9.964	9.964	0.0	66	733888	10.0
S 42 1,2-Dichloroethene, Total	61				0		18.2
45 Chloroform	83	10.034	10.034	0.0	98	1376922	8.93
46 Cyclohexane	84	10.274	10.274	0.0	76	972266	9.52
47 1,1,1-Trichloroethane	97	10.285	10.279	0.006	95	1530223	9.63
48 Carbon tetrachloride	117	10.477	10.471	0.006	97	1646104	9.23
49 Isooctane	57	10.749	10.744	0.005	98	2397385	9.26
50 Benzene	78	10.818	10.818	0.0	92	2058530	9.08
51 1,2-Dichloroethane	62	10.936	10.936	0.0	98	714073	9.27
52 n-Heptane	43	10.995	10.994	0.0	76	671379	9.01
A 53 GRO	1	11.032	4.927 - 17.136		0	245586435	0
* 54 1,4-Difluorobenzene	114	11.368	11.363	0.005	91	3471077	10.0
56 n-Butanol	56	11.544	11.539	0.005	80	261331	9.43
57 Trichloroethene	95	11.726	11.720	0.006	92	1033548	9.15
58 1,2-Dichloropropane	63	12.121	12.115	0.006	92	598857	9.09
59 Methyl methacrylate	69	12.142	12.142	0.0	80	677539	9.93
60 1,4-Dioxane	88	12.238	12.233	0.006	83	337899	9.07
61 Dibromomethane	174	12.302	12.302	0.0	90	1140337	9.66
62 Dichlorobromomethane	83	12.473	12.467	0.006	97	1508251	9.30
A 63 TVOC as Toluene	1	12.702	3.160 - 22.244		0	435091428	2024.7
64 cis-1,3-Dichloropropene	75	13.097	13.097	0.0	85	1100472	9.31
65 4-Methyl-2-pentanone (MIBK)	43	13.252	13.252	0.0	88	879469	9.62
A 66 C8 Range	1	13.454	13.421 - 13.501		0	4948001	NC
67 n-Octane	43	13.476	13.471	0.005	75	929415	9.20
68 Toluene	92	13.524	13.519	0.005	91	1733927	9.02
A 69 Toluene Range	1	13.534	13.509 - 13.559		0	6385084	NC
70 trans-1,3-Dichloropropene	75	13.898	13.892	0.006	90	1145350	9.41
71 1,1,2-Trichloroethane	83	14.170	14.170	0.0	92	776535	9.13
72 Tetrachloroethene	166	14.277	14.277	0.0	96	1777187	9.37
73 2-Hexanone	43	14.421	14.421	0.0	87	864998	9.33
74 Chlorodibromomethane	129	14.709	14.709	0.0	97	1932203	9.32
75 Ethylene Dibromide	107	14.912	14.912	0.0	98	1695464	9.38
* 76 Chlorobenzene-d5	117	15.456	15.451	0.005	77	3103951	10.0
77 Chlorobenzene	112	15.494	15.488	0.006	90	2592001	9.08
78 n-Nonane	57	15.547	15.547	0.0	77	1104397	8.94
79 Ethylbenzene	91	15.552	15.552	0.0	96	3643832	9.43
80 m-Xylene & p-Xylene	106	15.696	15.696	0.0	98	3216957	18.9
S 81 Xylenes, Total	106				0		28.1
82 o-Xylene	106	16.203	16.203	0.0	96	1611585	9.16
83 Styrene	104	16.230	16.230	0.0	97	2516116	9.36
84 Bromoform	173	16.529	16.523	0.006	99	2004439	9.84
85 Isopropylbenzene	105	16.609	16.609	0.0	93	4626704	9.26
$ 86 4-Bromofluorobenzene	95	16.870	16.870	0.0	98	1997346	NC
87 1,1,2,2-Tetrachloroethane	83	17.025	17.025	0.0	96	2072985	9.34
88 N-Propylbenzene	91	17.084	17.078	0.006	99	5170014	9.36
89 1,2,3-Trichloropropane	75	17.111	17.110	0.001	84	1407622	9.68
90 n-Decane	57	17.127	17.126	0.001	77	1473553	9.85

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
91 4-Ethyltoluene	105	17.207	17.207	0.001	84	4777894	9.52
92 2-Chlorotoluene	91	17.255	17.249	0.006	94	3528082	9.27
93 1,3,5-Trimethylbenzene	105	17.276	17.271	0.005	94	3902251	9.35
94 Alpha Methyl Styrene	118	17.554	17.553	0.001	90	2175644	9.82
95 tert-Butylbenzene	119	17.655	17.655	0.0	95	3908305	9.24
96 1,2,4-Trimethylbenzene	105	17.730	17.730	0.0	95	3915928	9.07
97 sec-Butylbenzene	105	17.922	17.916	0.006	99	5718113	9.26
98 4-Isopropyltoluene	119	18.077	18.071	0.006	88	4972407	9.37
99 1,3-Dichlorobenzene	146	18.157	18.156	0.001	99	3033801	9.50
100 1,4-Dichlorobenzene	146	18.274	18.274	0.0	97	3036577	9.55
101 Benzyl chloride	91	18.439	18.439	0.0	99	3120932	8.98
102 Undecane	57	18.536	18.535	0.001	86	1638850	10.1
103 n-Butylbenzene	91	18.594	18.594	0.0	94	4073559	9.44
104 1,2-Dichlorobenzene	146	18.776	18.776	0.0	99	2878148	9.44
106 Dodecane	57	20.041	20.040	0.001	88	1470584	10.5
107 1,2,4-Trichlorobenzene	180	21.225	21.225	0.0	91	1894744	8.91
108 Hexachlorobutadiene	225	21.380	21.380	0.0	93	1625958	9.53
109 Naphthalene	128	21.748	21.748	0.0	99	3954120	7.85
110 1,2,3-Trichlorobenzene	180	22.234	22.234	0.0	97	1732569	9.49

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

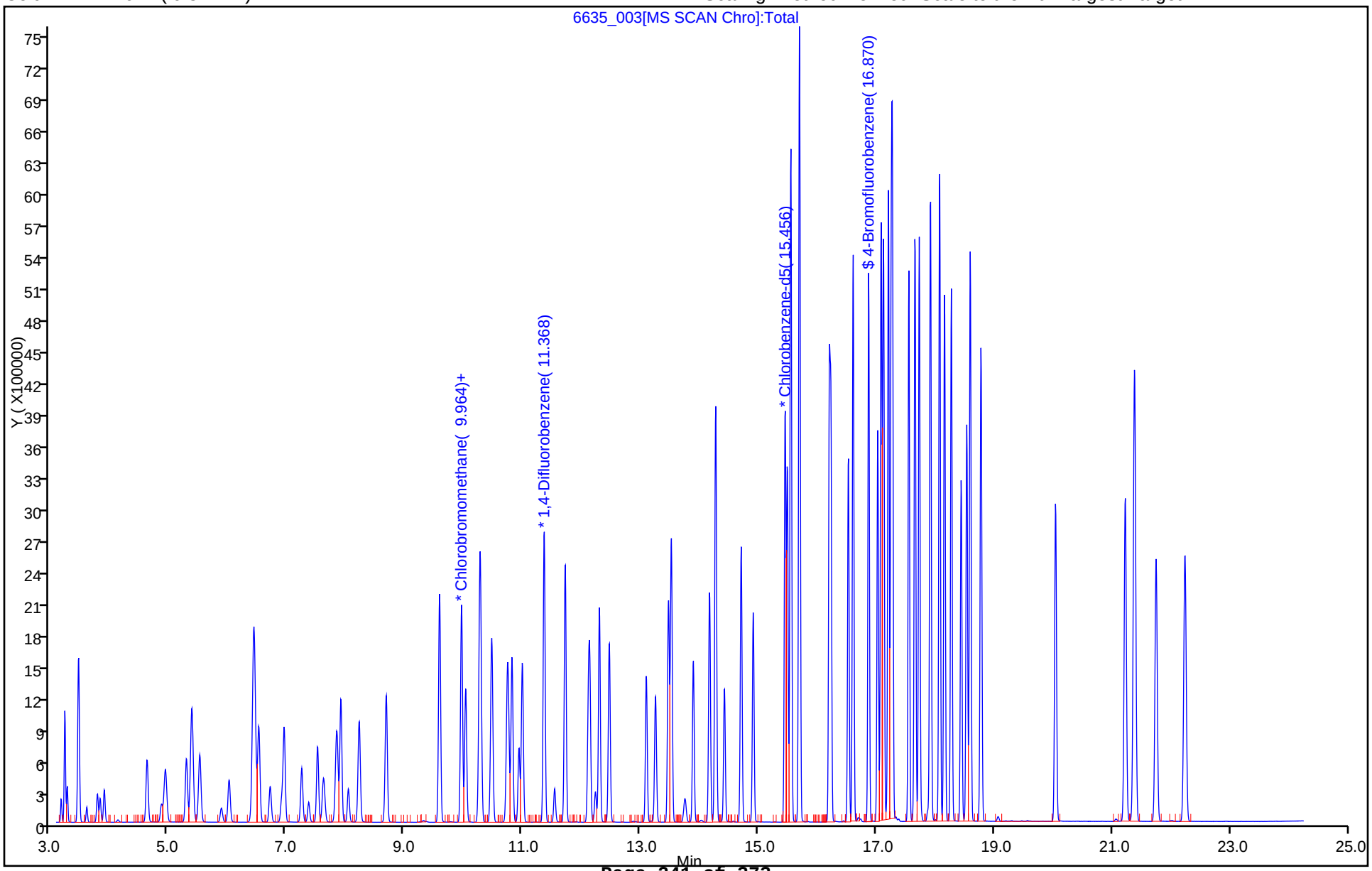
Report Date: 24-Mar-2014 12:20:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140321-6635.b\6635_003.D

Injection Date:	21-Mar-2014 10:56:30	Instrument ID:	CHB.i	Operator ID:	pad
Lims ID:	LCS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Instrument ID: CHB.i Start Date: 03/14/2014 10:21

Analysis Batch Number: 69511 End Date: 03/15/2014 04:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-69511/1		03/14/2014 10:21	1	6557_001.D	RTX-624 0.32(mm)
VIBLK 200-69511/2		03/14/2014 11:18	1		RTX-624 0.32(mm)
IC 200-69511/3		03/14/2014 12:11	1	6557_003.D	RTX-624 0.32(mm)
IC 200-69511/4		03/14/2014 13:03	1	6557_004.D	RTX-624 0.32(mm)
IC 200-69511/5		03/14/2014 13:55	1	6557_005.D	RTX-624 0.32(mm)
IC 200-69511/6		03/14/2014 14:47	1	6557_006.D	RTX-624 0.32(mm)
ICIS 200-69511/7		03/14/2014 15:39	1	6557_007.D	RTX-624 0.32(mm)
IC 200-69511/8		03/14/2014 16:31	1	6557_008.D	RTX-624 0.32(mm)
IC 200-69511/9		03/14/2014 17:24	1	6557_009.D	RTX-624 0.32(mm)
IC 200-69511/10		03/14/2014 18:16	1	6557_010.D	RTX-624 0.32(mm)
VIBLK 200-69511/11		03/14/2014 19:08	1		RTX-624 0.32(mm)
VIBLK 200-69511/12		03/14/2014 20:01	1		RTX-624 0.32(mm)
ICV 200-69511/13		03/14/2014 20:54	1	6557_013.D	RTX-624 0.32(mm)
VIBLK 200-69511/14		03/14/2014 21:46	1		RTX-624 0.32(mm)
ZZZZZ		03/14/2014 22:39	1		RTX-624 0.32(mm)
ZZZZZ		03/14/2014 23:31	1		RTX-624 0.32(mm)
ZZZZZ		03/15/2014 00:30	0.2		RTX-624 0.32(mm)
ZZZZZ		03/15/2014 01:29	0.2		RTX-624 0.32(mm)
ZZZZZ		03/15/2014 02:28	0.2		RTX-624 0.32(mm)
ZZZZZ		03/15/2014 03:27	0.2		RTX-624 0.32(mm)
ZZZZZ		03/15/2014 04:26	0.2		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Instrument ID: CHB.i Start Date: 03/20/2014 09:34

Analysis Batch Number: 69697 End Date: 03/21/2014 07:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-69697/1		03/20/2014 09:34	1	6619_001.D	RTX-624 0.32(mm)
CCVIS 200-69697/2		03/20/2014 10:27	1	6619_002.D	RTX-624 0.32(mm)
LCS 200-69697/3		03/20/2014 11:19	1	6619_003.D	RTX-624 0.32(mm)
MB 200-69697/4		03/20/2014 12:12	1	6619_004.D	RTX-624 0.32(mm)
ZZZZZ		03/20/2014 13:04	10		RTX-624 0.32(mm)
ZZZZZ		03/20/2014 13:57	10		RTX-624 0.32(mm)
ZZZZZ		03/20/2014 14:49	10		RTX-624 0.32(mm)
ZZZZZ		03/20/2014 15:42	22		RTX-624 0.32(mm)
ZZZZZ		03/20/2014 16:34	10		RTX-624 0.32(mm)
ZZZZZ		03/20/2014 17:27	1		RTX-624 0.32(mm)
ZZZZZ		03/20/2014 18:19	1		RTX-624 0.32(mm)
ZZZZZ		03/20/2014 19:11	1		RTX-624 0.32(mm)
ZZZZZ		03/20/2014 20:04	1		RTX-624 0.32(mm)
ZZZZZ		03/20/2014 20:56	8		RTX-624 0.32(mm)
ZZZZZ		03/20/2014 21:49	8		RTX-624 0.32(mm)
ZZZZZ		03/20/2014 22:41	2.5		RTX-624 0.32(mm)
ZZZZZ		03/20/2014 23:33	1		RTX-624 0.32(mm)
ZZZZZ		03/21/2014 00:25	1		RTX-624 0.32(mm)
ZZZZZ		03/21/2014 01:17	1		RTX-624 0.32(mm)
ZZZZZ		03/21/2014 02:09	1		RTX-624 0.32(mm)
ZZZZZ		03/21/2014 03:02	1		RTX-624 0.32(mm)
ZZZZZ		03/21/2014 03:54	1		RTX-624 0.32(mm)
200-21380-1	OFFICE-INDOOR-031114	03/21/2014 04:46	1	6619_023.D	RTX-624 0.32(mm)
200-21380-3	SEATING-INDOOR-031114	03/21/2014 05:38	1	6619_024.D	RTX-624 0.32(mm)
ZZZZZ		03/21/2014 06:37	0.2		RTX-624 0.32(mm)
ZZZZZ		03/21/2014 07:35	0.2		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-21380-1

SDG No.: 200-21380

Instrument ID: CHB.i Start Date: 03/21/2014 09:11

Analysis Batch Number: 69742 End Date: 03/22/2014 04:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-69742/1		03/21/2014 09:11	1	6635_001.D	RTX-624 0.32(mm)
CCVIS 200-69742/2		03/21/2014 10:04	1	6635_002.D	RTX-624 0.32(mm)
LCS 200-69742/3		03/21/2014 10:56	1	6635_003.D	RTX-624 0.32(mm)
MB 200-69742/4		03/21/2014 11:49	1	6635_004.D	RTX-624 0.32(mm)
ZZZZZ		03/21/2014 12:41	1		RTX-624 0.32(mm)
ZZZZZ		03/21/2014 13:33	1		RTX-624 0.32(mm)
ZZZZZ		03/21/2014 14:25	1		RTX-624 0.32(mm)
200-21380-2	OFFICE-SS-031114	03/21/2014 15:17	1	6635_008.D	RTX-624 0.32(mm)
200-21380-4	SEATING-SS-031114	03/21/2014 16:10	4	6635_009.D	RTX-624 0.32(mm)
ZZZZZ		03/21/2014 17:02	2.5		RTX-624 0.32(mm)
ZZZZZ		03/21/2014 17:55	1		RTX-624 0.32(mm)
ZZZZZ		03/21/2014 18:48	30.1		RTX-624 0.32(mm)
ZZZZZ		03/21/2014 19:41	9.09		RTX-624 0.32(mm)
ZZZZZ		03/21/2014 20:33	100		RTX-624 0.32(mm)
ZZZZZ		03/21/2014 21:26	100		RTX-624 0.32(mm)
ZZZZZ		03/21/2014 22:18	1		RTX-624 0.32(mm)
ZZZZZ		03/21/2014 23:10	1		RTX-624 0.32(mm)
ZZZZZ		03/22/2014 00:02	1		RTX-624 0.32(mm)
ZZZZZ		03/22/2014 00:54	1		RTX-624 0.32(mm)
ZZZZZ		03/22/2014 01:46	1		RTX-624 0.32(mm)
ZZZZZ		03/22/2014 02:38	1		RTX-624 0.32(mm)
ZZZZZ		03/22/2014 03:30	1		RTX-624 0.32(mm)
ZZZZZ		03/22/2014 04:22	1		RTX-624 0.32(mm)

Post-Sampling Air Canister Pressure Check Record

Client ID	TALS Job	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gague ID	Analyst
ARCADIS	200-21380	3/14/14	1215	29.7	22	G11	VS

Sampling Information and Return Equipment Check	Yes	No	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	✓		
(2) Is the flow controller ID used for each canister recorded?	✓		
(3) MA MCP: Check return flow rate for flow controllers		✓	
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		✓	

If damage observed, list equipment IDs and describe condition:

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure[1] ("Hg)	Anomaly[2] (Y/N)	FC ID[3]	FC Return (Y/N)	Can Cert Batch ID	Comments
200-21380-1	5439	-5.7	N	3986	Y	4472 6387	
2	36661	-7.7	↓	36664	↓	↓	
3	5039	-13.6	Y	3224	↓	4780 6387	
4	4118	-5.9	N	3107	↓	4573 6911	

VS
3/14/14

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg)

[2] If return pressure is not within criteria, initiate anomaly report.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

Internal Use Only: Flow Controller Date and Page # 57/p98/p99

Summa Canister Dilution Worksheet

Client: ARCADIS U.S. Inc

Job No.: 200-21380-1
SDG No.: 200-21380

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	Date	Analyst
200-21380-3	6	-13.6	0.55	3.27	-2.4	0.84	5.02		1.53	1.53	03/20/14 15:38	Daigle, Paul A

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)

200-21172-A-6
4780
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 3/3/2014 12:00 AM 200-633604

Loc: 200
21172
#6
A

Pre-Shipment Clean Canister Certification Re

Certification Type: ☒ Batch ☐ Individual

Canister Cleaning & Pre-Shipment Leak Test

System ID	# Cycles	Cleaning Date	Technician	Canister Size
OVEN 1/2	25	3/2/14	MC	(6L) 1L 3L

Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adjusted Initial[2] ("Hg)	Difference[3]
1	3281	-29.9	-30.3	-30.2	0.1
2	3087	↓	↓	↓	
3	4373				
4	5032				
5	5632				
6	4780				
7	5609				
8	4378				
9	5039				
10	5033				
11	4142				
12	5443	↓	↓	↓	

Leak Test

Initial Reading	Final Reading
Gauge ID: G13	Gauge ID: G13
Date: 3/3/14	Date: 3/6/14
Time: 1400	Time: 1530
Tech: VS	Tech: VS
BP: 29.9 ("Hg)	BP: 30.2 ("Hg)
Temp 22 (°C)	Temp: 22 (°C)

[3]Acceptance Criteria:
(1) The difference must be less than or equal to + 0.5
(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:

Signature Date

[1] 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.

[2] To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

[3] To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐ TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review Date	Reviewer
4780	3/3/14	6387	WN		✓				3/6/14	AMH

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLs listed in laboratory SOP for LLTO15.

Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.

Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.

Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLs listed in laboratory SOP NJDEP-LLTO15.

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

Comments: ROUTINE

200-21174-A-11
4472
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 3/2/2014 12:00 AM 200-633633

Loc: 200
21174
#11
A

Pre-Shipment Clean Canister Certification R

Certification Type: ☒ Batch ☐ Individual

Canister Cleaning & Pre-Shipment Leak Test

System ID	# Cycles	Cleaning Date	Technician	Canister Size
TO15	15	3/2/14	MC	6L (1L) 3L

Leak Test

Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adjusted Initial[2] ("Hg)	Difference[3]
1	3243	-29.8	-30.4	30.2	0.2
2	4016				
3	3205				
4	2573				
5	5439				
6	3661				
7	3036				
8	5615				
9	3265				
10	5104				
11	4472				
12	5100	↓	↓	↓	↓

Initial Reading		Final Reading	
Gauge ID:	G13	Gauge ID:	G11
Date:	3/3/14	Date:	3/6/14
Time:	1020	Time:	1130
Tech:	MS	Tech:	MC
BP:	29.8 ("Hg)	BP:	30.2 ("Hg)
Temp	22 (°C)	Temp:	22 (°C)

[3]Acceptance Criteria:
(1) The difference must be less than or equal to + 0.5
(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:

Signature Date

[1] 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.

[2] To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

[3] To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Reviewer
4472	3/3/14	6387	MD		✓				3/6/14	AM

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLs listed in laboratory SOP for LLTO15.

Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.

Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.

Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLs listed in laboratory SOP NJDEP-LLTO15.

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

Comments:

200-21188-A-1
4782
Location: Air-Storage
Bottle: 3-Liter Canister; 6L
Sampled: 3/3/2014 12:00 AM 200-634025

Loc: 200
21188
#1
A

Pre-Shipment Clean Canister Certification Report

Certification Type: ~~Batch~~ ~~Individual~~

Canister Cleaning & Pre-Shipment Leak Test					
System ID	# Cycles	Cleaning Date	Technician	Canister Size	
Bottom	15	3/3/14	VS	6L	1L 3L

Port	Can ID	Leak Test: Initial[1] ("Hg)	Final ("Hg)	Adjusted Initial[2] ("Hg)	Difference[3]
1	4782	-29.9	-30.4	-30.2	0.2
2	4791				
3	4327				
4	5152				
5	4573				
6	2651				
7	4478				
8	3208				
9	2515				
10	3207				
11	4278				
12	4118				

Initial Reading	Final Reading
Gauge ID: 613	Gauge ID: 611
Date: 3/4/14	Date: 3/6/14
Time: 1220	Time: 1110
Tech: VS	Tech: MC
BP: 29.9 ("Hg)	BP: 30.7 ("Hg)
Temp 22 (°C)	Temp: 22 (°C)

[3]Acceptance Criteria:
(1) The difference must be less than or equal to + 0.5
(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:

Signature Date

[1] 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.

[2] To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

[3] To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Reviewer
~~4782~~										
~~4791~~										
~~4327~~										
~~5152~~										
4573	3/4/14	6411	WRD		✓				3/6/14	ANI
~~2651~~										
~~4478~~										
~~3208~~										
~~2515~~										
~~3207~~										
~~4278~~										
~~4118~~										

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLs listed in laboratory SOP for LLTO15.

Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.

Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.

Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLs listed in laboratory SOP NJDEP-LLTO15.

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

Comments:

Routine ~~Info~~

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 6387_04.D

Lab ID: LCS 200-69015/4 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	14.1	141	70-130	*
Dichlorodifluoromethane	10.0	12.1	121	70-130	
Freon 22	10.0	13.1	131	70-130	*
1,2-Dichlorotetrafluoroethane	10.0	11.7	117	70-130	
Chloromethane	10.0	12.7	127	70-130	
n-Butane	10.0	13.2	132	70-130	*
Vinyl chloride	10.0	12.5	125	70-130	
1,3-Butadiene	10.0	12.5	125	70-130	
Bromomethane	10.0	11.6	116	70-130	
Chloroethane	10.0	12.5	125	70-130	
Bromoethene(Vinyl Bromide)	10.0	11.0	110	70-130	
Trichlorofluoromethane	10.0	11.3	113	70-130	
Ethanol	15.0	19.8	132	70-130	*
Freon TF	10.0	11.1	111	70-130	
1,1-Dichloroethene	10.0	11.1	111	70-130	
Acetone	10.0	12.8	128	70-130	
Isopropyl alcohol	10.0	12.6	126	70-130	
Carbon disulfide	10.0	11.1	111	70-130	
3-Chloropropene	10.0	13.0	130	70-130	
Methylene Chloride	10.0	11.9	119	70-130	
tert-Butyl alcohol	10.0	11.5	115	70-130	
Methyl tert-butyl ether	10.0	11.4	114	70-130	
trans-1,2-Dichloroethene	10.0	11.8	118	70-130	
n-Hexane	10.0	11.4	114	70-130	
1,1-Dichloroethane	10.0	11.4	114	70-130	
Vinyl acetate	10.0	13.0	130	70-130	
Ethyl acetate	10.0	10.7	107	70-130	
Methyl Ethyl Ketone	10.0	10.1	101	70-130	
cis-1,2-Dichloroethene	10.0	10.6	106	70-130	
Chloroform	10.0	10.9	109	70-130	
Tetrahydrofuran	10.0	13.0	130	70-130	
1,1,1-Trichloroethane	10.0	11.3	113	70-130	
Cyclohexane	10.0	10.8	109	70-130	
Carbon tetrachloride	10.0	11.5	115	70-130	
2,2,4-Trimethylpentane	10.0	11.2	112	70-130	
Benzene	10.0	10.7	107	70-130	
1,2-Dichloroethane	10.0	11.7	117	70-130	
n-Heptane	10.0	11.7	117	70-130	
Trichloroethene	10.0	10.9	109	70-130	
Methyl methacrylate	10.0	10.9	109	70-130	
1,2-Dichloropropane	10.0	10.8	108	70-130	
1,4-Dioxane	10.0	10.4	104	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 6387_04.D

Lab ID: LCS 200-69015/4 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	11.4	114	70-130	
cis-1,3-Dichloropropene	10.0	11.1	111	70-130	
methyl isobutyl ketone	10.0	12.1	121	70-130	
Toluene	10.0	10.7	107	70-130	
trans-1,3-Dichloropropene	10.0	11.0	110	70-130	
1,1,2-Trichloroethane	10.0	10.9	109	70-130	
Tetrachloroethene	10.0	11.3	113	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	12.2	122	70-130	
Dibromochloromethane	10.0	11.3	113	70-130	
1,2-Dibromoethane	10.0	11.0	110	70-130	
Chlorobenzene	10.0	10.7	107	70-130	
Ethylbenzene	10.0	11.0	110	70-130	
m,p-Xylene	20.0	22.0	110	70-130	
Xylene, o-	10.0	10.8	108	70-130	
Styrene	10.0	11.0	111	70-130	
Bromoform	10.0	11.5	115	70-130	
Cumene	10.0	11.1	111	70-130	
1,1,2,2-Tetrachloroethane	10.0	11.0	110	70-130	
n-Propylbenzene	10.0	11.2	112	70-130	
4-Ethyltoluene	10.0	11.5	115	70-130	
1,3,5-Trimethylbenzene	10.0	11.2	112	70-130	
2-Chlorotoluene	10.0	11.5	115	70-130	
tert-Butylbenzene	10.0	11.0	110	70-130	
1,2,4-Trimethylbenzene	10.0	11.2	112	70-130	
sec-Butylbenzene	10.0	11.1	111	70-130	
4-Isopropyltoluene	10.0	11.1	111	70-130	
1,3-Dichlorobenzene	10.0	11.2	112	70-130	
1,4-Dichlorobenzene	10.0	11.1	111	70-130	
Benzyl chloride	10.0	11.1	111	70-130	
n-Butylbenzene	10.0	11.8	118	70-130	
1,2-Dichlorobenzene	10.0	11.0	110	70-130	
1,2,4-Trichlorobenzene	10.0	13.2	132	70-130	*
Hexachlorobutadiene	10.0	12.2	122	70-130	
Naphthalene	10.0	15.6	156	70-130	^ *

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 6387_04.D

Lab ID: LCS 200-69015/4 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	14.1	141	70-130	*
Dichlorodifluoromethane	10.0	12.1	121	70-130	
Freon 22	10.0	13.1	131	70-130	*
1,2-Dichlorotetrafluoroethane	10.0	11.7	117	70-130	
Chloromethane	10.0	12.7	127	70-130	
n-Butane	10.0	13.2	132	70-130	*
Vinyl chloride	10.0	12.5	125	70-130	
1,3-Butadiene	10.0	12.5	125	70-130	
Bromomethane	10.0	11.6	116	70-130	
Chloroethane	10.0	12.5	125	70-130	
Bromoethene(Vinyl Bromide)	10.0	11.0	110	70-130	
Trichlorofluoromethane	10.0	11.3	113	70-130	
Ethanol	15.0	19.8	132	70-130	*
Freon TF	10.0	11.1	111	70-130	
1,1-Dichloroethene	10.0	11.1	111	70-130	
Acetone	10.0	12.8	128	70-130	
Isopropyl alcohol	10.0	12.6	126	70-130	
Carbon disulfide	10.0	11.1	111	70-130	
3-Chloropropene	10.0	13.0	130	70-130	
Methylene Chloride	10.0	11.9	119	70-130	
tert-Butyl alcohol	10.0	11.5	115	70-130	
Methyl tert-butyl ether	10.0	11.4	114	70-130	
trans-1,2-Dichloroethene	10.0	11.8	118	70-130	
n-Hexane	10.0	11.4	114	70-130	
1,1-Dichloroethane	10.0	11.4	114	70-130	
Vinyl acetate	10.0	13.0	130	70-130	
Ethyl acetate	10.0	10.7	107	70-130	
Methyl Ethyl Ketone	10.0	10.1	101	70-130	
cis-1,2-Dichloroethene	10.0	10.6	106	70-130	
Chloroform	10.0	10.9	109	70-130	
Tetrahydrofuran	10.0	13.0	130	70-130	
1,1,1-Trichloroethane	10.0	11.3	113	70-130	
Cyclohexane	10.0	10.8	109	70-130	
Carbon tetrachloride	10.0	11.5	115	70-130	
2,2,4-Trimethylpentane	10.0	11.2	112	70-130	
Benzene	10.0	10.7	107	70-130	
1,2-Dichloroethane	10.0	11.7	117	70-130	
n-Heptane	10.0	11.7	117	70-130	
Trichloroethene	10.0	10.9	109	70-130	
Methyl methacrylate	10.0	10.9	109	70-130	
1,2-Dichloropropane	10.0	10.8	108	70-130	
1,4-Dioxane	10.0	10.4	104	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 6387_04.D

Lab ID: LCS 200-69015/4 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	11.4	114	70-130	
cis-1,3-Dichloropropene	10.0	11.1	111	70-130	
methyl isobutyl ketone	10.0	12.1	121	70-130	
Toluene	10.0	10.7	107	70-130	
trans-1,3-Dichloropropene	10.0	11.0	110	70-130	
1,1,2-Trichloroethane	10.0	10.9	109	70-130	
Tetrachloroethene	10.0	11.3	113	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	12.2	122	70-130	
Dibromochloromethane	10.0	11.3	113	70-130	
1,2-Dibromoethane	10.0	11.0	110	70-130	
Chlorobenzene	10.0	10.7	107	70-130	
Ethylbenzene	10.0	11.0	110	70-130	
m,p-Xylene	20.0	22.0	110	70-130	
Xylene, o-	10.0	10.8	108	70-130	
Styrene	10.0	11.0	111	70-130	
Bromoform	10.0	11.5	115	70-130	
Cumene	10.0	11.1	111	70-130	
1,1,2,2-Tetrachloroethane	10.0	11.0	110	70-130	
n-Propylbenzene	10.0	11.2	112	70-130	
4-Ethyltoluene	10.0	11.5	115	70-130	
1,3,5-Trimethylbenzene	10.0	11.2	112	70-130	
2-Chlorotoluene	10.0	11.5	115	70-130	
tert-Butylbenzene	10.0	11.0	110	70-130	
1,2,4-Trimethylbenzene	10.0	11.2	112	70-130	
sec-Butylbenzene	10.0	11.1	111	70-130	
4-Isopropyltoluene	10.0	11.1	111	70-130	
1,3-Dichlorobenzene	10.0	11.2	112	70-130	
1,4-Dichlorobenzene	10.0	11.1	111	70-130	
Benzyl chloride	10.0	11.1	111	70-130	
n-Butylbenzene	10.0	11.8	118	70-130	
1,2-Dichlorobenzene	10.0	11.0	110	70-130	
1,2,4-Trichlorobenzene	10.0	13.2	132	70-130	*
Hexachlorobutadiene	10.0	12.2	122	70-130	
Naphthalene	10.0	15.6	156	70-130	^ *

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 6411_04.D

Lab ID: LCS 200-69086/4 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	13.7	137	70-130	*
Dichlorodifluoromethane	10.0	11.9	119	70-130	
Freon 22	10.0	12.7	127	70-130	
1,2-Dichlorotetrafluoroethane	10.0	11.6	116	70-130	
Chloromethane	10.0	12.4	124	70-130	
n-Butane	10.0	12.8	128	70-130	
Vinyl chloride	10.0	12.3	123	70-130	
1,3-Butadiene	10.0	12.2	122	70-130	
Bromomethane	10.0	11.5	115	70-130	
Chloroethane	10.0	12.2	122	70-130	
Bromoethene(Vinyl Bromide)	10.0	11.0	110	70-130	
Trichlorofluoromethane	10.0	11.2	112	70-130	
Ethanol	15.0	18.9	126	70-130	
Freon TF	10.0	11.1	111	70-130	
1,1-Dichloroethene	10.0	11.1	111	70-130	
Acetone	10.0	12.7	127	70-130	
Isopropyl alcohol	10.0	12.7	127	70-130	
Carbon disulfide	10.0	10.9	109	70-130	
3-Chloropropene	10.0	12.6	127	70-130	
Methylene Chloride	10.0	11.6	116	70-130	
tert-Butyl alcohol	10.0	11.6	116	70-130	
Methyl tert-butyl ether	10.0	11.2	112	70-130	
trans-1,2-Dichloroethene	10.0	11.6	116	70-130	
n-Hexane	10.0	11.2	112	70-130	
1,1-Dichloroethane	10.0	11.2	112	70-130	
Vinyl acetate	10.0	12.7	127	70-130	
Ethyl acetate	10.0	10.5	105	70-130	
Methyl Ethyl Ketone	10.0	10.1	101	70-130	
cis-1,2-Dichloroethene	10.0	10.6	106	70-130	
Chloroform	10.0	10.8	108	70-130	
Tetrahydrofuran	10.0	12.8	128	70-130	
1,1,1-Trichloroethane	10.0	11.3	113	70-130	
Cyclohexane	10.0	10.8	108	70-130	
Carbon tetrachloride	10.0	11.4	114	70-130	
2,2,4-Trimethylpentane	10.0	11.0	110	70-130	
Benzene	10.0	10.7	107	70-130	
1,2-Dichloroethane	10.0	11.5	115	70-130	
n-Heptane	10.0	11.4	114	70-130	
Trichloroethene	10.0	10.8	108	70-130	
Methyl methacrylate	10.0	10.8	108	70-130	
1,2-Dichloropropane	10.0	10.8	108	70-130	
1,4-Dioxane	10.0	10.8	108	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 6411_04.D

Lab ID: LCS 200-69086/4 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	11.4	114	70-130	
cis-1,3-Dichloropropene	10.0	11.1	111	70-130	
methyl isobutyl ketone	10.0	11.9	119	70-130	
Toluene	10.0	10.7	107	70-130	
trans-1,3-Dichloropropene	10.0	10.9	109	70-130	
1,1,2-Trichloroethane	10.0	10.8	108	70-130	
Tetrachloroethene	10.0	11.3	113	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	12.0	120	70-130	
Dibromochloromethane	10.0	11.2	112	70-130	
1,2-Dibromoethane	10.0	11.0	110	70-130	
Chlorobenzene	10.0	10.7	107	70-130	
Ethylbenzene	10.0	10.9	109	70-130	
m,p-Xylene	20.0	21.9	110	70-130	
Xylene, o-	10.0	10.8	108	70-130	
Styrene	10.0	11.0	110	70-130	
Bromoform	10.0	11.5	115	70-130	
Cumene	10.0	11.0	110	70-130	
1,1,2,2-Tetrachloroethane	10.0	11.0	110	70-130	
n-Propylbenzene	10.0	11.1	111	70-130	
4-Ethyltoluene	10.0	11.4	114	70-130	
1,3,5-Trimethylbenzene	10.0	11.1	111	70-130	
2-Chlorotoluene	10.0	11.4	114	70-130	
tert-Butylbenzene	10.0	10.9	109	70-130	
1,2,4-Trimethylbenzene	10.0	11.1	111	70-130	
sec-Butylbenzene	10.0	11.0	110	70-130	
4-Isopropyltoluene	10.0	11.0	110	70-130	
1,3-Dichlorobenzene	10.0	11.0	110	70-130	
1,4-Dichlorobenzene	10.0	11.0	110	70-130	
Benzyl chloride	10.0	11.0	110	70-130	
n-Butylbenzene	10.0	11.6	116	70-130	
1,2-Dichlorobenzene	10.0	10.9	109	70-130	
1,2,4-Trichlorobenzene	10.0	12.0	120	70-130	
Hexachlorobutadiene	10.0	11.3	113	70-130	
Naphthalene	10.0	13.4	134	70-130	* ^

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Lab File ID: 6387_05.D Lab Sample ID: MB 200-69015/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: CHC.i Date Analyzed: 03/03/2014 12:33

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-69015/4	6387_04.D	03/03/2014 11:41
4780	200-21172-6	6387_15.D	03/03/2014 21:59

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

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-69015/5

Matrix: Air Lab File ID: 6387_05.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/03/2014 12:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69015 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.20	U	0.20	0.20
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.20	U	0.20	0.20
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20

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

Lab Name: TestAmerica Burlington | Job No.: 200-21172-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-69015/5

Matrix: Air | Lab File ID: 6387_05.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 03/03/2014 12:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 69015 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.20	U	0.20	0.20
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20

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

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-69015/5

Matrix: Air Lab File ID: 6387_05.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/03/2014 12:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69015 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CHC.i\20140303-6387.b\6387_05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 03-Mar-2014 12:33:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006387-005
Misc. Info.: mb
Operator ID: wrd Instrument ID: CHC.i

Method: \\BTV-LIMS1\ChromData\CHC.i\20140303-6387.b\TO15_LLNJ_TO3_CHC.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Mar-2014 08:34:55 Calib Date: 03-Jan-2014 15:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\BTV-LIMS1\ChromData\CHC.i\20140103-5623.b\cma010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Chlorotrifluoroethene TIC	116		3.162					
1 Propene	41		3.186					
3 Difluoroethane TIC	51		3.250					
5 Freon 115 TIC	85	3.261	3.256	0.005	7	2785	NC	
2 Dichlorodifluoromethane	85		3.261					
6 Chlorodifluoromethane	51		3.320					
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.549					
8 Chloromethane	50		3.704					
9 Butane	43		3.923					
10 Vinyl chloride	62		3.971					
11 Butadiene	54		4.056					
12 Bromomethane	94		4.798					
13 Chloroethane	64		5.054					
14 2-Methylbutane	43		5.129					
15 Vinyl bromide	106		5.471					
16 Trichlorofluoromethane	101		5.577					
17 Pentane	43		5.727					
20 1,1,1-Trifluoro-2,2-dichloroetha	83		6.000					
19 Ethanol	45		6.229					
21 Ethyl ether	59		6.293					
22 Acrolein	56		6.709					
23 1,1,2-Trichloro-1,2,2-trifluoroe	101		6.720					
24 1,1-Dichloroethene	96		6.762					
28 Methyl Acetate TIC	43	7.093	7.040	0.053	31	1632	NC	
25 Acetone	43		7.045					
26 Carbon disulfide	76		7.152					
27 Isopropyl alcohol	45		7.360					
29 3-Chloro-1-propene	41		7.595					
30 Acetonitrile	41		7.760					
31 Methylene Chloride	49		7.904					
32 2-Methyl-2-propanol	59		8.166					
33 Methyl tert-butyl ether	73		8.321					

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response			On-Col Amt ppb v/v	Flags
34 trans-1,2-Dichloroethene		61		8.347					
35 Acrylonitrile		53		8.539					
36 Hexane		57		8.742					
37 1,1-Dichloroethane		63		9.265					
38 Vinyl acetate		43		9.361					
S 41 1,2-Dichloroethene, Total		61		10.200					
39 cis-1,2-Dichloroethene		96		10.434					
40 2-Butanone (MEK)		72		10.509					
42 Ethyl acetate		88		10.551					
* 43 Chlorobromomethane		128	10.920	10.920	0.0	65	361784	10.0	
44 Tetrahydrofuran		42		10.936					
45 Chloroform		83		11.058					
49 Methyl cyclohexane TIC		55		11.288					
46 Cyclohexane		84		11.293					
47 1,1,1-Trichloroethane		97		11.336					
48 Carbon tetrachloride		117	11.581	11.592	-0.011	30	2857	0.0360	
51 Isooctane		57		12.046					
50 Benzene		78	12.083	12.094	-0.011	1	4872	0.0463	
52 1,2-Dichloroethane		62		12.302					
53 n-Heptane		43		12.462					
* 54 1,4-Difluorobenzene		114	12.985	12.990	-0.005	92	2025998	10.0	
55 n-Butanol		56		13.433					
56 Trichloroethene		95	13.471	13.471	0.0	40	1971	0.0363	
A 57 GRO		1	13.495	5.119 -	21.870	0	553744	0	
58 1,2-Dichloropropane		63		14.068					
59 Methyl methacrylate		69		14.250					
60 1,4-Dioxane		88		14.314					
61 Dibromomethane		174		14.335					
62 Dichlorobromomethane		83	14.639	14.639	0.0	2	2919	0.0356	
A 63 TVOC as Toluene		1	15.275	3.176 -	27.373	0	792979	7.95	
64 cis-1,3-Dichloropropene		75		15.600					
65 4-Methyl-2-pentanone (MIBK)		43		15.904					
A 67 Toluene Range		1	16.193	16.153 -	16.233	0	7825	NC	
66 Toluene		92	16.192	16.193	-0.001	40	4005	0.0440	
A 69 C8 Range		1	16.235	16.185 -	16.285	0	28010	NC	
68 n-Octane		43		16.235					
70 trans-1,3-Dichloropropene		75		16.812					
71 1,1,2-Trichloroethane		83		17.185					
72 Tetrachloroethene		166	17.270	17.276	-0.006	64	2072	0.0260	
73 2-Hexanone		43		17.649					
74 Chlorodibromomethane		129		17.959					
75 Ethylene Dibromide		107		18.231					
* 76 Chlorobenzene-d5		117	19.128	19.128	0.0	82	1849694	10.0	
77 Chlorobenzene		112	19.192	19.192	0.0	20	5851	0.0454	
78 Ethylbenzene		91	19.341	19.336	0.005	33	8621	0.0441	
80 1,2-Dibromo-3-Chloropropane TIC		75		19.341					
79 n-Nonane		57		19.443					
81 m-Xylene & p-Xylene		106		19.587					
S 82 Xylenes, Total		106		20.100					
83 o-Xylene		106	20.398	20.398	0.0	26	2908	0.0365	
84 Styrene		104		20.446					
85 Bromoform		173		20.846					

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v	Flags
	86 Isopropylbenzene	105	21.033	21.033	0.0	40	8545	0.0379	
$	87 4-Bromofluorobenzene	95	21.385	21.385	0.0	97	1222486	NC	
	88 1,1,2,2-Tetrachloroethane	83	21.657	21.652	0.005	46	3973	0.0368	
	90 N-Propylbenzene	91		21.716					
	89 1,2,3-Trichloropropane	75		21.748					
	93 n-Decane	57		21.860					
	91 4-Ethyltoluene	105	21.892	21.892	0.0	56	8280	0.0361	
	92 2-Chlorotoluene	91	21.908	21.908	0.0	50	7817	0.0441	
	94 1,3,5-Trimethylbenzene	105	21.994	21.994	0.0	59	6936	0.0363	
	95 Alpha Methyl Styrene	118		22.346					
	96 tert-Butylbenzene	119	22.469	22.463	0.006	68	7721	0.0409	
	97 1,2,4-Trimethylbenzene	105	22.559	22.559	0.0	34	6612	0.0347	
	98 sec-Butylbenzene	105		22.778					
	99 4-Isopropyltoluene	119		22.976					
	100 1,3-Dichlorobenzene	146	23.013	23.013	0.0	58	4875	0.0345	
	101 1,4-Dichlorobenzene	146	23.152	23.152	0.0	57	4920	0.0348	
	102 Benzyl chloride	91		23.360					
	103 n-Butylbenzene	91		23.563					
	104 Undecane	57		23.573					
	105 1,2-Dichlorobenzene	146	23.707	23.707	0.0	58	4551	0.0341	
	106 Dodecane	57		25.228					
	107 1,2,4-Trichlorobenzene	180		26.338					
	108 Hexachlorobutadiene	225		26.525					
	109 Naphthalene	128		26.861					
	110 1,2,3-Trichlorobenzene	180		27.363					
	111 Total Alkanes	1		0.0					

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

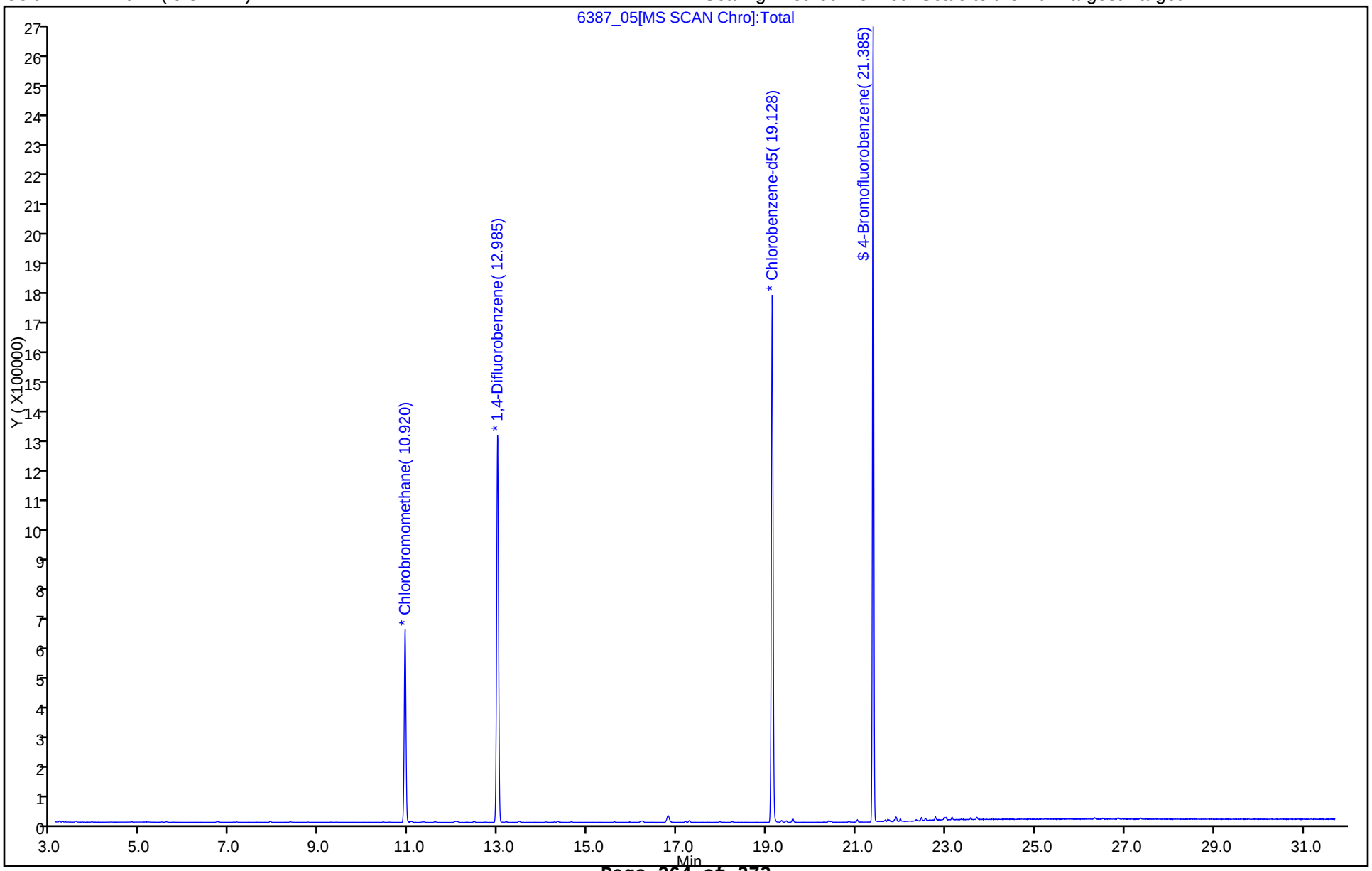
Report Date: 06-Mar-2014 08:34:56 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CHC.i\20140303-6387.b\6387_05.D

Injection Date:	03-Mar-2014 12:33:30	Instrument ID:	CHC.i	Operator ID:	wrd
Lims ID:	MB			Worklist Smp#:	5
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	TO15_LLNJ_TO3_CHC	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Lab File ID: 6387_05.D Lab Sample ID: MB 200-69015/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: CHC.i Date Analyzed: 03/03/2014 12:33

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-69015/4	6387_04.D	03/03/2014 11:41
4472	200-21174-11	6387_17.D	03/03/2014 23:56

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

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-69015/5

Matrix: Air Lab File ID: 6387_05.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/03/2014 12:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69015 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.20	U	0.20	0.20
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.20	U	0.20	0.20
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20

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

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-69015/5

Matrix: Air Lab File ID: 6387_05.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/03/2014 12:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69015 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.20	U	0.20	0.20
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20

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

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-69015/5

Matrix: Air Lab File ID: 6387_05.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/03/2014 12:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69015 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CHC.i\20140303-6387.b\6387_05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 03-Mar-2014 12:33:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006387-005
Misc. Info.: mb
Operator ID: wrd Instrument ID: CHC.i

Method: \\BTV-LIMS1\ChromData\CHC.i\20140303-6387.b\TO15_LLNJ_TO3_CHC.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Mar-2014 08:34:55 Calib Date: 03-Jan-2014 15:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\BTV-LIMS1\ChromData\CHC.i\20140103-5623.b\cma010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Chlorotrifluoroethene TIC	116		3.162					
1 Propene	41		3.186					
3 Difluoroethane TIC	51		3.250					
5 Freon 115 TIC	85	3.261	3.256	0.005	7	2785	NC	
2 Dichlorodifluoromethane	85		3.261					
6 Chlorodifluoromethane	51		3.320					
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.549					
8 Chloromethane	50		3.704					
9 Butane	43		3.923					
10 Vinyl chloride	62		3.971					
11 Butadiene	54		4.056					
12 Bromomethane	94		4.798					
13 Chloroethane	64		5.054					
14 2-Methylbutane	43		5.129					
15 Vinyl bromide	106		5.471					
16 Trichlorofluoromethane	101		5.577					
17 Pentane	43		5.727					
20 1,1,1-Trifluoro-2,2-dichloroetha	83		6.000					
19 Ethanol	45		6.229					
21 Ethyl ether	59		6.293					
22 Acrolein	56		6.709					
23 1,1,2-Trichloro-1,2,2-trifluoroe	101		6.720					
24 1,1-Dichloroethene	96		6.762					
28 Methyl Acetate TIC	43	7.093	7.040	0.053	31	1632	NC	
25 Acetone	43		7.045					
26 Carbon disulfide	76		7.152					
27 Isopropyl alcohol	45		7.360					
29 3-Chloro-1-propene	41		7.595					
30 Acetonitrile	41		7.760					
31 Methylene Chloride	49		7.904					
32 2-Methyl-2-propanol	59		8.166					
33 Methyl tert-butyl ether	73		8.321					

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response			On-Col Amt ppb v/v	Flags
	34 trans-1,2-Dichloroethene	61		8.347						
	35 Acrylonitrile	53		8.539						
	36 Hexane	57		8.742						
	37 1,1-Dichloroethane	63		9.265						
	38 Vinyl acetate	43		9.361						
S	41 1,2-Dichloroethene, Total	61		10.200						
	39 cis-1,2-Dichloroethene	96		10.434						
	40 2-Butanone (MEK)	72		10.509						
	42 Ethyl acetate	88		10.551						
*	43 Chlorobromomethane	128	10.920	10.920	0.0		65	361784	10.0	
	44 Tetrahydrofuran	42		10.936						
	45 Chloroform	83		11.058						
	49 Methyl cyclohexane TIC	55		11.288						
	46 Cyclohexane	84		11.293						
	47 1,1,1-Trichloroethane	97		11.336						
	48 Carbon tetrachloride	117	11.581	11.592	-0.011		30	2857	0.0360	
	51 Isooctane	57		12.046						
	50 Benzene	78	12.083	12.094	-0.011		1	4872	0.0463	
	52 1,2-Dichloroethane	62		12.302						
	53 n-Heptane	43		12.462						
*	54 1,4-Difluorobenzene	114	12.985	12.990	-0.005		92	2025998	10.0	
	55 n-Butanol	56		13.433						
	56 Trichloroethene	95	13.471	13.471	0.0		40	1971	0.0363	
A	57 GRO	1	13.495	5.119 -	21.870		0	553744	0	
	58 1,2-Dichloropropane	63		14.068						
	59 Methyl methacrylate	69		14.250						
	60 1,4-Dioxane	88		14.314						
	61 Dibromomethane	174		14.335						
	62 Dichlorobromomethane	83	14.639	14.639	0.0		2	2919	0.0356	
A	63 TVOC as Toluene	1	15.275	3.176 -	27.373		0	792979	7.95	
	64 cis-1,3-Dichloropropene	75		15.600						
	65 4-Methyl-2-pentanone (MIBK)	43		15.904						
A	67 Toluene Range	1	16.193	16.153 -	16.233		0	7825	NC	
	66 Toluene	92	16.192	16.193	-0.001		40	4005	0.0440	
A	69 C8 Range	1	16.235	16.185 -	16.285		0	28010	NC	
	68 n-Octane	43		16.235						
	70 trans-1,3-Dichloropropene	75		16.812						
	71 1,1,2-Trichloroethane	83		17.185						
	72 Tetrachloroethene	166	17.270	17.276	-0.006		64	2072	0.0260	
	73 2-Hexanone	43		17.649						
	74 Chlorodibromomethane	129		17.959						
	75 Ethylene Dibromide	107		18.231						
*	76 Chlorobenzene-d5	117	19.128	19.128	0.0		82	1849694	10.0	
	77 Chlorobenzene	112	19.192	19.192	0.0		20	5851	0.0454	
	78 Ethylbenzene	91	19.341	19.336	0.005		33	8621	0.0441	
	80 1,2-Dibromo-3-Chloropropane TIC	75		19.341						
	79 n-Nonane	57		19.443						
	81 m-Xylene & p-Xylene	106		19.587						
S	82 Xylenes, Total	106		20.100						
	83 o-Xylene	106	20.398	20.398	0.0		26	2908	0.0365	
	84 Styrene	104		20.446						
	85 Bromoform	173		20.846						

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q		Response		On-Col Amt ppb v/v	Flags
	86 Isopropylbenzene	105	21.033	21.033	0.0	40	8545	0.0379		
$	87 4-Bromofluorobenzene	95	21.385	21.385	0.0	97	1222486	NC		
	88 1,1,2,2-Tetrachloroethane	83	21.657	21.652	0.005	46	3973	0.0368		
	90 N-Propylbenzene	91		21.716						
	89 1,2,3-Trichloropropane	75		21.748						
	93 n-Decane	57		21.860						
	91 4-Ethyltoluene	105	21.892	21.892	0.0	56	8280	0.0361		
	92 2-Chlorotoluene	91	21.908	21.908	0.0	50	7817	0.0441		
	94 1,3,5-Trimethylbenzene	105	21.994	21.994	0.0	59	6936	0.0363		
	95 Alpha Methyl Styrene	118		22.346						
	96 tert-Butylbenzene	119	22.469	22.463	0.006	68	7721	0.0409		
	97 1,2,4-Trimethylbenzene	105	22.559	22.559	0.0	34	6612	0.0347		
	98 sec-Butylbenzene	105		22.778						
	99 4-Isopropyltoluene	119		22.976						
	100 1,3-Dichlorobenzene	146	23.013	23.013	0.0	58	4875	0.0345		
	101 1,4-Dichlorobenzene	146	23.152	23.152	0.0	57	4920	0.0348		
	102 Benzyl chloride	91		23.360						
	103 n-Butylbenzene	91		23.563						
	104 Undecane	57		23.573						
	105 1,2-Dichlorobenzene	146	23.707	23.707	0.0	58	4551	0.0341		
	106 Dodecane	57		25.228						
	107 1,2,4-Trichlorobenzene	180		26.338						
	108 Hexachlorobutadiene	225		26.525						
	109 Naphthalene	128		26.861						
	110 1,2,3-Trichlorobenzene	180		27.363						
	111 Total Alkanes	1		0.0						

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

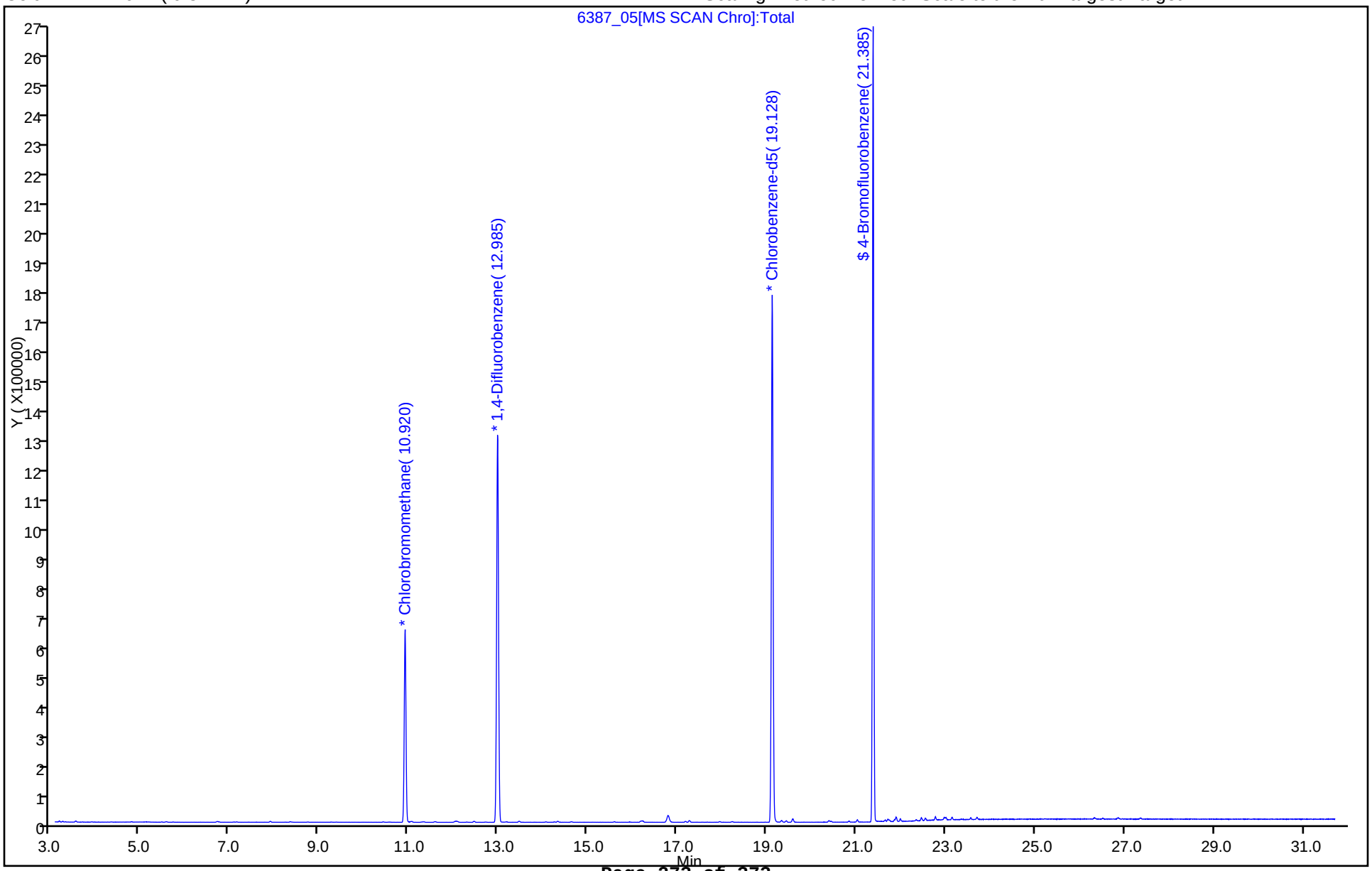
Report Date: 06-Mar-2014 08:34:56 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CHC.i\20140303-6387.b\6387_05.D

Injection Date:	03-Mar-2014 12:33:30	Instrument ID:	CHC.i	Operator ID:	wrd
Lims ID:	MB			Worklist Smp#:	5
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	TO15_LLNJ_TO3_CHC	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Lab File ID: 6411_05.D Lab Sample ID: MB 200-69086/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: CHC.i Date Analyzed: 03/04/2014 14:45

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-69086/4	6411_04.D	03/04/2014 13:53
4573	200-21188-5	6411_22.D	03/05/2014 07:49

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

Lab Name: TestAmerica Burlington | Job No.: 200-21188-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-69086/5

Matrix: Air | Lab File ID: 6411_05.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 03/04/2014 14:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 69086 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.20	U	0.20	0.20
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.20	U	0.20	0.20
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20

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

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-69086/5

Matrix: Air Lab File ID: 6411_05.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/04/2014 14:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69086 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.20	U	0.20	0.20
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20

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

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-69086/5

Matrix: Air Lab File ID: 6411_05.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/04/2014 14:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69086 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CHC.i\20140304-6411.b\6411_05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 04-Mar-2014 14:45:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006411-005
Misc. Info.: mb
Operator ID: wrd Instrument ID: CHC.i

Method: \\BTV-LIMS1\ChromData\CHC.i\20140304-6411.b\TO15_LLNJ_TO3_CHC.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Mar-2014 09:17:56 Calib Date: 03-Jan-2014 15:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\BTV-LIMS1\ChromData\CHC.i\20140103-5623.b\cma010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK033

First Level Reviewer: desjardinsb Date: 04-Mar-2014 15:51:08

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Chlorotrifluoroethene TIC	116		3.162					
1 Propene	41		3.181					
3 Difluoroethane TIC	51		3.250					
5 Freon 115 TIC	85		3.256					
2 Dichlorodifluoromethane	85		3.256					
6 Chlorodifluoromethane	51		3.314					
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.544					
8 Chloromethane	50		3.699					
9 Butane	43		3.918					
10 Vinyl chloride	62		3.971					
11 Butadiene	54		4.051					
12 Bromomethane	94		4.793					
13 Chloroethane	64		5.049					
14 2-Methylbutane	43		5.124					
15 Vinyl bromide	106		5.465					
16 Trichlorofluoromethane	101		5.572					
17 Pentane	43		5.727					
20 1,1,1-Trifluoro-2,2-dichloroetha	83		6.000					
19 Ethanol	45		6.228					
21 Ethyl ether	59		6.292					
22 Acrolein	56		6.703					
23 1,1,2-Trichloro-1,2,2-trifluoroe	101		6.714					
24 1,1-Dichloroethene	96		6.757					
28 Methyl Acetate TIC	43		7.040					
25 Acetone	43		7.040					
26 Carbon disulfide	76		7.146					
27 Isopropyl alcohol	45		7.354					
29 3-Chloro-1-propene	41		7.589					
30 Acetonitrile	41		7.760					
31 Methylene Chloride	49		7.899					
32 2-Methyl-2-propanol	59		8.160					

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response			On-Col Amt ppb v/v		Flags
	33 Methyl tert-butyl ether	73		8.320							
	34 trans-1,2-Dichloroethene	61		8.347							
	35 Acrylonitrile	53		8.539							
	36 Hexane	57		8.742							
	37 1,1-Dichloroethane	63		9.265							
	38 Vinyl acetate	43		9.361							
S	41 1,2-Dichloroethene, Total	61		10.200							
	39 cis-1,2-Dichloroethene	96		10.429							
	40 2-Butanone (MEK)	72		10.509							
	42 Ethyl acetate	88		10.546							
*	43 Chlorobromomethane	128	10.914	10.920	-0.006		62		370822		10.0
	44 Tetrahydrofuran	42		10.930							
	45 Chloroform	83		11.058							
	49 Methyl cyclohexane TIC	55		11.293							
	46 Cyclohexane	84		11.293							
	47 1,1,1-Trichloroethane	97		11.336							
	48 Carbon tetrachloride	117		11.587							
	51 Isooctane	57		12.046							
	50 Benzene	78		12.094							
	52 1,2-Dichloroethane	62		12.296							
	53 n-Heptane	43		12.457							
*	54 1,4-Difluorobenzene	114	12.985	12.985	0.0		91		2110899		10.0
	55 n-Butanol	56		13.428							
	56 Trichloroethene	95		13.471							
A	57 GRO	1	13.495	5.114 - 21.870	0				300698		0
	58 1,2-Dichloropropane	63		14.068							
	59 Methyl methacrylate	69		14.244							
	60 1,4-Dioxane	88		14.314							
	61 Dibromomethane	174		14.335							
	62 Dichlorobromomethane	83		14.639							
A	63 TVOC as Toluene	1	15.274	3.171 - 27.373	0				354773		3.41
	64 cis-1,3-Dichloropropene	75		15.595							
	65 4-Methyl-2-pentanone (MIBK)	43		15.904							
A	67 Toluene Range	1	16.192	16.152 - 16.232	0				12715	NC	
	66 Toluene	92		16.192							
A	69 C8 Range	1	16.241	16.185 - 16.285	0				5578	NC	
	68 n-Octane	43		16.235							
	70 trans-1,3-Dichloropropene	75		16.806							
	71 1,1,2-Trichloroethane	83		17.185							
	72 Tetrachloroethene	166		17.276							
	73 2-Hexanone	43		17.644							
	74 Chlorodibromomethane	129		17.954							
	75 Ethylene Dibromide	107		18.231							
*	76 Chlorobenzene-d5	117	19.128	19.128	0.0		81		1955969		10.0
	77 Chlorobenzene	112		19.186							
	78 Ethylbenzene	91		19.336							
	80 1,2-Dibromo-3-Chloropropane TIC	75	19.128	19.341	-0.213		1		22523	NC	
	79 n-Nonane	57		19.443							
	81 m-Xylene & p-Xylene	106		19.587							
S	82 Xylenes, Total	106		20.100							
	83 o-Xylene	106		20.398							
	84 Styrene	104		20.446							

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v		Flags
	85 Bromoform			173		20.846				
	86 Isopropylbenzene			105		21.028				
$	87 4-Bromofluorobenzene			95	21.380	21.385	-0.005	98	1291151	NC
	88 1,1,2,2-Tetrachloroethane			83		21.652				
	90 N-Propylbenzene			91		21.711				
	89 1,2,3-Trichloropropane			75		21.748				
	93 n-Decane			57		21.860				
	91 4-Ethyltoluene			105		21.892				
	92 2-Chlorotoluene			91		21.903				
	94 1,3,5-Trimethylbenzene			105		21.994				
	95 Alpha Methyl Styrene			118		22.346				
	96 tert-Butylbenzene			119		22.463				
	97 1,2,4-Trimethylbenzene			105		22.554				
	98 sec-Butylbenzene			105		22.778				
	99 4-Isopropyltoluene			119		22.976				
	100 1,3-Dichlorobenzene			146		23.013				
	101 1,4-Dichlorobenzene			146		23.152				
	102 Benzyl chloride			91		23.360				
	103 n-Butylbenzene			91		23.563				
	104 Undecane			57		23.568				
	105 1,2-Dichlorobenzene			146		23.707				
	106 Dodecane			57		25.222				
	107 1,2,4-Trichlorobenzene			180		26.333				
	108 Hexachlorobutadiene			225		26.525				
	109 Naphthalene			128		26.861				
	110 1,2,3-Trichlorobenzene			180		27.363				
	111 Total Alkanes			1		0.0				

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

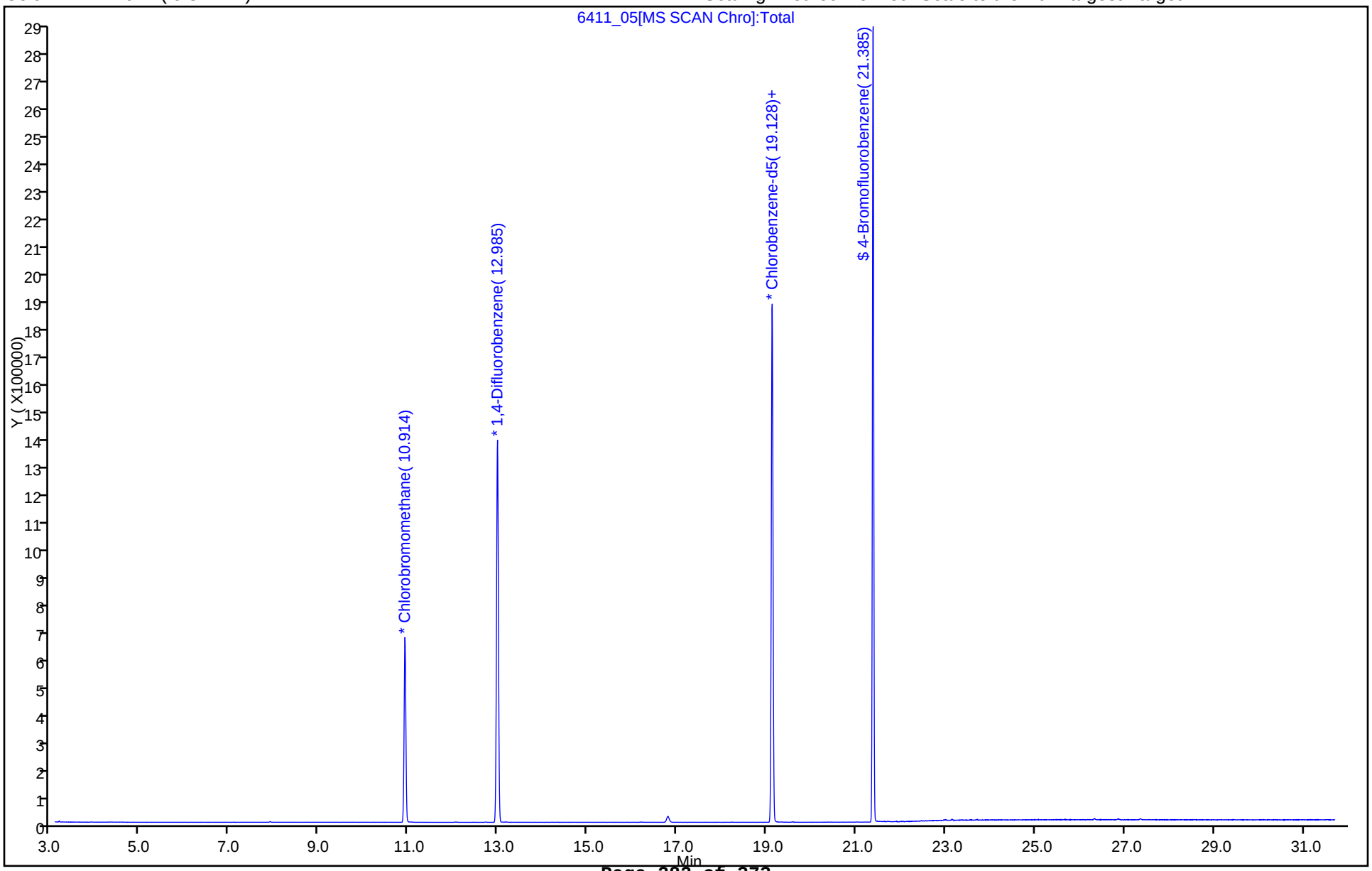
Report Date: 06-Mar-2014 09:18:01 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CHC.i\20140304-6411.b\6411_05.D

Injection Date:	04-Mar-2014 14:45:30	Instrument ID:	CHC.i	Operator ID:	wrd
Lims ID:	MB			Worklist Smp#:	5
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	TO15_LLNJ_TO3_CHC	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Lab File ID: cma001.D BFB Injection Date: 01/03/2014

Instrument ID: CHC.i BFB Injection Time: 07:37

Analysis Batch No.: 66774

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	16.4	
75	30.0 - 66.0% of mass 95	49.0	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	67.2	
175	4.0 - 9.0 % of mass 174	4.6	(6.8)1
176	93.0 - 101.0% of mass 174	64.6	(96.1)1
177	5.0 - 9.0% of mass 176	4.2	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-66774/3	cma003.D	01/03/2014	09:43
	IC 200-66774/4	cma004.D	01/03/2014	10:35
	IC 200-66774/5	cma005.D	01/03/2014	11:28
	IC 200-66774/6	cma006.D	01/03/2014	12:20
	ICIS 200-66774/7	cma007.D	01/03/2014	13:12
	IC 200-66774/8	cma008.D	01/03/2014	14:04
	IC 200-66774/9	cma009.D	01/03/2014	14:56
	IC 200-66774/10	cma010.D	01/03/2014	15:48
	ICV 200-66774/13	cma013.D	01/03/2014	17:25

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Lab File ID: 6387_01.D BFB Injection Date: 03/03/2014

Instrument ID: CHC.i BFB Injection Time: 09:09

Analysis Batch No.: 69015

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	18.6	
75	30.0 - 66.0% of mass 95	52.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.1	(0.2)1
174	50.0 - 120.0% of mass 95	61.3	
175	4.0 - 9.0 % of mass 174	4.2	(6.9)1
176	93.0 - 101.0% of mass 174	58.5	(95.4)1
177	5.0 - 9.0% of mass 176	3.8	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-69015/3	6387_03.D	03/03/2014	10:50
	LCS 200-69015/4	6387_04.D	03/03/2014	11:41
	MB 200-69015/5	6387_05.D	03/03/2014	12:33
4780	200-21172-6	6387_15.D	03/03/2014	21:59

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Lab File ID: cma001.D BFB Injection Date: 01/03/2014

Instrument ID: CHC.i BFB Injection Time: 07:37

Analysis Batch No.: 66774

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	16.4	
75	30.0 - 66.0% of mass 95	49.0	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	67.2	
175	4.0 - 9.0 % of mass 174	4.6	(6.8)1
176	93.0 - 101.0% of mass 174	64.6	(96.1)1
177	5.0 - 9.0% of mass 176	4.2	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-66774/3	cma003.D	01/03/2014	09:43
	IC 200-66774/4	cma004.D	01/03/2014	10:35
	IC 200-66774/5	cma005.D	01/03/2014	11:28
	IC 200-66774/6	cma006.D	01/03/2014	12:20
	ICIS 200-66774/7	cma007.D	01/03/2014	13:12
	IC 200-66774/8	cma008.D	01/03/2014	14:04
	IC 200-66774/9	cma009.D	01/03/2014	14:56
	IC 200-66774/10	cma010.D	01/03/2014	15:48
	ICV 200-66774/13	cma013.D	01/03/2014	17:25

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Lab File ID: 6387_01.D BFB Injection Date: 03/03/2014

Instrument ID: CHC.i BFB Injection Time: 09:09

Analysis Batch No.: 69015

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	18.6	
75	30.0 - 66.0% of mass 95	52.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.1	(0.2)1
174	50.0 - 120.0% of mass 95	61.3	
175	4.0 - 9.0 % of mass 174	4.2	(6.9)1
176	93.0 - 101.0% of mass 174	58.5	(95.4)1
177	5.0 - 9.0% of mass 176	3.8	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-69015/3	6387_03.D	03/03/2014	10:50
	LCS 200-69015/4	6387_04.D	03/03/2014	11:41
	MB 200-69015/5	6387_05.D	03/03/2014	12:33
4472	200-21174-11	6387_17.D	03/03/2014	23:56

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Lab File ID: cma001.D BFB Injection Date: 01/03/2014

Instrument ID: CHC.i BFB Injection Time: 07:37

Analysis Batch No.: 66774

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	16.4	
75	30.0 - 66.0% of mass 95	49.0	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	67.2	
175	4.0 - 9.0 % of mass 174	4.6	(6.8)1
176	93.0 - 101.0% of mass 174	64.6	(96.1)1
177	5.0 - 9.0% of mass 176	4.2	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-66774/3	cma003.D	01/03/2014	09:43
	IC 200-66774/4	cma004.D	01/03/2014	10:35
	IC 200-66774/5	cma005.D	01/03/2014	11:28
	IC 200-66774/6	cma006.D	01/03/2014	12:20
	ICIS 200-66774/7	cma007.D	01/03/2014	13:12
	IC 200-66774/8	cma008.D	01/03/2014	14:04
	IC 200-66774/9	cma009.D	01/03/2014	14:56
	IC 200-66774/10	cma010.D	01/03/2014	15:48
	ICV 200-66774/13	cma013.D	01/03/2014	17:25

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Lab File ID: 6411_01.D BFB Injection Date: 03/04/2014

Instrument ID: CHC.i BFB Injection Time: 11:19

Analysis Batch No.: 69086

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	19.8	
75	30.0 - 66.0% of mass 95	53.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.1	(0.1)1
174	50.0 - 120.0% of mass 95	58.8	
175	4.0 - 9.0 % of mass 174	4.2	(7.2)1
176	93.0 - 101.0% of mass 174	57.0	(96.9)1
177	5.0 - 9.0% of mass 176	3.8	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-69086/3	6411_03.D	03/04/2014	13:01
	LCS 200-69086/4	6411_04.D	03/04/2014	13:53
	MB 200-69086/5	6411_05.D	03/04/2014	14:45
4573	200-21188-5	6411_22.D	03/05/2014	07:49

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Sample No.: ICIS 200-66774/7 Date Analyzed: 01/03/2014 13:12

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): cma007.D Heated Purge: (Y/N) N

Calibration ID: 25229

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		524149	10.94	2939250	13.01	2821366	19.15
UPPER LIMIT		733809	11.27	4114950	13.34	3949912	19.48
LOWER LIMIT		314489	10.61	1763550	12.68	1692820	18.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-66774/13		545172	10.94	3224050	13.01	3112926	19.15

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Sample No.: CCVIS 200-69015/3 Date Analyzed: 03/03/2014 10:50

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 6387_03.D Heated Purge: (Y/N) N

Calibration ID: 25229

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		362767	10.92	1982658	12.99	1879665	19.13
UPPER LIMIT		507874	11.25	2775721	13.32	2631531	19.46
LOWER LIMIT		217660	10.59	1189595	12.66	1127799	18.80
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-69015/4		382994	10.92	2104730	12.99	2020666	19.13
MB 200-69015/5		361784	10.92	2025998	12.99	1849694	19.13
200-21172-6	4780	342905	10.92	1865589	12.99	1706566	19.13

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Sample No.: ICIS 200-66774/7 Date Analyzed: 01/03/2014 13:12

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): cma007.D Heated Purge: (Y/N) N

Calibration ID: 25229

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		524149	10.94	2939250	13.01	2821366	19.15
UPPER LIMIT		733809	11.27	4114950	13.34	3949912	19.48
LOWER LIMIT		314489	10.61	1763550	12.68	1692820	18.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-66774/13		545172	10.94	3224050	13.01	3112926	19.15

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Sample No.: CCVIS 200-69015/3 Date Analyzed: 03/03/2014 10:50

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 6387_03.D Heated Purge: (Y/N) N

Calibration ID: 25229

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		362767	10.92	1982658	12.99	1879665	19.13
UPPER LIMIT		507874	11.25	2775721	13.32	2631531	19.46
LOWER LIMIT		217660	10.59	1189595	12.66	1127799	18.80
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-69015/4		382994	10.92	2104730	12.99	2020666	19.13
MB 200-69015/5		361784	10.92	2025998	12.99	1849694	19.13
200-21174-11	4472	339141	10.91	1818509	12.98	1654352	19.12

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Sample No.: ICIS 200-66774/7 Date Analyzed: 01/03/2014 13:12

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): cma007.D Heated Purge: (Y/N) N

Calibration ID: 25229

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		524149	10.94	2939250	13.01	2821366	19.15
UPPER LIMIT		733809	11.27	4114950	13.34	3949912	19.48
LOWER LIMIT		314489	10.61	1763550	12.68	1692820	18.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-66774/13		545172	10.94	3224050	13.01	3112926	19.15

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Sample No.: CCVIS 200-69086/3 Date Analyzed: 03/04/2014 13:01

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 6411_03.D Heated Purge: (Y/N) N

Calibration ID: 25229

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		367635	10.92	1999567	12.99	1891460	19.13
UPPER LIMIT		514689	11.25	2799394	13.32	2648044	19.46
LOWER LIMIT		220581	10.59	1199740	12.66	1134876	18.80
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-69086/4		383732	10.92	2112428	12.99	2030521	19.13
MB 200-69086/5		370822	10.91	2110899	12.99	1955969	19.13
200-21188-5	4573	290779	10.91	1489458	12.99	1333026	19.13

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

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

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Client Sample ID: 4780 Lab Sample ID: 200-21172-6

Matrix: Air Lab File ID: 6387_15.D

Analysis Method: TO-15 Date Collected: 03/02/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 03/03/2014 21:59

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.: 69015 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	0.040	U	0.040	0.040
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: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Client Sample ID: 4780 Lab Sample ID: 200-21172-6

Matrix: Air Lab File ID: 6387_15.D

Analysis Method: TO-15 Date Collected: 03/02/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 03/03/2014 21:59

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.: 69015 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)	0.040	U	0.040	0.040
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: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Client Sample ID: 4780 Lab Sample ID: 200-21172-6

Matrix: Air Lab File ID: 6387_15.D

Analysis Method: TO-15 Date Collected: 03/02/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 03/03/2014 21:59

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.: 69015 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

Report Date: 04-Mar-2014 07:25:58 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CHC.i\20140303-6387.b\6387_15.D
Lims ID: 200-21172-A-6 Lab Sample ID: 200-21172-6
Client ID: 4780
Sample Type: Client
Inject. Date: 03-Mar-2014 21:59:30 ALS Bottle#: 13 Worklist Smp#: 15
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0006387-015
Misc. Info.: 21172-6
Operator ID: wrd Instrument ID: CHC.i

Method: \\BTV-LIMS1\ChromData\CHC.i\20140303-6387.b\TO15_LLNJ_TO3_CHC.m
Limit Group: AI_TO15_ICAL
Last Update: 04-Mar-2014 07:25:27 Calib Date: 03-Jan-2014 15:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\BTV-LIMS1\ChromData\CHC.i\20140103-5623.b\cma010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: desjardinsb Date: 04-Mar-2014 07:25:58

	Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
	1 Propene	41		3.186					
	2 Dichlorodifluoromethane	85		3.261					
	6 Chlorodifluoromethane	51		3.320					
	7 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.549					
	8 Chloromethane	50		3.704					
	9 Butane	43		3.923					
	10 Vinyl chloride	62		3.971					
	11 Butadiene	54		4.056					
	12 Bromomethane	94		4.798					
	13 Chloroethane	64		5.054					
	15 Vinyl bromide	106		5.471					
	16 Trichlorofluoromethane	101		5.577					
	19 Ethanol	45		6.229					
	23 1,1,2-Trichloro-1,2,2-trifluoroe	101		6.720					
	24 1,1-Dichloroethene	96		6.762					
	25 Acetone	43		7.045					
	26 Carbon disulfide	76		7.152					
	27 Isopropyl alcohol	45		7.360					
	29 3-Chloro-1-propene	41		7.595					
	31 Methylene Chloride	49		7.904					
	32 2-Methyl-2-propanol	59		8.166					
	33 Methyl tert-butyl ether	73		8.321					
	34 trans-1,2-Dichloroethene	61		8.347					
	36 Hexane	57		8.742					
	37 1,1-Dichloroethane	63		9.265					
	38 Vinyl acetate	43		9.361					
S	41 1,2-Dichloroethene, Total	61		10.200					
	39 cis-1,2-Dichloroethene	96		10.434					
	40 2-Butanone (MEK)	72		10.509					
	42 Ethyl acetate	88		10.551					
*	43 Chlorobromomethane	128	10.920	10.920	0.0	66	342905	10.0	

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response			On-Col Amt ppb v/v	Flags
	44	Tetrahydrofuran	42		10.936					
	45	Chloroform	83		11.058					
	46	Cyclohexane	84		11.293					
	47	1,1,1-Trichloroethane	97		11.336					
	48	Carbon tetrachloride	117		11.592					
	51	Isooctane	57		12.046					
	50	Benzene	78		12.094					
	52	1,2-Dichloroethane	62		12.302					
	53	n-Heptane	43		12.462					
*	54	1,4-Difluorobenzene	114	12.985	12.990	-0.005	92	1865589	10.0	
	56	Trichloroethene	95		13.471					
	58	1,2-Dichloropropane	63		14.068					
	59	Methyl methacrylate	69		14.250					
	60	1,4-Dioxane	88		14.314					
	61	Dibromomethane	174		14.335					
	62	Dichlorobromomethane	83		14.639					
	64	cis-1,3-Dichloropropene	75		15.600					
	65	4-Methyl-2-pentanone (MIBK)	43		15.904					
	66	Toluene	92		16.193					
	70	trans-1,3-Dichloropropene	75		16.812					
	71	1,1,2-Trichloroethane	83		17.185					
	72	Tetrachloroethene	166		17.276					
	73	2-Hexanone	43		17.649					
	74	Chlorodibromomethane	129		17.959					
	75	Ethylene Dibromide	107		18.231					
*	76	Chlorobenzene-d5	117	19.128	19.128	0.0	82	1706566	10.0	
	77	Chlorobenzene	112		19.192					
	78	Ethylbenzene	91		19.336					
	81	m-Xylene & p-Xylene	106		19.587					
S	82	Xylenes, Total	106		20.100					
	83	o-Xylene	106		20.398					
	84	Styrene	104		20.446					
	85	Bromoform	173		20.846					
	86	Isopropylbenzene	105		21.033					
$	87	4-Bromofluorobenzene	95	21.385	21.385	0.0	95	1184123	NC	
	88	1,1,2,2-Tetrachloroethane	83		21.652					
	90	N-Propylbenzene	91		21.716					
	91	4-Ethyltoluene	105		21.892					
	92	2-Chlorotoluene	91		21.908					
	94	1,3,5-Trimethylbenzene	105		21.994					
	96	tert-Butylbenzene	119		22.463					
	97	1,2,4-Trimethylbenzene	105		22.559					
	98	sec-Butylbenzene	105		22.778					
	99	4-Isopropyltoluene	119		22.976					
	100	1,3-Dichlorobenzene	146		23.013					
	101	1,4-Dichlorobenzene	146		23.152					
	102	Benzyl chloride	91		23.360					
	103	n-Butylbenzene	91		23.563					
	105	1,2-Dichlorobenzene	146		23.707					
	107	1,2,4-Trichlorobenzene	180		26.338					
	108	Hexachlorobutadiene	225		26.525					
	109	Naphthalene	128		26.861					

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

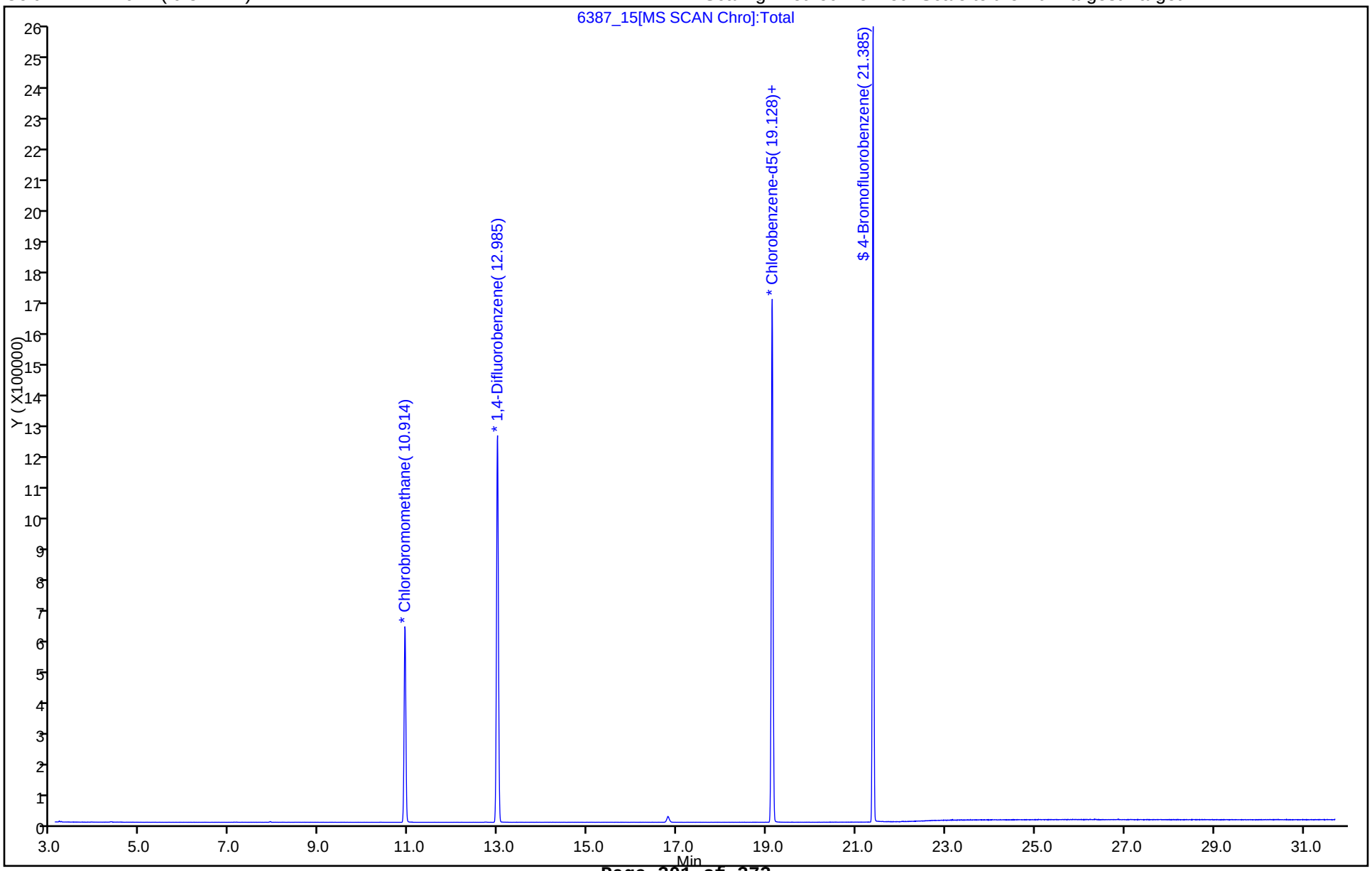
Report Date: 04-Mar-2014 07:25:58 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CHC.i\20140303-6387.b\6387_15.D

Injection Date:	03-Mar-2014 21:59:30	Instrument ID:	CHC.i	Operator ID:	wrd
Lims ID:	200-21172-A-6	Lab Sample ID:	200-21172-6	Worklist Smp#:	15
Client ID:	4780				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	13
Method:	TO15_LLNJ_TO3_CHC	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Client Sample ID: 4472 Lab Sample ID: 200-21174-11

Matrix: Air Lab File ID: 6387_17.D

Analysis Method: TO-15 Date Collected: 03/02/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 03/03/2014 23:56

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.: 69015 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	0.040	U	0.040	0.040
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: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Client Sample ID: 4472 Lab Sample ID: 200-21174-11

Matrix: Air Lab File ID: 6387_17.D

Analysis Method: TO-15 Date Collected: 03/02/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 03/03/2014 23:56

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.: 69015 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)	0.040	U	0.040	0.040
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: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Client Sample ID: 4472 Lab Sample ID: 200-21174-11

Matrix: Air Lab File ID: 6387_17.D

Analysis Method: TO-15 Date Collected: 03/02/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 03/03/2014 23:56

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.: 69015 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

Report Date: 04-Mar-2014 07:27:04 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CHC.i\20140303-6387.b\6387_17.D
Lims ID: 200-21174-A-11 Lab Sample ID: 200-21174-11
Client ID: 4472
Sample Type: Client
Inject. Date: 03-Mar-2014 23:56:30 ALS Bottle#: 15 Worklist Smp#: 17
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0006387-017
Misc. Info.: 21174-11
Operator ID: wrd Instrument ID: CHC.i

Method: \\BTV-LIMS1\ChromData\CHC.i\20140303-6387.b\TO15_LLNJ_TO3_CHC.m
Limit Group: AI_TO15_ICAL
Last Update: 04-Mar-2014 07:25:27 Calib Date: 03-Jan-2014 15:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\BTV-LIMS1\ChromData\CHC.i\20140103-5623.b\cma010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: desjardinsb Date: 04-Mar-2014 07:27:03

	Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
	1 Propene	41		3.186					
	2 Dichlorodifluoromethane	85		3.261					
	6 Chlorodifluoromethane	51		3.320					
	7 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.549					
	8 Chloromethane	50		3.704					
	9 Butane	43		3.923					
	10 Vinyl chloride	62		3.971					
	11 Butadiene	54		4.056					
	12 Bromomethane	94		4.798					
	13 Chloroethane	64		5.054					
	15 Vinyl bromide	106		5.471					
	16 Trichlorofluoromethane	101		5.577					
	19 Ethanol	45		6.229					
	23 1,1,2-Trichloro-1,2,2-trifluoroe	101		6.720					
	24 1,1-Dichloroethene	96		6.762					
	25 Acetone	43		7.045					
	26 Carbon disulfide	76		7.152					
	27 Isopropyl alcohol	45		7.360					
	29 3-Chloro-1-propene	41		7.595					
	31 Methylene Chloride	49		7.904					
	32 2-Methyl-2-propanol	59		8.166					
	33 Methyl tert-butyl ether	73		8.321					
	34 trans-1,2-Dichloroethene	61		8.347					
	36 Hexane	57		8.742					
	37 1,1-Dichloroethane	63		9.265					
	38 Vinyl acetate	43		9.361					
S	41 1,2-Dichloroethene, Total	61		10.200					
	39 cis-1,2-Dichloroethene	96		10.434					
	40 2-Butanone (MEK)	72		10.509					
	42 Ethyl acetate	88		10.551					
*	43 Chlorobromomethane	128	10.909	10.920	-0.011	67	339141	10.0	

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response			On-Col Amt ppb v/v	Flags
	44 Tetrahydrofuran			42		10.936				
	45 Chloroform			83		11.058				
	46 Cyclohexane			84		11.293				
	47 1,1,1-Trichloroethane			97		11.336				
	48 Carbon tetrachloride			117		11.592				
	51 Isooctane			57		12.046				
	50 Benzene			78		12.094				
	52 1,2-Dichloroethane			62		12.302				
	53 n-Heptane			43		12.462				
*	54 1,4-Difluorobenzene			114	12.980	12.990	-0.010	92	1818509	10.0
	56 Trichloroethene			95		13.471				
	58 1,2-Dichloropropane			63		14.068				
	59 Methyl methacrylate			69		14.250				
	60 1,4-Dioxane			88		14.314				
	61 Dibromomethane			174		14.335				
	62 Dichlorobromomethane			83		14.639				
	64 cis-1,3-Dichloropropene			75		15.600				
	65 4-Methyl-2-pentanone (MIBK)			43		15.904				
	66 Toluene			92		16.193				
	70 trans-1,3-Dichloropropene			75		16.812				
	71 1,1,2-Trichloroethane			83		17.185				
	72 Tetrachloroethene			166		17.276				
	73 2-Hexanone			43		17.649				
	74 Chlorodibromomethane			129		17.959				
	75 Ethylene Dibromide			107		18.231				
*	76 Chlorobenzene-d5			117	19.123	19.128	-0.005	83	1654352	10.0
	77 Chlorobenzene			112		19.192				
	78 Ethylbenzene			91		19.336				
	81 m-Xylene & p-Xylene			106		19.587				
S	82 Xylenes, Total			106		20.100				
	83 o-Xylene			106		20.398				
	84 Styrene			104		20.446				
	85 Bromoform			173		20.846				
	86 Isopropylbenzene			105		21.033				
$	87 4-Bromofluorobenzene			95	21.380	21.385	-0.005	94	1158651	NC
	88 1,1,2,2-Tetrachloroethane			83		21.652				
	90 N-Propylbenzene			91		21.716				
	91 4-Ethyltoluene			105		21.892				
	92 2-Chlorotoluene			91		21.908				
	94 1,3,5-Trimethylbenzene			105		21.994				
	96 tert-Butylbenzene			119		22.463				
	97 1,2,4-Trimethylbenzene			105		22.559				
	98 sec-Butylbenzene			105		22.778				
	99 4-Isopropyltoluene			119		22.976				
	100 1,3-Dichlorobenzene			146		23.013				
	101 1,4-Dichlorobenzene			146		23.152				
	102 Benzyl chloride			91		23.360				
	103 n-Butylbenzene			91		23.563				
	105 1,2-Dichlorobenzene			146		23.707				
	107 1,2,4-Trichlorobenzene			180		26.338				
	108 Hexachlorobutadiene			225		26.525				
	109 Naphthalene			128		26.861				

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

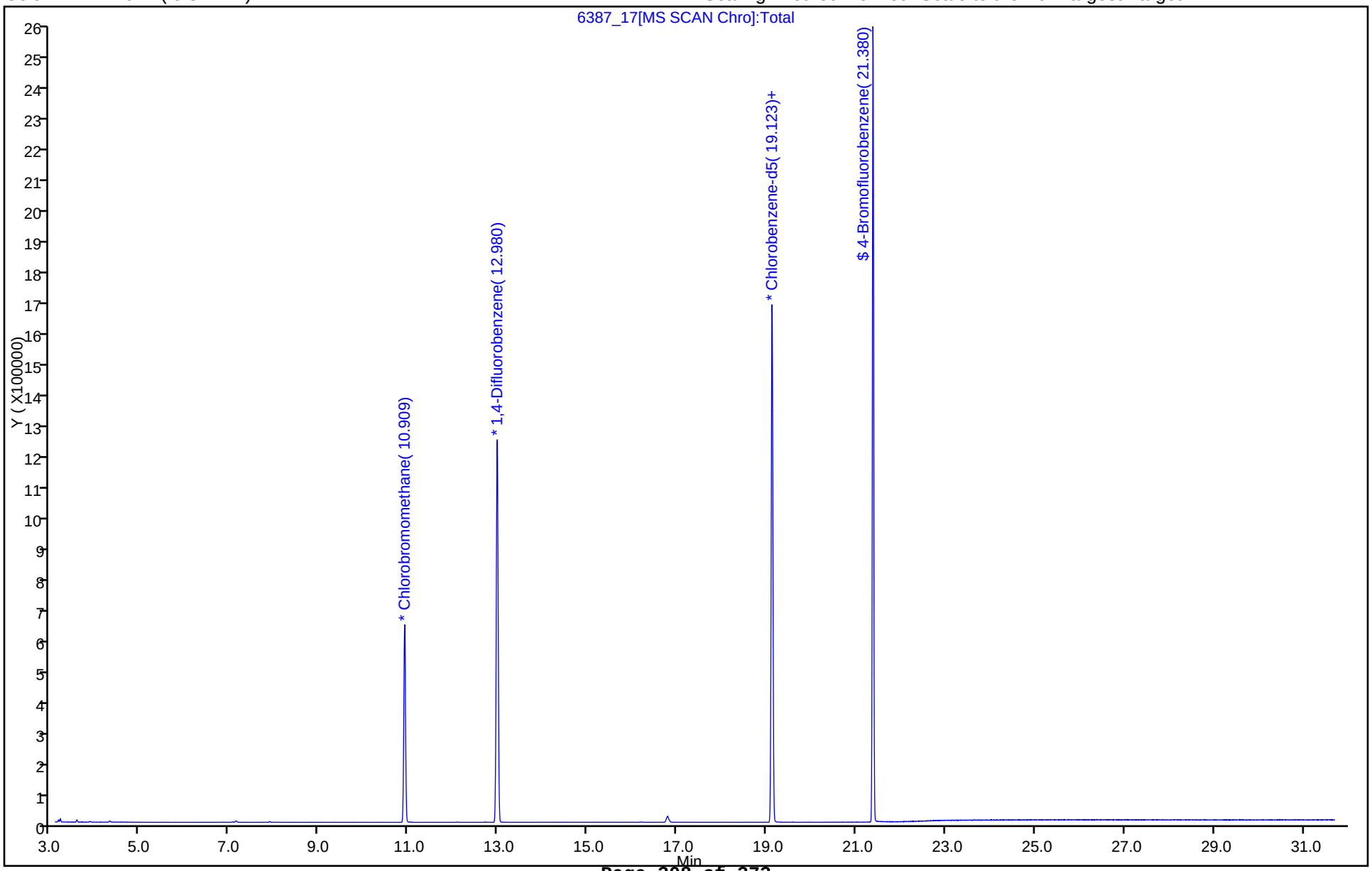
Report Date: 04-Mar-2014 07:27:04 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CHC.i\20140303-6387.b\6387_17.D

Injection Date:	03-Mar-2014 23:56:30	Instrument ID:	CHC.i	Operator ID:	wrd
Lims ID:	200-21174-A-11	Lab Sample ID:	200-21174-11	Worklist Smp#:	17
Client ID:	4472				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	15
Method:	TO15_LLNJ_TO3_CHC	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Client Sample ID: 4573 Lab Sample ID: 200-21188-5

Matrix: Air Lab File ID: 6411_22.D

Analysis Method: TO-15 Date Collected: 03/03/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 03/05/2014 07:49

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.: 69086 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	0.040	U	0.040	0.040
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: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Client Sample ID: 4573 Lab Sample ID: 200-21188-5

Matrix: Air Lab File ID: 6411_22.D

Analysis Method: TO-15 Date Collected: 03/03/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 03/05/2014 07:49

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.: 69086 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)	0.040	U	0.040	0.040
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: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Client Sample ID: 4573 Lab Sample ID: 200-21188-5

Matrix: Air Lab File ID: 6411_22.D

Analysis Method: TO-15 Date Collected: 03/03/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 03/05/2014 07:49

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.: 69086 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

Report Date: 05-Mar-2014 09:39:42 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CHC.i\20140304-6411.b\6411_22.D
Lims ID: 200-21188-A-5 Lab Sample ID: 200-21188-5
Client ID: 4573
Sample Type: Client
Inject. Date: 05-Mar-2014 07:49:30 ALS Bottle#: 4 Worklist Smp#: 22
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0006411-022
Misc. Info.: 21188-5
Operator ID: wrd Instrument ID: CHC.i

Method: \\BTV-LIMS1\ChromData\CHC.i\20140304-6411.b\TO15_LLNJ_TO3_CHC.m
Limit Group: AI_TO15_ICAL
Last Update: 05-Mar-2014 07:32:34 Calib Date: 03-Jan-2014 15:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\BTV-LIMS1\ChromData\CHC.i\20140103-5623.b\cma010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 05-Mar-2014 09:39:41

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
1 Propene	41		3.181					
2 Dichlorodifluoromethane	85		3.256					
6 Chlorodifluoromethane	51		3.314					
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.544					
8 Chloromethane	50		3.699					
9 Butane	43		3.918					
10 Vinyl chloride	62		3.971					
11 Butadiene	54		4.051					
12 Bromomethane	94		4.793					
13 Chloroethane	64		5.049					
15 Vinyl bromide	106		5.465					
16 Trichlorofluoromethane	101		5.572					
19 Ethanol	45		6.228					
23 1,1,2-Trichloro-1,2,2-trifluoroe	101		6.714					
24 1,1-Dichloroethene	96		6.757					
25 Acetone	43		7.040					
26 Carbon disulfide	76		7.146					
27 Isopropyl alcohol	45		7.354					
29 3-Chloro-1-propene	41		7.589					
31 Methylene Chloride	49		7.899					
32 2-Methyl-2-propanol	59		8.160					
33 Methyl tert-butyl ether	73		8.320					
34 trans-1,2-Dichloroethene	61		8.347					
36 Hexane	57		8.742					
37 1,1-Dichloroethane	63		9.265					
38 Vinyl acetate	43		9.361					
S 41 1,2-Dichloroethene, Total	61		10.200					
39 cis-1,2-Dichloroethene	96		10.429					
40 2-Butanone (MEK)	72		10.509					
42 Ethyl acetate	88		10.546					
* 43 Chlorobromomethane	128	10.914	10.920	-0.006	70	290779	10.0	

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response			On-Col Amt ppb v/v	Flags
	44 Tetrahydrofuran		42		10.930					
	45 Chloroform		83		11.058					
	46 Cyclohexane		84		11.293					
	47 1,1,1-Trichloroethane		97		11.336					
	48 Carbon tetrachloride		117		11.587					
	51 Isooctane		57		12.046					
	50 Benzene		78		12.094					
	52 1,2-Dichloroethane		62		12.296					
	53 n-Heptane		43		12.457					
*	54 1,4-Difluorobenzene		114	12.985	12.985	0.0	93		1489458	10.0
	56 Trichloroethene		95		13.471					
	58 1,2-Dichloropropane		63		14.068					
	59 Methyl methacrylate		69		14.244					
	60 1,4-Dioxane		88		14.314					
	61 Dibromomethane		174		14.335					
	62 Dichlorobromomethane		83		14.639					
	64 cis-1,3-Dichloropropene		75		15.595					
	65 4-Methyl-2-pentanone (MIBK)		43		15.904					
	66 Toluene		92		16.192					
	70 trans-1,3-Dichloropropene		75		16.806					
	71 1,1,2-Trichloroethane		83		17.185					
	72 Tetrachloroethene		166		17.276					
	73 2-Hexanone		43		17.644					
	74 Chlorodibromomethane		129		17.954					
	75 Ethylene Dibromide		107		18.231					
*	76 Chlorobenzene-d5		117	19.128	19.128	0.0	83		1333026	10.0
	77 Chlorobenzene		112		19.186					
	78 Ethylbenzene		91		19.336					
	81 m-Xylene & p-Xylene		106		19.587					
S	82 Xylenes, Total		106		20.100					
	83 o-Xylene		106		20.398					
	84 Styrene		104		20.446					
	85 Bromoform		173		20.846					
	86 Isopropylbenzene		105		21.028					
$	87 4-Bromofluorobenzene		95	21.380	21.385	-0.005	91		987839	NC
	88 1,1,2,2-Tetrachloroethane		83		21.652					
	90 N-Propylbenzene		91		21.711					
	91 4-Ethyltoluene		105		21.892					
	92 2-Chlorotoluene		91		21.903					
	94 1,3,5-Trimethylbenzene		105		21.994					
	96 tert-Butylbenzene		119		22.463					
	97 1,2,4-Trimethylbenzene		105		22.554					
	98 sec-Butylbenzene		105		22.778					
	99 4-Isopropyltoluene		119		22.976					
	100 1,3-Dichlorobenzene		146		23.013					
	101 1,4-Dichlorobenzene		146		23.152					
	102 Benzyl chloride		91		23.360					
	103 n-Butylbenzene		91		23.563					
	105 1,2-Dichlorobenzene		146		23.707					
	107 1,2,4-Trichlorobenzene		180		26.333					
	108 Hexachlorobutadiene		225		26.525					
	109 Naphthalene		128		26.861					

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

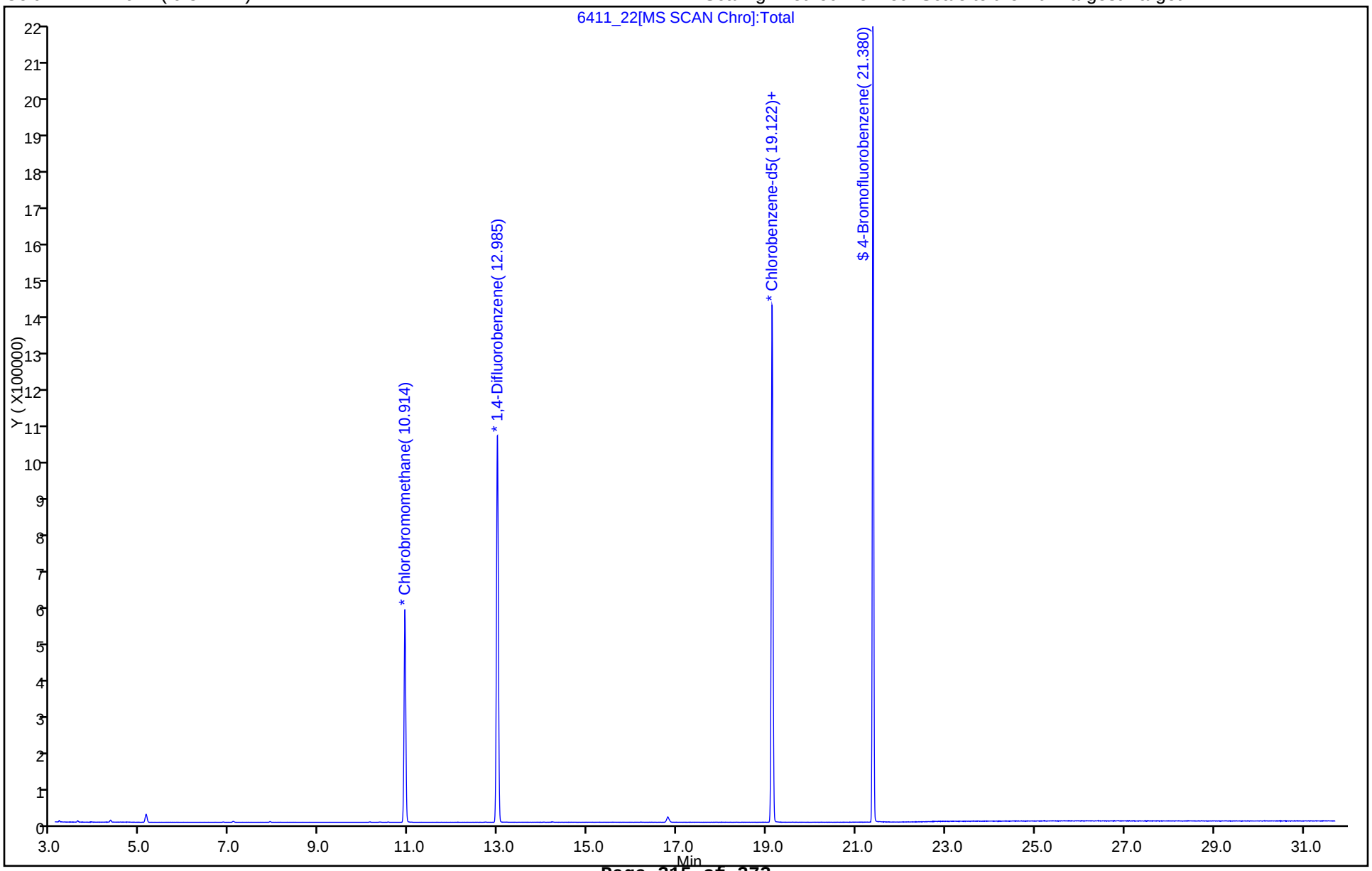
Report Date: 05-Mar-2014 09:39:42 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CHC.i\20140304-6411.b\6411_22.D

Injection Date:	05-Mar-2014 07:49:30	Instrument ID:	CHC.i	Operator ID:	wrd
Lims ID:	200-21188-A-5	Lab Sample ID:	200-21188-5	Worklist Smp#:	22
Client ID:	4573				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	4
Method:	TO15_LLNJ_TO3_CHC	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21172-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-66774/3	cma003.D
Level 2	IC 200-66774/4	cma004.D
Level 3	IC 200-66774/5	cma005.D
Level 4	IC 200-66774/6	cma006.D
Level 5	ICIS 200-66774/7	cma007.D
Level 6	IC 200-66774/8	cma008.D
Level 7	IC 200-66774/9	cma009.D
Level 8	IC 200-66774/10	cma010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	+++++ 0.1534	+++++ 0.1423	0.2322 0.1326	0.1758	0.1615	Ave		0.1663				21.0		30.0			
Dichlorodifluoromethane	+++++ 1.6269	+++++ 1.5883	1.8917 1.4716	1.8041	1.7138	Ave		1.6827				9.0		30.0			
Freon 22	+++++ 0.4852	+++++ 0.4726	0.6178 0.4389	0.5695	0.5217	Ave		0.5176				13.0		30.0			
1,2-Dichlorotetrafluoroethane	+++++ 1.6919	1.8113 1.6464	2.0117 1.5061	1.9011	1.8031	Ave		1.7674				9.5		30.0			
Chloromethane	+++++ 0.2441	+++++ 0.2364	0.3414 0.2218	0.2887	0.2658	Ave		0.2664				16.0		30.0			
n-Butane	+++++ 0.3644	+++++ 0.3322	0.5080 0.3077	0.4051	0.3665	Ave		0.3806				19.0		30.0			
Vinyl chloride	0.3430 0.4107	0.4492 0.4037	0.4920 0.3760	0.4698	0.4351	Ave		0.4224				12.0		30.0			
1,3-Butadiene	+++++ 0.2528	0.2900 0.2473	0.2979 0.2325	0.2916	0.2723	Ave		0.2692				9.4		30.0			
Bromomethane	+++++ 0.6269	0.6986 0.6201	0.7301 0.5887	0.6857	0.6637	Ave		0.6591				7.5		30.0			
Chloroethane	+++++ 0.1956	+++++ 0.1908	0.2430 0.1827	0.2226	0.2091	Ave		0.2073				11.0		30.0			
Isopentane	+++++ 0.2316	0.3465 0.2216	0.3182 0.2072	0.2697	0.2439	Ave		0.2627				20.0		30.0			
Bromoethene(Vinyl Bromide)	+++++ 0.7976	0.8240 0.7865	0.8798 0.7459	0.8459	0.8230	Ave		0.8147				5.3		30.0			
Trichlorofluoromethane	+++++ 1.9237	2.0430 1.9035	2.1529 1.7994	2.0712	2.0012	Ave		1.9850				6.0		30.0			
n-Pentane	+++++ 0.4279	+++++ 0.3933	0.5556 0.3656	0.4886	0.4366	Ave		0.4446				15.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21172-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	+++++ 0.0901	+++++ 0.0844	0.1030 0.0769	0.0937	0.0949	Ave		0.0905				10.0		30.0			
Ethyl ether	+++++ 0.2897	0.3082 0.2826	0.3397 0.2646	0.3341	0.3079	Ave		0.3038				8.9		30.0			
Acrolein	+++++ 0.1314	+++++ 0.1200	+++++ 0.1104	0.1555	0.1422	Ave		0.1319				13.0		30.0			
Freon TF	+++++ 1.4252	1.4550 1.4025	1.6044 1.2952	1.5512	1.4836	Ave		1.4596				6.9		30.0			
1,1-Dichloroethene	+++++ 0.6788	0.6828 0.6691	0.7560 0.6170	0.7378	0.7119	Ave		0.6933				6.7		30.0			
Acetone	+++++ 0.3652	+++++ 0.3542	+++++ 0.3257	0.4547	0.4534	Ave		0.3906				15.0		30.0			
Carbon disulfide	+++++ 1.6576	+++++ 1.6237	2.0634 1.5193	1.8638	1.7412	Ave		1.7449				11.0		30.0			
Isopropyl alcohol	+++++ 0.2936	+++++ 0.2598	+++++ 0.2474	0.3405	0.2985	Ave		0.2879				13.0		30.0			
3-Chloropropene	+++++ 0.2644	0.2948 0.2589	0.3316 0.2428	0.3113	0.2828	Ave		0.2838				11.0		30.0			
Acetonitrile	+++++ 0.2644	+++++ 0.2589	+++++ 0.2428	0.1761	0.1538	Ave		0.2192				23.0		30.0			
Methylene Chloride	+++++ 0.3003	+++++ 0.2906	0.4706 0.2728	0.3652	0.3191	Ave		0.3364				22.0		30.0			
tert-Butyl alcohol	+++++ 0.7325	+++++ 0.6727	+++++ 0.6352	0.8204	0.7444	Ave		0.7211				9.9		30.0			
Methyl tert-butyl ether	+++++ 1.6114	1.6174 1.5763	1.8114 1.4769	1.7744	1.6874	Ave		1.6507				7.0		30.0			
trans-1,2-Dichloroethene	+++++ 0.6196	0.6628 0.6034	0.7432 0.5527	0.7107	0.6613	Ave		0.6505				10.0		30.0			
Acrylonitrile	+++++ 0.2390	+++++ 0.2302	0.2711 0.2217	0.2744	0.2529	Ave		0.2482				8.7		30.0			
n-Hexane	+++++ 0.6177	0.6997 0.5810	0.7733 0.5420	0.6926	0.6361	Ave		0.6489				12.0		30.0			
1,1-Dichloroethane	0.8567 0.8839	0.9671 0.8724	1.0216 0.8205	1.0012	0.9357	Ave		0.9199				7.9		30.0			
Vinyl acetate	+++++ 0.6943	+++++ 0.6751	+++++ 0.6397	0.7997	0.6904	Ave		0.6999				8.5		30.0			
cis-1,2-Dichloroethene	+++++ 0.9367	0.9365 0.9313	1.0163 0.8882	0.9714	0.9607	Ave		0.9487				4.2		30.0			
Methyl Ethyl Ketone	+++++ 0.3419	+++++ 0.3353	0.4766 0.3134	0.3795	0.3662	Ave		0.3688				16.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21172-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	+++++ 0.0791	+++++ 0.0782	+++++ 0.0735	0.0792	0.0802	Ave		0.0780				3.4		30.0			
Tetrahydrofuran	+++++ 0.0625	+++++ 0.0581	+++++ 0.0543	0.0787	0.0686	Ave		0.0644				15.0		30.0			
Chloroform	+++++ 1.7265	1.7655 1.7144	1.8915 1.6185	1.8381	1.7823	Ave		1.7624				5.0		30.0			
Cyclohexane	+++++ 0.2206	0.2314 0.2153	0.2433 0.2020	0.2386	0.2294	Ave		0.2258				6.3		30.0			
1,1,1-Trichloroethane	+++++ 0.3491	0.3520 0.3451	0.3809 0.3276	0.3746	0.3635	Ave		0.3561				5.1		30.0			
Carbon tetrachloride	0.3658 0.3951	0.3693 0.3955	0.4109 0.3822	0.4102	0.4064	Ave		0.3919				4.5		30.0			
2,2,4-Trimethylpentane	+++++ 0.5555	0.6323 0.5271	0.6878 0.4715	0.6611	0.6030	Ave		0.5912				13.0		30.0			
Benzene	+++++ 0.4995	0.5574 0.4871	0.5702 0.4515	0.5455	0.5244	Ave		0.5194				8.2		30.0			
1,2-Dichloroethane	+++++ 0.1761	0.1805 0.1724	0.2040 0.1633	0.1982	0.1868	Ave		0.1831				7.8		30.0			
n-Heptane	+++++ 0.1522	0.2032 0.1407	0.2046 0.1241	0.1905	0.1666	Ave		0.1688				19.0		30.0			
n-Butanol	+++++ 0.0755	+++++ 0.0665	+++++ 0.0612	0.0850	0.0739	Ave		0.0724				13.0		30.0			
Trichloroethene	0.2736 0.2665	0.2637 0.2678	0.2799 0.2563	0.2667	0.2688	Ave		0.2679				2.6		30.0			
1,2-Dichloropropane	+++++ 0.1869	0.1963 0.1817	0.2117 0.1683	0.2046	0.1969	Ave		0.1923				7.6		30.0			
Methyl methacrylate	+++++ 0.2038	+++++ 0.2009	0.1995 0.1891	0.2106	0.2090	Ave		0.2021				3.8		30.0			
1,4-Dioxane	+++++ 0.0933	+++++ 0.0848	+++++ 0.0765	0.0979	0.0943	Ave		0.0894				9.6		30.0			
Dibromomethane	+++++ 0.2791	0.2312 0.2918	0.2441 0.2976	0.2489	0.2677	Ave		0.2658				9.5		30.0			
Bromodichloromethane	+++++ 0.4098	0.3793 0.4065	0.4098 0.3869	0.4205	0.4181	Ave		0.4044				3.8		30.0			
cis-1,3-Dichloropropene	+++++ 0.3311	0.3048 0.3280	0.3353 0.3137	0.3386	0.3377	Ave		0.3270				4.0		30.0			
methyl isobutyl ketone	+++++ 0.2422	+++++ 0.2276	0.2916 0.2027	0.2930	0.2659	Ave		0.2538				14.0		30.0			
Toluene	+++++ 0.4927	0.5042 0.4915	0.5055 0.4640	0.4913	0.4989	Ave		0.4926				2.8		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21172-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Octane	+++++ 0.2586	0.3446 0.2356	0.3609 0.1915	0.3339	0.2904	Ave		0.2879				22.0		30.0			
trans-1,3-Dichloropropene	+++++ 0.3400	0.3597 0.3382	0.3532 0.3235	0.3548	0.3545	Ave		0.3463				3.7		30.0			
1,1,2-Trichloroethane	+++++ 0.2246	0.2168 0.2223	0.2352 0.2088	0.2311	0.2301	Ave		0.2241				4.1		30.0			
Tetrachloroethene	0.3897 0.4555	0.3798 0.4747	0.4103 0.4781	0.4124	0.4414	Ave		0.4302				8.8		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.2468	+++++ 0.2292	0.3031 0.2012	0.3014	0.2708	Ave		0.2588				16.0		30.0			
Dibromochloromethane	+++++ 0.5052	0.3959 0.5164	0.4331 0.5141	0.4748	0.4972	Ave		0.4767				9.6		30.0			
1,2-Dibromoethane	+++++ 0.4516	0.3990 0.4567	0.4200 0.4400	0.4376	0.4509	Ave		0.4366				4.7		30.0			
Chlorobenzene	+++++ 0.7132	0.6545 0.7239	0.6827 0.7079	0.6828	0.7089	Ave		0.6963				3.4		30.0			
Ethylbenzene	+++++ 1.0668	1.0186 1.0647	1.0909 1.0032	1.0732	1.0809	Ave		1.0569				3.1		30.0			
n-Nonane	+++++ 0.3790	0.4551 0.3552	0.4830 0.2994	0.4483	0.4107	Ave		0.4044				16.0		30.0			
m,p-Xylene	+++++ 0.4555	0.4052 0.4547	0.4430 0.4192	0.4452	0.4592	Ave		0.4403				4.6		30.0			
Xylene, o-	+++++ 0.4409	0.3991 0.4455	0.4281 0.4277	0.4309	0.4428	Ave		0.4307				3.7		30.0			
Styrene	+++++ 0.7106	0.5452 0.7160	0.6009 0.6889	0.6757	0.7053	Ave		0.6632				9.8		30.0			
Bromoform	+++++ 0.5506	0.3827 0.5677	0.4173 0.5642	0.4984	0.5335	Ave		0.5021				15.0		30.0			
Cumene	+++++ 1.2577	1.1317 1.2571	1.2050 1.1873	1.2395	1.2648	Ave		1.2204				4.0		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.5883	0.5757 0.5667	0.6158 0.4999	0.6251	0.6116	Ave		0.5833				7.3		30.0			
n-Propylbenzene	+++++ 1.4526	1.4124 1.4151	1.4790 1.2576	1.5018	1.4844	Ave		1.4290				5.8		30.0			
1,2,3-Trichloropropane	+++++ 0.4301	+++++ 0.4101	0.4882 0.3565	0.4745	0.4552	Ave		0.4358				11.0		30.0			
n-Decane	+++++ 0.4542	+++++ 0.4059	0.6224 0.3021	0.5793	0.4983	Ave		0.4770				24.0		30.0			
4-Ethyltoluene	+++++ 1.2953	1.1892 1.2529	1.2601 1.0470	1.3220	1.3254	Ave		1.2417				7.9		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21172-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	+++++ 0.9769	0.9664 0.9291	1.0126 0.7648	1.0437	1.0202	Ave		0.9591				9.8		30.0			
1,3,5-Trimethylbenzene	+++++ 1.0708	0.9593 1.0628	1.0233 0.9827	1.0693	1.0706	Ave		1.0341				4.5		30.0			
Alpha Methyl Styrene	+++++ 0.5964	0.4409 0.5996	0.4649 0.5800	0.5597	0.5703	Ave		0.5445				12.0		30.0			
tert-Butylbenzene	+++++ 1.0617	0.9085 1.0675	1.0000 1.0087	1.0382	1.0519	Ave		1.0195				5.4		30.0			
1,2,4-Trimethylbenzene	+++++ 1.0757	0.9471 1.0619	0.9981 0.9804	1.0776	1.0682	Ave		1.0298				5.2		30.0			
sec-Butylbenzene	+++++ 1.5466	1.4102 1.5268	1.4873 1.3862	1.5623	1.5484	Ave		1.4954				4.7		30.0			
4-Isopropyltoluene	+++++ 1.3870	1.1811 1.3883	1.2425 1.2652	1.3546	1.3614	Ave		1.3115				6.2		30.0			
1,3-Dichlorobenzene	+++++ 0.8174	0.6914 0.8180	0.6658 0.7835	0.7792	0.7958	Ave		0.7644				8.0		30.0			
1,4-Dichlorobenzene	+++++ 0.8186	0.6903 0.8196	0.6690 0.7953	0.7654	0.7945	Ave		0.7647				8.0		30.0			
Benzyl chloride	+++++ 0.9439	0.8388 0.9149	0.8501 0.8624	0.9640	0.9621	Ave		0.9052				6.0		30.0			
n-Butylbenzene	+++++ 1.0865	1.1000 1.0067	1.1109 0.7914	1.2053	1.1374	Ave		1.0626				13.0		30.0			
n-Undecane	+++++ 0.4618	+++++ 0.3898	+++++ 0.2558	0.6453	0.4763	Ave		0.4458				32.0	*	30.0			
1,2-Dichlorobenzene	+++++ 0.7609	0.6678 0.7630	0.6407 0.7513	0.7239	0.7388	Ave		0.7209				6.7		30.0			
n-Dodecane	+++++ 0.5264	+++++ 0.4572	+++++ 0.2040	0.6058	0.3060	Ave		0.4199				39.0	*	30.0			
1,2,4-Trichlorobenzene	+++++ 0.6507	+++++ 0.6077	0.2708 0.4851	0.5217	0.5159	Ave		0.5087				26.0		30.0			
Hexachlorobutadiene	+++++ 0.5595	0.4362 0.5567	0.4306 0.3699	0.5220	0.5079	Ave		0.4833				15.0		30.0			
Naphthalene	+++++ 1.3059	+++++ 1.0506	0.3315 0.9664	0.8109	0.8281	Ave		0.8822				37.0	*	30.0			
1,2,3-Trichlorobenzene	+++++ 0.5601	0.4638 0.5130	0.2207 0.3312	0.4522	0.4139	Ave		0.4221				27.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21172-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-66774/3	cma003.D
Level 2	IC 200-66774/4	cma004.D
Level 3	IC 200-66774/5	cma005.D
Level 4	IC 200-66774/6	cma006.D
Level 5	ICIS 200-66774/7	cma007.D
Level 6	IC 200-66774/8	cma008.D
Level 7	IC 200-66774/9	cma009.D
Level 8	IC 200-66774/10	cma010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 124122	+++++ 157143	5571 298655	42935	84638	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	+++++ 1316189	+++++ 1754058	45377 3315356	440533	898118	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	+++++ 392514	+++++ 521868	14821 988759	139066	273415	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	+++++ 1368796	17710 1818253	48257 3393002	464216	944889	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	+++++ 197446	+++++ 261114	8190 499671	70501	139299	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	+++++ 294776	+++++ 366810	12186 693094	98918	192043	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	703 332260	4392 445864	11803 846985	114705	228021	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	+++++ 204506	2835 273104	7147 523834	71198	142721	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	+++++ 507195	6831 684801	17513 1326169	167437	347831	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	+++++ 158262	+++++ 210748	5829 411528	54348	109569	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	+++++ 187359	3388 244772	7633 466708	65852	127794	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoethene(Vinyl Bromide)	BCM	Ave	+++++ 645267	8057 868559	21104 1680461	206549	431306	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	+++++ 1556335	19976 2102105	51644 4053828	505743	1048712	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	+++++ 346175	+++++ 434342	13327 823720	119316	228804	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	+++++ 97367	+++++ 186347	24739 432862	45774	74658	+++++ 20.0	+++++ 40.0	5.01 100.0	9.99	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21172-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl ether	BCM	Ave	+++++ 234347	3013 312120	8149 596037	81581	161365	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrolein	BCM	Ave	+++++ 106342	+++++ 132544	+++++ 248766	37975	74508	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Freon TF	BCM	Ave	+++++ 1153017	14226 1548857	38486 2917761	378769	777486	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethene	BCM	Ave	+++++ 549125	6676 738974	18135 1389925	180155	373073	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetone	BCM	Ave	+++++ 295444	+++++ 391172	+++++ 733792	111024	237601	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Carbon disulfide	BCM	Ave	+++++ 1341038	+++++ 1793102	49498 3422690	455113	912494	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopropyl alcohol	BCM	Ave	+++++ 237522	+++++ 286886	+++++ 557249	83134	156436	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
3-Chloropropene	BCM	Ave	+++++ 213885	2882 285868	7954 547043	76006	148213	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	+++++ 213885	+++++ 285861	+++++ 547029	43003	80607	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methylene Chloride	BCM	Ave	+++++ 242935	+++++ 320938	11288 614488	89173	167207	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
tert-Butyl alcohol	BCM	Ave	+++++ 592633	+++++ 742921	+++++ 1431100	200334	390095	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methyl tert-butyl ether	BCM	Ave	+++++ 1303626	15814 1740821	43452 3327207	433281	884266	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,2-Dichloroethene	BCM	Ave	+++++ 501227	6481 666324	17829 1245123	173528	346536	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrylonitrile	BCM	Ave	+++++ 193356	+++++ 254226	6503 499532	67000	132521	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Hexane	BCM	Ave	+++++ 499690	6841 641670	18551 1221057	169121	333354	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethane	BCM	Ave	1756 715112	9456 963481	24506 1848529	244466	490369	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Vinyl acetate	BCM	Ave	+++++ 561708	+++++ 745535	+++++ 1441251	195275	361815	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
cis-1,2-Dichloroethene	BCM	Ave	+++++ 757771	9157 1028480	24378 2001034	237194	503475	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Ethyl Ketone	BCM	Ave	+++++ 276633	+++++ 370305	11432 706139	92669	191902	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Ethyl acetate	BCM	Ave	+++++ 64014	+++++ 86361	+++++ 165484	19335	42054	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Tetrahydrofuran	DFB	Ave	+++++ 289349	+++++ 371828	+++++ 708235	105798	201675	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21172-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	+++++ 1396759	17262 1893294	45374 3646312	448827	934006	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFB	Ave	+++++ 1020592	12523 1378482	32227 2636392	320896	674009	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFB	Ave	+++++ 1615260	19053 2209737	50442 4276728	503779	1068292	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFB	Ave	4267 1828171	19989 2532074	54412 4988641	551593	1194161	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFB	Ave	+++++ 2570029	34225 3374963	91084 6155007	889099	1772110	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFB	Ave	+++++ 2311015	30171 3118954	75512 5893988	733560	1541036	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFB	Ave	+++++ 814888	9772 1104020	27010 2131827	266586	549003	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFB	Ave	+++++ 704042	10999 900677	27101 1619771	256172	489714	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFB	Ave	+++++ 349357	+++++ 425996	+++++ 798972	114306	217103	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Trichloroethene	DFB	Ave	3192 1233269	14274 1714473	37062 3345512	358675	789784	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFB	Ave	+++++ 864837	10622 1163175	28037 2197076	275105	578531	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFB	Ave	+++++ 942825	+++++ 1286318	26422 2468173	283187	614278	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFB	Ave	+++++ 431565	+++++ 543037	+++++ 999017	131628	277018	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Dibromomethane	DFB	Ave	+++++ 1291367	12513 1868268	32333 3885444	334700	786588	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromodichloromethane	DFB	Ave	+++++ 1896111	20532 2602704	54274 5051043	565458	1228678	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFB	Ave	+++++ 1531995	16495 2100471	44401 4095202	455388	992342	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
methyl isobutyl ketone	DFB	Ave	+++++ 1120828	+++++ 1456998	38613 2646426	394075	781397	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Toluene	CBZ	Ave	+++++ 2196929	25455 3047441	62424 5885894	628054	1407345	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Octane	DFB	Ave	+++++ 1196735	18652 1508661	47800 2499868	449048	853405	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFB	Ave	+++++ 1573168	19466 2165511	46779 4222649	477111	1041881	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBZ	Ave	+++++ 1001770	10948 1377991	29041 2648591	295352	649014	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21172-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	4229 2031274	19177 2943208	50675 6064560	527159	1245014	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	+++++ 1100791	+++++ 1421043	37430 2552778	385316	763872	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBZ	Ave	+++++ 2252964	19986 3201569	53484 6521503	606906	1402463	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dibromoethane	CBZ	Ave	+++++ 2013934	20146 2831746	51874 5581701	559382	1271910	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBZ	Ave	+++++ 3180517	33042 4487860	84317 8980350	872800	1999703	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBZ	Ave	+++++ 4757073	51427 6600852	134729 12725806	1371777	3048982	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Nonane	CBZ	Ave	+++++ 1689974	22977 2202089	59655 3797852	572999	1158583	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m,p-Xylene	CBZ	Ave	+++++ 4062425	40912 5638403	109426 10635110	1138257	2590473	+++++ 30.0	0.401 40.0	1.00 80.0	9.99	20.0
Xylene, o-	CBZ	Ave	+++++ 1965912	20148 2761754	52875 5425653	550762	1249103	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBZ	Ave	+++++ 3168626	27525 4439325	74216 8738808	863740	1989385	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBZ	Ave	+++++ 2455409	19324 3519944	51533 7156617	637087	1504831	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cumene	CBZ	Ave	+++++ 5608554	57135 7793634	148819 15060699	1584424	3567777	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	+++++ 2623603	29067 3513658	76052 6341028	799069	1725251	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Propylbenzene	CBZ	Ave	+++++ 6477530	71307 8773755	182650 15953282	1919597	4187105	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichloropropane	CBZ	Ave	+++++ 1917898	+++++ 2542638	60287 4522411	606575	1283930	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Decane	CBZ	Ave	+++++ 2025555	+++++ 2516659	76865 3831625	740523	1405567	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBZ	Ave	+++++ 5776169	60039 7768139	155619 13281490	1689816	3738585	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBZ	Ave	+++++ 4356577	48789 5760441	125060 9701240	1334057	2877864	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBZ	Ave	+++++ 4774950	48434 6588946	126376 12465448	1366762	3019837	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Alpha Methyl Styrene	CBZ	Ave	+++++ 2659502	22259 3717362	57416 7357313	715477	1608683	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
tert-Butylbenzene	CBZ	Ave	+++++ 4734472	45870 6618459	123503 12795874	1327113	2967315	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21172-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBZ	Ave	+++++ 4796792	47819 6583826	123258 12436082	1377412	3013132	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBZ	Ave	+++++ 6896883	71199 9466258	183683 17583772	1996965	4367727	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBZ	Ave	+++++ 6185335	59633 8607057	153445 16048695	1731528	3840403	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBZ	Ave	+++++ 3645061	34909 5071291	82226 9939069	996013	2244736	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBZ	Ave	+++++ 3650630	34850 5081191	82626 10088897	978415	2241230	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBZ	Ave	+++++ 4209069	42350 5672247	104986 10939788	1232207	2713993	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butylbenzene	CBZ	Ave	+++++ 4845205	55538 6241306	137191 10038946	1540692	3208309	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBZ	Ave	+++++ 2059120	+++++ 2416563	+++++ 3244490	824877	1343489	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
1,2-Dichlorobenzene	CBZ	Ave	+++++ 3393031	33715 4730576	79120 9530424	925329	2084160	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBZ	Ave	+++++ 2347257	+++++ 2834400	+++++ 2587541	774295	863185	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 2901798	+++++ 3767518	33442 6153908	666882	1455384	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBZ	Ave	+++++ 2494911	22022 3451475	53181 4692774	667222	1432742	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Naphthalene	CBZ	Ave	+++++ 5823598	+++++ 6513834	40941 12259209	1036507	2335893	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 2497503	23415 3180482	27258 4201320	578055	1167583	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

Curve Type Legend:
Ave = Average ISTD

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21174-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-66774/3	cma003.D
Level 2	IC 200-66774/4	cma004.D
Level 3	IC 200-66774/5	cma005.D
Level 4	IC 200-66774/6	cma006.D
Level 5	ICIS 200-66774/7	cma007.D
Level 6	IC 200-66774/8	cma008.D
Level 7	IC 200-66774/9	cma009.D
Level 8	IC 200-66774/10	cma010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	+++++ 0.1534	+++++ 0.1423	0.2322 0.1326	0.1758	0.1615	Ave		0.1663				21.0		30.0			
Dichlorodifluoromethane	+++++ 1.6269	+++++ 1.5883	1.8917 1.4716	1.8041	1.7138	Ave		1.6827				9.0		30.0			
Freon 22	+++++ 0.4852	+++++ 0.4726	0.6178 0.4389	0.5695	0.5217	Ave		0.5176				13.0		30.0			
1,2-Dichlorotetrafluoroethane	+++++ 1.6919	1.8113 1.6464	2.0117 1.5061	1.9011	1.8031	Ave		1.7674				9.5		30.0			
Chloromethane	+++++ 0.2441	+++++ 0.2364	0.3414 0.2218	0.2887	0.2658	Ave		0.2664				16.0		30.0			
n-Butane	+++++ 0.3644	+++++ 0.3322	0.5080 0.3077	0.4051	0.3665	Ave		0.3806				19.0		30.0			
Vinyl chloride	0.3430 0.4107	0.4492 0.4037	0.4920 0.3760	0.4698	0.4351	Ave		0.4224				12.0		30.0			
1,3-Butadiene	+++++ 0.2528	0.2900 0.2473	0.2979 0.2325	0.2916	0.2723	Ave		0.2692				9.4		30.0			
Bromomethane	+++++ 0.6269	0.6986 0.6201	0.7301 0.5887	0.6857	0.6637	Ave		0.6591				7.5		30.0			
Chloroethane	+++++ 0.1956	+++++ 0.1908	0.2430 0.1827	0.2226	0.2091	Ave		0.2073				11.0		30.0			
Isopentane	+++++ 0.2316	0.3465 0.2216	0.3182 0.2072	0.2697	0.2439	Ave		0.2627				20.0		30.0			
Bromoethene(Vinyl Bromide)	+++++ 0.7976	0.8240 0.7865	0.8798 0.7459	0.8459	0.8230	Ave		0.8147				5.3		30.0			
Trichlorofluoromethane	+++++ 1.9237	2.0430 1.9035	2.1529 1.7994	2.0712	2.0012	Ave		1.9850				6.0		30.0			
n-Pentane	+++++ 0.4279	+++++ 0.3933	0.5556 0.3656	0.4886	0.4366	Ave		0.4446				15.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21174-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	+++++ 0.0901	+++++ 0.0844	0.1030 0.0769	0.0937	0.0949	Ave		0.0905				10.0		30.0			
Ethyl ether	+++++ 0.2897	0.3082 0.2826	0.3397 0.2646	0.3341	0.3079	Ave		0.3038				8.9		30.0			
Acrolein	+++++ 0.1314	+++++ 0.1200	+++++ 0.1104	0.1555	0.1422	Ave		0.1319				13.0		30.0			
Freon TF	+++++ 1.4252	1.4550 1.4025	1.6044 1.2952	1.5512	1.4836	Ave		1.4596				6.9		30.0			
1,1-Dichloroethene	+++++ 0.6788	0.6828 0.6691	0.7560 0.6170	0.7378	0.7119	Ave		0.6933				6.7		30.0			
Acetone	+++++ 0.3652	+++++ 0.3542	+++++ 0.3257	0.4547	0.4534	Ave		0.3906				15.0		30.0			
Carbon disulfide	+++++ 1.6576	+++++ 1.6237	2.0634 1.5193	1.8638	1.7412	Ave		1.7449				11.0		30.0			
Isopropyl alcohol	+++++ 0.2936	+++++ 0.2598	+++++ 0.2474	0.3405	0.2985	Ave		0.2879				13.0		30.0			
3-Chloropropene	+++++ 0.2644	0.2948 0.2589	0.3316 0.2428	0.3113	0.2828	Ave		0.2838				11.0		30.0			
Acetonitrile	+++++ 0.2644	+++++ 0.2589	+++++ 0.2428	0.1761	0.1538	Ave		0.2192				23.0		30.0			
Methylene Chloride	+++++ 0.3003	+++++ 0.2906	0.4706 0.2728	0.3652	0.3191	Ave		0.3364				22.0		30.0			
tert-Butyl alcohol	+++++ 0.7325	+++++ 0.6727	+++++ 0.6352	0.8204	0.7444	Ave		0.7211				9.9		30.0			
Methyl tert-butyl ether	+++++ 1.6114	1.6174 1.5763	1.8114 1.4769	1.7744	1.6874	Ave		1.6507				7.0		30.0			
trans-1,2-Dichloroethene	+++++ 0.6196	0.6628 0.6034	0.7432 0.5527	0.7107	0.6613	Ave		0.6505				10.0		30.0			
Acrylonitrile	+++++ 0.2390	+++++ 0.2302	0.2711 0.2217	0.2744	0.2529	Ave		0.2482				8.7		30.0			
n-Hexane	+++++ 0.6177	0.6997 0.5810	0.7733 0.5420	0.6926	0.6361	Ave		0.6489				12.0		30.0			
1,1-Dichloroethane	0.8567 0.8839	0.9671 0.8724	1.0216 0.8205	1.0012	0.9357	Ave		0.9199				7.9		30.0			
Vinyl acetate	+++++ 0.6943	+++++ 0.6751	+++++ 0.6397	0.7997	0.6904	Ave		0.6999				8.5		30.0			
cis-1,2-Dichloroethene	+++++ 0.9367	0.9365 0.9313	1.0163 0.8882	0.9714	0.9607	Ave		0.9487				4.2		30.0			
Methyl Ethyl Ketone	+++++ 0.3419	+++++ 0.3353	0.4766 0.3134	0.3795	0.3662	Ave		0.3688				16.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21174-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	+++++ 0.0791	+++++ 0.0782	+++++ 0.0735	0.0792	0.0802	Ave		0.0780				3.4		30.0			
Tetrahydrofuran	+++++ 0.0625	+++++ 0.0581	+++++ 0.0543	0.0787	0.0686	Ave		0.0644				15.0		30.0			
Chloroform	+++++ 1.7265	1.7655 1.7144	1.8915 1.6185	1.8381	1.7823	Ave		1.7624				5.0		30.0			
Cyclohexane	+++++ 0.2206	0.2314 0.2153	0.2433 0.2020	0.2386	0.2294	Ave		0.2258				6.3		30.0			
1,1,1-Trichloroethane	+++++ 0.3491	0.3520 0.3451	0.3809 0.3276	0.3746	0.3635	Ave		0.3561				5.1		30.0			
Carbon tetrachloride	0.3658 0.3951	0.3693 0.3955	0.4109 0.3822	0.4102	0.4064	Ave		0.3919				4.5		30.0			
2,2,4-Trimethylpentane	+++++ 0.5555	0.6323 0.5271	0.6878 0.4715	0.6611	0.6030	Ave		0.5912				13.0		30.0			
Benzene	+++++ 0.4995	0.5574 0.4871	0.5702 0.4515	0.5455	0.5244	Ave		0.5194				8.2		30.0			
1,2-Dichloroethane	+++++ 0.1761	0.1805 0.1724	0.2040 0.1633	0.1982	0.1868	Ave		0.1831				7.8		30.0			
n-Heptane	+++++ 0.1522	0.2032 0.1407	0.2046 0.1241	0.1905	0.1666	Ave		0.1688				19.0		30.0			
n-Butanol	+++++ 0.0755	+++++ 0.0665	+++++ 0.0612	0.0850	0.0739	Ave		0.0724				13.0		30.0			
Trichloroethene	0.2736 0.2665	0.2637 0.2678	0.2799 0.2563	0.2667	0.2688	Ave		0.2679				2.6		30.0			
1,2-Dichloropropane	+++++ 0.1869	0.1963 0.1817	0.2117 0.1683	0.2046	0.1969	Ave		0.1923				7.6		30.0			
Methyl methacrylate	+++++ 0.2038	+++++ 0.2009	0.1995 0.1891	0.2106	0.2090	Ave		0.2021				3.8		30.0			
1,4-Dioxane	+++++ 0.0933	+++++ 0.0848	+++++ 0.0765	0.0979	0.0943	Ave		0.0894				9.6		30.0			
Dibromomethane	+++++ 0.2791	0.2312 0.2918	0.2441 0.2976	0.2489	0.2677	Ave		0.2658				9.5		30.0			
Bromodichloromethane	+++++ 0.4098	0.3793 0.4065	0.4098 0.3869	0.4205	0.4181	Ave		0.4044				3.8		30.0			
cis-1,3-Dichloropropene	+++++ 0.3311	0.3048 0.3280	0.3353 0.3137	0.3386	0.3377	Ave		0.3270				4.0		30.0			
methyl isobutyl ketone	+++++ 0.2422	+++++ 0.2276	0.2916 0.2027	0.2930	0.2659	Ave		0.2538				14.0		30.0			
Toluene	+++++ 0.4927	0.5042 0.4915	0.5055 0.4640	0.4913	0.4989	Ave		0.4926				2.8		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21174-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Octane	+++++ 0.2586	0.3446 0.2356	0.3609 0.1915	0.3339	0.2904	Ave		0.2879				22.0		30.0			
trans-1,3-Dichloropropene	+++++ 0.3400	0.3597 0.3382	0.3532 0.3235	0.3548	0.3545	Ave		0.3463				3.7		30.0			
1,1,2-Trichloroethane	+++++ 0.2246	0.2168 0.2223	0.2352 0.2088	0.2311	0.2301	Ave		0.2241				4.1		30.0			
Tetrachloroethene	0.3897 0.4555	0.3798 0.4747	0.4103 0.4781	0.4124	0.4414	Ave		0.4302				8.8		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.2468	+++++ 0.2292	0.3031 0.2012	0.3014	0.2708	Ave		0.2588				16.0		30.0			
Dibromochloromethane	+++++ 0.5052	0.3959 0.5164	0.4331 0.5141	0.4748	0.4972	Ave		0.4767				9.6		30.0			
1,2-Dibromoethane	+++++ 0.4516	0.3990 0.4567	0.4200 0.4400	0.4376	0.4509	Ave		0.4366				4.7		30.0			
Chlorobenzene	+++++ 0.7132	0.6545 0.7239	0.6827 0.7079	0.6828	0.7089	Ave		0.6963				3.4		30.0			
Ethylbenzene	+++++ 1.0668	1.0186 1.0647	1.0909 1.0032	1.0732	1.0809	Ave		1.0569				3.1		30.0			
n-Nonane	+++++ 0.3790	0.4551 0.3552	0.4830 0.2994	0.4483	0.4107	Ave		0.4044				16.0		30.0			
m,p-Xylene	+++++ 0.4555	0.4052 0.4547	0.4430 0.4192	0.4452	0.4592	Ave		0.4403				4.6		30.0			
Xylene, o-	+++++ 0.4409	0.3991 0.4455	0.4281 0.4277	0.4309	0.4428	Ave		0.4307				3.7		30.0			
Styrene	+++++ 0.7106	0.5452 0.7160	0.6009 0.6889	0.6757	0.7053	Ave		0.6632				9.8		30.0			
Bromoform	+++++ 0.5506	0.3827 0.5677	0.4173 0.5642	0.4984	0.5335	Ave		0.5021				15.0		30.0			
Cumene	+++++ 1.2577	1.1317 1.2571	1.2050 1.1873	1.2395	1.2648	Ave		1.2204				4.0		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.5883	0.5757 0.5667	0.6158 0.4999	0.6251	0.6116	Ave		0.5833				7.3		30.0			
n-Propylbenzene	+++++ 1.4526	1.4124 1.4151	1.4790 1.2576	1.5018	1.4844	Ave		1.4290				5.8		30.0			
1,2,3-Trichloropropane	+++++ 0.4301	+++++ 0.4101	0.4882 0.3565	0.4745	0.4552	Ave		0.4358				11.0		30.0			
n-Decane	+++++ 0.4542	+++++ 0.4059	0.6224 0.3021	0.5793	0.4983	Ave		0.4770				24.0		30.0			
4-Ethyltoluene	+++++ 1.2953	1.1892 1.2529	1.2601 1.0470	1.3220	1.3254	Ave		1.2417				7.9		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21174-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	+++++ 0.9769	0.9664 0.9291	1.0126 0.7648	1.0437	1.0202	Ave		0.9591				9.8		30.0			
1,3,5-Trimethylbenzene	+++++ 1.0708	0.9593 1.0628	1.0233 0.9827	1.0693	1.0706	Ave		1.0341				4.5		30.0			
Alpha Methyl Styrene	+++++ 0.5964	0.4409 0.5996	0.4649 0.5800	0.5597	0.5703	Ave		0.5445				12.0		30.0			
tert-Butylbenzene	+++++ 1.0617	0.9085 1.0675	1.0000 1.0087	1.0382	1.0519	Ave		1.0195				5.4		30.0			
1,2,4-Trimethylbenzene	+++++ 1.0757	0.9471 1.0619	0.9981 0.9804	1.0776	1.0682	Ave		1.0298				5.2		30.0			
sec-Butylbenzene	+++++ 1.5466	1.4102 1.5268	1.4873 1.3862	1.5623	1.5484	Ave		1.4954				4.7		30.0			
4-Isopropyltoluene	+++++ 1.3870	1.1811 1.3883	1.2425 1.2652	1.3546	1.3614	Ave		1.3115				6.2		30.0			
1,3-Dichlorobenzene	+++++ 0.8174	0.6914 0.8180	0.6658 0.7835	0.7792	0.7958	Ave		0.7644				8.0		30.0			
1,4-Dichlorobenzene	+++++ 0.8186	0.6903 0.8196	0.6690 0.7953	0.7654	0.7945	Ave		0.7647				8.0		30.0			
Benzyl chloride	+++++ 0.9439	0.8388 0.9149	0.8501 0.8624	0.9640	0.9621	Ave		0.9052				6.0		30.0			
n-Butylbenzene	+++++ 1.0865	1.1000 1.0067	1.1109 0.7914	1.2053	1.1374	Ave		1.0626				13.0		30.0			
n-Undecane	+++++ 0.4618	+++++ 0.3898	+++++ 0.2558	0.6453	0.4763	Ave		0.4458				32.0	*	30.0			
1,2-Dichlorobenzene	+++++ 0.7609	0.6678 0.7630	0.6407 0.7513	0.7239	0.7388	Ave		0.7209				6.7		30.0			
n-Dodecane	+++++ 0.5264	+++++ 0.4572	+++++ 0.2040	0.6058	0.3060	Ave		0.4199				39.0	*	30.0			
1,2,4-Trichlorobenzene	+++++ 0.6507	+++++ 0.6077	0.2708 0.4851	0.5217	0.5159	Ave		0.5087				26.0		30.0			
Hexachlorobutadiene	+++++ 0.5595	0.4362 0.5567	0.4306 0.3699	0.5220	0.5079	Ave		0.4833				15.0		30.0			
Naphthalene	+++++ 1.3059	+++++ 1.0506	0.3315 0.9664	0.8109	0.8281	Ave		0.8822				37.0	*	30.0			
1,2,3-Trichlorobenzene	+++++ 0.5601	0.4638 0.5130	0.2207 0.3312	0.4522	0.4139	Ave		0.4221				27.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21174-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-66774/3	cma003.D
Level 2	IC 200-66774/4	cma004.D
Level 3	IC 200-66774/5	cma005.D
Level 4	IC 200-66774/6	cma006.D
Level 5	ICIS 200-66774/7	cma007.D
Level 6	IC 200-66774/8	cma008.D
Level 7	IC 200-66774/9	cma009.D
Level 8	IC 200-66774/10	cma010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 124122	+++++ 157143	5571 298655	42935	84638	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	+++++ 1316189	+++++ 1754058	45377 3315356	440533	898118	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	+++++ 392514	+++++ 521868	14821 988759	139066	273415	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	+++++ 1368796	17710 1818253	48257 3393002	464216	944889	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	+++++ 197446	+++++ 261114	8190 499671	70501	139299	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	+++++ 294776	+++++ 366810	12186 693094	98918	192043	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	703 332260	4392 445864	11803 846985	114705	228021	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	+++++ 204506	2835 273104	7147 523834	71198	142721	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	+++++ 507195	6831 684801	17513 1326169	167437	347831	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	+++++ 158262	+++++ 210748	5829 411528	54348	109569	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	+++++ 187359	3388 244772	7633 466708	65852	127794	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoethene(Vinyl Bromide)	BCM	Ave	+++++ 645267	8057 868559	21104 1680461	206549	431306	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	+++++ 1556335	19976 2102105	51644 4053828	505743	1048712	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	+++++ 346175	+++++ 434342	13327 823720	119316	228804	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	+++++ 97367	+++++ 186347	24739 432862	45774	74658	+++++ 20.0	+++++ 40.0	5.01 100.0	9.99	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21174-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl ether	BCM	Ave	+++++ 234347	3013 312120	8149 596037	81581	161365	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrolein	BCM	Ave	+++++ 106342	+++++ 132544	+++++ 248766	37975	74508	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Freon TF	BCM	Ave	+++++ 1153017	14226 1548857	38486 2917761	378769	777486	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethene	BCM	Ave	+++++ 549125	6676 738974	18135 1389925	180155	373073	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetone	BCM	Ave	+++++ 295444	+++++ 391172	+++++ 733792	111024	237601	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Carbon disulfide	BCM	Ave	+++++ 1341038	+++++ 1793102	49498 3422690	455113	912494	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopropyl alcohol	BCM	Ave	+++++ 237522	+++++ 286886	+++++ 557249	83134	156436	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
3-Chloropropene	BCM	Ave	+++++ 213885	2882 285868	7954 547043	76006	148213	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	+++++ 213885	+++++ 285861	+++++ 547029	43003	80607	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methylene Chloride	BCM	Ave	+++++ 242935	+++++ 320938	11288 614488	89173	167207	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
tert-Butyl alcohol	BCM	Ave	+++++ 592633	+++++ 742921	+++++ 1431100	200334	390095	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methyl tert-butyl ether	BCM	Ave	+++++ 1303626	15814 1740821	43452 3327207	433281	884266	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,2-Dichloroethene	BCM	Ave	+++++ 501227	6481 666324	17829 1245123	173528	346536	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrylonitrile	BCM	Ave	+++++ 193356	+++++ 254226	6503 499532	67000	132521	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Hexane	BCM	Ave	+++++ 499690	6841 641670	18551 1221057	169121	333354	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethane	BCM	Ave	1756 715112	9456 963481	24506 1848529	244466	490369	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Vinyl acetate	BCM	Ave	+++++ 561708	+++++ 745535	+++++ 1441251	195275	361815	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
cis-1,2-Dichloroethene	BCM	Ave	+++++ 757771	9157 1028480	24378 2001034	237194	503475	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Ethyl Ketone	BCM	Ave	+++++ 276633	+++++ 370305	11432 706139	92669	191902	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Ethyl acetate	BCM	Ave	+++++ 64014	+++++ 86361	+++++ 165484	19335	42054	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Tetrahydrofuran	DFB	Ave	+++++ 289349	+++++ 371828	+++++ 708235	105798	201675	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21174-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	+++++ 1396759	17262 1893294	45374 3646312	448827	934006	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFB	Ave	+++++ 1020592	12523 1378482	32227 2636392	320896	674009	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFB	Ave	+++++ 1615260	19053 2209737	50442 4276728	503779	1068292	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFB	Ave	4267 1828171	19989 2532074	54412 4988641	551593	1194161	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFB	Ave	+++++ 2570029	34225 3374963	91084 6155007	889099	1772110	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFB	Ave	+++++ 2311015	30171 3118954	75512 5893988	733560	1541036	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFB	Ave	+++++ 814888	9772 1104020	27010 2131827	266586	549003	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFB	Ave	+++++ 704042	10999 900677	27101 1619771	256172	489714	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFB	Ave	+++++ 349357	+++++ 425996	+++++ 798972	114306	217103	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Trichloroethene	DFB	Ave	3192 1233269	14274 1714473	37062 3345512	358675	789784	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFB	Ave	+++++ 864837	10622 1163175	28037 2197076	275105	578531	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFB	Ave	+++++ 942825	+++++ 1286318	26422 2468173	283187	614278	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFB	Ave	+++++ 431565	+++++ 543037	+++++ 999017	131628	277018	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Dibromomethane	DFB	Ave	+++++ 1291367	12513 1868268	32333 3885444	334700	786588	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromodichloromethane	DFB	Ave	+++++ 1896111	20532 2602704	54274 5051043	565458	1228678	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFB	Ave	+++++ 1531995	16495 2100471	44401 4095202	455388	992342	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
methyl isobutyl ketone	DFB	Ave	+++++ 1120828	+++++ 1456998	38613 2646426	394075	781397	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Toluene	CBZ	Ave	+++++ 2196929	25455 3047441	62424 5885894	628054	1407345	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Octane	DFB	Ave	+++++ 1196735	18652 1508661	47800 2499868	449048	853405	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFB	Ave	+++++ 1573168	19466 2165511	46779 4222649	477111	1041881	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBZ	Ave	+++++ 1001770	10948 1377991	29041 2648591	295352	649014	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21174-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	4229 2031274	19177 2943208	50675 6064560	527159	1245014	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	+++++ 1100791	+++++ 1421043	37430 2552778	385316	763872	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBZ	Ave	+++++ 2252964	19986 3201569	53484 6521503	606906	1402463	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dibromoethane	CBZ	Ave	+++++ 2013934	20146 2831746	51874 5581701	559382	1271910	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBZ	Ave	+++++ 3180517	33042 4487860	84317 8980350	872800	1999703	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBZ	Ave	+++++ 4757073	51427 6600852	134729 12725806	1371777	3048982	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Nonane	CBZ	Ave	+++++ 1689974	22977 2202089	59655 3797852	572999	1158583	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m,p-Xylene	CBZ	Ave	+++++ 4062425	40912 5638403	109426 10635110	1138257	2590473	+++++ 30.0	0.401 40.0	1.00 80.0	9.99	20.0
Xylene, o-	CBZ	Ave	+++++ 1965912	20148 2761754	52875 5425653	550762	1249103	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBZ	Ave	+++++ 3168626	27525 4439325	74216 8738808	863740	1989385	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBZ	Ave	+++++ 2455409	19324 3519944	51533 7156617	637087	1504831	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cumene	CBZ	Ave	+++++ 5608554	57135 7793634	148819 15060699	1584424	3567777	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	+++++ 2623603	29067 3513658	76052 6341028	799069	1725251	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Propylbenzene	CBZ	Ave	+++++ 6477530	71307 8773755	182650 15953282	1919597	4187105	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichloropropane	CBZ	Ave	+++++ 1917898	+++++ 2542638	60287 4522411	606575	1283930	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Decane	CBZ	Ave	+++++ 2025555	+++++ 2516659	76865 3831625	740523	1405567	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBZ	Ave	+++++ 5776169	60039 7768139	155619 13281490	1689816	3738585	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBZ	Ave	+++++ 4356577	48789 5760441	125060 9701240	1334057	2877864	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBZ	Ave	+++++ 4774950	48434 6588946	126376 12465448	1366762	3019837	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Alpha Methyl Styrene	CBZ	Ave	+++++ 2659502	22259 3717362	57416 7357313	715477	1608683	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
tert-Butylbenzene	CBZ	Ave	+++++ 4734472	45870 6618459	123503 12795874	1327113	2967315	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21174-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBZ	Ave	+++++ 4796792	47819 6583826	123258 12436082	1377412	3013132	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBZ	Ave	+++++ 6896883	71199 9466258	183683 17583772	1996965	4367727	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBZ	Ave	+++++ 6185335	59633 8607057	153445 16048695	1731528	3840403	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBZ	Ave	+++++ 3645061	34909 5071291	82226 9939069	996013	2244736	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBZ	Ave	+++++ 3650630	34850 5081191	82626 10088897	978415	2241230	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBZ	Ave	+++++ 4209069	42350 5672247	104986 10939788	1232207	2713993	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butylbenzene	CBZ	Ave	+++++ 4845205	55538 6241306	137191 10038946	1540692	3208309	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBZ	Ave	+++++ 2059120	+++++ 2416563	+++++ 3244490	824877	1343489	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
1,2-Dichlorobenzene	CBZ	Ave	+++++ 3393031	33715 4730576	79120 9530424	925329	2084160	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBZ	Ave	+++++ 2347257	+++++ 2834400	+++++ 2587541	774295	863185	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 2901798	+++++ 3767518	33442 6153908	666882	1455384	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBZ	Ave	+++++ 2494911	22022 3451475	53181 4692774	667222	1432742	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Naphthalene	CBZ	Ave	+++++ 5823598	+++++ 6513834	40941 12259209	1036507	2335893	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 2497503	23415 3180482	27258 4201320	578055	1167583	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

Curve Type Legend:
Ave = Average ISTD

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21188-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-66774/3	cma003.D
Level 2	IC 200-66774/4	cma004.D
Level 3	IC 200-66774/5	cma005.D
Level 4	IC 200-66774/6	cma006.D
Level 5	ICIS 200-66774/7	cma007.D
Level 6	IC 200-66774/8	cma008.D
Level 7	IC 200-66774/9	cma009.D
Level 8	IC 200-66774/10	cma010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	+++++ 0.1534	+++++ 0.1423	0.2322 0.1326	0.1758	0.1615	Ave		0.1663				21.0		30.0			
Dichlorodifluoromethane	+++++ 1.6269	+++++ 1.5883	1.8917 1.4716	1.8041	1.7138	Ave		1.6827				9.0		30.0			
Freon 22	+++++ 0.4852	+++++ 0.4726	0.6178 0.4389	0.5695	0.5217	Ave		0.5176				13.0		30.0			
1,2-Dichlorotetrafluoroethane	+++++ 1.6919	1.8113 1.6464	2.0117 1.5061	1.9011	1.8031	Ave		1.7674				9.5		30.0			
Chloromethane	+++++ 0.2441	+++++ 0.2364	0.3414 0.2218	0.2887	0.2658	Ave		0.2664				16.0		30.0			
n-Butane	+++++ 0.3644	+++++ 0.3322	0.5080 0.3077	0.4051	0.3665	Ave		0.3806				19.0		30.0			
Vinyl chloride	0.3430 0.4107	0.4492 0.4037	0.4920 0.3760	0.4698	0.4351	Ave		0.4224				12.0		30.0			
1,3-Butadiene	+++++ 0.2528	0.2900 0.2473	0.2979 0.2325	0.2916	0.2723	Ave		0.2692				9.4		30.0			
Bromomethane	+++++ 0.6269	0.6986 0.6201	0.7301 0.5887	0.6857	0.6637	Ave		0.6591				7.5		30.0			
Chloroethane	+++++ 0.1956	+++++ 0.1908	0.2430 0.1827	0.2226	0.2091	Ave		0.2073				11.0		30.0			
Isopentane	+++++ 0.2316	0.3465 0.2216	0.3182 0.2072	0.2697	0.2439	Ave		0.2627				20.0		30.0			
Bromoethene(Vinyl Bromide)	+++++ 0.7976	0.8240 0.7865	0.8798 0.7459	0.8459	0.8230	Ave		0.8147				5.3		30.0			
Trichlorofluoromethane	+++++ 1.9237	2.0430 1.9035	2.1529 1.7994	2.0712	2.0012	Ave		1.9850				6.0		30.0			
n-Pentane	+++++ 0.4279	+++++ 0.3933	0.5556 0.3656	0.4886	0.4366	Ave		0.4446				15.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21188-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	+++++ 0.0901	+++++ 0.0844	0.1030 0.0769	0.0937	0.0949	Ave		0.0905				10.0		30.0			
Ethyl ether	+++++ 0.2897	0.3082 0.2826	0.3397 0.2646	0.3341	0.3079	Ave		0.3038				8.9		30.0			
Acrolein	+++++ 0.1314	+++++ 0.1200	+++++ 0.1104	0.1555	0.1422	Ave		0.1319				13.0		30.0			
Freon TF	+++++ 1.4252	1.4550 1.4025	1.6044 1.2952	1.5512	1.4836	Ave		1.4596				6.9		30.0			
1,1-Dichloroethene	+++++ 0.6788	0.6828 0.6691	0.7560 0.6170	0.7378	0.7119	Ave		0.6933				6.7		30.0			
Acetone	+++++ 0.3652	+++++ 0.3542	+++++ 0.3257	0.4547	0.4534	Ave		0.3906				15.0		30.0			
Carbon disulfide	+++++ 1.6576	+++++ 1.6237	2.0634 1.5193	1.8638	1.7412	Ave		1.7449				11.0		30.0			
Isopropyl alcohol	+++++ 0.2936	+++++ 0.2598	+++++ 0.2474	0.3405	0.2985	Ave		0.2879				13.0		30.0			
3-Chloropropene	+++++ 0.2644	0.2948 0.2589	0.3316 0.2428	0.3113	0.2828	Ave		0.2838				11.0		30.0			
Acetonitrile	+++++ 0.2644	+++++ 0.2589	+++++ 0.2428	0.1761	0.1538	Ave		0.2192				23.0		30.0			
Methylene Chloride	+++++ 0.3003	+++++ 0.2906	0.4706 0.2728	0.3652	0.3191	Ave		0.3364				22.0		30.0			
tert-Butyl alcohol	+++++ 0.7325	+++++ 0.6727	+++++ 0.6352	0.8204	0.7444	Ave		0.7211				9.9		30.0			
Methyl tert-butyl ether	+++++ 1.6114	1.6174 1.5763	1.8114 1.4769	1.7744	1.6874	Ave		1.6507				7.0		30.0			
trans-1,2-Dichloroethene	+++++ 0.6196	0.6628 0.6034	0.7432 0.5527	0.7107	0.6613	Ave		0.6505				10.0		30.0			
Acrylonitrile	+++++ 0.2390	+++++ 0.2302	0.2711 0.2217	0.2744	0.2529	Ave		0.2482				8.7		30.0			
n-Hexane	+++++ 0.6177	0.6997 0.5810	0.7733 0.5420	0.6926	0.6361	Ave		0.6489				12.0		30.0			
1,1-Dichloroethane	0.8567 0.8839	0.9671 0.8724	1.0216 0.8205	1.0012	0.9357	Ave		0.9199				7.9		30.0			
Vinyl acetate	+++++ 0.6943	+++++ 0.6751	+++++ 0.6397	0.7997	0.6904	Ave		0.6999				8.5		30.0			
cis-1,2-Dichloroethene	+++++ 0.9367	0.9365 0.9313	1.0163 0.8882	0.9714	0.9607	Ave		0.9487				4.2		30.0			
Methyl Ethyl Ketone	+++++ 0.3419	+++++ 0.3353	0.4766 0.3134	0.3795	0.3662	Ave		0.3688				16.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21188-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	+++++ 0.0791	+++++ 0.0782	+++++ 0.0735	0.0792	0.0802	Ave		0.0780				3.4		30.0			
Tetrahydrofuran	+++++ 0.0625	+++++ 0.0581	+++++ 0.0543	0.0787	0.0686	Ave		0.0644				15.0		30.0			
Chloroform	+++++ 1.7265	1.7655 1.7144	1.8915 1.6185	1.8381	1.7823	Ave		1.7624				5.0		30.0			
Cyclohexane	+++++ 0.2206	0.2314 0.2153	0.2433 0.2020	0.2386	0.2294	Ave		0.2258				6.3		30.0			
1,1,1-Trichloroethane	+++++ 0.3491	0.3520 0.3451	0.3809 0.3276	0.3746	0.3635	Ave		0.3561				5.1		30.0			
Carbon tetrachloride	0.3658 0.3951	0.3693 0.3955	0.4109 0.3822	0.4102	0.4064	Ave		0.3919				4.5		30.0			
2,2,4-Trimethylpentane	+++++ 0.5555	0.6323 0.5271	0.6878 0.4715	0.6611	0.6030	Ave		0.5912				13.0		30.0			
Benzene	+++++ 0.4995	0.5574 0.4871	0.5702 0.4515	0.5455	0.5244	Ave		0.5194				8.2		30.0			
1,2-Dichloroethane	+++++ 0.1761	0.1805 0.1724	0.2040 0.1633	0.1982	0.1868	Ave		0.1831				7.8		30.0			
n-Heptane	+++++ 0.1522	0.2032 0.1407	0.2046 0.1241	0.1905	0.1666	Ave		0.1688				19.0		30.0			
n-Butanol	+++++ 0.0755	+++++ 0.0665	+++++ 0.0612	0.0850	0.0739	Ave		0.0724				13.0		30.0			
Trichloroethene	0.2736 0.2665	0.2637 0.2678	0.2799 0.2563	0.2667	0.2688	Ave		0.2679				2.6		30.0			
1,2-Dichloropropane	+++++ 0.1869	0.1963 0.1817	0.2117 0.1683	0.2046	0.1969	Ave		0.1923				7.6		30.0			
Methyl methacrylate	+++++ 0.2038	+++++ 0.2009	0.1995 0.1891	0.2106	0.2090	Ave		0.2021				3.8		30.0			
1,4-Dioxane	+++++ 0.0933	+++++ 0.0848	+++++ 0.0765	0.0979	0.0943	Ave		0.0894				9.6		30.0			
Dibromomethane	+++++ 0.2791	0.2312 0.2918	0.2441 0.2976	0.2489	0.2677	Ave		0.2658				9.5		30.0			
Bromodichloromethane	+++++ 0.4098	0.3793 0.4065	0.4098 0.3869	0.4205	0.4181	Ave		0.4044				3.8		30.0			
cis-1,3-Dichloropropene	+++++ 0.3311	0.3048 0.3280	0.3353 0.3137	0.3386	0.3377	Ave		0.3270				4.0		30.0			
methyl isobutyl ketone	+++++ 0.2422	+++++ 0.2276	0.2916 0.2027	0.2930	0.2659	Ave		0.2538				14.0		30.0			
Toluene	+++++ 0.4927	0.5042 0.4915	0.5055 0.4640	0.4913	0.4989	Ave		0.4926				2.8		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21188-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Octane	+++++ 0.2586	0.3446 0.2356	0.3609 0.1915	0.3339	0.2904	Ave		0.2879				22.0		30.0			
trans-1,3-Dichloropropene	+++++ 0.3400	0.3597 0.3382	0.3532 0.3235	0.3548	0.3545	Ave		0.3463				3.7		30.0			
1,1,2-Trichloroethane	+++++ 0.2246	0.2168 0.2223	0.2352 0.2088	0.2311	0.2301	Ave		0.2241				4.1		30.0			
Tetrachloroethene	0.3897 0.4555	0.3798 0.4747	0.4103 0.4781	0.4124	0.4414	Ave		0.4302				8.8		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.2468	+++++ 0.2292	0.3031 0.2012	0.3014	0.2708	Ave		0.2588				16.0		30.0			
Dibromochloromethane	+++++ 0.5052	0.3959 0.5164	0.4331 0.5141	0.4748	0.4972	Ave		0.4767				9.6		30.0			
1,2-Dibromoethane	+++++ 0.4516	0.3990 0.4567	0.4200 0.4400	0.4376	0.4509	Ave		0.4366				4.7		30.0			
Chlorobenzene	+++++ 0.7132	0.6545 0.7239	0.6827 0.7079	0.6828	0.7089	Ave		0.6963				3.4		30.0			
Ethylbenzene	+++++ 1.0668	1.0186 1.0647	1.0909 1.0032	1.0732	1.0809	Ave		1.0569				3.1		30.0			
n-Nonane	+++++ 0.3790	0.4551 0.3552	0.4830 0.2994	0.4483	0.4107	Ave		0.4044				16.0		30.0			
m,p-Xylene	+++++ 0.4555	0.4052 0.4547	0.4430 0.4192	0.4452	0.4592	Ave		0.4403				4.6		30.0			
Xylene, o-	+++++ 0.4409	0.3991 0.4455	0.4281 0.4277	0.4309	0.4428	Ave		0.4307				3.7		30.0			
Styrene	+++++ 0.7106	0.5452 0.7160	0.6009 0.6889	0.6757	0.7053	Ave		0.6632				9.8		30.0			
Bromoform	+++++ 0.5506	0.3827 0.5677	0.4173 0.5642	0.4984	0.5335	Ave		0.5021				15.0		30.0			
Cumene	+++++ 1.2577	1.1317 1.2571	1.2050 1.1873	1.2395	1.2648	Ave		1.2204				4.0		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.5883	0.5757 0.5667	0.6158 0.4999	0.6251	0.6116	Ave		0.5833				7.3		30.0			
n-Propylbenzene	+++++ 1.4526	1.4124 1.4151	1.4790 1.2576	1.5018	1.4844	Ave		1.4290				5.8		30.0			
1,2,3-Trichloropropane	+++++ 0.4301	+++++ 0.4101	0.4882 0.3565	0.4745	0.4552	Ave		0.4358				11.0		30.0			
n-Decane	+++++ 0.4542	+++++ 0.4059	0.6224 0.3021	0.5793	0.4983	Ave		0.4770				24.0		30.0			
4-Ethyltoluene	+++++ 1.2953	1.1892 1.2529	1.2601 1.0470	1.3220	1.3254	Ave		1.2417				7.9		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-21188-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	+++++ 0.9769	0.9664 0.9291	1.0126 0.7648	1.0437	1.0202	Ave		0.9591				9.8		30.0			
1,3,5-Trimethylbenzene	+++++ 1.0708	0.9593 1.0628	1.0233 0.9827	1.0693	1.0706	Ave		1.0341				4.5		30.0			
Alpha Methyl Styrene	+++++ 0.5964	0.4409 0.5996	0.4649 0.5800	0.5597	0.5703	Ave		0.5445				12.0		30.0			
tert-Butylbenzene	+++++ 1.0617	0.9085 1.0675	1.0000 1.0087	1.0382	1.0519	Ave		1.0195				5.4		30.0			
1,2,4-Trimethylbenzene	+++++ 1.0757	0.9471 1.0619	0.9981 0.9804	1.0776	1.0682	Ave		1.0298				5.2		30.0			
sec-Butylbenzene	+++++ 1.5466	1.4102 1.5268	1.4873 1.3862	1.5623	1.5484	Ave		1.4954				4.7		30.0			
4-Isopropyltoluene	+++++ 1.3870	1.1811 1.3883	1.2425 1.2652	1.3546	1.3614	Ave		1.3115				6.2		30.0			
1,3-Dichlorobenzene	+++++ 0.8174	0.6914 0.8180	0.6658 0.7835	0.7792	0.7958	Ave		0.7644				8.0		30.0			
1,4-Dichlorobenzene	+++++ 0.8186	0.6903 0.8196	0.6690 0.7953	0.7654	0.7945	Ave		0.7647				8.0		30.0			
Benzyl chloride	+++++ 0.9439	0.8388 0.9149	0.8501 0.8624	0.9640	0.9621	Ave		0.9052				6.0		30.0			
n-Butylbenzene	+++++ 1.0865	1.1000 1.0067	1.1109 0.7914	1.2053	1.1374	Ave		1.0626				13.0		30.0			
n-Undecane	+++++ 0.4618	+++++ 0.3898	+++++ 0.2558	0.6453	0.4763	Ave		0.4458				32.0	*	30.0			
1,2-Dichlorobenzene	+++++ 0.7609	0.6678 0.7630	0.6407 0.7513	0.7239	0.7388	Ave		0.7209				6.7		30.0			
n-Dodecane	+++++ 0.5264	+++++ 0.4572	+++++ 0.2040	0.6058	0.3060	Ave		0.4199				39.0	*	30.0			
1,2,4-Trichlorobenzene	+++++ 0.6507	+++++ 0.6077	0.2708 0.4851	0.5217	0.5159	Ave		0.5087				26.0		30.0			
Hexachlorobutadiene	+++++ 0.5595	0.4362 0.5567	0.4306 0.3699	0.5220	0.5079	Ave		0.4833				15.0		30.0			
Naphthalene	+++++ 1.3059	+++++ 1.0506	0.3315 0.9664	0.8109	0.8281	Ave		0.8822				37.0	*	30.0			
1,2,3-Trichlorobenzene	+++++ 0.5601	0.4638 0.5130	0.2207 0.3312	0.4522	0.4139	Ave		0.4221				27.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21188-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-66774/3	cma003.D
Level 2	IC 200-66774/4	cma004.D
Level 3	IC 200-66774/5	cma005.D
Level 4	IC 200-66774/6	cma006.D
Level 5	ICIS 200-66774/7	cma007.D
Level 6	IC 200-66774/8	cma008.D
Level 7	IC 200-66774/9	cma009.D
Level 8	IC 200-66774/10	cma010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 124122	+++++ 157143	5571 298655	42935	84638	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	+++++ 1316189	+++++ 1754058	45377 3315356	440533	898118	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	+++++ 392514	+++++ 521868	14821 988759	139066	273415	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	+++++ 1368796	17710 1818253	48257 3393002	464216	944889	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	+++++ 197446	+++++ 261114	8190 499671	70501	139299	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	+++++ 294776	+++++ 366810	12186 693094	98918	192043	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	703 332260	4392 445864	11803 846985	114705	228021	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	+++++ 204506	2835 273104	7147 523834	71198	142721	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	+++++ 507195	6831 684801	17513 1326169	167437	347831	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	+++++ 158262	+++++ 210748	5829 411528	54348	109569	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	+++++ 187359	3388 244772	7633 466708	65852	127794	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoethene(Vinyl Bromide)	BCM	Ave	+++++ 645267	8057 868559	21104 1680461	206549	431306	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	+++++ 1556335	19976 2102105	51644 4053828	505743	1048712	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	+++++ 346175	+++++ 434342	13327 823720	119316	228804	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	+++++ 97367	+++++ 186347	24739 432862	45774	74658	+++++ 20.0	+++++ 40.0	5.01 100.0	9.99	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21188-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl ether	BCM	Ave	+++++ 234347	3013 312120	8149 596037	81581	161365	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrolein	BCM	Ave	+++++ 106342	+++++ 132544	+++++ 248766	37975	74508	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Freon TF	BCM	Ave	+++++ 1153017	14226 1548857	38486 2917761	378769	777486	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethene	BCM	Ave	+++++ 549125	6676 738974	18135 1389925	180155	373073	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetone	BCM	Ave	+++++ 295444	+++++ 391172	+++++ 733792	111024	237601	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Carbon disulfide	BCM	Ave	+++++ 1341038	+++++ 1793102	49498 3422690	455113	912494	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopropyl alcohol	BCM	Ave	+++++ 237522	+++++ 286886	+++++ 557249	83134	156436	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
3-Chloropropene	BCM	Ave	+++++ 213885	2882 285868	7954 547043	76006	148213	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	+++++ 213885	+++++ 285861	+++++ 547029	43003	80607	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methylene Chloride	BCM	Ave	+++++ 242935	+++++ 320938	11288 614488	89173	167207	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
tert-Butyl alcohol	BCM	Ave	+++++ 592633	+++++ 742921	+++++ 1431100	200334	390095	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methyl tert-butyl ether	BCM	Ave	+++++ 1303626	15814 1740821	43452 3327207	433281	884266	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,2-Dichloroethene	BCM	Ave	+++++ 501227	6481 666324	17829 1245123	173528	346536	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrylonitrile	BCM	Ave	+++++ 193356	+++++ 254226	6503 499532	67000	132521	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Hexane	BCM	Ave	+++++ 499690	6841 641670	18551 1221057	169121	333354	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethane	BCM	Ave	1756 715112	9456 963481	24506 1848529	244466	490369	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Vinyl acetate	BCM	Ave	+++++ 561708	+++++ 745535	+++++ 1441251	195275	361815	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
cis-1,2-Dichloroethene	BCM	Ave	+++++ 757771	9157 1028480	24378 2001034	237194	503475	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Ethyl Ketone	BCM	Ave	+++++ 276633	+++++ 370305	11432 706139	92669	191902	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Ethyl acetate	BCM	Ave	+++++ 64014	+++++ 86361	+++++ 165484	19335	42054	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Tetrahydrofuran	DFB	Ave	+++++ 289349	+++++ 371828	+++++ 708235	105798	201675	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21188-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	+++++ 1396759	17262 1893294	45374 3646312	448827	934006	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFB	Ave	+++++ 1020592	12523 1378482	32227 2636392	320896	674009	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFB	Ave	+++++ 1615260	19053 2209737	50442 4276728	503779	1068292	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFB	Ave	4267 1828171	19989 2532074	54412 4988641	551593	1194161	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFB	Ave	+++++ 2570029	34225 3374963	91084 6155007	889099	1772110	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFB	Ave	+++++ 2311015	30171 3118954	75512 5893988	733560	1541036	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFB	Ave	+++++ 814888	9772 1104020	27010 2131827	266586	549003	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFB	Ave	+++++ 704042	10999 900677	27101 1619771	256172	489714	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFB	Ave	+++++ 349357	+++++ 425996	+++++ 798972	114306	217103	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Trichloroethene	DFB	Ave	3192 1233269	14274 1714473	37062 3345512	358675	789784	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFB	Ave	+++++ 864837	10622 1163175	28037 2197076	275105	578531	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFB	Ave	+++++ 942825	+++++ 1286318	26422 2468173	283187	614278	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFB	Ave	+++++ 431565	+++++ 543037	+++++ 999017	131628	277018	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Dibromomethane	DFB	Ave	+++++ 1291367	12513 1868268	32333 3885444	334700	786588	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromodichloromethane	DFB	Ave	+++++ 1896111	20532 2602704	54274 5051043	565458	1228678	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFB	Ave	+++++ 1531995	16495 2100471	44401 4095202	455388	992342	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
methyl isobutyl ketone	DFB	Ave	+++++ 1120828	+++++ 1456998	38613 2646426	394075	781397	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Toluene	CBZ	Ave	+++++ 2196929	25455 3047441	62424 5885894	628054	1407345	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Octane	DFB	Ave	+++++ 1196735	18652 1508661	47800 2499868	449048	853405	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFB	Ave	+++++ 1573168	19466 2165511	46779 4222649	477111	1041881	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBZ	Ave	+++++ 1001770	10948 1377991	29041 2648591	295352	649014	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21188-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	4229 2031274	19177 2943208	50675 6064560	527159	1245014	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	+++++ 1100791	+++++ 1421043	37430 2552778	385316	763872	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBZ	Ave	+++++ 2252964	19986 3201569	53484 6521503	606906	1402463	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dibromoethane	CBZ	Ave	+++++ 2013934	20146 2831746	51874 5581701	559382	1271910	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBZ	Ave	+++++ 3180517	33042 4487860	84317 8980350	872800	1999703	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBZ	Ave	+++++ 4757073	51427 6600852	134729 12725806	1371777	3048982	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Nonane	CBZ	Ave	+++++ 1689974	22977 2202089	59655 3797852	572999	1158583	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m,p-Xylene	CBZ	Ave	+++++ 4062425	40912 5638403	109426 10635110	1138257	2590473	+++++ 30.0	0.401 40.0	1.00 80.0	9.99	20.0
Xylene, o-	CBZ	Ave	+++++ 1965912	20148 2761754	52875 5425653	550762	1249103	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBZ	Ave	+++++ 3168626	27525 4439325	74216 8738808	863740	1989385	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBZ	Ave	+++++ 2455409	19324 3519944	51533 7156617	637087	1504831	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cumene	CBZ	Ave	+++++ 5608554	57135 7793634	148819 15060699	1584424	3567777	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	+++++ 2623603	29067 3513658	76052 6341028	799069	1725251	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Propylbenzene	CBZ	Ave	+++++ 6477530	71307 8773755	182650 15953282	1919597	4187105	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichloropropane	CBZ	Ave	+++++ 1917898	+++++ 2542638	60287 4522411	606575	1283930	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Decane	CBZ	Ave	+++++ 2025555	+++++ 2516659	76865 3831625	740523	1405567	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBZ	Ave	+++++ 5776169	60039 7768139	155619 13281490	1689816	3738585	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBZ	Ave	+++++ 4356577	48789 5760441	125060 9701240	1334057	2877864	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBZ	Ave	+++++ 4774950	48434 6588946	126376 12465448	1366762	3019837	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Alpha Methyl Styrene	CBZ	Ave	+++++ 2659502	22259 3717362	57416 7357313	715477	1608683	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
tert-Butylbenzene	CBZ	Ave	+++++ 4734472	45870 6618459	123503 12795874	1327113	2967315	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-21188-1 Analy Batch No.: 66774

SDG No.:

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/03/2014 09:43 Calibration End Date: 01/03/2014 15:48 Calibration ID: 25229

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBZ	Ave	+++++ 4796792	47819 6583826	123258 12436082	1377412	3013132	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBZ	Ave	+++++ 6896883	71199 9466258	183683 17583772	1996965	4367727	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBZ	Ave	+++++ 6185335	59633 8607057	153445 16048695	1731528	3840403	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBZ	Ave	+++++ 3645061	34909 5071291	82226 9939069	996013	2244736	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBZ	Ave	+++++ 3650630	34850 5081191	82626 10088897	978415	2241230	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBZ	Ave	+++++ 4209069	42350 5672247	104986 10939788	1232207	2713993	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butylbenzene	CBZ	Ave	+++++ 4845205	55538 6241306	137191 10038946	1540692	3208309	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBZ	Ave	+++++ 2059120	+++++ 2416563	+++++ 3244490	824877	1343489	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
1,2-Dichlorobenzene	CBZ	Ave	+++++ 3393031	33715 4730576	79120 9530424	925329	2084160	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBZ	Ave	+++++ 2347257	+++++ 2834400	+++++ 2587541	774295	863185	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 2901798	+++++ 3767518	33442 6153908	666882	1455384	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBZ	Ave	+++++ 2494911	22022 3451475	53181 4692774	667222	1432742	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Naphthalene	CBZ	Ave	+++++ 5823598	+++++ 6513834	40941 12259209	1036507	2335893	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 2497503	23415 3180482	27258 4201320	578055	1167583	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

Curve Type Legend:
Ave = Average ISTD

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Lab Sample ID: ICV 200-66774/13 Calibration Date: 01/03/2014 17:25

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: cma013.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.1663	0.1489		8.95	10.0	-10.5	30.0
Dichlorodifluoromethane	Ave	1.683	1.689		10.0	10.0	0.4	30.0
Freon 22	Ave	0.5176	0.4976		9.61	10.0	-3.9	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.767	1.775		10.0	10.0	0.4	30.0
Chloromethane	Ave	0.2664	0.2504		9.40	10.0	-6.0	30.0
n-Butane	Ave	0.3806	0.3486		9.16	10.0	-8.4	30.0
Vinyl chloride	Ave	0.4224	0.4283		10.1	10.0	1.4	30.0
1,3-Butadiene	Ave	0.2692	0.2708		10.1	10.0	0.6	30.0
Bromomethane	Ave	0.6591	0.6487		9.84	10.0	-1.6	30.0
Chloroethane	Ave	0.2073	0.2038		9.83	10.0	-1.7	30.0
Isopentane	Ave	0.2627	0.2370		9.02	10.0	-9.8	30.0
Bromoethene(Vinyl Bromide)	Ave	0.8147	0.8554		10.5	10.0	5.0	30.0
Trichlorofluoromethane	Ave	1.985	2.031		10.2	10.0	2.3	30.0
n-Pentane	Ave	0.4446	0.4132		9.29	10.0	-7.1	30.0
Ethanol	Ave	0.0905	0.0895		14.8	15.0	-1.1	30.0
Ethyl ether	Ave	0.3038	0.2851		9.38	10.0	-6.1	30.0
Acrolein	Ave	0.1319	0.0950		7.20	10.0	-28.0	30.0
Freon TF	Ave	1.460	1.625		11.1	10.0	11.3	30.0
1,1-Dichloroethene	Ave	0.6933	0.7855		11.3	10.0	13.3	30.0
Acetone	Ave	0.3906	0.3876		9.92	10.0	-0.8	30.0
Carbon disulfide	Ave	1.745	1.748		10.0	10.0	0.2	30.0
Isopropyl alcohol	Ave	0.2879	0.2706		9.40	10.0	-6.0	30.0
3-Chloropropene	Ave	0.2838	0.2647		9.33	10.0	-6.7	30.0
Acetonitrile	Ave	0.2192	0.1424		6.49	10.0	-35.0*	30.0
Methylene Chloride	Ave	0.3364	0.3338		9.92	10.0	-0.8	30.0
tert-Butyl alcohol	Ave	0.7211	0.7018		9.73	10.0	-2.7	30.0
Methyl tert-butyl ether	Ave	1.651	1.691		10.2	10.0	2.4	30.0
trans-1,2-Dichloroethene	Ave	0.6505	0.6439		9.90	10.0	-1.0	30.0
Acrylonitrile	Ave	0.2482	0.2422		9.76	10.0	-2.4	30.0
n-Hexane	Ave	0.6489	0.6252		9.63	10.0	-3.7	30.0
1,1-Dichloroethane	Ave	0.9199	0.9289		10.1	10.0	1.0	30.0
Vinyl acetate	Ave	0.6999	0.6801		9.72	10.0	-2.8	30.0
cis-1,2-Dichloroethene	Ave	0.9487	1.021		10.8	10.0	7.6	30.0
Methyl Ethyl Ketone	Ave	0.3688	0.3581		9.71	10.0	-2.9	30.0
Ethyl acetate	Ave	0.0780	0.0824		10.6	10.0	5.5	30.0
Tetrahydrofuran	Ave	0.0644	0.0598		9.28	10.0	-7.1	30.0
Chloroform	Ave	1.762	1.830		10.4	10.0	3.8	30.0
Cyclohexane	Ave	0.2258	0.2287		10.1	10.0	1.3	30.0
1,1,1-Trichloroethane	Ave	0.3561	0.3592		10.1	10.0	0.9	30.0
Carbon tetrachloride	Ave	0.3919	0.4078		10.4	10.0	4.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Lab Sample ID: ICV 200-66774/13 Calibration Date: 01/03/2014 17:25

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: cma013.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.5912	0.5645		9.55	10.0	-4.5	30.0
Benzene	Ave	0.5194	0.5185		9.98	10.0	-0.2	30.0
1,2-Dichloroethane	Ave	0.1831	0.1791		9.78	10.0	-2.2	30.0
n-Heptane	Ave	0.1688	0.1510		8.94	10.0	-10.6	30.0
n-Butanol	Ave	0.0724	0.0636		8.78	10.0	-12.2	30.0
Trichloroethene	Ave	0.2679	0.2831		10.6	10.0	5.7	30.0
1,2-Dichloropropane	Ave	0.1923	0.1871		9.72	10.0	-2.7	30.0
Methyl methacrylate	Ave	0.2021	0.2073		10.3	10.0	2.6	30.0
1,4-Dioxane	Ave	0.0894	0.0830		9.29	10.0	-7.1	30.0
Dibromomethane	Ave	0.2658	0.3034		11.4	10.0	14.2	30.0
Bromodichloromethane	Ave	0.4044	0.4367		10.8	10.0	8.0	30.0
cis-1,3-Dichloropropene	Ave	0.3270	0.3340		10.2	10.0	2.1	30.0
methyl isobutyl ketone	Ave	0.2538	0.2414		9.51	10.0	-4.9	30.0
Toluene	Ave	0.4926	0.5157		10.5	10.0	4.7	30.0
n-Octane	Ave	0.2879	0.2596		9.01	10.0	-9.8	30.0
trans-1,3-Dichloropropene	Ave	0.3463	0.3375		9.74	10.0	-2.5	30.0
1,1,2-Trichloroethane	Ave	0.2241	0.2231		9.95	10.0	-0.5	30.0
Tetrachloroethene	Ave	0.4302	0.4779		11.1	10.0	11.1	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2588	0.2430		9.39	10.0	-6.1	30.0
Dibromochloromethane	Ave	0.4767	0.5466		11.5	10.0	14.7	30.0
1,2-Dibromoethane	Ave	0.4366	0.4617		10.6	10.0	5.8	30.0
Chlorobenzene	Ave	0.6963	0.7382		10.6	10.0	6.0	30.0
Ethylbenzene	Ave	1.057	1.107		10.5	10.0	4.7	30.0
n-Nonane	Ave	0.4044	0.3871		9.57	10.0	-4.3	30.0
m,p-Xylene	Ave	0.4403	0.4698		21.3	20.0	6.7	30.0
Xylene, o-	Ave	0.4307	0.4513		10.5	10.0	4.8	30.0
Styrene	Ave	0.6632	0.7234		10.9	10.0	9.1	30.0
Bromoform	Ave	0.5021	0.5833		11.6	10.0	16.2	30.0
Cumene	Ave	1.220	1.321		10.8	10.0	8.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5833	0.5842		10.0	10.0	0.1	30.0
n-Propylbenzene	Ave	1.429	1.507		10.5	10.0	5.5	30.0
1,2,3-Trichloropropane	Ave	0.4358	0.4424		10.2	10.0	1.5	30.0
n-Decane	Ave	0.4770	0.4685		9.82	10.0	-1.8	30.0
4-Ethyltoluene	Ave	1.242	1.371		11.0	10.0	10.4	30.0
2-Chlorotoluene	Ave	0.9591	1.036		10.8	10.0	8.0	30.0
1,3,5-Trimethylbenzene	Ave	1.034	1.090		10.5	10.0	5.4	30.0
Alpha Methyl Styrene	Ave	0.5445	0.6078		11.2	10.0	11.6	30.0
tert-Butylbenzene	Ave	1.020	1.117		11.0	10.0	9.6	30.0
1,2,4-Trimethylbenzene	Ave	1.030	1.063		10.3	10.0	3.2	30.0
sec-Butylbenzene	Ave	1.495	1.611		10.8	10.0	7.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Lab Sample ID: ICV 200-66774/13 Calibration Date: 01/03/2014 17:25

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: cma013.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.311	1.441		11.0	10.0	9.9	30.0
1,3-Dichlorobenzene	Ave	0.7644	0.7943		10.4	10.0	3.9	30.0
1,4-Dichlorobenzene	Ave	0.7647	0.7918		10.4	10.0	3.5	30.0
Benzyl chloride	Ave	0.9052	0.7462		8.24	10.0	-17.6	30.0
n-Butylbenzene	Ave	1.063	1.129		10.6	10.0	6.3	30.0
n-Undecane	Ave	0.4458	0.4833		10.8	10.0	8.4	30.0
1,2-Dichlorobenzene	Ave	0.7209	0.7277		10.1	10.0	0.9	30.0
n-Dodecane	Ave	0.4199	0.4988		11.9	10.0	18.8	30.0
1,2,4-Trichlorobenzene	Ave	0.5087	0.5856		11.5	10.0	15.1	30.0
Hexachlorobutadiene	Ave	0.4833	0.5384		11.1	10.0	11.4	30.0
Naphthalene	Ave	0.8822	1.219		13.8	10.0	38.1*	30.0
1,2,3-Trichlorobenzene	Ave	0.4221	0.5573		13.2	10.0	32.0*	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Lab Sample ID: CCVIS 200-69015/3 Calibration Date: 03/03/2014 10:50

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: 6387_03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.1663	0.2604		15.7	10.0	56.5*	30.0
Dichlorodifluoromethane	Ave	1.683	2.150		12.8	10.0	27.8	30.0
Freon 22	Ave	0.5176	0.7395		14.3	10.0	42.9*	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.767	2.191		12.4	10.0	24.0	30.0
Chloromethane	Ave	0.2664	0.3703		13.9	10.0	39.0*	30.0
n-Butane	Ave	0.3806	0.5766		15.1	10.0	51.5*	30.0
Vinyl chloride	Ave	0.4224	0.5699		13.5	10.0	34.9*	30.0
1,3-Butadiene	Ave	0.2692	0.3637		13.5	10.0	35.1*	30.0
Bromomethane	Ave	0.6591	0.8064		12.2	10.0	22.3	30.0
Chloroethane	Ave	0.2073	0.2741		13.2	10.0	32.2*	30.0
Isopentane	Ave	0.2627	0.3901		14.9	10.0	48.5*	30.0
Bromoethene(Vinyl Bromide)	Ave	0.8147	0.9433		11.6	10.0	15.8	30.0
Trichlorofluoromethane	Ave	1.985	2.347		11.8	10.0	18.2	30.0
n-Pentane	Ave	0.4446	0.6394		14.4	10.0	43.8*	30.0
Ethanol	Ave	0.0905	0.1178		19.5	15.0	30.2*	30.0
Ethyl ether	Ave	0.3038	0.3829		12.6	10.0	26.0	30.0
Acrolein	Ave	0.1319	0.1787		13.5	10.0	35.4*	30.0
Freon TF	Ave	1.460	1.706		11.7	10.0	16.9	30.0
1,1-Dichloroethene	Ave	0.6933	0.8111		11.7	10.0	17.0	30.0
Acetone	Ave	0.3906	0.6784		17.4	10.0	73.7*	30.0
Carbon disulfide	Ave	1.745	2.064		11.8	10.0	18.3	30.0
Isopropyl alcohol	Ave	0.2879	0.3988		13.8	10.0	38.5*	30.0
3-Chloropropene	Ave	0.2838	0.4049		14.3	10.0	42.7*	30.0
Acetonitrile	Ave	0.2192	0.2319		10.6	10.0	5.8	30.0
Methylene Chloride	Ave	0.3364	0.4312		12.8	10.0	28.2	30.0
tert-Butyl alcohol	Ave	0.7211	0.8824		12.2	10.0	22.4	30.0
Methyl tert-butyl ether	Ave	1.651	1.992		12.1	10.0	20.7	30.0
trans-1,2-Dichloroethene	Ave	0.6505	0.8222		12.6	10.0	26.4	30.0
Acrylonitrile	Ave	0.2482	0.3238		13.0	10.0	30.4*	30.0
n-Hexane	Ave	0.6489	0.7990		12.3	10.0	23.1	30.0
1,1-Dichloroethane	Ave	0.9199	1.121		12.2	10.0	21.8	30.0
Vinyl acetate	Ave	0.6999	0.9720		13.9	10.0	38.9*	30.0
cis-1,2-Dichloroethene	Ave	0.9487	1.056		11.1	10.0	11.3	30.0
Methyl Ethyl Ketone	Ave	0.3688	0.4116		11.2	10.0	11.6	30.0
Ethyl acetate	Ave	0.0780	0.0880		11.3	10.0	12.8	30.0
Tetrahydrofuran	Ave	0.0644	0.0930		14.4	10.0	44.3*	30.0
Chloroform	Ave	1.762	2.011		11.4	10.0	14.1	30.0
Cyclohexane	Ave	0.2258	0.2580		11.4	10.0	14.3	30.0
1,1,1-Trichloroethane	Ave	0.3561	0.4229		11.9	10.0	18.7	30.0
Carbon tetrachloride	Ave	0.3919	0.4610		11.8	10.0	17.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Lab Sample ID: CCVIS 200-69015/3 Calibration Date: 03/03/2014 10:50

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: 6387_03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.5912	0.7110		12.0	10.0	20.3	30.0
Benzene	Ave	0.5194	0.5864		11.3	10.0	12.9	30.0
1,2-Dichloroethane	Ave	0.1831	0.2273		12.4	10.0	24.2	30.0
n-Heptane	Ave	0.1688	0.2149		12.7	10.0	27.3	30.0
n-Butanol	Ave	0.0724	0.0742		10.2	10.0	2.5	30.0
Trichloroethene	Ave	0.2679	0.3021		11.3	10.0	12.8	30.0
1,2-Dichloropropane	Ave	0.1923	0.2209		11.5	10.0	14.8	30.0
Methyl methacrylate	Ave	0.2021	0.2290		11.3	10.0	13.3	30.0
1,4-Dioxane	Ave	0.0894	0.1021		11.4	10.0	14.3	30.0
Dibromomethane	Ave	0.2658	0.3057		11.5	10.0	15.0	30.0
Bromodichloromethane	Ave	0.4044	0.4808		11.9	10.0	18.9	30.0
cis-1,3-Dichloropropene	Ave	0.3270	0.3777		11.5	10.0	15.5	30.0
methyl isobutyl ketone	Ave	0.2538	0.3282		12.9	10.0	29.3	30.0
Toluene	Ave	0.4926	0.5516		11.2	10.0	12.0	30.0
n-Octane	Ave	0.2879	0.3727		12.9	10.0	29.4	30.0
trans-1,3-Dichloropropene	Ave	0.3463	0.3975		11.5	10.0	14.8	30.0
1,1,2-Trichloroethane	Ave	0.2241	0.2581		11.5	10.0	15.2	30.0
Tetrachloroethene	Ave	0.4302	0.5062		11.8	10.0	17.7	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2588	0.3337		12.9	10.0	28.9	30.0
Dibromochloromethane	Ave	0.4767	0.5596		11.7	10.0	17.4	30.0
1,2-Dibromoethane	Ave	0.4366	0.5048		11.6	10.0	15.6	30.0
Chlorobenzene	Ave	0.6963	0.7793		11.2	10.0	11.9	30.0
Ethylbenzene	Ave	1.057	1.222		11.6	10.0	15.6	30.0
n-Nonane	Ave	0.4044	0.4812		11.9	10.0	19.0	30.0
m,p-Xylene	Ave	0.4403	0.5098		23.2	20.0	15.8	30.0
Xylene, o-	Ave	0.4307	0.4898		11.4	10.0	13.7	30.0
Styrene	Ave	0.6632	0.7350		11.1	10.0	10.8	30.0
Bromoform	Ave	0.5021	0.6045		12.0	10.0	20.4	30.0
Cumene	Ave	1.220	1.423		11.7	10.0	16.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5833	0.6854		11.7	10.0	17.5	30.0
n-Propylbenzene	Ave	1.429	1.681		11.8	10.0	17.6	30.0
1,2,3-Trichloropropane	Ave	0.4358	0.5232		12.0	10.0	20.1	30.0
n-Decane	Ave	0.4770	0.6047		12.7	10.0	26.8	30.0
4-Ethyltoluene	Ave	1.242	1.494		12.0	10.0	20.3	30.0
2-Chlorotoluene	Ave	0.9591	1.168		12.2	10.0	21.8	30.0
1,3,5-Trimethylbenzene	Ave	1.034	1.204		11.6	10.0	16.4	30.0
Alpha Methyl Styrene	Ave	0.5445	0.4761		8.74	10.0	-12.6	30.0
tert-Butylbenzene	Ave	1.020	1.176		11.5	10.0	15.3	30.0
1,2,4-Trimethylbenzene	Ave	1.030	1.209		11.7	10.0	17.4	30.0
sec-Butylbenzene	Ave	1.495	1.733		11.6	10.0	15.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Lab Sample ID: CCVIS 200-69015/3 Calibration Date: 03/03/2014 10:50

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: 6387_03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.311	1.516		11.6	10.0	15.6	30.0
1,3-Dichlorobenzene	Ave	0.7644	0.8934		11.7	10.0	16.9	30.0
1,4-Dichlorobenzene	Ave	0.7647	0.8907		11.6	10.0	16.5	30.0
Benzyl chloride	Ave	0.9052	1.063		11.7	10.0	17.4	30.0
n-Butylbenzene	Ave	1.063	1.315		12.4	10.0	23.7	30.0
n-Undecane	Ave	0.4458	0.6252		14.0	10.0	40.2*	30.0
1,2-Dichlorobenzene	Ave	0.7209	0.8324		11.5	10.0	15.5	30.0
n-Dodecane	Ave	0.4199	0.5058		12.0	10.0	20.5	30.0
1,2,4-Trichlorobenzene	Ave	0.5087	0.6603		13.0	10.0	29.8	30.0
Hexachlorobutadiene	Ave	0.4833	0.5996		12.4	10.0	24.1	30.0
Naphthalene	Ave	0.8822	1.211		13.7	10.0	37.2*	30.0
1,2,3-Trichlorobenzene	Ave	0.4221	0.5672		13.4	10.0	34.4*	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Lab Sample ID: ICV 200-66774/13 Calibration Date: 01/03/2014 17:25

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: cma013.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.1663	0.1489		8.95	10.0	-10.5	30.0
Dichlorodifluoromethane	Ave	1.683	1.689		10.0	10.0	0.4	30.0
Freon 22	Ave	0.5176	0.4976		9.61	10.0	-3.9	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.767	1.775		10.0	10.0	0.4	30.0
Chloromethane	Ave	0.2664	0.2504		9.40	10.0	-6.0	30.0
n-Butane	Ave	0.3806	0.3486		9.16	10.0	-8.4	30.0
Vinyl chloride	Ave	0.4224	0.4283		10.1	10.0	1.4	30.0
1,3-Butadiene	Ave	0.2692	0.2708		10.1	10.0	0.6	30.0
Bromomethane	Ave	0.6591	0.6487		9.84	10.0	-1.6	30.0
Chloroethane	Ave	0.2073	0.2038		9.83	10.0	-1.7	30.0
Isopentane	Ave	0.2627	0.2370		9.02	10.0	-9.8	30.0
Bromoethene(Vinyl Bromide)	Ave	0.8147	0.8554		10.5	10.0	5.0	30.0
Trichlorofluoromethane	Ave	1.985	2.031		10.2	10.0	2.3	30.0
n-Pentane	Ave	0.4446	0.4132		9.29	10.0	-7.1	30.0
Ethanol	Ave	0.0905	0.0895		14.8	15.0	-1.1	30.0
Ethyl ether	Ave	0.3038	0.2851		9.38	10.0	-6.1	30.0
Acrolein	Ave	0.1319	0.0950		7.20	10.0	-28.0	30.0
Freon TF	Ave	1.460	1.625		11.1	10.0	11.3	30.0
1,1-Dichloroethene	Ave	0.6933	0.7855		11.3	10.0	13.3	30.0
Acetone	Ave	0.3906	0.3876		9.92	10.0	-0.8	30.0
Carbon disulfide	Ave	1.745	1.748		10.0	10.0	0.2	30.0
Isopropyl alcohol	Ave	0.2879	0.2706		9.40	10.0	-6.0	30.0
3-Chloropropene	Ave	0.2838	0.2647		9.33	10.0	-6.7	30.0
Acetonitrile	Ave	0.2192	0.1424		6.49	10.0	-35.0*	30.0
Methylene Chloride	Ave	0.3364	0.3338		9.92	10.0	-0.8	30.0
tert-Butyl alcohol	Ave	0.7211	0.7018		9.73	10.0	-2.7	30.0
Methyl tert-butyl ether	Ave	1.651	1.691		10.2	10.0	2.4	30.0
trans-1,2-Dichloroethene	Ave	0.6505	0.6439		9.90	10.0	-1.0	30.0
Acrylonitrile	Ave	0.2482	0.2422		9.76	10.0	-2.4	30.0
n-Hexane	Ave	0.6489	0.6252		9.63	10.0	-3.7	30.0
1,1-Dichloroethane	Ave	0.9199	0.9289		10.1	10.0	1.0	30.0
Vinyl acetate	Ave	0.6999	0.6801		9.72	10.0	-2.8	30.0
cis-1,2-Dichloroethene	Ave	0.9487	1.021		10.8	10.0	7.6	30.0
Methyl Ethyl Ketone	Ave	0.3688	0.3581		9.71	10.0	-2.9	30.0
Ethyl acetate	Ave	0.0780	0.0824		10.6	10.0	5.5	30.0
Tetrahydrofuran	Ave	0.0644	0.0598		9.28	10.0	-7.1	30.0
Chloroform	Ave	1.762	1.830		10.4	10.0	3.8	30.0
Cyclohexane	Ave	0.2258	0.2287		10.1	10.0	1.3	30.0
1,1,1-Trichloroethane	Ave	0.3561	0.3592		10.1	10.0	0.9	30.0
Carbon tetrachloride	Ave	0.3919	0.4078		10.4	10.0	4.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Lab Sample ID: ICV 200-66774/13 Calibration Date: 01/03/2014 17:25

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: cma013.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.5912	0.5645		9.55	10.0	-4.5	30.0
Benzene	Ave	0.5194	0.5185		9.98	10.0	-0.2	30.0
1,2-Dichloroethane	Ave	0.1831	0.1791		9.78	10.0	-2.2	30.0
n-Heptane	Ave	0.1688	0.1510		8.94	10.0	-10.6	30.0
n-Butanol	Ave	0.0724	0.0636		8.78	10.0	-12.2	30.0
Trichloroethene	Ave	0.2679	0.2831		10.6	10.0	5.7	30.0
1,2-Dichloropropane	Ave	0.1923	0.1871		9.72	10.0	-2.7	30.0
Methyl methacrylate	Ave	0.2021	0.2073		10.3	10.0	2.6	30.0
1,4-Dioxane	Ave	0.0894	0.0830		9.29	10.0	-7.1	30.0
Dibromomethane	Ave	0.2658	0.3034		11.4	10.0	14.2	30.0
Bromodichloromethane	Ave	0.4044	0.4367		10.8	10.0	8.0	30.0
cis-1,3-Dichloropropene	Ave	0.3270	0.3340		10.2	10.0	2.1	30.0
methyl isobutyl ketone	Ave	0.2538	0.2414		9.51	10.0	-4.9	30.0
Toluene	Ave	0.4926	0.5157		10.5	10.0	4.7	30.0
n-Octane	Ave	0.2879	0.2596		9.01	10.0	-9.8	30.0
trans-1,3-Dichloropropene	Ave	0.3463	0.3375		9.74	10.0	-2.5	30.0
1,1,2-Trichloroethane	Ave	0.2241	0.2231		9.95	10.0	-0.5	30.0
Tetrachloroethene	Ave	0.4302	0.4779		11.1	10.0	11.1	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2588	0.2430		9.39	10.0	-6.1	30.0
Dibromochloromethane	Ave	0.4767	0.5466		11.5	10.0	14.7	30.0
1,2-Dibromoethane	Ave	0.4366	0.4617		10.6	10.0	5.8	30.0
Chlorobenzene	Ave	0.6963	0.7382		10.6	10.0	6.0	30.0
Ethylbenzene	Ave	1.057	1.107		10.5	10.0	4.7	30.0
n-Nonane	Ave	0.4044	0.3871		9.57	10.0	-4.3	30.0
m,p-Xylene	Ave	0.4403	0.4698		21.3	20.0	6.7	30.0
Xylene, o-	Ave	0.4307	0.4513		10.5	10.0	4.8	30.0
Styrene	Ave	0.6632	0.7234		10.9	10.0	9.1	30.0
Bromoform	Ave	0.5021	0.5833		11.6	10.0	16.2	30.0
Cumene	Ave	1.220	1.321		10.8	10.0	8.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5833	0.5842		10.0	10.0	0.1	30.0
n-Propylbenzene	Ave	1.429	1.507		10.5	10.0	5.5	30.0
1,2,3-Trichloropropane	Ave	0.4358	0.4424		10.2	10.0	1.5	30.0
n-Decane	Ave	0.4770	0.4685		9.82	10.0	-1.8	30.0
4-Ethyltoluene	Ave	1.242	1.371		11.0	10.0	10.4	30.0
2-Chlorotoluene	Ave	0.9591	1.036		10.8	10.0	8.0	30.0
1,3,5-Trimethylbenzene	Ave	1.034	1.090		10.5	10.0	5.4	30.0
Alpha Methyl Styrene	Ave	0.5445	0.6078		11.2	10.0	11.6	30.0
tert-Butylbenzene	Ave	1.020	1.117		11.0	10.0	9.6	30.0
1,2,4-Trimethylbenzene	Ave	1.030	1.063		10.3	10.0	3.2	30.0
sec-Butylbenzene	Ave	1.495	1.611		10.8	10.0	7.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Lab Sample ID: ICV 200-66774/13 Calibration Date: 01/03/2014 17:25

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: cma013.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.311	1.441		11.0	10.0	9.9	30.0
1,3-Dichlorobenzene	Ave	0.7644	0.7943		10.4	10.0	3.9	30.0
1,4-Dichlorobenzene	Ave	0.7647	0.7918		10.4	10.0	3.5	30.0
Benzyl chloride	Ave	0.9052	0.7462		8.24	10.0	-17.6	30.0
n-Butylbenzene	Ave	1.063	1.129		10.6	10.0	6.3	30.0
n-Undecane	Ave	0.4458	0.4833		10.8	10.0	8.4	30.0
1,2-Dichlorobenzene	Ave	0.7209	0.7277		10.1	10.0	0.9	30.0
n-Dodecane	Ave	0.4199	0.4988		11.9	10.0	18.8	30.0
1,2,4-Trichlorobenzene	Ave	0.5087	0.5856		11.5	10.0	15.1	30.0
Hexachlorobutadiene	Ave	0.4833	0.5384		11.1	10.0	11.4	30.0
Naphthalene	Ave	0.8822	1.219		13.8	10.0	38.1*	30.0
1,2,3-Trichlorobenzene	Ave	0.4221	0.5573		13.2	10.0	32.0*	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Lab Sample ID: CCVIS 200-69015/3 Calibration Date: 03/03/2014 10:50

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: 6387_03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.1663	0.2604		15.7	10.0	56.5*	30.0
Dichlorodifluoromethane	Ave	1.683	2.150		12.8	10.0	27.8	30.0
Freon 22	Ave	0.5176	0.7395		14.3	10.0	42.9*	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.767	2.191		12.4	10.0	24.0	30.0
Chloromethane	Ave	0.2664	0.3703		13.9	10.0	39.0*	30.0
n-Butane	Ave	0.3806	0.5766		15.1	10.0	51.5*	30.0
Vinyl chloride	Ave	0.4224	0.5699		13.5	10.0	34.9*	30.0
1,3-Butadiene	Ave	0.2692	0.3637		13.5	10.0	35.1*	30.0
Bromomethane	Ave	0.6591	0.8064		12.2	10.0	22.3	30.0
Chloroethane	Ave	0.2073	0.2741		13.2	10.0	32.2*	30.0
Isopentane	Ave	0.2627	0.3901		14.9	10.0	48.5*	30.0
Bromoethene(Vinyl Bromide)	Ave	0.8147	0.9433		11.6	10.0	15.8	30.0
Trichlorofluoromethane	Ave	1.985	2.347		11.8	10.0	18.2	30.0
n-Pentane	Ave	0.4446	0.6394		14.4	10.0	43.8*	30.0
Ethanol	Ave	0.0905	0.1178		19.5	15.0	30.2*	30.0
Ethyl ether	Ave	0.3038	0.3829		12.6	10.0	26.0	30.0
Acrolein	Ave	0.1319	0.1787		13.5	10.0	35.4*	30.0
Freon TF	Ave	1.460	1.706		11.7	10.0	16.9	30.0
1,1-Dichloroethene	Ave	0.6933	0.8111		11.7	10.0	17.0	30.0
Acetone	Ave	0.3906	0.6784		17.4	10.0	73.7*	30.0
Carbon disulfide	Ave	1.745	2.064		11.8	10.0	18.3	30.0
Isopropyl alcohol	Ave	0.2879	0.3988		13.8	10.0	38.5*	30.0
3-Chloropropene	Ave	0.2838	0.4049		14.3	10.0	42.7*	30.0
Acetonitrile	Ave	0.2192	0.2319		10.6	10.0	5.8	30.0
Methylene Chloride	Ave	0.3364	0.4312		12.8	10.0	28.2	30.0
tert-Butyl alcohol	Ave	0.7211	0.8824		12.2	10.0	22.4	30.0
Methyl tert-butyl ether	Ave	1.651	1.992		12.1	10.0	20.7	30.0
trans-1,2-Dichloroethene	Ave	0.6505	0.8222		12.6	10.0	26.4	30.0
Acrylonitrile	Ave	0.2482	0.3238		13.0	10.0	30.4*	30.0
n-Hexane	Ave	0.6489	0.7990		12.3	10.0	23.1	30.0
1,1-Dichloroethane	Ave	0.9199	1.121		12.2	10.0	21.8	30.0
Vinyl acetate	Ave	0.6999	0.9720		13.9	10.0	38.9*	30.0
cis-1,2-Dichloroethene	Ave	0.9487	1.056		11.1	10.0	11.3	30.0
Methyl Ethyl Ketone	Ave	0.3688	0.4116		11.2	10.0	11.6	30.0
Ethyl acetate	Ave	0.0780	0.0880		11.3	10.0	12.8	30.0
Tetrahydrofuran	Ave	0.0644	0.0930		14.4	10.0	44.3*	30.0
Chloroform	Ave	1.762	2.011		11.4	10.0	14.1	30.0
Cyclohexane	Ave	0.2258	0.2580		11.4	10.0	14.3	30.0
1,1,1-Trichloroethane	Ave	0.3561	0.4229		11.9	10.0	18.7	30.0
Carbon tetrachloride	Ave	0.3919	0.4610		11.8	10.0	17.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Lab Sample ID: CCVIS 200-69015/3 Calibration Date: 03/03/2014 10:50

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: 6387_03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.5912	0.7110		12.0	10.0	20.3	30.0
Benzene	Ave	0.5194	0.5864		11.3	10.0	12.9	30.0
1,2-Dichloroethane	Ave	0.1831	0.2273		12.4	10.0	24.2	30.0
n-Heptane	Ave	0.1688	0.2149		12.7	10.0	27.3	30.0
n-Butanol	Ave	0.0724	0.0742		10.2	10.0	2.5	30.0
Trichloroethene	Ave	0.2679	0.3021		11.3	10.0	12.8	30.0
1,2-Dichloropropane	Ave	0.1923	0.2209		11.5	10.0	14.8	30.0
Methyl methacrylate	Ave	0.2021	0.2290		11.3	10.0	13.3	30.0
1,4-Dioxane	Ave	0.0894	0.1021		11.4	10.0	14.3	30.0
Dibromomethane	Ave	0.2658	0.3057		11.5	10.0	15.0	30.0
Bromodichloromethane	Ave	0.4044	0.4808		11.9	10.0	18.9	30.0
cis-1,3-Dichloropropene	Ave	0.3270	0.3777		11.5	10.0	15.5	30.0
methyl isobutyl ketone	Ave	0.2538	0.3282		12.9	10.0	29.3	30.0
Toluene	Ave	0.4926	0.5516		11.2	10.0	12.0	30.0
n-Octane	Ave	0.2879	0.3727		12.9	10.0	29.4	30.0
trans-1,3-Dichloropropene	Ave	0.3463	0.3975		11.5	10.0	14.8	30.0
1,1,2-Trichloroethane	Ave	0.2241	0.2581		11.5	10.0	15.2	30.0
Tetrachloroethene	Ave	0.4302	0.5062		11.8	10.0	17.7	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2588	0.3337		12.9	10.0	28.9	30.0
Dibromochloromethane	Ave	0.4767	0.5596		11.7	10.0	17.4	30.0
1,2-Dibromoethane	Ave	0.4366	0.5048		11.6	10.0	15.6	30.0
Chlorobenzene	Ave	0.6963	0.7793		11.2	10.0	11.9	30.0
Ethylbenzene	Ave	1.057	1.222		11.6	10.0	15.6	30.0
n-Nonane	Ave	0.4044	0.4812		11.9	10.0	19.0	30.0
m,p-Xylene	Ave	0.4403	0.5098		23.2	20.0	15.8	30.0
Xylene, o-	Ave	0.4307	0.4898		11.4	10.0	13.7	30.0
Styrene	Ave	0.6632	0.7350		11.1	10.0	10.8	30.0
Bromoform	Ave	0.5021	0.6045		12.0	10.0	20.4	30.0
Cumene	Ave	1.220	1.423		11.7	10.0	16.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5833	0.6854		11.7	10.0	17.5	30.0
n-Propylbenzene	Ave	1.429	1.681		11.8	10.0	17.6	30.0
1,2,3-Trichloropropane	Ave	0.4358	0.5232		12.0	10.0	20.1	30.0
n-Decane	Ave	0.4770	0.6047		12.7	10.0	26.8	30.0
4-Ethyltoluene	Ave	1.242	1.494		12.0	10.0	20.3	30.0
2-Chlorotoluene	Ave	0.9591	1.168		12.2	10.0	21.8	30.0
1,3,5-Trimethylbenzene	Ave	1.034	1.204		11.6	10.0	16.4	30.0
Alpha Methyl Styrene	Ave	0.5445	0.4761		8.74	10.0	-12.6	30.0
tert-Butylbenzene	Ave	1.020	1.176		11.5	10.0	15.3	30.0
1,2,4-Trimethylbenzene	Ave	1.030	1.209		11.7	10.0	17.4	30.0
sec-Butylbenzene	Ave	1.495	1.733		11.6	10.0	15.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Lab Sample ID: CCVIS 200-69015/3 Calibration Date: 03/03/2014 10:50

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: 6387_03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.311	1.516		11.6	10.0	15.6	30.0
1,3-Dichlorobenzene	Ave	0.7644	0.8934		11.7	10.0	16.9	30.0
1,4-Dichlorobenzene	Ave	0.7647	0.8907		11.6	10.0	16.5	30.0
Benzyl chloride	Ave	0.9052	1.063		11.7	10.0	17.4	30.0
n-Butylbenzene	Ave	1.063	1.315		12.4	10.0	23.7	30.0
n-Undecane	Ave	0.4458	0.6252		14.0	10.0	40.2*	30.0
1,2-Dichlorobenzene	Ave	0.7209	0.8324		11.5	10.0	15.5	30.0
n-Dodecane	Ave	0.4199	0.5058		12.0	10.0	20.5	30.0
1,2,4-Trichlorobenzene	Ave	0.5087	0.6603		13.0	10.0	29.8	30.0
Hexachlorobutadiene	Ave	0.4833	0.5996		12.4	10.0	24.1	30.0
Naphthalene	Ave	0.8822	1.211		13.7	10.0	37.2*	30.0
1,2,3-Trichlorobenzene	Ave	0.4221	0.5672		13.4	10.0	34.4*	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Lab Sample ID: ICV 200-66774/13 Calibration Date: 01/03/2014 17:25

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: cma013.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.1663	0.1489		8.95	10.0	-10.5	30.0
Dichlorodifluoromethane	Ave	1.683	1.689		10.0	10.0	0.4	30.0
Freon 22	Ave	0.5176	0.4976		9.61	10.0	-3.9	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.767	1.775		10.0	10.0	0.4	30.0
Chloromethane	Ave	0.2664	0.2504		9.40	10.0	-6.0	30.0
n-Butane	Ave	0.3806	0.3486		9.16	10.0	-8.4	30.0
Vinyl chloride	Ave	0.4224	0.4283		10.1	10.0	1.4	30.0
1,3-Butadiene	Ave	0.2692	0.2708		10.1	10.0	0.6	30.0
Bromomethane	Ave	0.6591	0.6487		9.84	10.0	-1.6	30.0
Chloroethane	Ave	0.2073	0.2038		9.83	10.0	-1.7	30.0
Isopentane	Ave	0.2627	0.2370		9.02	10.0	-9.8	30.0
Bromoethene(Vinyl Bromide)	Ave	0.8147	0.8554		10.5	10.0	5.0	30.0
Trichlorofluoromethane	Ave	1.985	2.031		10.2	10.0	2.3	30.0
n-Pentane	Ave	0.4446	0.4132		9.29	10.0	-7.1	30.0
Ethanol	Ave	0.0905	0.0895		14.8	15.0	-1.1	30.0
Ethyl ether	Ave	0.3038	0.2851		9.38	10.0	-6.1	30.0
Acrolein	Ave	0.1319	0.0950		7.20	10.0	-28.0	30.0
Freon TF	Ave	1.460	1.625		11.1	10.0	11.3	30.0
1,1-Dichloroethene	Ave	0.6933	0.7855		11.3	10.0	13.3	30.0
Acetone	Ave	0.3906	0.3876		9.92	10.0	-0.8	30.0
Carbon disulfide	Ave	1.745	1.748		10.0	10.0	0.2	30.0
Isopropyl alcohol	Ave	0.2879	0.2706		9.40	10.0	-6.0	30.0
3-Chloropropene	Ave	0.2838	0.2647		9.33	10.0	-6.7	30.0
Acetonitrile	Ave	0.2192	0.1424		6.49	10.0	-35.0*	30.0
Methylene Chloride	Ave	0.3364	0.3338		9.92	10.0	-0.8	30.0
tert-Butyl alcohol	Ave	0.7211	0.7018		9.73	10.0	-2.7	30.0
Methyl tert-butyl ether	Ave	1.651	1.691		10.2	10.0	2.4	30.0
trans-1,2-Dichloroethene	Ave	0.6505	0.6439		9.90	10.0	-1.0	30.0
Acrylonitrile	Ave	0.2482	0.2422		9.76	10.0	-2.4	30.0
n-Hexane	Ave	0.6489	0.6252		9.63	10.0	-3.7	30.0
1,1-Dichloroethane	Ave	0.9199	0.9289		10.1	10.0	1.0	30.0
Vinyl acetate	Ave	0.6999	0.6801		9.72	10.0	-2.8	30.0
cis-1,2-Dichloroethene	Ave	0.9487	1.021		10.8	10.0	7.6	30.0
Methyl Ethyl Ketone	Ave	0.3688	0.3581		9.71	10.0	-2.9	30.0
Ethyl acetate	Ave	0.0780	0.0824		10.6	10.0	5.5	30.0
Tetrahydrofuran	Ave	0.0644	0.0598		9.28	10.0	-7.1	30.0
Chloroform	Ave	1.762	1.830		10.4	10.0	3.8	30.0
Cyclohexane	Ave	0.2258	0.2287		10.1	10.0	1.3	30.0
1,1,1-Trichloroethane	Ave	0.3561	0.3592		10.1	10.0	0.9	30.0
Carbon tetrachloride	Ave	0.3919	0.4078		10.4	10.0	4.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Lab Sample ID: ICV 200-66774/13 Calibration Date: 01/03/2014 17:25

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: cma013.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.5912	0.5645		9.55	10.0	-4.5	30.0
Benzene	Ave	0.5194	0.5185		9.98	10.0	-0.2	30.0
1,2-Dichloroethane	Ave	0.1831	0.1791		9.78	10.0	-2.2	30.0
n-Heptane	Ave	0.1688	0.1510		8.94	10.0	-10.6	30.0
n-Butanol	Ave	0.0724	0.0636		8.78	10.0	-12.2	30.0
Trichloroethene	Ave	0.2679	0.2831		10.6	10.0	5.7	30.0
1,2-Dichloropropane	Ave	0.1923	0.1871		9.72	10.0	-2.7	30.0
Methyl methacrylate	Ave	0.2021	0.2073		10.3	10.0	2.6	30.0
1,4-Dioxane	Ave	0.0894	0.0830		9.29	10.0	-7.1	30.0
Dibromomethane	Ave	0.2658	0.3034		11.4	10.0	14.2	30.0
Bromodichloromethane	Ave	0.4044	0.4367		10.8	10.0	8.0	30.0
cis-1,3-Dichloropropene	Ave	0.3270	0.3340		10.2	10.0	2.1	30.0
methyl isobutyl ketone	Ave	0.2538	0.2414		9.51	10.0	-4.9	30.0
Toluene	Ave	0.4926	0.5157		10.5	10.0	4.7	30.0
n-Octane	Ave	0.2879	0.2596		9.01	10.0	-9.8	30.0
trans-1,3-Dichloropropene	Ave	0.3463	0.3375		9.74	10.0	-2.5	30.0
1,1,2-Trichloroethane	Ave	0.2241	0.2231		9.95	10.0	-0.5	30.0
Tetrachloroethene	Ave	0.4302	0.4779		11.1	10.0	11.1	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2588	0.2430		9.39	10.0	-6.1	30.0
Dibromochloromethane	Ave	0.4767	0.5466		11.5	10.0	14.7	30.0
1,2-Dibromoethane	Ave	0.4366	0.4617		10.6	10.0	5.8	30.0
Chlorobenzene	Ave	0.6963	0.7382		10.6	10.0	6.0	30.0
Ethylbenzene	Ave	1.057	1.107		10.5	10.0	4.7	30.0
n-Nonane	Ave	0.4044	0.3871		9.57	10.0	-4.3	30.0
m,p-Xylene	Ave	0.4403	0.4698		21.3	20.0	6.7	30.0
Xylene, o-	Ave	0.4307	0.4513		10.5	10.0	4.8	30.0
Styrene	Ave	0.6632	0.7234		10.9	10.0	9.1	30.0
Bromoform	Ave	0.5021	0.5833		11.6	10.0	16.2	30.0
Cumene	Ave	1.220	1.321		10.8	10.0	8.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5833	0.5842		10.0	10.0	0.1	30.0
n-Propylbenzene	Ave	1.429	1.507		10.5	10.0	5.5	30.0
1,2,3-Trichloropropane	Ave	0.4358	0.4424		10.2	10.0	1.5	30.0
n-Decane	Ave	0.4770	0.4685		9.82	10.0	-1.8	30.0
4-Ethyltoluene	Ave	1.242	1.371		11.0	10.0	10.4	30.0
2-Chlorotoluene	Ave	0.9591	1.036		10.8	10.0	8.0	30.0
1,3,5-Trimethylbenzene	Ave	1.034	1.090		10.5	10.0	5.4	30.0
Alpha Methyl Styrene	Ave	0.5445	0.6078		11.2	10.0	11.6	30.0
tert-Butylbenzene	Ave	1.020	1.117		11.0	10.0	9.6	30.0
1,2,4-Trimethylbenzene	Ave	1.030	1.063		10.3	10.0	3.2	30.0
sec-Butylbenzene	Ave	1.495	1.611		10.8	10.0	7.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Lab Sample ID: ICV 200-66774/13 Calibration Date: 01/03/2014 17:25

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: cma013.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.311	1.441		11.0	10.0	9.9	30.0
1,3-Dichlorobenzene	Ave	0.7644	0.7943		10.4	10.0	3.9	30.0
1,4-Dichlorobenzene	Ave	0.7647	0.7918		10.4	10.0	3.5	30.0
Benzyl chloride	Ave	0.9052	0.7462		8.24	10.0	-17.6	30.0
n-Butylbenzene	Ave	1.063	1.129		10.6	10.0	6.3	30.0
n-Undecane	Ave	0.4458	0.4833		10.8	10.0	8.4	30.0
1,2-Dichlorobenzene	Ave	0.7209	0.7277		10.1	10.0	0.9	30.0
n-Dodecane	Ave	0.4199	0.4988		11.9	10.0	18.8	30.0
1,2,4-Trichlorobenzene	Ave	0.5087	0.5856		11.5	10.0	15.1	30.0
Hexachlorobutadiene	Ave	0.4833	0.5384		11.1	10.0	11.4	30.0
Naphthalene	Ave	0.8822	1.219		13.8	10.0	38.1*	30.0
1,2,3-Trichlorobenzene	Ave	0.4221	0.5573		13.2	10.0	32.0*	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Lab Sample ID: CCVIS 200-69086/3 Calibration Date: 03/04/2014 13:01

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: 6411_03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.1663	0.2369		14.2	10.0	42.5*	30.0
Dichlorodifluoromethane	Ave	1.683	2.044		12.1	10.0	21.5	30.0
Freon 22	Ave	0.5176	0.6877		13.3	10.0	32.9*	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.767	2.102		11.9	10.0	18.9	30.0
Chloromethane	Ave	0.2664	0.3420		12.8	10.0	28.4	30.0
n-Butane	Ave	0.3806	0.5337		14.0	10.0	40.2*	30.0
Vinyl chloride	Ave	0.4224	0.5379		12.7	10.0	27.3	30.0
1,3-Butadiene	Ave	0.2692	0.3387		12.6	10.0	25.8	30.0
Bromomethane	Ave	0.6591	0.7784		11.8	10.0	18.1	30.0
Chloroethane	Ave	0.2073	0.2617		12.6	10.0	26.2	30.0
Isopentane	Ave	0.2627	0.3597		13.7	10.0	37.0*	30.0
Bromoethene(Vinyl Bromide)	Ave	0.8147	0.9123		11.2	10.0	12.0	30.0
Trichlorofluoromethane	Ave	1.985	2.281		11.5	10.0	14.9	30.0
n-Pentane	Ave	0.4446	0.5909		13.3	10.0	32.9*	30.0
Ethanol	Ave	0.0905	0.1095		18.2	15.0	21.0	30.0
Ethyl ether	Ave	0.3038	0.3619		11.9	10.0	19.1	30.0
Acrolein	Ave	0.1319	0.1678		12.7	10.0	27.2	30.0
Freon TF	Ave	1.460	1.655		11.3	10.0	13.4	30.0
1,1-Dichloroethene	Ave	0.6933	0.7798		11.2	10.0	12.5	30.0
Acetone	Ave	0.3906	0.6433		16.5	10.0	64.7*	30.0
Carbon disulfide	Ave	1.745	1.966		11.3	10.0	12.7	30.0
Isopropyl alcohol	Ave	0.2879	0.3609		12.5	10.0	25.3	30.0
3-Chloropropene	Ave	0.2838	0.3746		13.2	10.0	32.0*	30.0
Acetonitrile	Ave	0.2192	0.2087		9.52	10.0	-4.8	30.0
Methylene Chloride	Ave	0.3364	0.4054		12.0	10.0	20.5	30.0
tert-Butyl alcohol	Ave	0.7211	0.8205		11.4	10.0	13.8	30.0
Methyl tert-butyl ether	Ave	1.651	1.903		11.5	10.0	15.3	30.0
trans-1,2-Dichloroethene	Ave	0.6505	0.7764		11.9	10.0	19.4	30.0
Acrylonitrile	Ave	0.2482	0.3024		12.2	10.0	21.8	30.0
n-Hexane	Ave	0.6489	0.7523		11.6	10.0	15.9	30.0
1,1-Dichloroethane	Ave	0.9199	1.064		11.6	10.0	15.6	30.0
Vinyl acetate	Ave	0.6999	0.8964		12.8	10.0	28.1	30.0
cis-1,2-Dichloroethene	Ave	0.9487	1.026		10.8	10.0	8.2	30.0
Methyl Ethyl Ketone	Ave	0.3688	0.3976		10.8	10.0	7.8	30.0
Ethyl acetate	Ave	0.0780	0.0844		10.8	10.0	8.1	30.0
Tetrahydrofuran	Ave	0.0644	0.0861		13.4	10.0	33.7*	30.0
Chloroform	Ave	1.762	1.946		11.0	10.0	10.4	30.0
Cyclohexane	Ave	0.2258	0.2515		11.1	10.0	11.4	30.0
1,1,1-Trichloroethane	Ave	0.3561	0.4133		11.6	10.0	16.1	30.0
Carbon tetrachloride	Ave	0.3919	0.4499		11.5	10.0	14.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Lab Sample ID: CCVIS 200-69086/3 Calibration Date: 03/04/2014 13:01

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: 6411_03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.5912	0.6778		11.5	10.0	14.6	30.0
Benzene	Ave	0.5194	0.5696		11.0	10.0	9.7	30.0
1,2-Dichloroethane	Ave	0.1831	0.2182		11.9	10.0	19.2	30.0
n-Heptane	Ave	0.1688	0.2018		11.9	10.0	19.5	30.0
n-Butanol	Ave	0.0724	0.0698		9.64	10.0	-3.6	30.0
Trichloroethene	Ave	0.2679	0.2970		11.1	10.0	10.9	30.0
1,2-Dichloropropane	Ave	0.1923	0.2158		11.2	10.0	12.2	30.0
Methyl methacrylate	Ave	0.2021	0.2232		11.0	10.0	10.4	30.0
1,4-Dioxane	Ave	0.0894	0.0984		11.0	10.0	10.1	30.0
Dibromomethane	Ave	0.2658	0.3030		11.4	10.0	14.0	30.0
Bromodichloromethane	Ave	0.4044	0.4720		11.7	10.0	16.7	30.0
cis-1,3-Dichloropropene	Ave	0.3270	0.3710		11.3	10.0	13.4	30.0
methyl isobutyl ketone	Ave	0.2538	0.3081		12.1	10.0	21.4	30.0
Toluene	Ave	0.4926	0.5446		11.1	10.0	10.6	30.0
n-Octane	Ave	0.2879	0.3519		12.2	10.0	22.2	30.0
trans-1,3-Dichloropropene	Ave	0.3463	0.3889		11.2	10.0	12.3	30.0
1,1,2-Trichloroethane	Ave	0.2241	0.2540		11.3	10.0	13.3	30.0
Tetrachloroethene	Ave	0.4302	0.5011		11.6	10.0	16.5	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2588	0.3146		12.2	10.0	21.6	30.0
Dibromochloromethane	Ave	0.4767	0.5545		11.6	10.0	16.3	30.0
1,2-Dibromoethane	Ave	0.4366	0.4995		11.4	10.0	14.4	30.0
Chlorobenzene	Ave	0.6963	0.7712		11.1	10.0	10.8	30.0
Ethylbenzene	Ave	1.057	1.194		11.3	10.0	12.9	30.0
n-Nonane	Ave	0.4044	0.4631		11.5	10.0	14.5	30.0
m,p-Xylene	Ave	0.4403	0.4996		22.7	20.0	13.5	30.0
Xylene, o-	Ave	0.4307	0.4788		11.1	10.0	11.2	30.0
Styrene	Ave	0.6632	0.7227		10.9	10.0	9.0	30.0
Bromoform	Ave	0.5021	0.5944		11.8	10.0	18.4	30.0
Cumene	Ave	1.220	1.389		11.4	10.0	13.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5833	0.6692		11.5	10.0	14.7	30.0
n-Propylbenzene	Ave	1.429	1.630		11.4	10.0	14.1	30.0
1,2,3-Trichloropropane	Ave	0.4358	0.5088		11.7	10.0	16.8	30.0
n-Decane	Ave	0.4770	0.5684		11.9	10.0	19.1	30.0
4-Ethyltoluene	Ave	1.242	1.451		11.7	10.0	16.8	30.0
2-Chlorotoluene	Ave	0.9591	1.130		11.8	10.0	17.9	30.0
1,3,5-Trimethylbenzene	Ave	1.034	1.163		11.2	10.0	12.5	30.0
Alpha Methyl Styrene	Ave	0.5445	0.4481		8.23	10.0	-17.7	30.0
tert-Butylbenzene	Ave	1.020	1.137		11.2	10.0	11.5	30.0
1,2,4-Trimethylbenzene	Ave	1.030	1.158		11.2	10.0	12.5	30.0
sec-Butylbenzene	Ave	1.495	1.669		11.2	10.0	11.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Lab Sample ID: CCVIS 200-69086/3 Calibration Date: 03/04/2014 13:01

Instrument ID: CHC.i Calib Start Date: 01/03/2014 09:43

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/03/2014 15:48

Lab File ID: 6411_03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.311	1.447		11.0	10.0	10.3	30.0
1,3-Dichlorobenzene	Ave	0.7644	0.8599		11.2	10.0	12.5	30.0
1,4-Dichlorobenzene	Ave	0.7647	0.8578		11.2	10.0	12.2	30.0
Benzyl chloride	Ave	0.9052	1.019		11.3	10.0	12.6	30.0
n-Butylbenzene	Ave	1.063	1.238		11.7	10.0	16.5	30.0
n-Undecane	Ave	0.4458	0.5747		12.9	10.0	28.9	30.0
1,2-Dichlorobenzene	Ave	0.7209	0.7948		11.0	10.0	10.2	30.0
n-Dodecane	Ave	0.4199	0.4584		10.9	10.0	9.2	30.0
1,2,4-Trichlorobenzene	Ave	0.5087	0.5997		11.8	10.0	17.9	30.0
Hexachlorobutadiene	Ave	0.4833	0.5411		11.2	10.0	12.0	30.0
Naphthalene	Ave	0.8822	1.108		12.6	10.0	25.6	30.0
1,2,3-Trichlorobenzene	Ave	0.4221	0.5103		12.1	10.0	20.9	30.0

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Instrument ID: CHC.i Start Date: 01/03/2014 07:37

Analysis Batch Number: 66774 End Date: 01/03/2014 20:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-66774/1		01/03/2014 07:37	1	cma001.D	RTX-624 0.32(mm)
VIBLK 200-66774/2		01/03/2014 08:51	1		RTX-624 0.32(mm)
IC 200-66774/3		01/03/2014 09:43	1	cma003.D	RTX-624 0.32(mm)
IC 200-66774/4		01/03/2014 10:35	1	cma004.D	RTX-624 0.32(mm)
IC 200-66774/5		01/03/2014 11:28	1	cma005.D	RTX-624 0.32(mm)
IC 200-66774/6		01/03/2014 12:20	1	cma006.D	RTX-624 0.32(mm)
ICIS 200-66774/7		01/03/2014 13:12	1	cma007.D	RTX-624 0.32(mm)
IC 200-66774/8		01/03/2014 14:04	1	cma008.D	RTX-624 0.32(mm)
IC 200-66774/9		01/03/2014 14:56	1	cma009.D	RTX-624 0.32(mm)
IC 200-66774/10		01/03/2014 15:48	1	cma010.D	RTX-624 0.32(mm)
VIBLK 200-66774/11		01/03/2014 16:33	1		RTX-624 0.32(mm)
ICV 200-66774/13		01/03/2014 17:25	1	cma013.D	RTX-624 0.32(mm)
VIBLK 200-66774/14		01/03/2014 18:19	1		RTX-624 0.32(mm)
ZZZZZ		01/03/2014 19:12	1		RTX-624 0.32(mm)
ZZZZZ		01/03/2014 20:04	1		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-21172-1

SDG No.:

Instrument ID: CHC.i Start Date: 03/03/2014 09:09

Analysis Batch Number: 69015 End Date: 03/04/2014 09:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-69015/1		03/03/2014 09:09	1	6387_01.D	RTX-624 0.32(mm)
ZZZZZ		03/03/2014 09:57	1		RTX-624 0.32(mm)
CCVIS 200-69015/3		03/03/2014 10:50	1	6387_03.D	RTX-624 0.32(mm)
LCS 200-69015/4		03/03/2014 11:41	1	6387_04.D	RTX-624 0.32(mm)
MB 200-69015/5		03/03/2014 12:33	1	6387_05.D	RTX-624 0.32(mm)
ZZZZZ		03/03/2014 13:32	0.2		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 14:31	0.2		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 15:29	0.2		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 16:28	0.2		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 17:27	0.2		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 18:19	1		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 19:10	1		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 20:02	1		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 21:01	0.2		RTX-624 0.32(mm)
200-21172-6	4780	03/03/2014 21:59	0.2	6387_15.D	RTX-624 0.32(mm)
ZZZZZ		03/03/2014 22:57	0.2		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 23:56	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 00:55	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 01:53	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 02:45	1		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 03:44	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 04:42	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 05:41	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 06:39	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 07:38	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 08:37	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 09:29	1		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Instrument ID: CHC.i Start Date: 01/03/2014 07:37

Analysis Batch Number: 66774 End Date: 01/03/2014 20:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-66774/1		01/03/2014 07:37	1	cma001.D	RTX-624 0.32(mm)
VIBLK 200-66774/2		01/03/2014 08:51	1		RTX-624 0.32(mm)
IC 200-66774/3		01/03/2014 09:43	1	cma003.D	RTX-624 0.32(mm)
IC 200-66774/4		01/03/2014 10:35	1	cma004.D	RTX-624 0.32(mm)
IC 200-66774/5		01/03/2014 11:28	1	cma005.D	RTX-624 0.32(mm)
IC 200-66774/6		01/03/2014 12:20	1	cma006.D	RTX-624 0.32(mm)
ICIS 200-66774/7		01/03/2014 13:12	1	cma007.D	RTX-624 0.32(mm)
IC 200-66774/8		01/03/2014 14:04	1	cma008.D	RTX-624 0.32(mm)
IC 200-66774/9		01/03/2014 14:56	1	cma009.D	RTX-624 0.32(mm)
IC 200-66774/10		01/03/2014 15:48	1	cma010.D	RTX-624 0.32(mm)
VIBLK 200-66774/11		01/03/2014 16:33	1		RTX-624 0.32(mm)
ICV 200-66774/13		01/03/2014 17:25	1	cma013.D	RTX-624 0.32(mm)
VIBLK 200-66774/14		01/03/2014 18:19	1		RTX-624 0.32(mm)
ZZZZZ		01/03/2014 19:12	1		RTX-624 0.32(mm)
ZZZZZ		01/03/2014 20:04	1		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-21174-1

SDG No.:

Instrument ID: CHC.i Start Date: 03/03/2014 09:09

Analysis Batch Number: 69015 End Date: 03/04/2014 09:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-69015/1		03/03/2014 09:09	1	6387_01.D	RTX-624 0.32(mm)
ZZZZZ		03/03/2014 09:57	1		RTX-624 0.32(mm)
CCVIS 200-69015/3		03/03/2014 10:50	1	6387_03.D	RTX-624 0.32(mm)
LCS 200-69015/4		03/03/2014 11:41	1	6387_04.D	RTX-624 0.32(mm)
MB 200-69015/5		03/03/2014 12:33	1	6387_05.D	RTX-624 0.32(mm)
ZZZZZ		03/03/2014 13:32	0.2		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 14:31	0.2		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 15:29	0.2		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 16:28	0.2		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 17:27	0.2		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 18:19	1		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 19:10	1		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 20:02	1		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 21:01	0.2		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 21:59	0.2		RTX-624 0.32(mm)
ZZZZZ		03/03/2014 22:57	0.2		RTX-624 0.32(mm)
200-21174-11	4472	03/03/2014 23:56	0.2	6387_17.D	RTX-624 0.32(mm)
ZZZZZ		03/04/2014 00:55	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 01:53	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 02:45	1		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 03:44	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 04:42	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 05:41	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 06:39	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 07:38	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 08:37	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 09:29	1		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Instrument ID: CHC.i Start Date: 01/03/2014 07:37

Analysis Batch Number: 66774 End Date: 01/03/2014 20:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-66774/1		01/03/2014 07:37	1	cma001.D	RTX-624 0.32(mm)
VIBLK 200-66774/2		01/03/2014 08:51	1		RTX-624 0.32(mm)
IC 200-66774/3		01/03/2014 09:43	1	cma003.D	RTX-624 0.32(mm)
IC 200-66774/4		01/03/2014 10:35	1	cma004.D	RTX-624 0.32(mm)
IC 200-66774/5		01/03/2014 11:28	1	cma005.D	RTX-624 0.32(mm)
IC 200-66774/6		01/03/2014 12:20	1	cma006.D	RTX-624 0.32(mm)
ICIS 200-66774/7		01/03/2014 13:12	1	cma007.D	RTX-624 0.32(mm)
IC 200-66774/8		01/03/2014 14:04	1	cma008.D	RTX-624 0.32(mm)
IC 200-66774/9		01/03/2014 14:56	1	cma009.D	RTX-624 0.32(mm)
IC 200-66774/10		01/03/2014 15:48	1	cma010.D	RTX-624 0.32(mm)
VIBLK 200-66774/11		01/03/2014 16:33	1		RTX-624 0.32(mm)
ICV 200-66774/13		01/03/2014 17:25	1	cma013.D	RTX-624 0.32(mm)
VIBLK 200-66774/14		01/03/2014 18:19	1		RTX-624 0.32(mm)
ZZZZZ		01/03/2014 19:12	1		RTX-624 0.32(mm)
ZZZZZ		01/03/2014 20:04	1		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-21188-1

SDG No.:

Instrument ID: CHC.i Start Date: 03/04/2014 11:19

Analysis Batch Number: 69086 End Date: 03/05/2014 11:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-69086/1		03/04/2014 11:19	1	6411_01.D	RTX-624 0.32(mm)
ZZZZZ		03/04/2014 12:09	1		RTX-624 0.32(mm)
CCVIS 200-69086/3		03/04/2014 13:01	1	6411_03.D	RTX-624 0.32(mm)
LCS 200-69086/4		03/04/2014 13:53	1	6411_04.D	RTX-624 0.32(mm)
MB 200-69086/5		03/04/2014 14:45	1	6411_05.D	RTX-624 0.32(mm)
ZZZZZ		03/04/2014 16:24	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 17:23	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 18:22	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 19:20	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 20:19	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 21:18	0.2		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 22:10	1		RTX-624 0.32(mm)
ZZZZZ		03/04/2014 23:09	0.2		RTX-624 0.32(mm)
ZZZZZ		03/05/2014 00:07	0.2		RTX-624 0.32(mm)
ZZZZZ		03/05/2014 01:06	0.2		RTX-624 0.32(mm)
ZZZZZ		03/05/2014 02:04	0.2		RTX-624 0.32(mm)
ZZZZZ		03/05/2014 03:03	0.2		RTX-624 0.32(mm)
ZZZZZ		03/05/2014 04:02	0.2		RTX-624 0.32(mm)
ZZZZZ		03/05/2014 04:54	1		RTX-624 0.32(mm)
ZZZZZ		03/05/2014 05:52	0.2		RTX-624 0.32(mm)
ZZZZZ		03/05/2014 06:50	0.2		RTX-624 0.32(mm)
200-21188-5	4573	03/05/2014 07:49	0.2	6411_22.D	RTX-624 0.32(mm)
ZZZZZ		03/05/2014 08:47	0.2		RTX-624 0.32(mm)
ZZZZZ		03/05/2014 09:46	0.2		RTX-624 0.32(mm)
ZZZZZ		03/05/2014 10:44	0.2		RTX-624 0.32(mm)
ZZZZZ		03/05/2014 11:37	1		RTX-624 0.32(mm)

Shipping and Receiving Documents

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: Aaron Richardson	Samples Collected By: ADR/SPS	1 of 1 COCs
Company: ARCADIS	Phone: 585-662-4024		
Address: 295 Woodcliff Dr.	Email: Aaron.Richardson@ARCADIS-US.com		
City/State/Zip Fairport NY 14450			
Phone: 585-385-0090	Site Contact: Aaron Richardson		
FAX: 585-385-4198	TA Contact: Don Dalicki		
Project Name: Roehlen Engraving	Analysis Turnaround Time		
Site:	Standard (Specify) 2-week		
PO # B0083317.0001	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
Office - Indoor - 031114	3/11/14-3/12	0955	0830	-30	-6	3986	5439	X											
Office - SS - 031114	↓	0955	0920	-30	-8	3664	3661	X											
Seating - Indoor - 031114	↓	1000	0950	-30	-14	3224	5039	X											
Seating - SS - 031114	↓	1000	0830	-30	-6	3107	4118	X											

Temperature (Fahrenheit)	Interior	Ambient
Start	72°	45°
Stop	72°	30°

Pressure (inches of Hg)	Interior	Ambient
Start	29.65"	29.65"
Stop	29.58"	29.58"

200-21380 Chain of Custody

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date/Time: 3/12/14	Samples Received by:
Samples Relinquished by:	Date/Time: 3/12/14	Received by:
Relinquished by:	Date/Time: 3/13/14 1230	Received by: TABUCL

Lab Use Only **Shipper Name:** **Opened by:** **Condition:**

FedEx Express NEW Package US Airbill

FedEx Tracking Number 8050 4968 5099

Form ID No. 0200

1 From

Date 3/10/11

Sender's Name ANDREW RICHARDSON Phone 585 662-1102

Company ARCADIS

Address 295 Woodcliff Dr.

Dept./Floor/Suite/Room

City Fairport State NY ZIP 14450

2 Your Internal Billing Reference B00 83317.0000.00006

3 To

Recipient's Name SAMPLES REC. Phone 802 660-1990

Company TEST AMERICA

Address 20 Community Dr

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address Suite 11

Use this line for the HOLD location address or for continuation of your shipping address.

City South Burlington State VT ZIP 05403

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.
For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [X] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [X] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip Acct. No. [ ]

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages 2 Total Weight 21 lbs. Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

644

8050 4968 5099

Rev. Date 1/12 - P...

fedex.com 1.800.GoFedEx 1.800.463.3339

fedex.com 1.800.GoFedEx 1.800.463.3339

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 200-21380-1
SDG Number: 200-21380

Login Number: 21380
List Number: 1
Creator: Lavigne, Scott M

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	119661,662
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.	True	AMBIENT
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.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

ARCADIS

Attachment 3

Soil Vapor / Indoor Air Matrix 1

October 2006

	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m^3)			
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m^3)	< 0.25	0.25 to < 1	1 to < 5.0	5.0 and above
< 5	1. No further action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
5 to < 50	5. No further action	6. MONITOR	7. MONITOR	8. MITIGATE
50 to < 250	9. MONITOR	10. MONITOR / MITIGATE	11. MITIGATE	12. MITIGATE
250 and above	13. MITIGATE	14. MITIGATE	15. MITIGATE	16. MITIGATE

No further action:
Given that the compound was not detected in the indoor air sample and that the concentration detected in the sub-slab vapor sample is not expected to significantly affect indoor air quality, no additional actions are needed to address human exposures.

Take reasonable and practical actions to identify source(s) and reduce exposures:
The concentration detected in the indoor air sample is likely due to indoor and/or outdoor sources rather than soil vapor intrusion given the concentration detected in the sub-slab vapor sample. Therefore, steps should be taken to identify potential source(s) and to reduce exposures accordingly (e.g., by keeping containers tightly capped or by storing volatile organic compound-containing products in places where people do not spend much time, such as a garage or outdoor shed). Resampling may be recommended to demonstrate the effectiveness of actions taken to reduce exposures.

MONITOR:
Monitoring, including sub-slab vapor, basement air, lowest occupied living space air, and outdoor air sampling, is needed to determine whether concentrations in the indoor air or sub-slab vapor have changed. Monitoring may also be needed to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined on a site-specific and building-specific basis, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

MITIGATE:
Mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system, and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

MONITOR / MITIGATE:
Monitoring or mitigation may be recommended after considering the magnitude of sub-slab vapor and indoor air concentrations along with building- and site-specific conditions.

See additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX 1

This matrix summarizes the minimum actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

[1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate building-specific conditions (e.g., dirt floor in basement, crawl spaces, etc.) and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, resampling may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Additionally, actions more protective of public health than those specified within the matrix may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action is usually undertaken for reasons other than public health (e.g., seeking community acceptance, reducing excessive costs, etc.).

[2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of vapor contamination, nor does it preclude remediating contaminated soil vapors or the source of soil vapor contamination.

[3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 0.25 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples, a minimum reporting limit of 5 micrograms per cubic meter is recommended for buildings with full slab foundations, and 1 microgram per cubic meter for buildings with less than a full slab foundation.

[4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion to occur is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions may be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.

[5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

[6] The party responsible for implementing the recommended actions will differ depending upon several factors, including the identified source of the volatile chemicals, the environmental remediation program, and site-specific and building-specific conditions. For example, to the extent that all site data and site conditions demonstrate that soil vapor intrusion is not occurring and that the potential for soil vapor intrusion to occur is not likely, the soil vapor intrusion investigation would be considered complete. In general, if indoor exposures represent a concern due to indoor sources, then the State will provide guidance to the property owner and/or tenant on ways to reduce their exposure. If indoor exposures represent a concern due to outdoor sources, then the NYSDEC will decide who is responsible for further investigation and any necessary remediation. Depending upon the outdoor source, this responsibility may or may not fall upon the party conducting the soil vapor intrusion investigation.

Soil Vapor / Indoor Air Matrix 2

October 2006

	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m^3)			
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m^3)	< 3	3 to < 30	30 to < 100	100 and above
< 100	1. No further action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
100 to < 1,000	5. MONITOR	6. MONITOR / MITIGATE	7. MITIGATE	8. MITIGATE
1,000 and above	9. MITIGATE	10. MITIGATE	11. MITIGATE	12. MITIGATE

No further action:
Given that the compound was not detected in the indoor air sample and that the concentration detected in the sub-slab vapor sample is not expected to significantly affect indoor air quality, no additional actions are needed to address human exposures.

Take reasonable and practical actions to identify source(s) and reduce exposures:
The concentration detected in the indoor air sample is likely due to indoor and/or outdoor sources rather than soil vapor intrusion given the concentration detected in the sub-slab vapor sample. Therefore, steps should be taken to identify potential source(s) and to reduce exposures accordingly (e.g., by keeping containers tightly capped or by storing volatile organic compound-containing products in places where people do not spend much time, such as a garage or outdoor shed). Resampling may be recommended to demonstrate the effectiveness of actions taken to reduce exposures.

MONITOR:
Monitoring, including sub-slab vapor, basement air, lowest occupied living space air, and outdoor air sampling, is needed to determine whether concentrations in the indoor air or sub-slab vapor have changed. Monitoring may also be needed to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined on a site-specific and building-specific basis, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

MITIGATE:
Mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system, and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

MONITOR / MITIGATE:
Monitoring or mitigation may be recommended after considering the magnitude of sub-slab vapor and indoor air concentrations along with building- and site-specific conditions.

See additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX 2

This matrix summarizes the minimum actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

[1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate building-specific conditions (e.g., dirt floor in basement, crawl spaces, etc.) and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, resampling may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Additionally, actions more protective of public health than those specified within the matrix may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action is usually undertaken for reasons other than public health (e.g., seeking community acceptance, reducing excessive costs, etc.).

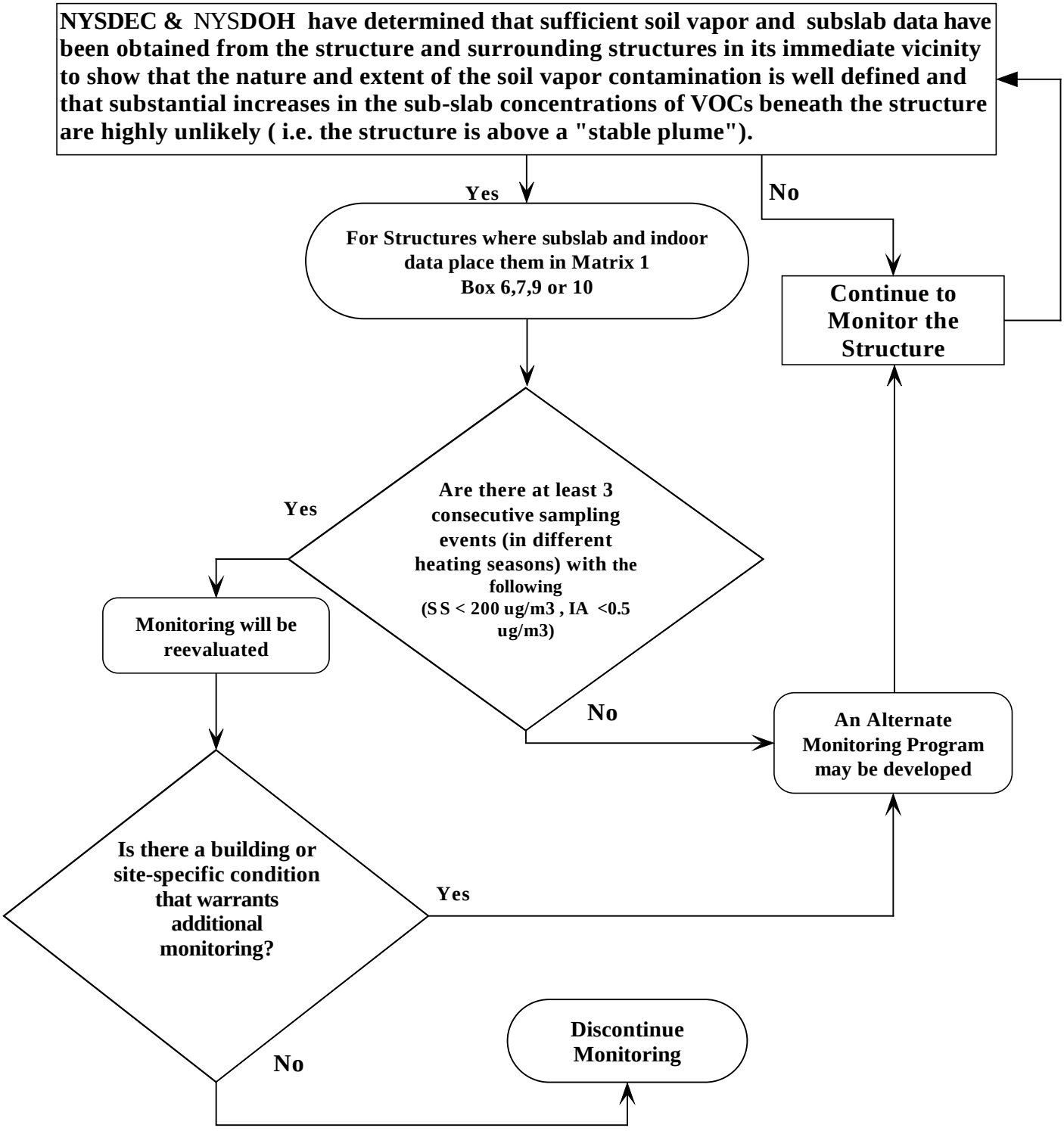
[2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of vapor contamination, nor does it preclude remediating contaminated soil vapors or the source of soil vapor contamination.

[3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 3 micrograms per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples, a minimum reporting limit of 5 micrograms per cubic meter is recommended.

[4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion to occur is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions may be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.

[5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

[6] The party responsible for implementing the recommended actions will differ depending upon several factors, including the identified source of the volatile chemicals, the environmental remediation program, and site-specific and building-specific conditions. For example, to the extent that all site data and site conditions demonstrate that soil vapor intrusion is not occurring and that the potential for soil vapor intrusion to occur is not likely, the soil vapor intrusion investigation would be considered complete. In general, if indoor exposures represent a concern due to indoor sources, then the State will provide guidance to the property owner and/or tenant on ways to reduce their exposure. If indoor exposures represent a concern due to outdoor sources, then the NYSDEC will decide who is responsible for further investigation and any necessary remediation. Depending upon the outdoor source, this responsibility may or may not fall upon the party conducting the soil vapor intrusion investigation.

Stable Plume Monitoring Decisions - Matrix 1 Structure

Note that the decision is made on a structure by structure basis.