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July 1, 2014

Mr. Dale Thrush
Environmental Engineer
U.S. EPA Region 6
Technical Section (6EN-HC)
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2750

Re: Agreed Order on Consent
EPA Docket No. RCRA-VI-7003-01-01
El Paso Merchant Energy-Petroleum Company, Elementis Site, Corpus Christi, TX
2014 1st Semiannual Indoor Air Monitoring Report

Dear Mr. Thrush:

El Paso Merchant Energy-Petroleum Company (El Paso) is pleased to submit three hard copies and one electronic copy (CD) of the 2014 1st Semiannual Indoor Air Monitoring Report for the Elementis Chromium, L.P. (Elementis) Site in Corpus Christi, Texas. This report has been prepared in response to the letter from EPA to El Paso received on May 20, 2011, which approved the ***LNAPL Removal System Upgrade Work Plan*** (URS, April 2011) with modification.

If you have any questions or comments, please contact me at (713) 420-3414.

Sincerely,

David W. Zuvanich, P.G.
(Texas License No. 1537)
Project Manager
Kinder Morgan, Inc.

Enclosure

cc: C. Todd Counter, Corrective Action Section, TCEQ, Austin, TX
Joel Barnhart, American Chrome & Chemical L.P.
Vince Blout, Kinder Morgan, Inc. - w/o enclosure
File

2014 1st Semiannual Indoor Air Monitoring Report

El Paso Merchant Energy-Petroleum Company

Elementis Chromium, L.P. Site
Corpus Christi, Texas

July 2014

Prepared for:
El Paso Merchant Energy-Petroleum Company
Houston, TX

Prepared by:
URS Corporation
9400 Amberglen Boulevard
Austin, TX 78729

Table of Contents

Section **Page**

1.0 INTRODUCTION 1-1
1.1 Site Description 1-1
1.2 Regulatory Overview 1-1
1.2.1 Agreed Final Judgment 1-1
1.2.2 Administrative Order on Consent 1-2
1.3 Objectives of the Indoor Air Sampling 1-3
1.4 Organization of the Report 1-3

2.0 AIR MONITORING ACTIVITIES 2-1
2.1 Building Inspections 2-1
2.2 Ambient and Indoor Air Sample Collection 2-1

3.0 FINDINGS AND CONCLUSIONS 3-1

4.0 REFERENCES 4-1

List of Tables

Table 1 Monitoring Results for May 16, 2014 Sampling Event
Table 2 Monitoring Results Versus Time

List of Figures

Figure 1 Site Location Map
Figure 2 Indoor Air and Ambient Air Sample Results - Benzene (May 16, 2014)

List of Appendices

Appendix A Analytical Report
Appendix B Photographic Log

Acronyms and Abbreviations

AFJ	Agreed Final Judgment
AOC	Administrative Order on Consent
BTEX	benzene, toluene, ethylbenzene, and xylenes
CCIH	Corpus Christi Inner Harbor
CMS	Corrective Measures Study
El Paso	El Paso Merchant Energy-Petroleum Company
Elementis	Elementis Chromium, L.P.
EPA	U.S. Environmental Protection Agency
FI	Facility Investigation
HASP	Health and Safety Plan
ICA	Interim Corrective Action
ID	Identification
IM	Interim Measures
Kinder Morgan	Kinder Morgan, Inc.
LNAPL	light non-aqueous phase liquid
Magellan	Magellan Terminal
ppbv	parts per billion by volume
SAP	Sampling and Analysis Plan
SVE	soil vapor extraction
TCEQ	Texas Commission on Environmental Quality
TestAmerica	TestAmerica Laboratories, Inc.
URS	URS Corporation
Valero	Valero Energy Corporation
VOC	volatile organic compound

1.0 INTRODUCTION

This report presents a summary of the activities, findings, and conclusions from the indoor air monitoring event performed on May 16, 2014. This sampling event was performed by URS Corporation (URS) at the Elementis Chromium, L.P. (Elementis) site in Corpus Christi, Texas on behalf of El Paso Merchant Energy-Petroleum Company (El Paso). In 2012 Kinder Morgan, Inc. (Kinder Morgan) acquired El Paso; however, all regulatory issues are currently still being handled under administrative orders made between El Paso and the State of Texas and the U.S. Environmental Protection Agency (EPA).

On May 20, 2011, El Paso received approval of the ***LNAPL Removal System Upgrade Work Plan*** (URS, April 2011) with modification from the EPA. The modification included the addition of semiannual indoor air sampling of Buildings 1A, 1B, 4, 6, and 7 for benzene for a three-year period following the startup of the soil vapor extraction (SVE) system. The purpose of the indoor air monitoring outlined in the EPA letter is to verify the effectiveness of the light non-aqueous phase liquid (LNAPL) system modifications (SVE system) and to demonstrate that the system is protective of human health in Buildings 6 and 7. The SVE system generally has been in steady operation since mid-February of 2012. Reliability and performance have improved after various process upgrades were made during 2012 and 2013. Because the initial phases of the LNAPL system upgrade do not affect Buildings 1A, 1B, and 4, sampling in those buildings is intended to verify that there continues to be no unacceptable exposure issue in those buildings. Indoor air monitoring activities performed in response to the ***LNAPL Removal System Upgrade Work Plan*** approval letter from EPA are documented in this report.

1.1 Site Description

The Elementis property (also referred to as the Facility) is located in an industrial area characterized by manufacturing and refining operations. The Elementis property consists of a manufacturing facility and associated undeveloped land located at 3800 Buddy Lawrence Drive in Corpus Christi, Nueces County, Texas (Figure 1). The Elementis property occupies approximately 425 acres located adjacent to and downgradient of the Valero Refinery (formerly the Coastal Refinery) and the Magellan Terminal (Magellan) to the southeast and to the south of the Corpus Christi Inner Harbor (CCIH) ship channel near the Avery Point Turning Basin. The Citgo Refinery is adjacent to the Elementis Facility to the east.

1.2 Regulatory Overview

Administrative orders between El Paso and the State of Texas and the EPA prescribe work required to identify, investigate, contain, and control migration of waste constituents within and adjacent to the Elementis property. Since the issuance of these orders, a significant amount of investigation and remediation has been performed. The following subsections summarize the two legal orders.

1.2.1 Agreed Final Judgment

El Paso became involved in environmental activities associated with Elementis upon the merger of El Paso and Coastal in 2001. At that time, Coastal had an existing Agreed Final Judgment

(AFJ) that is currently regulated by the Texas Commission on Environmental Quality (TCEQ); several obligations of that order had already been implemented, including an Interim Corrective Action (ICA) System, which consists of recovery wells across the Facility. Upon merging with Coastal, El Paso became the respondent to the AFJ.

The AFJ was signed between the TCEQ and Coastal (now El Paso) in April 1998 (TCEQ, April 1998) and amended in September 2003 (TCEQ, September 2003). The AFJ obligated Coastal to remediate hydrocarbons under the Elementis site and under the refinery itself. The AFJ Area includes the Coastal Refinery (now Valero Refinery) and the Elementis site west of Cantwell Lane, consisting of mostly vacant land and former disposal areas, for a distance of approximately 4,500 feet from Cantwell Lane to Navigation Boulevard. The AFJ Area is shown on Figure 1. In 2003, Valero Energy Corporation (Valero) purchased the former Coastal Refinery from El Paso. Responsibilities defined in the AFJ were delegated between the parties as follows:

- Valero will operate, maintain, and, when necessary, enhance their onsite groundwater monitoring system and the ICA Systems.
- El Paso will operate and maintain the offsite groundwater monitoring system and the ICA Systems located on the adjacent property owned by Elementis.

Both El Paso and Valero currently work together to meet the obligations outlined in the AFJ. Semiannual groundwater monitoring is performed and recovery systems are maintained and operated by both parties.

1.2.2 Administrative Order on Consent

In September 2002, El Paso and EPA Region 6 signed an Administrative Order on Consent (AOC) (EPA, September 2002). The AOC obligates El Paso to investigate and remediate hydrocarbon contamination on the Elementis property east of Cantwell Lane. Specifically, the AOC refers to two areas of concern, the Facility Area (also referred to as the AOC Area) and the Interim Measures (IM) Area, which are shown on Figure 1. The separation of the AOC from the AFJ was documented in the ***Joint Supplement to the Agreed Final Order*** that was signed on January 23, 2003 (TCEQ, January 2003).

The AOC stipulates that El Paso will investigate and address hydrocarbon contamination on the Elementis property east of Cantwell Lane in two phases: the IM Area Investigation/Implementation and the Facility Investigation (FI)/Corrective Measures Study (CMS). The FI and CMS were completed in 2009 in accordance with the AOC and documented in reports submitted to EPA in February 2010 (URS, February 2010a, 2010b). As part of the corrective measures, groundwater monitoring of benzene is currently performed on a semiannual basis.

One component of the FI/CMS included the "Facility LNAPL Removal System Upgrade." The LNAPL Removal System Upgrade addresses the AOC response action and proposed SVE as the first phase of implementation. The first phase of the SVE was implemented during the first quarter of 2012. The ***LNAPL Removal System Upgrade Work Plan*** proposing SVE was approved by EPA with modification to include indoor air monitoring at select buildings. Since 2012, various system modifications and upgrades have been performed to optimize the effectiveness of the system. In 2013, additional SVE wells were installed and brought online,

increasing the SVE treatment area. The estimated extent of the area influenced by the current SVE system is shown on Figure 2.

In the IM Area, a containment and recovery system was installed to mitigate the potential for discharge of hydrocarbons to the CCIH ship channel. This system includes a fully penetrating subsurface barrier wall, extraction wells, process piping, and a groundwater recovery unit. This system is routinely maintained and optimized as necessary. Recovered groundwater containing residual chromium contamination is sent to Elementis' groundwater treatment system, which lies east of Cantwell Lane.

1.3 Objectives of the Indoor Air Sampling

The purpose of the indoor air monitoring outlined in the EPA letter is to verify the effectiveness of the LNAPL system modifications and to demonstrate that the system is protective of human health in Buildings 6 and 7. The sampling of Buildings 1A, 1B, and 4 is intended to verify that there is no exposure issue in those buildings. Building locations are shown on Figure 2.

This is the 6th semiannual sampling event in response to the EPA conditional approval letter. The semiannual sampling events have been conducted on the following dates:

- 1st semiannual sampling event: November 30, 2011;
- 2nd semiannual sampling event: June 29, 2012;
- 3rd semiannual sampling event: November 16, 2012;
- 4th semiannual sampling event: May 16, 2013;
- 5th semiannual sampling event: November 13, 2013; and
- 6th semiannual sampling event: May 16, 2014.

The initial phase of the LNAPL Upgrade System was not operational at the time of the November 2011 sampling, so the first round of indoor air data were collected to determine whether the contribution of the vapor intrusion pathway (i.e., movement of vapors from contaminated groundwater into the overlying buildings) was changing compared with monitoring results obtained during the FI in 2009. The final semiannual indoor air sampling event as required per the ***LNAPL Removal System Upgrade Work Plan*** approval letter (2011) is scheduled for Novmber 2014.

1.4 Organization of the Report

Following this introduction (Section 1.0), this report is organized into the following sections:

- Section 2.0 – Air Monitoring Activities;
- Section 3.0 – Findings and Conclusions; and
- Section 4.0 – References.

2.0 AIR MONITORING ACTIVITIES

This section describes activities performed during the indoor air sampling event conducted on May 16, 2014. URS performed indoor air monitoring of benzene, toluene, ethylbenzene, and xylenes (BTEX) in Buildings 1A, 1B, 4, 6, and 7 at the Elementis site. The primary purpose of the monitoring is to measure the benzene concentrations in these buildings. BTEX was measured rather than just benzene to facilitate the data evaluation; if only benzene was measured, this potentially would result in more conservative evaluations that would be more likely to attribute the observed concentrations solely to the subsurface contamination. Measuring BTEX makes it possible to examine compound ratios (e.g., benzene/toluene) to assist in assessing the contribution of various potential sources (e.g., subsurface, outdoor air, indoor emission sources) to the measured indoor benzene concentration.

Air monitoring activities included:

- Ambient air sampling; and
- Indoor air sampling.

Ambient and indoor air samples were collected as described in the ***Facility Investigation/ Corrective Measures Study Sampling and Analysis Plan*** (URS, April 2009) hereafter referred to as ***FI/CMS SAP***.

Prior to starting any field activities, URS reviewed site conditions and identified potential hazards, particularly those that may increase the risk of an incident affecting people or property (i.e., underground utilities, terrain, contamination, age and conditions of site structures, etc.). The identified risks and associated abatement measures were reviewed in the context of the existing site-specific Health and Safety Plan (HASP).

2.1 Building Inspections

The five buildings that were sampled during this event are situated within the footprint of the known extent of the LNAPL and dissolved phase groundwater plume and are occupied to some extent by Elementis. Prior to collecting indoor air samples, each occupied building was inspected for potential sources of volatile organics that may contribute to elevated sample results. Chemicals that may contribute to detections in the samples were documented when present. No attempt was made to remove any potential indoor emission sources prior to the start of sampling.

2.2 Ambient and Indoor Air Sample Collection

Sample locations are shown on Figure 2. URS performed indoor air monitoring of BTEX in Buildings 1A, 1B, 4, 6, and 7. A total of 12 indoor air samples (10 regular and 2 duplicate samples) and 2 ambient air samples were collected at the Elementis Facility. Samples were collected from inside Buildings 1A, 1B, 4, 6, and 7 and from outside Buildings 1A/1B and Buildings 6 and 7.

The sample canisters were placed within a given building at approximately the same locations as those reported in the ***Facility Investigation Report*** (URS, February 2010a), and samples were

collected as described in the ***FI/CMS SAP*** (URS, April 2009). The only exception was that the sample collected in the Building 4 control room was collected in the small lunch room rather than in the adjacent conference room (this sample also was collected in the small lunch room during all semiannual sampling events subsequent to the 1st round of sampling). The air samples were collected in evacuated, stainless-steel canisters and submitted to TestAmerica Laboratories, Inc. (TestAmerica) in Corpus Christi, Texas for analysis of volatile organic compounds (VOCs) using EPA Method TO-15.

Ambient air samples were collected from the upwind side of the occupied buildings or near the location where outdoor air is drawn into the building (e.g., ventilation system intakes). A total of two ambient air samples were collected at approximately the same locations as those during the 2009 FI and previous semiannual sampling events. The indoor air data were compared to ambient air sample results to assess potential risks to human health that may be associated with vapor intrusion into these buildings from the subsurface.

The sampling will continue semiannually for a three-year period to verify the effectiveness of expected modifications to the LNAPL system and to demonstrate that it is protective of human health in Buildings 6 and 7. The initial phases of the LNAPL system upgrade are not anticipated to affect Buildings 1A, 1B, and 4, so the sampling performed in these buildings will serve to verify that there is not an exposure issue in these buildings.

3.0 FINDINGS AND CONCLUSIONS

Sample results are summarized in Tables 1 and 2 and the laboratory report is provided as Appendix A. Benzene concentrations are shown on Figure 2.

Table 1 contains the results for the samples collected on May 16, 2014. As expected, benzene and toluene were detected in every sample. Ethylbenzene and xylenes also were detected in the samples, but at concentrations considered to be insignificant.

The highest concentration of benzene that was detected was 6.2 parts per billion by volume (ppbv) in the Building 1A break room. All other detected benzene concentrations in indoor air were 4.3 ppbv or lower. Some of the measured benzene at these other locations may be partially attributable to the entry of outdoor air into the indoor spaces. Benzene results are presented on Figure 2.

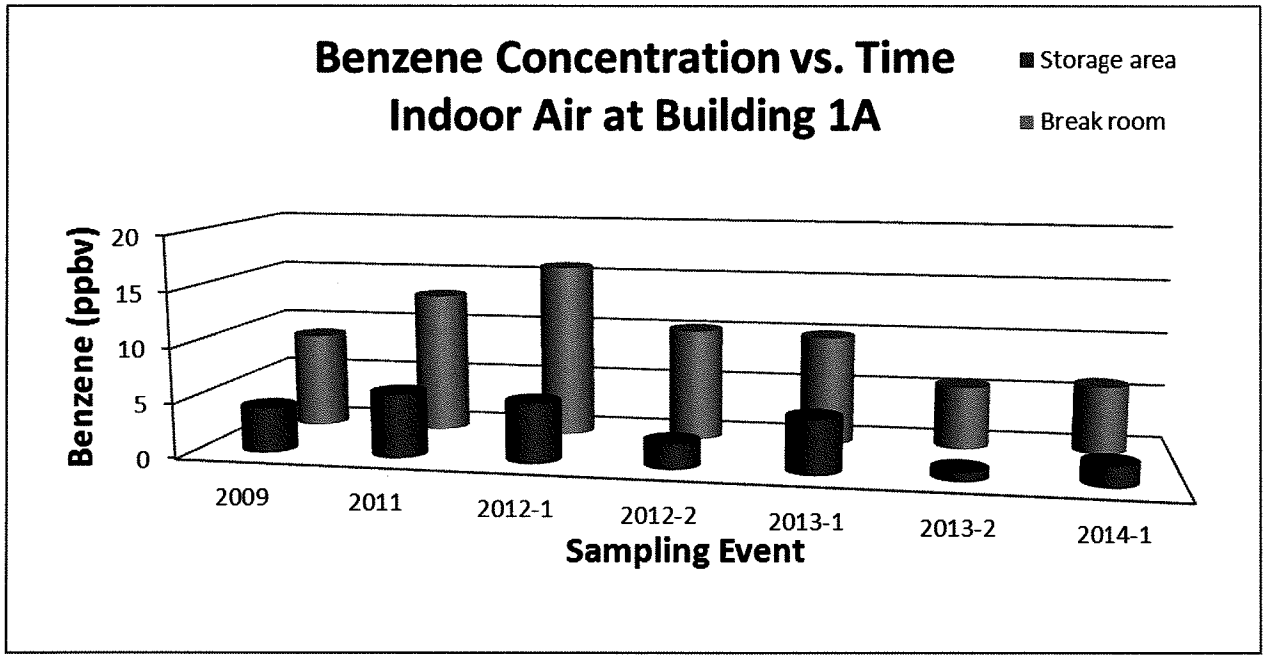
Table 2 contains the results versus time for benzene and toluene. The May 2014 air results are generally in good agreement with the results for samples collected in the previous round of sampling in November 2013. The primary differences from 2013 to 2014 are that benzene concentrations increased slightly in Building 7 between the two sampling events and the laboratory in Building 4 had much higher levels of toluene in 2014. The Building 4 lab sample was collected in the analytical chemistry laboratory, which had a noticeable solvent odor attributed to their use of acetone. This isn't a concern except to the extent it requires dilution of the sample. Although during previous events, the lab staff has indicated that petroleum hydrocarbons are not used in the lab, these data indicate a likely use of toluene during or just before the sampling event. It is unknown to what extent or frequency solvents may be used; however, additional discussion with the lab staff regarding toluene usage will be conducted during the next sampling event. Compared with results from 2009 and 2011, the primary difference in the 2014 data set is that the benzene concentrations within Building 6 and Building 7 were much lower in 2014 than during times before the SVE system was in operation. There also is some reduction in the Building 4 control room data. Elevated benzene concentrations have not been detected in the Building 4 lab during any of the sampling events, which is likely a function of the higher rates of ventilation within that space).

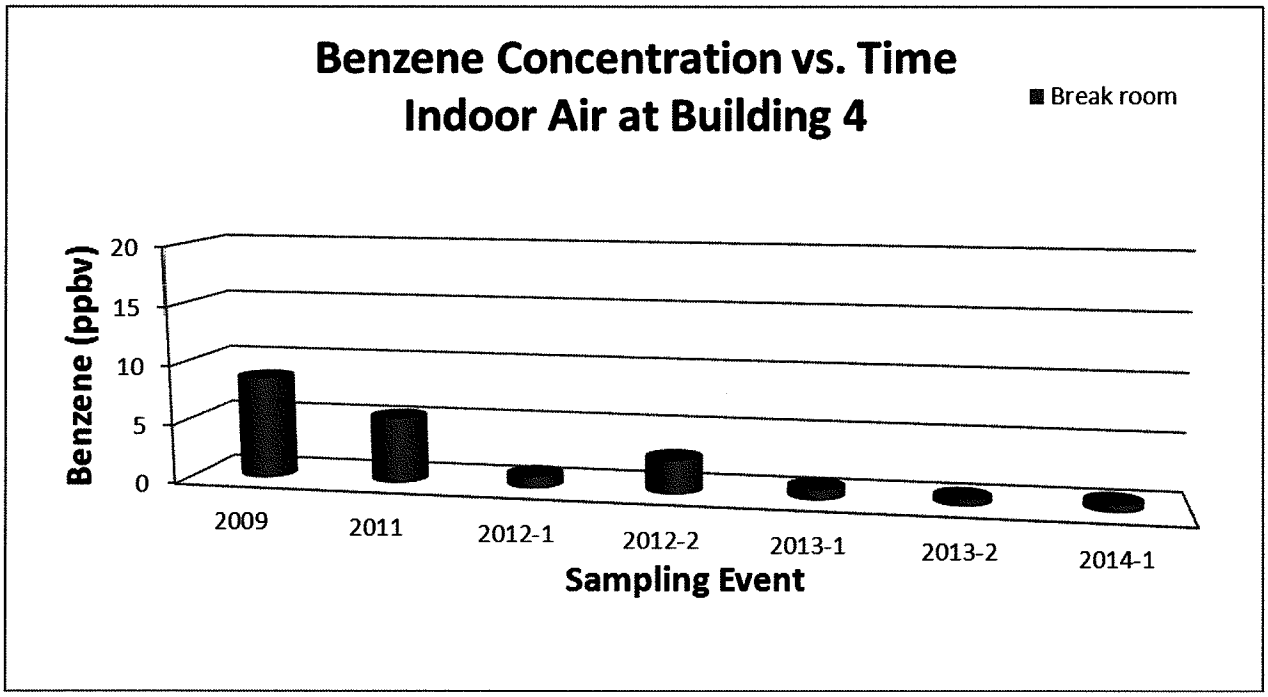
Another noteworthy result is the Building 6 Sample 6-1D, which was intended to be a duplicate of Sample 6-1. Both samples were collected in the breakroom on top of the refrigerator, but 6-1D was directly next to an aerosol can of air freshener. Although the air freshener did not contain benzene, it did contain other hydrocarbons such as toluene. See photo log in Appendix B.

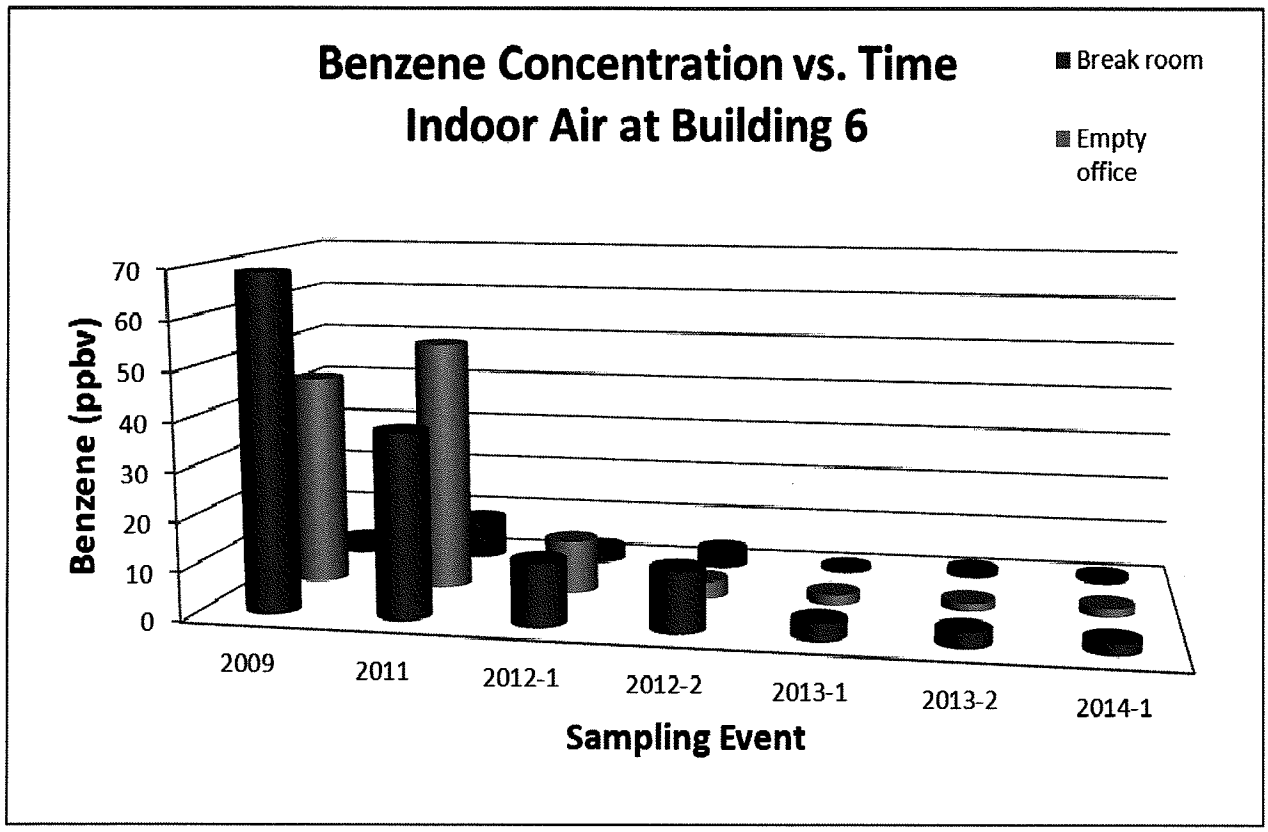
The overall indoor air monitoring results indicate that the operation of the SVE system is having an effect on indoor air quality. For Buildings 1A and 1B, the results are somewhat variable but the 2014 results are within the range of values detected in prior years.

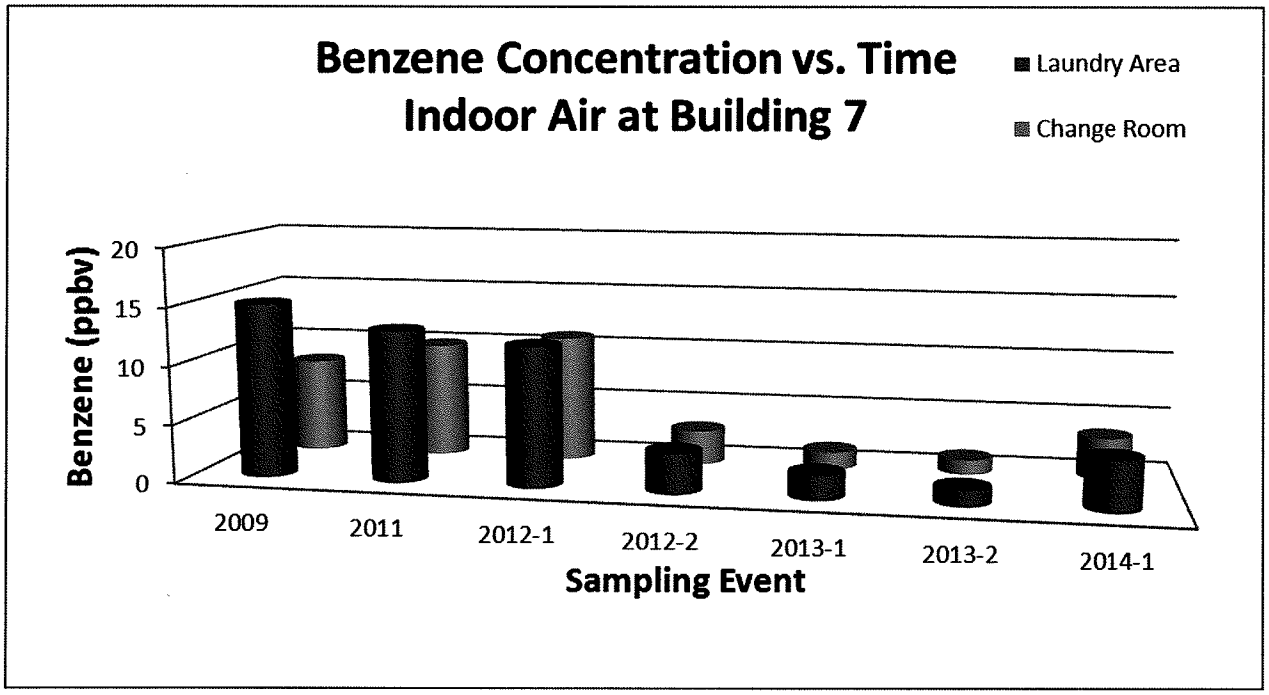
The benzene concentrations versus time for the indoor air at various buildings are presented in the graphs in this section. At Building 6, the maximum concentrations detected in May 2014 are only about 5% of those detected in 2009. There has been a reduction for each of the three locations within Building 6. The shop area has large bay doors that were open during each round

of sampling, so this area has greater ventilation and the measured concentrations generally are much lower than the concentrations measured in the break room and in the office area, both of which are closed and appear to have relatively low rates of ventilation.


Benzene Concentration vs. Time
Indoor Air at Building 1A
Storage area
Break room
Benzene (ppbv)
20
15
10
5
0
2009
2011
2012-1
2012-2
2013-1
2013-2
2014-1
Sampling Event


Benzene Concentration vs. Time
Indoor Air at Building 4
Break room
Benzene (ppbv)
20
15
10
5
0
2009
2011
2012-1
2012-2
2013-1
2013-2
2014-1
Sampling Event


Benzene Concentration vs. Time
Indoor Air at Building 6
Break room
Empty office
Benzene (ppbv)
70
60
50
40
30
20
10
0
2009
2011
2012-1
2012-2
2013-1
2013-2
2014-1
Sampling Event


Benzene Concentration vs. Time
Indoor Air at Building 7
Laundry Area
Change Room
Benzene (ppbv)
20
15
10
5
0
2009
2011
2012-1
2012-2
2013-1
2013-2
2014-1
Sampling Event

4.0 REFERENCES

U.S. Environmental Protection Agency (EPA), May 20, 2011. Approval Letter with modification of the LNAPL Removal System Upgrade Work Plan (URS, April 2011).

EPA, September 2002. Administrative Order on Consent. U.S. EPA Docket No. Resource Conservation and Recovery Act (RCRA)-VI-7003-01-01. September 6.

Texas Commission on Environmental Quality (TCEQ), September 2003. Amended Agreed Final Judgment, No. 92-17287.

TCEQ, January 2003. Joint Supplement to the Agreed Final Order, No. 92-17287. January 23.

TCEQ, April 1998. Agreed Final Judgment, No. 92-17287.

URS Corporation (URS), April 2011. LNAPL Removal System Upgrade Work Plan. El Paso Merchant Energy-Petroleum Company, Elementis Chromium, L.P. Site, Corpus Christi, Texas.

URS, February 2010a. Facility Investigation Report. El Paso Merchant Energy-Petroleum Company, Elementis Chromium, L.P. Site, Corpus Christi, Texas. February 8.

URS, February 2010b. Corrective Measure Study. El Paso Merchant Energy-Petroleum Company, Elementis Chromium, L.P. Site, Corpus Christi, Texas. February 8.

URS, April 2009. Facility Investigation/Corrective Measures Study Sampling and Analysis Plan. El Paso Merchant Energy-Petroleum Company, Elementis Chromium, L.P. Site, Corpus Christi, Texas. April 29.

Tables

Table 1. Monitoring Results for May 16, 2014 Sampling Event

Building	Sample ID	Location	Concentration (ppbv)					Comment
			Benzene	Toluene	Ethylbenzene	m-/p-Xylene	o-Xylene	
Indoor Air Samples								
1A – Chromic Oxide Storeroom & Offices	IA-1	Break room	6.2	0.91	0.28 J	0.93	0.30 J	
	IA-2	Storage area	1.9	1.1	0.24 J	0.83	0.25 J	
	IA-2 D	Storage area	1.4	1.2	0.27 J	0.94	0.27 J	Duplicate
1B – Maintenance Shop	IB-1	Break room	0.84	1.1	0.29 J	1.1	0.41	
4 – Chromic Oxide Control Room & Lab	4-1	Control room	0.61	0.44	0.13 J	0.31 J	0.092 J	
	4-2	Lab	<12	430	43 J	68 J	25 J	
6 – Contractor Maintenance Shops & Offices	6-1	Break room	Anomalous results excluded from evaluation*					
	6-1D	Break room	2.5	0.82	0.12 J	0.48 J	0.15 J	
	6-2	Shop area	1.3	0.75	0.17 J	0.67 J	0.23 J	
	6-3	Empty office	1.9	0.81	0.14 J	0.53 J	0.18 J	
7 – Laundry & Change House	7-1	Laundry room	4.3	0.84	0.12 J	0.47 J	0.16 J	
	7-2	Change room	3.6	0.84	0.13 J	0.51 J	0.18 J	
Upwind Ambient Air Samples								
1A & 1B	Upwind AA-3	Outdoors	0.89	0.83	0.25 J	0.88	0.25 J	
6 & 7	Upwind AA-1	Outdoors	1.0	0.66	0.11 J	0.42 J	0.14 J	

* Sample 6-1 results were excluded from the evaluation due to secondary source that biased the sample results (see Section 3.0). Analytical results reported in laboratory report (Appendix A).
ID - Identification.
J - Analyte was detected, but value is estimated.
ppbv - Parts per billion by volume.

Table 2. Monitoring Results Versus Time

Building	Sample Location ID	Location	Sampling Date	Concentration (ppbv)	
				Benzene	Toluene
1A – Chromic Oxide Storeroom & Offices	IA-1	Break room	7-23-2009	8.8	0.95
			11-30-2011	13	1.2
			6-29-2012	16	0.83
			11-16-2012	10.3	<2
			5-16-2013	10	0.61
			11-13-2013	5.76	0.678
			5-16-2014	6.2	0.91
	IA-2	Storage area	7-23-2009	4.1	1.4
			11-30-2011	5.8	0.59
			6-29-2012	5.4	0.79
			11-16-2012	2.3	<2
			5-16-2013	4.9	0.59
			11-13-2013	0.849	0.636
			5-16-2014	1.9	1.1
1B – Maintenance Shop	IB-1	Break room	7-23-2009	2.1	1.1
			11-30-2011	2.2	1.4
			6-29-2012	<0.30	<0.40
			11-16-2012	<2	3.2
			5-16-2013	1.0	0.60
			11-13-2013	0.436	0.615
			5-16-2014	0.84	1.1
4 – Chromic Oxide Control Room & Lab	4-1	Control room	7-23-2009	8.6	0.73
			11-30-2011	5.5	1.1
			6-29-2012	0.98	0.52
			11-16-2012	2.8	<2
			5-16-2013	0.86	0.59
			11-13-2013	0.533	1.02
			5-16-2014	0.61	0.44
	4-2	Lab	7-23-2009	0.78	0.81
			11-30-2011	1.1	1.8
			6-29-2012	<3.2	<4.3
			11-16-2012	<2	<2
			5-16-2013	0.85	0.53
			11-13-2013	0.489	0.573
			5-16-2014	<12	430
6 – Contractor Maintenance Shops & Offices	6-1	Break room	7-23-2009	69	1.2
			9-17-2009	62	24
			11-30-2011	38	1.8
			6-29-2012	13	0.75
			11-16-2012	12.6	<2
			5-16-2013	3.7	1.4
			11-13-2013	3.17	1.39
			5-16-2014	2.5	0.82

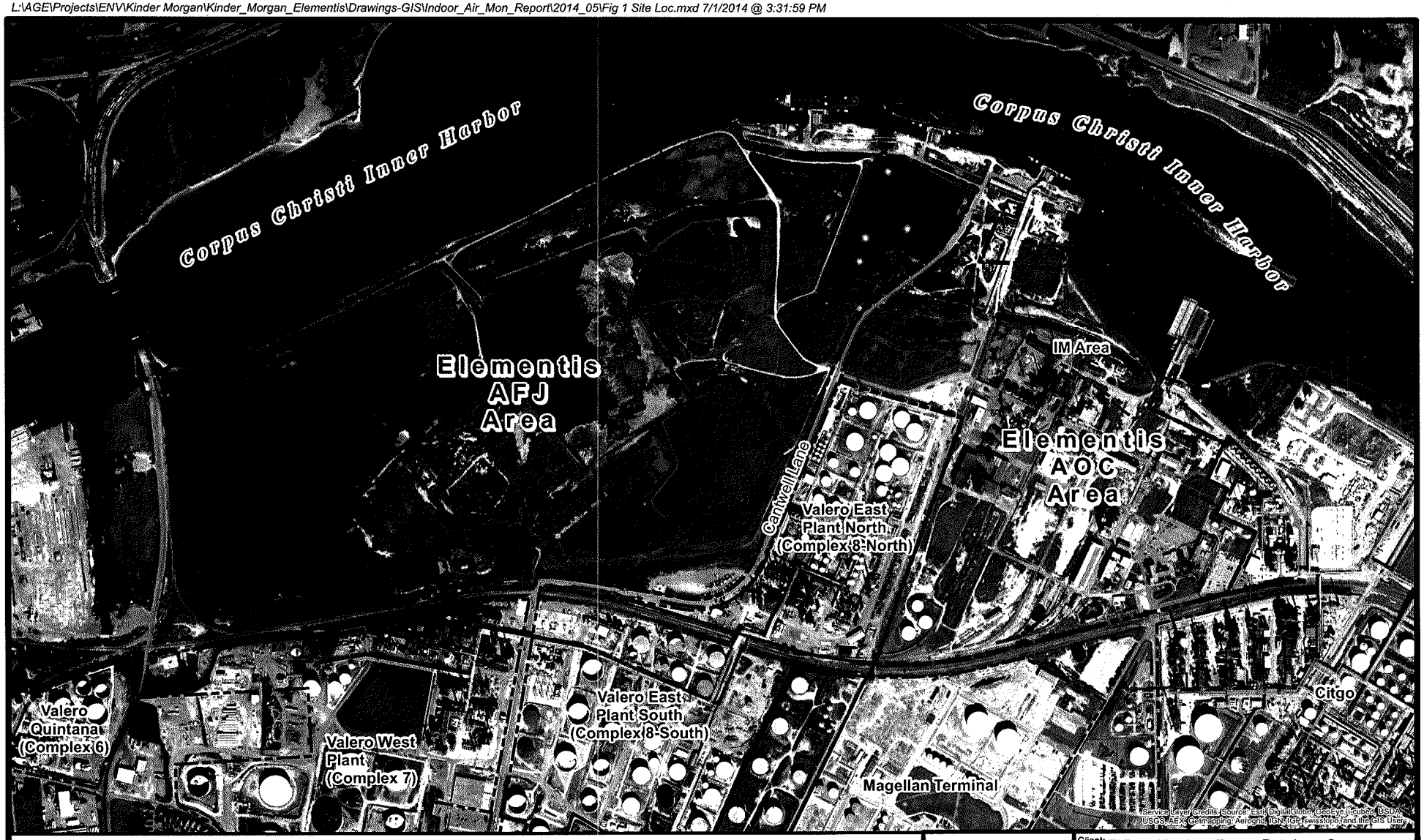
Table 2. Monitoring Results Versus Time (Continued)

Building	Sample Location ID	Location	Sampling Date	Concentration (ppbv)	
				Benzene	Toluene
6 – Contractor Maintenance Shops & Offices	6-2	Shop area	7-23-2009	2.9	3.6
			11-30-2011	8.6	1.9
			6-29-2012	3.1	1.1
			11-16-2012	3.8	2.4
			5-16-2013	0.88	4.5
			11-13-2013	1.57	3.84
			5-16-2014	1.3	0.75
	6-3	Empty office	9-17-2009	44	2.3
			11-30-2011	52	2.0
			6-29-2012	11	1.4
			11-16-2012	3.6	2.2
			5-16-2013	2.1	2.1
			11-13-2013	1.75	2.48
			5-16-2014	1.9	0.81
7 – Laundry Changehouse	7-1	Laundry room	7-23-2009	15	1.1
			11-30-2011	13	0.80
			6-29-2012	12	0.55
			11-16-2012	3.4	<2
			5-16-2013	2.1	1.0
			11-13-2013	1.37	0.600
			5-16-2014	4.3	0.84
	7-2	Change room	7-23-2009	8.2	0.93
			11-30-2011	10	0.80
			6-29-2012	11	0.45
			11-16-2012	3.0	<2
			5-16-2013	1.5	0.75
			11-13-2013	1.26	0.437
			5-16-2014	3.6	0.84
Ambient Air	Upwind AA-3	Buildings 1A and 1B	7-23-2009	0.78	0.74
			11-30-2011	3.6	0.29
			6-29-2012	1.3	0.54
			11-16-2012	2.4	<2
			5-16-2013	5.8	0.61
			11-13-2013	0.717	0.604
			5-16-2014	0.89	0.83
	Upwind AA-1	Buildings 6 and 7	7-23-2009	0.95	1.0
			9-17-2009	1.8	0.87
			11-30-2011	11	0.82
			6-29-2012	2.9	0.43
			11-16-2012	2.8	<2
			5-16-2013	26	0.72
			11-13-2013	1.76	0.523
			5-16-2014	1.0	0.66

ID - Identification.
ppbv - Parts per billion by volume.

Figures

L:\AGE\Projects\ENV\Kinder Morgan\Kinder_Morgan_Elementis\Drawings-GIS\Indoor_Air_Mon_Report\2014_05\Fig 1 Site Loc.mxd 7/1/2014 @ 3:31:59 PM



Legend

- Elementis Property Boundary
- IM Area
- Adjacent Property Boundary

Notes:
AFJ - Agreed Final Judgement (TCEQ).
AOC - Administrative Order on Consent (EPA).

N

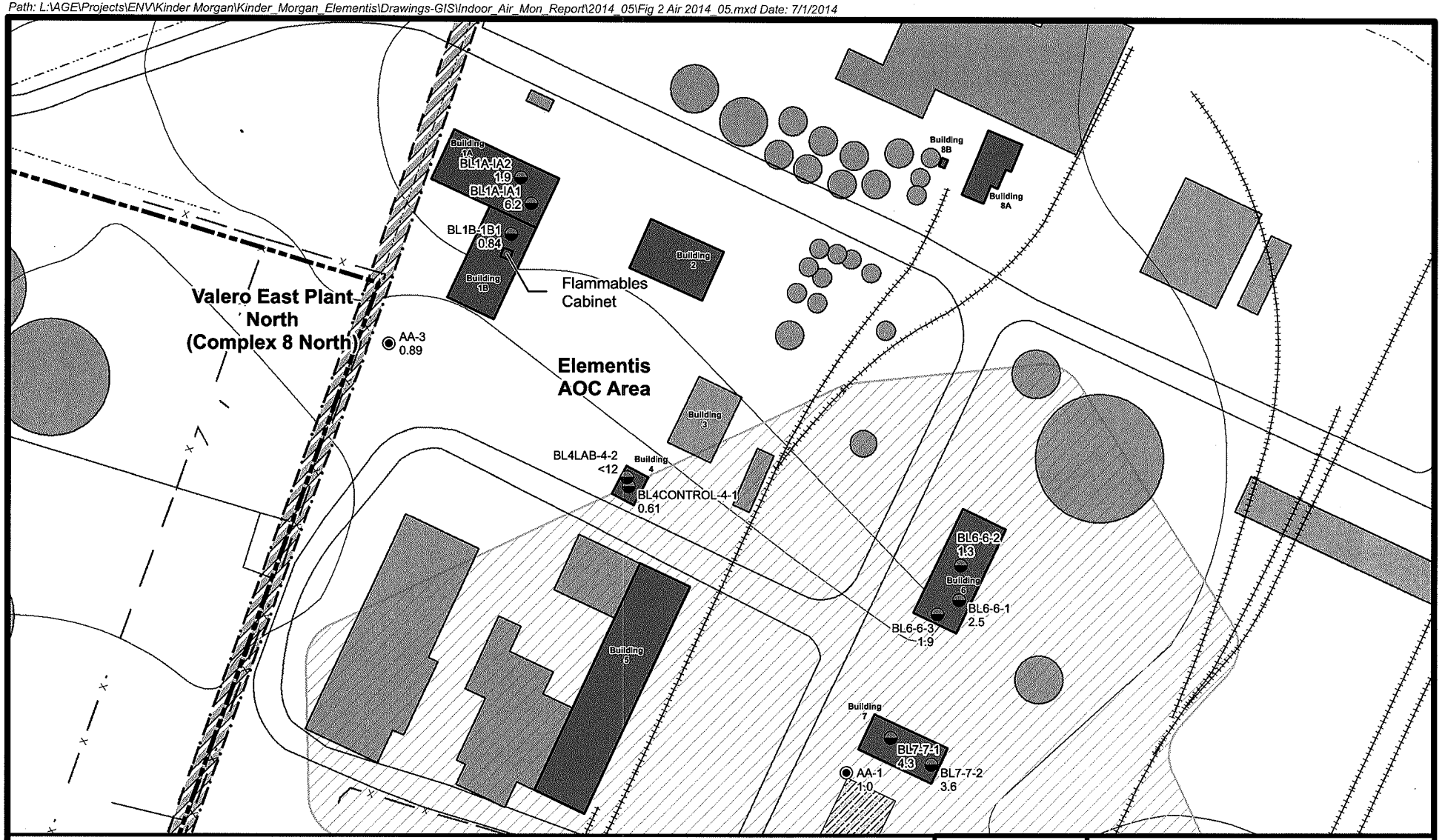
1,000 500 0 1,000
Feet

URS
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 419-5474

Client:	El Paso Merchant Energy-Petroleum Company Elementis Site-Corpus Christi, Texas
Report:	Indoor Air Monitoring Report
Title:	**Site Location Map**

Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	7/1/2014	Fig 1 Site Loc.mxd	1

Path: L:\AGE\Projects\ENV\Kinder Morgan\Kinder_Morgan_Elementis\Drawings-GIS\Indoor_Air_Mon_Report\2014_05\Fig 2 Air 2014_05.mxd Date: 7/1/2014



Legend

- Elementis Property Boundary
- Occupied Building
- Approximate Extent of LNAPL (October 2013)
- Approximate Location of Pipeline Corridor
- Estimated Extent of SVE System Influence
- Vapor Treatment System
- Ambient Air Sample Location
- Indoor Air Sample Location

N

150 75 0 150
Feet

URS
9400 Amberglen Blvd.
Austin, TX 78729
Phone: (512) 454-4797
Fax: (512) 419-5474

Client: El Paso Merchant Energy - Petroleum Company
Elementis Site - Corpus Christi, Texas

Report: Indoor Air Monitoring Report

Indoor Air and Ambient Air Sample Results - Benzene (May 16, 2014)

Drawn by:	Date:	GIS File:	Figure:
GWC/AUS	7/1/2014	Fig 2 Air 2014_05	2

Appendix A

Analytical Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Tel: (361)289-2673

TestAmerica Job ID: 560-47500-1
TestAmerica Sample Delivery Group: May 2014
Client Project/Site: Elementis Indoor Air Analysis

For:
URS Corporation
PO BOX 201088
Austin, Texas 78720-1088

Attn: Ms. Jean Youngerman

Authorized for release by:
5/30/2014 4:03:31 PM

Timothy Kellogg, Lab Director
(361)289-2673
tim.kellogg@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Case Narrative

Client: URS Corporation
Project/Site: Elementis Indoor Air Analysis

TestAmerica Job ID: 560-47500-1
SDG: May 2014

Job ID: 560-47500-1

Laboratory: TestAmerica Corpus Christi

Narrative

Receipt
The samples were received on 5/16/2014 2:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA
Method(s) TO-15: The following sample(s) was diluted due to the abundance of non-target analytes: 4-2 Lab (560-47500-6). Elevated reporting limits (RLs) are provided.

Method(s) TO-15: The following sample(s) was diluted due to the abundance of non-target analytes: 6-1 Breakroom (560-47500-7). Elevated reporting limits (RLs) are provided. No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: URS Corporation
Project/Site: Elementis Indoor Air Analysis

TestAmerica Job ID: 560-47500-1
SDG: May 2014

4

Client Sample ID: 6-1 Breakroom — Lab Sample ID: 560-47500-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	320	J	760	120	ppb v/v	1900		TO-15	Total/NA
Toluene	3500		760	97	ppb v/v	1900		TO-15	Total/NA
m,p-Xylene	640	J	1500	190	ppb v/v	1900		TO-15	Total/NA
o-Xylene	250	J	760	100	ppb v/v	1900		TO-15	Total/NA

Client Sample ID: 6-1 Dup — Lab Sample ID: 560-47500-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.5		0.40	0.079	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.12	J	0.40	0.063	ppb v/v	1		TO-15	Total/NA
Toluene	0.82		0.40	0.051	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.48	J	0.80	0.10	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.15	J	0.40	0.054	ppb v/v	1		TO-15	Total/NA

Client Sample ID: 6-2 Warehouse — Lab Sample ID: 560-47500-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3		0.40	0.079	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.17	J	0.40	0.063	ppb v/v	1		TO-15	Total/NA
Toluene	0.75		0.40	0.051	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.67	J	0.80	0.10	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.23	J	0.40	0.054	ppb v/v	1		TO-15	Total/NA

Client Sample ID: 6-3 Office — Lab Sample ID: 560-47500-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.9		0.40	0.079	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.14	J	0.40	0.063	ppb v/v	1		TO-15	Total/NA
Toluene	0.81		0.40	0.051	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.53	J	0.80	0.10	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.18	J	0.40	0.054	ppb v/v	1		TO-15	Total/NA

Client Sample ID: 7-1 Laundry — Lab Sample ID: 560-47500-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.3		0.40	0.079	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.12	J	0.40	0.063	ppb v/v	1		TO-15	Total/NA
Toluene	0.84		0.40	0.051	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.47	J	0.80	0.10	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.16	J	0.40	0.054	ppb v/v	1		TO-15	Total/NA

Client Sample ID: 7-2 Change room — Lab Sample ID: 560-47500-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.6		0.40	0.079	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.13	J	0.40	0.063	ppb v/v	1		TO-15	Total/NA
Toluene	0.84		0.40	0.051	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.51	J	0.80	0.10	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.18	J	0.40	0.054	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

5

Client Sample ID: 1A-1 Breakroom

Lab Sample ID: 560-47500-1

Date Collected: 05/16/14 13:06
Date Received: 05/16/14 14:15
Sample Container: Summa Canister 6L

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.2		0.40	0.079	ppb v/v			05/28/14 03:21	1
Ethylbenzene	0.28	J	0.40	0.063	ppb v/v			05/28/14 03:21	1
Toluene	0.91		0.40	0.051	ppb v/v			05/28/14 03:21	1
m,p-Xylene	0.93		0.80	0.10	ppb v/v			05/28/14 03:21	1
o-Xylene	0.30	J	0.40	0.054	ppb v/v			05/28/14 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*05/28/14 03:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*05/28/14 03:21*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*05/28/14 03:21*	*1*

Client Sample ID: 1A-2 Warehouse

Lab Sample ID: 560-47500-2

Date Collected: 05/16/14 13:06
Date Received: 05/16/14 14:15
Sample Container: Summa Canister 6L

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.9		0.40	0.079	ppb v/v			05/28/14 04:14	1
Ethylbenzene	0.24	J	0.40	0.063	ppb v/v			05/28/14 04:14	1
Toluene	1.1		0.40	0.051	ppb v/v			05/28/14 04:14	1
m,p-Xylene	0.83		0.80	0.10	ppb v/v			05/28/14 04:14	1
o-Xylene	0.25	J	0.40	0.054	ppb v/v			05/28/14 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*05/28/14 04:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*05/28/14 04:14*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/28/14 04:14*	*1*

Client Sample ID: 1A-2 Dup

Lab Sample ID: 560-47500-3

Date Collected: 05/16/14 13:06
Date Received: 05/16/14 14:15
Sample Container: Summa Canister 6L

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.4		0.40	0.079	ppb v/v			05/28/14 05:10	1
Ethylbenzene	0.27	J	0.40	0.063	ppb v/v			05/28/14 05:10	1
Toluene	1.2		0.40	0.051	ppb v/v			05/28/14 05:10	1
m,p-Xylene	0.94		0.80	0.10	ppb v/v			05/28/14 05:10	1
o-Xylene	0.27	J	0.40	0.054	ppb v/v			05/28/14 05:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*05/28/14 05:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*05/28/14 05:10*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/28/14 05:10*	*1*

Client Sample ID: 6-1 Breakroom

Lab Sample ID: 560-47500-7

Date Collected: 05/16/14 13:19
Date Received: 05/16/14 14:15
Sample Container: Summa Canister 6L

Matrix: Air

5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<150		760	150	ppb v/v			05/28/14 21:15	1900
Ethylbenzene	320	J	760	120	ppb v/v			05/28/14 21:15	1900
Toluene	3500		760	97	ppb v/v			05/28/14 21:15	1900
m,p-Xylene	640	J	1500	190	ppb v/v			05/28/14 21:15	1900
o-Xylene	250	J	760	100	ppb v/v			05/28/14 21:15	1900

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*05/28/14 21:15*	*1900*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*05/28/14 21:15*	*1900*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/28/14 21:15*	*1900*

Client Sample ID: 6-1 Dup

Lab Sample ID: 560-47500-8

Date Collected: 05/16/14 13:19
Date Received: 05/16/14 14:15
Sample Container: Summa Canister 6L

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.5		0.40	0.079	ppb v/v			05/28/14 22:08	1
Ethylbenzene	0.12	J	0.40	0.063	ppb v/v			05/28/14 22:08	1
Toluene	0.82		0.40	0.051	ppb v/v			05/28/14 22:08	1
m,p-Xylene	0.48	J	0.80	0.10	ppb v/v			05/28/14 22:08	1
o-Xylene	0.15	J	0.40	0.054	ppb v/v			05/28/14 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*05/28/14 22:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*05/28/14 22:08*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/28/14 22:08*	*1*

Client Sample ID: 6-2 Warehouse

Lab Sample ID: 560-47500-9

Date Collected: 05/16/14 13:21
Date Received: 05/16/14 14:15
Sample Container: Summa Canister 6L

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.3		0.40	0.079	ppb v/v			05/29/14 10:20	1
Ethylbenzene	0.17	J	0.40	0.063	ppb v/v			05/29/14 10:20	1
Toluene	0.75		0.40	0.051	ppb v/v			05/29/14 10:20	1
m,p-Xylene	0.67	J	0.80	0.10	ppb v/v			05/29/14 10:20	1
o-Xylene	0.23	J	0.40	0.054	ppb v/v			05/29/14 10:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*05/29/14 10:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*05/29/14 10:20*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/29/14 10:20*	*1*

Client Sample Results

Client: URS Corporation
Project/Site: Elementis Indoor Air Analysis

TestAmerica Job ID: 560-47500-1
SDG: May 2014

5

Client Sample ID: AA-1 Upwind of 6/7

Lab Sample ID: 560-47500-13

Date Collected: 05/16/14 13:28
Date Received: 05/16/14 14:15
Sample Container: Summa Canister 6L

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0		0.40	0.079	ppb v/v			05/29/14 02:31	1
Ethylbenzene	0.11	J	0.40	0.063	ppb v/v			05/29/14 02:31	1
Toluene	0.66		0.40	0.051	ppb v/v			05/29/14 02:31	1
m,p-Xylene	0.42	J	0.80	0.10	ppb v/v			05/29/14 02:31	1
o-Xylene	0.14	J	0.40	0.054	ppb v/v			05/29/14 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*05/29/14 02:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*05/29/14 02:31*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/29/14 02:31*	*1*

Client Sample ID: AA-3 Upwind of 1

Lab Sample ID: 560-47500-14

Date Collected: 05/16/14 13:10
Date Received: 05/16/14 14:15
Sample Container: Summa Canister 6L

Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.89		0.40	0.079	ppb v/v			05/29/14 03:24	1
Ethylbenzene	0.25	J	0.40	0.063	ppb v/v			05/29/14 03:24	1
Toluene	0.83		0.40	0.051	ppb v/v			05/29/14 03:24	1
m,p-Xylene	0.88		0.80	0.10	ppb v/v			05/29/14 03:24	1
o-Xylene	0.25	J	0.40	0.054	ppb v/v			05/29/14 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*05/29/14 03:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*05/29/14 03:24*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/29/14 03:24*	*1*

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

Lab Sample ID: LCS 320-43338/5
Matrix: Air
Analysis Batch: 43338

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	18.7		ppb v/v		93	70 - 130
Ethylbenzene	20.0	19.4		ppb v/v		97	70 - 130
Toluene	20.0	18.4		ppb v/v		92	70 - 130
m,p-Xylene	40.0	38.8		ppb v/v		97	70 - 130
o-Xylene	20.0	19.2		ppb v/v		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Chronicle

Client: URS Corporation
Project/Site: Elementis Indoor Air Analysis

TestAmerica Job ID: 560-47500-1
SDG: May 2014

Client Sample ID: 1A-1 Breakroom

Lab Sample ID: 560-47500-1
Date Collected: 05/16/14 13:06
Matrix: Air
Date Received: 05/16/14 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	43248	05/28/14 03:21	TAD	TAL SAC

Client Sample ID: 1A-2 Warehouse

Lab Sample ID: 560-47500-2
Date Collected: 05/16/14 13:06
Matrix: Air
Date Received: 05/16/14 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	43248	05/28/14 04:14	TAD	TAL SAC

Client Sample ID: 1A-2 Dup

Lab Sample ID: 560-47500-3
Date Collected: 05/16/14 13:06
Matrix: Air
Date Received: 05/16/14 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	43248	05/28/14 05:10	TAD	TAL SAC

Client Sample ID: 1B-1 Breakroom

Lab Sample ID: 560-47500-4
Date Collected: 05/16/14 13:09
Matrix: Air
Date Received: 05/16/14 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	43248	05/28/14 06:03	TAD	TAL SAC

Client Sample ID: 4-1 Breakroom

Lab Sample ID: 560-47500-5
Date Collected: 05/16/14 13:14
Matrix: Air
Date Received: 05/16/14 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	43248	05/28/14 06:56	TAD	TAL SAC

Client Sample ID: 4-2 Lab

Lab Sample ID: 560-47500-6
Date Collected: 05/16/14 13:15
Matrix: Air
Date Received: 05/16/14 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		158	43248	05/28/14 07:45	TAD	TAL SAC

Lab Chronicle

Client: URS Corporation
Project/Site: Elementis Indoor Air Analysis

TestAmerica Job ID: 560-47500-1
SDG: May 2014

Client Sample ID: AA-1 Upwind of 6/7

Lab Sample ID: 560-47500-13

Date Collected: 05/16/14 13:28
Date Received: 05/16/14 14:15

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	43338	05/29/14 02:31	TAD	TAL SAC

Client Sample ID: AA-3 Upwind of 1

Lab Sample ID: 560-47500-14

Date Collected: 05/16/14 13:10
Date Received: 05/16/14 14:15

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	43338	05/29/14 03:24	TAD	TAL SAC

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Method Summary

Client: URS Corporation
Project/Site: Elementis Indoor Air Analysis

TestAmerica Job ID: 560-47500-1
SDG: May 2014

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

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TestAmerica Sacramento
880 Riverside Parkway

West Sacramento, CA 95605
phone 916.374.4378 fax 916.372.1059

Canister Samples Chain of Custody Record

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

TestAr
THE LEADER IN ENV

TestAmerica Laboratories, Inc.

Client Contact Information		Project Manager: Kim High	Samples Collected By: BMC	COC No:
Company Name: URS		Phone: 512 454 4797		1 of 2 COCs
Address: PO Box 201088		Email: barteklund@urs.com		
City/State/Zip Austin, TX 78720				For Lab Use Only:
Phone: 512 419-5436		Site Contact: Bart Eklund		Walk-in Client:
FAX:		TA Contact:		Lab Sampling:
Project Name: Elementis		Anaylsis Turnaround Time		
Site/Location: Corpus Christi		Standard (Specific): X		Job / SDG No.:
PO #		Rush (Specifiy):		(See below for Add'l Items)

47500

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 (Med / Std / Low / SIM)	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
1A-1 Break Room	5/16	0456	1306	-29	-1½	7651	-1590	X									X					
1A-2 Warehouse		0457	1306	-28½	-3½	7640	-0090	X									X					
1A-2 Dup		0807	1306	-28½	-12½	7281	-1404	X									X					
1B-1 Break room		0502	1309	-29	-3½	7190	-0364	X									X					
4-1 Break room		0510	1314	-28½	-3	7370	-0895	X									X					
4-2 Lab		0511	1315	-28½	-3	7296	-1214	X									X					
6-1 Break room		0516	1319	-28½	-3	7189	-2026	X									X					
6-1 Dup		0516	1319	-28½	-3	7995	-0614	X									X					
6-2 Warehouse		0519	1321	-28½	-2½	7297	-0717	X									X					
6-3 Office		0519	1321	-28½	-3	7626	-1309	X									X					

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

560-47500 Chain of Custody

Special Instructions/QC Requirements & Comments:
See PO for target analyte list (BTEX only)

Samples Shipped by: BMC	Date / Time: 5/16/14 1415	Samples Received by: [illegible]
Samples Relinquished by:	Date / Time:	Received by:
Relinquished by:	Date / Time:	Received by:
Lab Use Only: Shipper Name:	Opened by:	Condition:

Form No. CA-C-WI-003, Rev. 1, dated 05/10/2013

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 560-47500-1
SDG Number: May 2014

Login Number: 47500
List Number: 2
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento
List Creation: 05/20/14 02:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
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?	N/A	
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 560-47500

e # 1

Client/Project:		VFR ID:		
Canister Serial #:	34001590	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	13.85	05/21/14	EP
FI RESSURE (PSIA)	24.93	05/21/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.80			

CANISTER REPRESSURIZATION					
Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.80		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

Date	Instr.	File #
5/27/2014	MS2	

Canister DF = 1.80 X Load DF = 0.5555556 (LVf (mLs) 250, LVi (mLs) 450) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF 1

Date	Instr.	File #

Canister DF = 1.80 X Load DF = #DIV/0! (LVf (mLs), LVi (mLs)) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF #DIV/0!

Date	Instr.	File #

Canister DF = 1.80 X Load DF = #DIV/0! (LVf (mLs), LVi (mLs)) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF #DIV/0!

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 560-47500
le # 3

Client/Project:		VFR ID:		
Canister Serial #:	34001404	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	8.06	05/21/14	EP
FI RESSURE (PSIA)	23.66	05/21/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.94			

CANISTER REPRESSURIZATION					
Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.94		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

Date	Instr.	File #
5/27/2014	MS2	

Canister DF = 2.94 X Load DF = 0.3410641 (LVf (mLs) 250, LVi (mLs) 733) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF 1.001188223

Date	Instr.	File #

Canister DF = 2.94 X Load DF = #DIV/0! (LVf (mLs), LVi (mLs)) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF #DIV/0!

Date	Instr.	File #

Canister DF = 2.94 X Load DF = #DIV/0! (LVf (mLs), LVi (mLs)) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF #DIV/0!

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 560-47500

e # 5

Client/Project:		VFR ID:		
Canister Serial #:	34000895	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	13.10	05/21/14	EP
FI RESSURE (PSIA)	25.20	05/21/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.92			

CANISTER REPRESSURIZATION					
Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.92		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

Date	Instr.	File #
5/27/2014	MS2	

Canister DF = 1.92 X Load DF = 0.5208333 (LVf (mLs) 250, LVi (mLs) 480) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF 1.001908397

Date	Instr.	File #

Canister DF = 1.92 X Load DF = #DIV/0! (LVf (mLs), LVi (mLs)) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF #DIV/0!

Date	Instr.	File #

Canister DF = 1.92 X Load DF = #DIV/0! (LVf (mLs), LVi (mLs)) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF #DIV/0!

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 560-47500
Canister # 7

Client/Project:		VFR ID:		
Canister Serial #:	34002026	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	13.14	05/21/14	EP
FINAL PRESSURE (PSIA)	24.94	05/21/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.90			

CANISTER REPRESSURIZATION					
Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.90		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

Canister DF	X	Load DF	X	Bag DF	Date	Instr.	File #	=	FINAL DF
1.90	X	2 (LVf (mLs) 250, LVi (mLs) 125)	X	500 (BVf (mLs) 1000, Bvi (mLs) 2)	5/28/2014	MS2		=	1898.021309
1.90	X	#DIV/0!	X	1				=	#DIV/0!
1.90	X	#DIV/0!	X	1				=	#DIV/0!

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 560-47500

Canister # 9

Client/Project:		VFR ID:		
Canister Serial #:	34000717	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	13.23	05/21/14	EP
FINAL PRESSURE (PSIA)	25.02	05/21/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.89			

CANISTER REPRESSURIZATION					
Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.89		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

Date	Instr.	File #
5/28/2014	MS2	

Canister DF = 1.89 X Load DF = 2 (LVf (mLs) 250, LVi (mLs) 125) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF 3.782312925

Date	Instr.	File #
5/28/2014	MS2	

Canister DF = 1.89 X Load DF = 0.529661 (LVf (mLs) 250, LVi (mLs) 472) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF 1.001671855

Date	Instr.	File #

Canister DF = 1.89 X Load DF = #DIV/0! (LVf (mLs), LVi (mLs)) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF #DIV/0!

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 560-47500

e # 11

Client/Project:		VFR ID:		
Canister Serial #:	34000588	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.61	05/21/14	EP
FI RESSURE (PSIA)	24.79	05/21/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.97			

CANISTER REPRESSURIZATION					
Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.97		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

Date	Instr.	File #
5/28/2014	MS2	

Canister DF = 1.97 X Load DF = 0.509165 (LVf (mLs) 250, LVi (mLs) 491) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF 1.000967454

Date	Instr.	File #

Canister DF = 1.97 X Load DF = #DIV/0! (LVf (mLs), LVi (mLs)) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF #DIV/0!

Date	Instr.	File #

Canister DF = 1.97 X Load DF = #DIV/0! (LVf (mLs), LVi (mLs)) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF #DIV/0!

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 560-47500
le # 13

Client/Project:		VFR ID:		
Canister Serial #:	34001349	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	13.07	05/21/14	EP
FI RESSURE (PSIA)	25.18	05/21/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.93			

CANISTER REPRESSURIZATION					
Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.93		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

Date	Instr.	File #
5/28/2014	MS2	

Canister DF = 1.93 X Load DF = 0.5197505 (LVf (mLs) 250, LVi (mLs) 481) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF 1.001325026

Date	Instr.	File #

Canister DF = 1.93 X Load DF = #DIV/0! (LVf (mLs), LVi (mLs)) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF #DIV/0!

Date	Instr.	File #

Canister DF = 1.93 X Load DF = #DIV/0! (LVf (mLs), LVi (mLs)) X Bag DF = 1 (BVf (mLs), Bvi (mLs)) = FINAL DF #DIV/0!

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Canister QC Certification
Individual Certification

320-6061 Chain of Custody

Certification Type: TO-15

Date Cleaned/Batch ID: 02/7/14 320-6061

Date of QC: 02/11/14

Canister ID	Filename	Canister ID	Filename
34000500	MS5021105 ✓		
1390	MS5021106 /		
0458	——— /		
0013	MS5021108 /		
0364	MS5021109 /		
0381	MS5021110 /		
0132	MS5021111 /		
0927	MS5021112 /		
1283	MS5021113 /		
2021	MS5021114 /		
0790	MS5021115 /		
1127	MS5021116 /		

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

1st level Reviewed By: [signature] Date: 02/12/14

2nd level Reviewed By: [signature] Date: 2/14/14

Q:\FORMS\QA-821 IND CAN QC 20130729.DOC
QA-821

ERS 7/29/2013

320-7169 Chain of Custody

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sacramento

Canister QC Certification

Certification Type: TO15 SCAN

Date Cleaned/Batch ID: 4/23/14 320-7169

Date of QC: 4/24/14

Data File Number: MS7 042106

CANISTER ID NUMBERS

34001240	34001408	
0549	1609 *	
1306	0090	
0087		
0425		
0164		
1422		
0155		

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

1st level Reviewed By: _____ Date: 4/25/14

2nd level Reviewed By: _____ Date: 4/25/14

Q:\FORMS\QA-814 CAN QC CERT 20130729.DOC
QA-814

ERS 7/29/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Canister QC Certification

Certification Type: TO-15 SCAN

Date Cleaned/Batch ID: 4/30/14 320-7261

Date of QC: 4/30/14

Data File Number: M5 043006

CANISTER ID NUMBERS

39001961	34001869	
1705	1844	
1989	1805	
1692	1930	
1701		
1919		
1921		
0674 *		

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

1st level Reviewed By: _____ Date: 5/1/14

2nd level Reviewed By: _____ Date: 5/2/14

Q:\FORMS\QA-614 CAN QC CERT 20130729.DOC
QA-614

ERS 7/29/2013

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Canister QC Certification
Individual Certification

Certification Type: TO15 SCAN

Date Cleaned/Batch ID: 5/6/14 320 - 7352

Date of QC: 5/6/14

320-7352 Chain of Custody

Canister ID	Filename	Canister ID	Filename
34000895	M57050609		
34001299	M57050610	Good for MDL	

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

1st level Reviewed By: [signature] Date: 5/7/14

2nd level Reviewed By: [signature] Date: 5/7/14

Q:\FORMS\QA-821 IND CAN QC 20130729.DOC
QA-821

ERS 7/29/2013

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6061-1

SDG No.:

Client Sample ID: 34000500 | Lab Sample ID: 320-6061-1

Matrix: Air | Lab File ID: MS5021105.D

Analysis Method: TO-15 | Date Collected: 02/07/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 20:18

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 36079 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021105.D				
Lims ID:	320-6061-A-1	Lab Sample ID:	320-6061-1		
Client ID:	34000500				
Sample Type:	Client				
Inject. Date:	11-Feb-2014 20:18:30	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-6061-				
Misc. Info.:	500mL; 34000500				
Operator ID:	AO	Instrument ID:	ATMS5		
Method:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\TO15_ATMS5.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	12-Feb-2014 11:00:06	Calib Date:	11-Feb-2014 18:00:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021103.D				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK024				

First Level Reviewer: ortizam Date: 12-Feb-2014 11:00:42

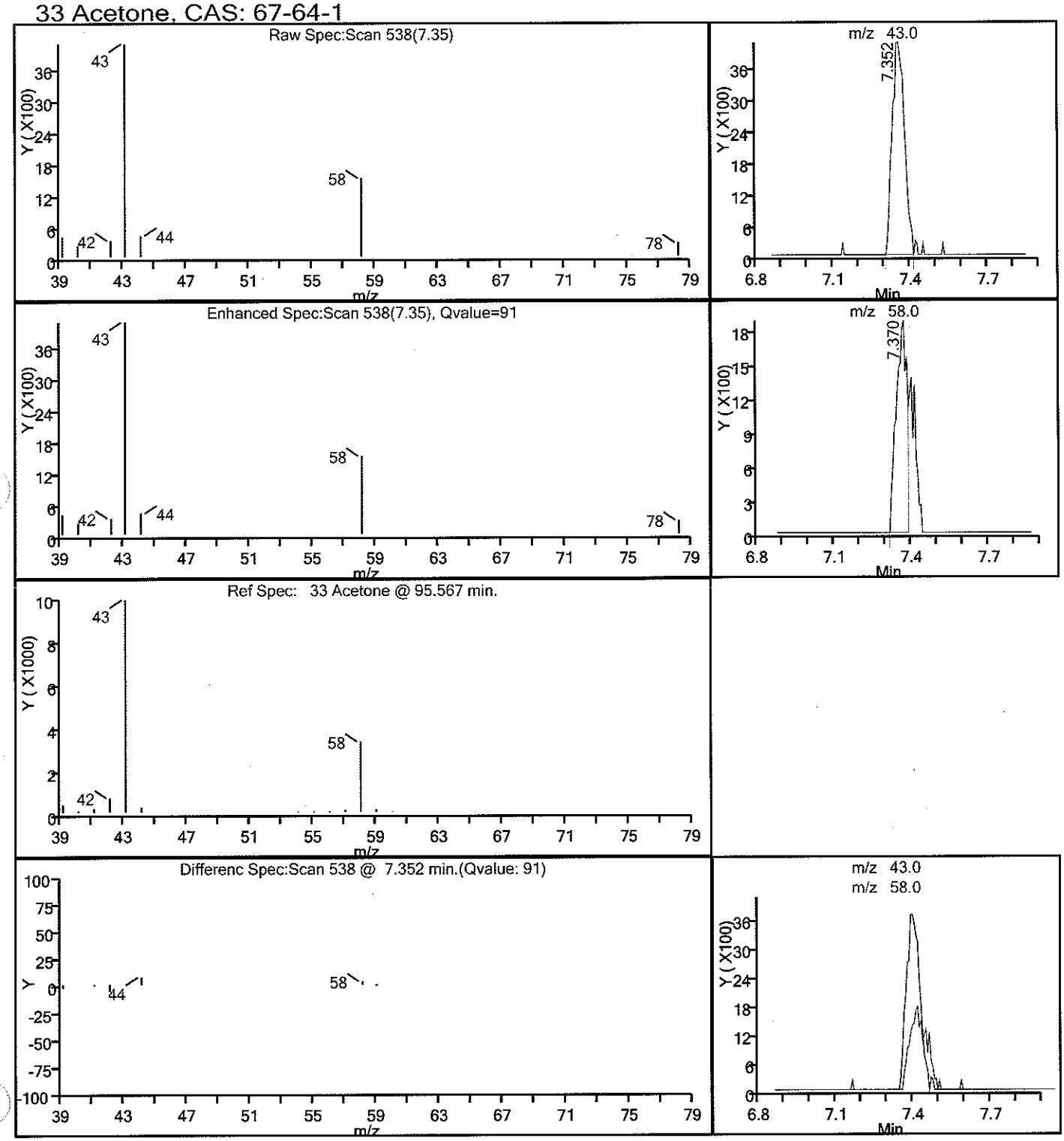
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.166	11.167	0.0	97	50989	3.88	
* 2 1,4-Difluorobenzene	114	12.584	12.584	0.0	93	203314	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.782	16.782	0.0	84	159081	4.00	
4 1,2-Dichloroethane-d4 (Surr)	65	11.969	11.976	-0.007	0	67314	3.99	
$ 5 Toluene-d8 (Surr)	100	14.737	14.744	-0.007	92	129323	3.93	
$ 6 4-Bromofluorobenzene (Surr)	95	18.412	18.412	0.0	87	71367	3.69	
33 Acetone	43	7.352	7.358	-0.006	91	13593	0.4086	

Report Date: 12-Feb-2014 11:00:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021105.D				
Injection Date:	11-Feb-2014 20:18:30	Instrument ID:	ATMS5		
Lims ID:	320-6061-A-1	Lab Sample ID:	320-6061-1		
Client ID:	34000500				
Operator ID:	AO	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6061-1

SDG No.:

Client Sample ID: 34001390 | Lab Sample ID: 320-6061-2

Matrix: Air | Lab File ID: MS5021106.D

Analysis Method: TO-15 | Date Collected: 02/07/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 21:12

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 36079 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

FORM I TO-15

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021106.D				
Lims ID:	320-6061-A-2	Lab Sample ID:	320-6061-2		
Client ID:	34001390				
Sample Type:	Client				
Inject. Date:	11-Feb-2014 21:12:30	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-6061-				
Misc. Info.:	500mL; 34001390				
Operator ID:	AO	Instrument ID:	ATMS5		
Method:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\TO15_ATMS5.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	12-Feb-2014 11:01:00	Calib Date:	11-Feb-2014 18:00:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021103.D				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK024				

First Level Reviewer: ortizam Date: 12-Feb-2014 11:01:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.166	11.167	0.0	92	52265	3.88	
* 2 1,4-Difluorobenzene	114	12.584	12.584	0.0	93	201505	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.782	16.782	0.0	83	157883	4.00	
4 1,2-Dichloroethane-d4 (Surr)	65	11.969	11.976	-0.007	0	64795	3.88	
$ 5 Toluene-d8 (Surr)	100	14.737	14.744	-0.007	93	127634	3.92	
$ 6 4-Bromofluorobenzene (Surr)	95	18.412	18.412	0.0	85	67727	3.53	
33 Acetone	43	7.358	7.358	0.0	68	3741	0.1097	7a

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
a - User Assigned ID

Manual Integration/User Assign Peak Report

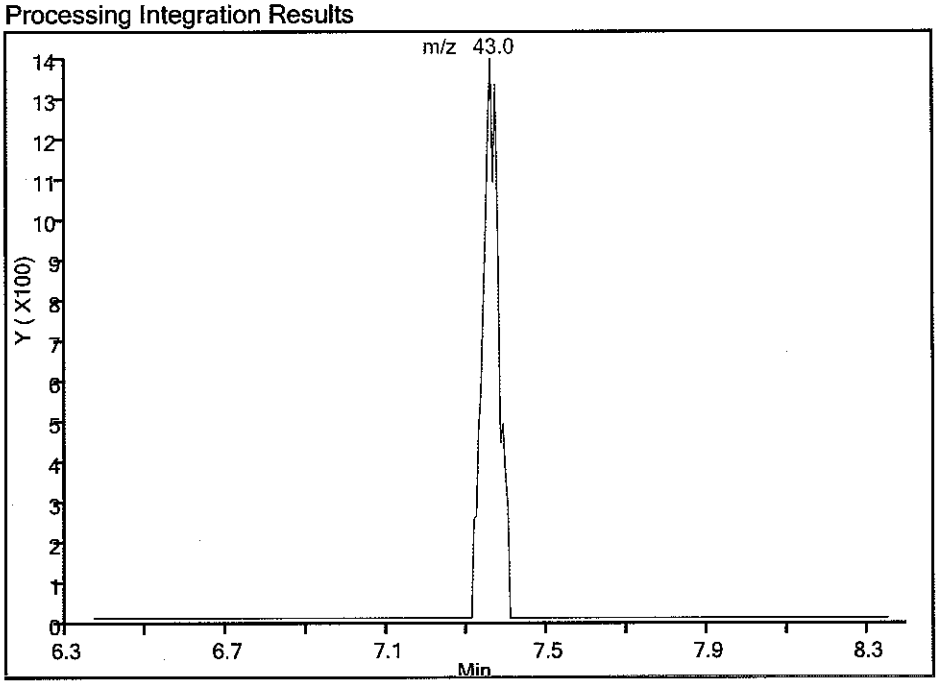
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021106.D				
Injection Date:	11-Feb-2014 21:12:30	Instrument ID:	ATMS5		
Lims ID:	320-6061-A-2	Lab Sample ID:	320-6061-2		
Client ID:	34001390				
Operator ID:	AO	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1

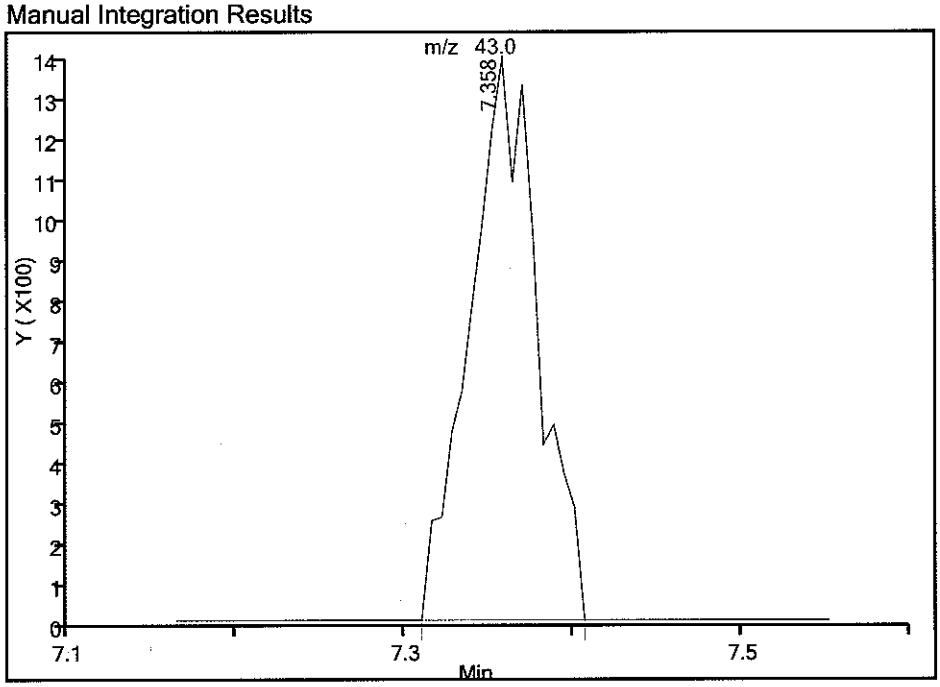
Not Detected
Expected RT: 7.36

Processing Integration Results



RT: 7.36
Response: 3741
Amount: 0.109701

Manual Integration Results



Reviewer: ortizam, 12-Feb-2014 11:01:00
Audit Action: Assigned Compound ID
Audit Reason:

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6061-1

SDG No.:

Client Sample ID: 34000013 | Lab Sample ID: 320-6061-4

Matrix: Air | Lab File ID: MS5021108.D

Analysis Method: TO-15 | Date Collected: 02/07/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 22:56

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 36079 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

FORM I TO-15

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021108.D				
Lims ID:	320-6061-A-4	Lab Sample ID:	320-6061-4		
Client ID:	34000013				
Sample Type:	Client				
Inject. Date:	11-Feb-2014 22:56:30	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-6061-				
Misc. Info.:	500mL; 34000013				
Operator ID:	AO	Instrument ID:	ATMS5		
Method:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\TO15_ATMS5.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	12-Feb-2014 11:01:16	Calib Date:	11-Feb-2014 18:00:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021103.D				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK024				

First Level Reviewer: ortizam Date: 12-Feb-2014 11:01:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.172	11.167	0.006	92	48081	3.88	
* 2 1,4-Difluorobenzene	114	12.584	12.584	0.0	93	189358	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.782	16.782	0.0	83	141588	4.00	
4 1,2-Dichloroethane-d4 (Surr)	65	11.976	11.976	0.0	0	60571	3.86	
$ 5 Toluene-d8 (Surr)	100	14.744	14.744	0.0	92	118493	3.87	
$ 6 4-Bromofluorobenzene (Surr)	95	18.412	18.412	0.0	85	59623	3.47	
33 Acetone	43	7.358	7.358	0.0	78	4033	0.1286	7a

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
a - User Assigned ID

Manual Integration/User Assign Peak Report

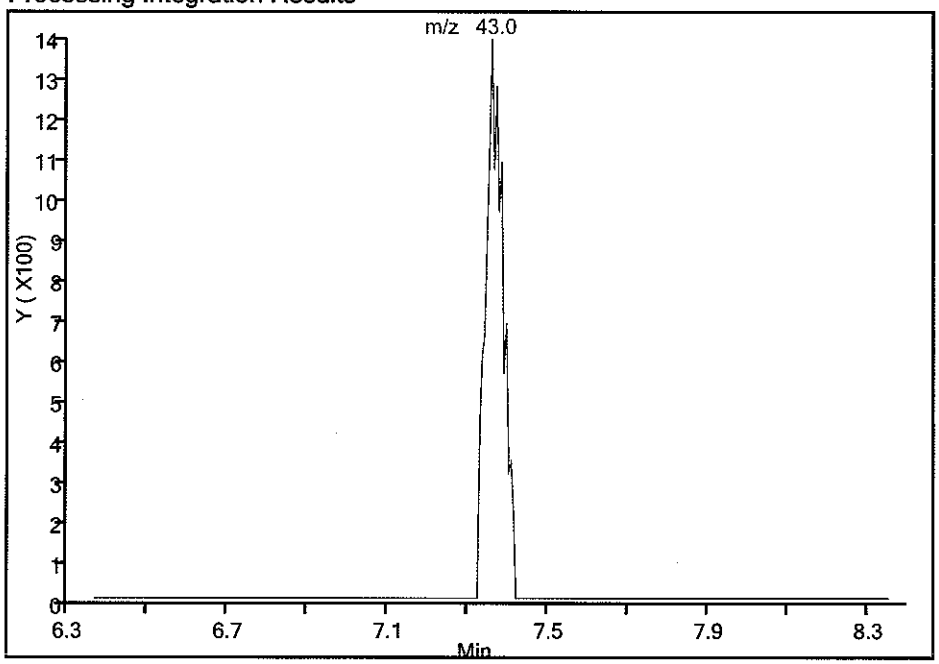
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021108.D				
Injection Date:	11-Feb-2014 22:56:30	Instrument ID:	ATMS5		
Lims ID:	320-6061-A-4	Lab Sample ID:	320-6061-4		
Client ID:	34000013				
Operator ID:	AO	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1

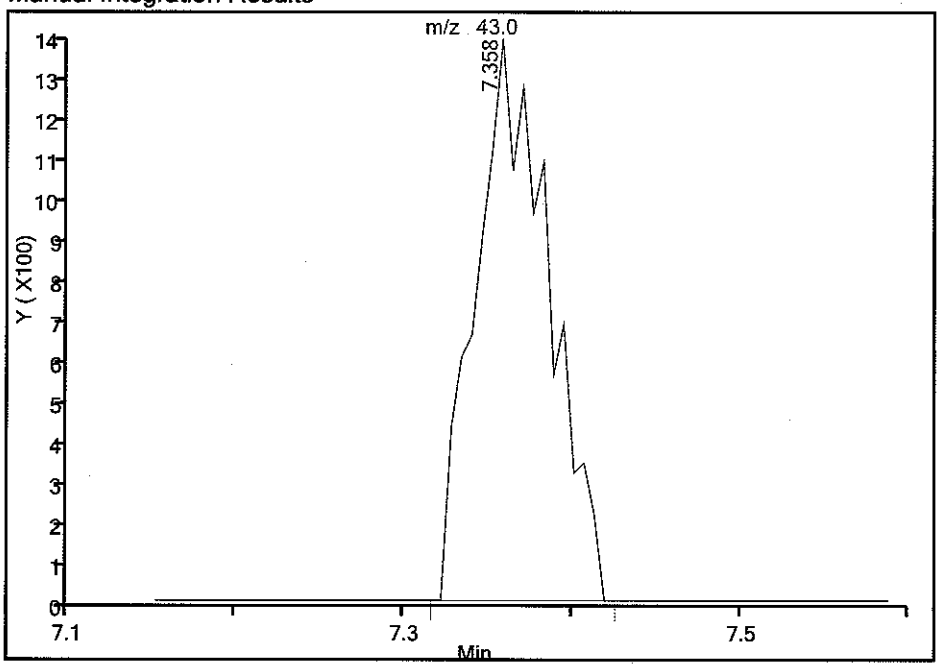
Not Detected
Expected RT: 7.36

Processing Integration Results



Manual Integration Results

RT: 7.36
Response: 4033
Amount: 0.128554



Reviewer: ortizam, 12-Feb-2014 11:01:16
Audit Action: Assigned Compound ID
Audit Reason:

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-6061-1

SDG No.:

Client Sample ID: 34000364 Lab Sample ID: 320-6061-5

Matrix: Air Lab File ID: MS5021109.D

Analysis Method: TO-15 Date Collected: 02/07/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 23:49

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 36079 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021109.D
Lims ID: 320-6061-A-5 Lab Sample ID: 320-6061-5
Client ID: 34000364
Sample Type: Client
Inject. Date: 11-Feb-2014 23:49:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6061-
Misc. Info.: 500mL; 34000364
Operator ID: AO Instrument ID: ATMS5

Method: \\SACCHROM\ChromData\ATMS5\20140211-10460.b\TO15_ATMS5.m
Limit Group: MSA - TO15 - ICAL
Last Update: 12-Feb-2014 11:01:24 Calib Date: 11-Feb-2014 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021103.D

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: ortizam Date: 12-Feb-2014 11:01:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.160	11.167	-0.006	93	49777	3.88	
* 2 1,4-Difluorobenzene	114	12.584	12.584	0.0	93	195021	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.782	16.782	0.0	82	147086	4.00	
4 1,2-Dichloroethane-d4 (Surr)	65	11.970	11.976	-0.006	0	63478	3.92	
$ 5 Toluene-d8 (Surr)	100	14.738	14.744	-0.006	92	122591	3.89	
$ 6 4-Bromofluorobenzene (Surr)	95	18.412	18.412	0.0	87	60858	3.40	
33 Acetone	43	7.358	7.358	0.0	83	4508	0.1388	7a

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
a - User Assigned ID

Manual Integration/User Assign Peak Report

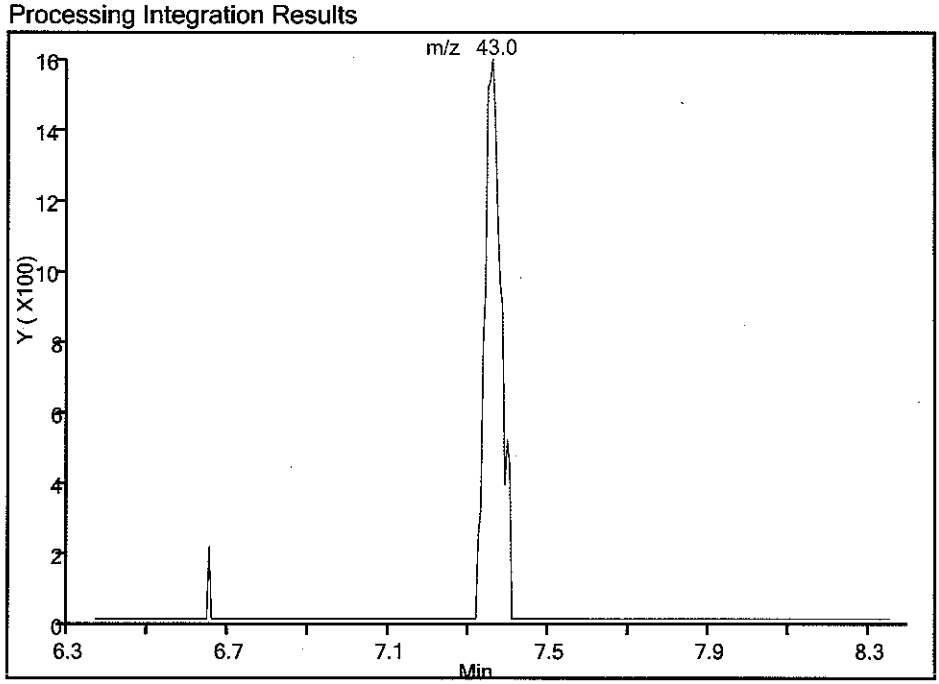
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021109.D				
Injection Date:	11-Feb-2014 23:49:30	Instrument ID:	ATMS5		
Lims ID:	320-6061-A-5	Lab Sample ID:	320-6061-5		
Client ID:	34000364				
Operator ID:	AO	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1

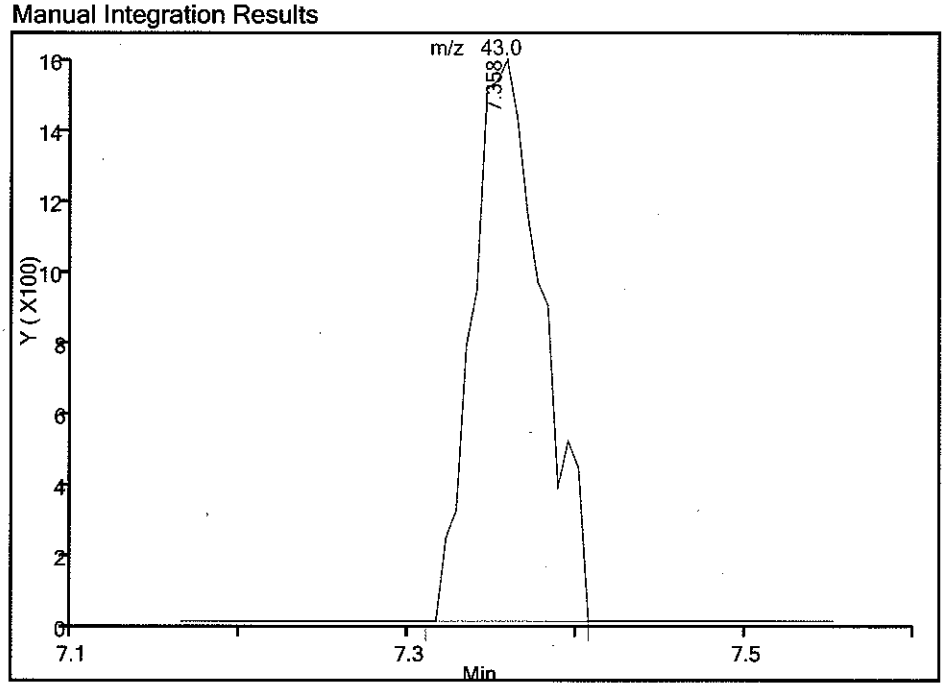
Not Detected
Expected RT: 7.36

Processing Integration Results



RT: 7.36
Response: 4508
Amount: 0.138799

Manual Integration Results



Reviewer: ortizam, 12-Feb-2014 11:01:24
Audit Action: Assigned Compound ID
Audit Reason:

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6061-1

SDG No.:

Client Sample ID: 34000381 | Lab Sample ID: 320-6061-6

Matrix: Air | Lab File ID: MS5021110.D

Analysis Method: TO-15 | Date Collected: 02/07/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 00:42

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 36079 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

FORM I TO-15

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021110.D
Lims ID: 320-6061-A-6 Lab Sample ID: 320-6061-6
Client ID: 34000381
Sample Type: Client
Inject. Date: 12-Feb-2014 00:42:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6061-
Misc. Info.: 500mL; 34000381
Operator ID: AO Instrument ID: ATMS5

Method: \\SACCHROM\ChromData\ATMS5\20140211-10460.b\TO15_ATMS5.m
Limit Group: MSA - TO15 - ICAL
Last Update: 12-Feb-2014 11:01:24 Calib Date: 11-Feb-2014 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021103.D

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: ortizam Date: 12-Feb-2014 11:01:32

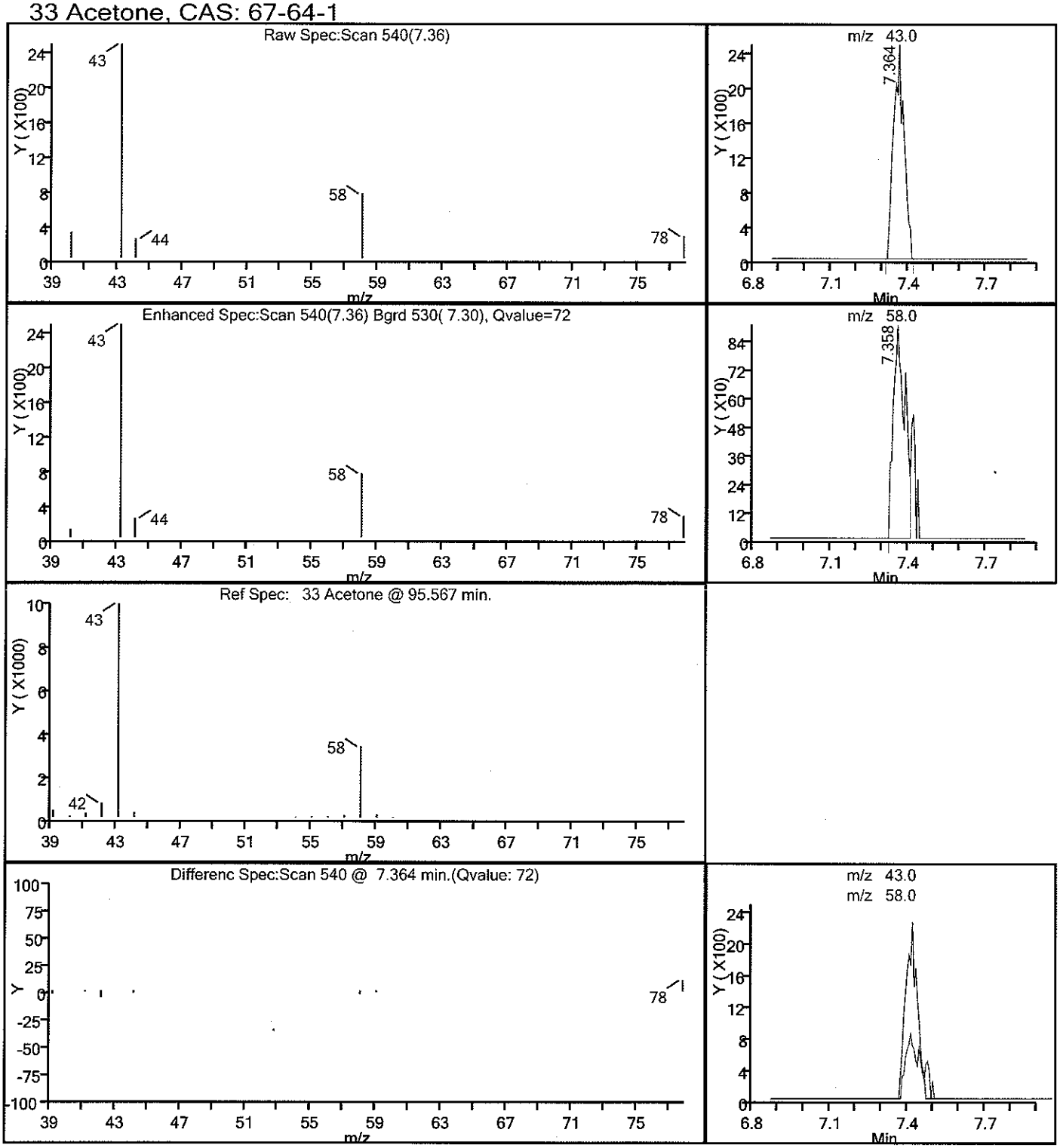
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.160	11.167	-0.006	93	50864	3.88	
* 2 1,4-Difluorobenzene	114	12.584	12.584	0.0	93	195998	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.782	16.782	0.0	81	151929	4.00	
4 1,2-Dichloroethane-d4 (Surr)	65	11.976	11.976	0.0	0	63051	3.88	
$ 5 Toluene-d8 (Surr)	100	14.744	14.744	0.0	93	122748	3.87	
$ 6 4-Bromofluorobenzene (Surr)	95	18.412	18.412	0.0	86	67748	3.67	
33 Acetone	43	7.364	7.358	0.006	72	6997	0.2108	

Report Date: 12-Feb-2014 11:01:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021110.D				
Injection Date:	12-Feb-2014 00:42:30	Instrument ID:	ATMS5		
Lims ID:	320-6061-A-6	Lab Sample ID:	320-6061-6		
Client ID:	34000381				
Operator ID:	AO	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6061-1

SDG No.:

Client Sample ID: 34000132 | Lab Sample ID: 320-6061-7

Matrix: Air | Lab File ID: MS5021111.D

Analysis Method: TO-15 | Date Collected: 02/07/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 01:36

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 36079 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	0.30	J	0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

FORM I TO-15

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021111.D				
Lims ID:	320-6061-A-7	Lab Sample ID:	320-6061-7		
Client ID:	34000132				
Sample Type:	Client				
Inject. Date:	12-Feb-2014 01:36:30	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-6061-				
Misc. Info.:	500mL; 34000132				
Operator ID:	AO	Instrument ID:	ATMS5		
Method:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\TO15_ATMS5.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	12-Feb-2014 11:01:24	Calib Date:	11-Feb-2014 18:00:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021103.D				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK024				

First Level Reviewer: ortizam Date: 12-Feb-2014 11:01:40

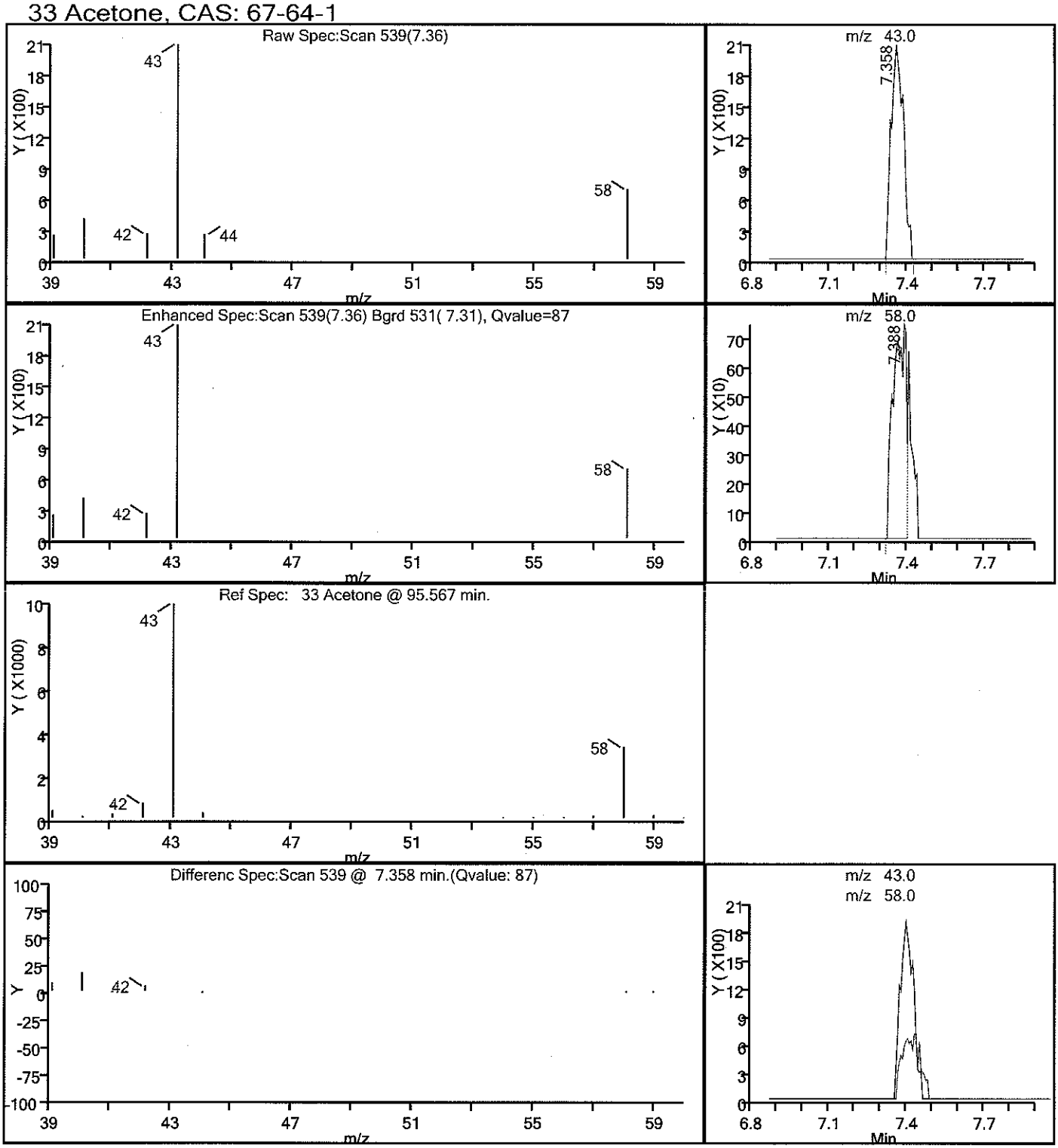
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.166	11.167	0.0	97	48832	3.88	
* 2 1,4-Difluorobenzene	114	12.584	12.584	0.0	93	196114	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.781	16.782	-0.001	82	152695	4.00	
4 1,2-Dichloroethane-d4 (Surr)	65	11.969	11.976	-0.007	0	64456	3.96	
$ 5 Toluene-d8 (Surr)	100	14.743	14.744	-0.001	92	122740	3.87	
$ 6 4-Bromofluorobenzene (Surr)	95	18.412	18.412	0.0	87	67902	3.66	
33 Acetone	43	7.358	7.358	0.0	87	6768	0.2124	
69 1,4-Dioxane	88	13.569	13.563	0.006	44	2832	0.2972	

Report Date: 12-Feb-2014 11:01:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021111.D				
Injection Date:	12-Feb-2014 01:36:30	Instrument ID:	ATMS5		
Lims ID:	320-6061-A-7	Lab Sample ID:	320-6061-7		
Client ID:	34000132				
Operator ID:	AO	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6061-1

SDG No.:

Client Sample ID: 34000927 | Lab Sample ID: 320-6061-8

Matrix: Air | Lab File ID: MS5021112.D

Analysis Method: TO-15 | Date Collected: 02/07/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 02:31

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 36079 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	1.8	J B	5.0
107-02-8	Acrolein	0.22	J	2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	0.28	J B	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6061-1

SDG No.:

Client Sample ID: 34000927 | Lab Sample ID: 320-6061-8

Matrix: Air | Lab File ID: MS5021112.D

Analysis Method: TO-15 | Date Collected: 02/07/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 02:31

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 36079 | Units: ppb v/v

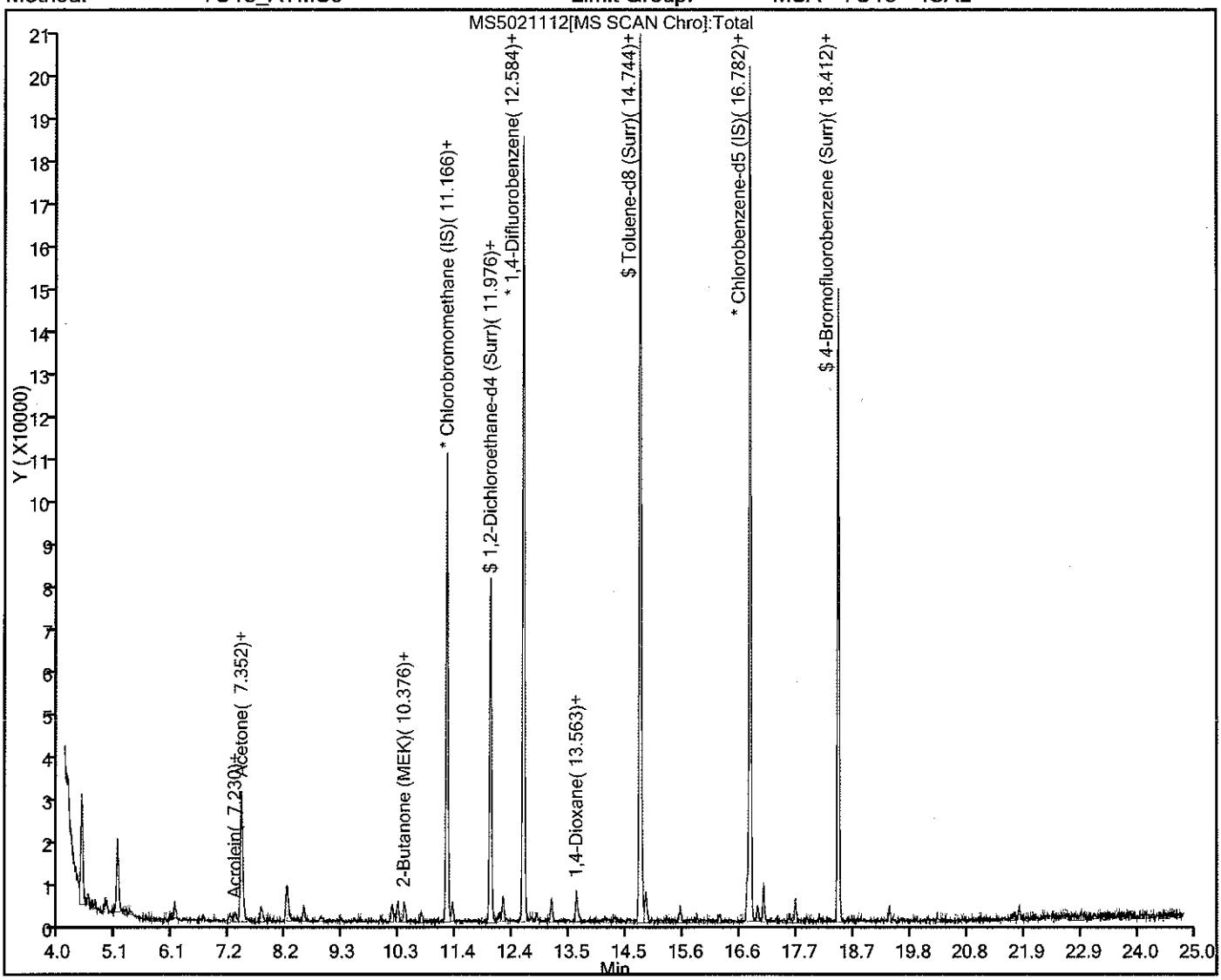
CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

Report Date: 12-Feb-2014 11:01:48 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021112.D				
Injection Date:	12-Feb-2014 02:31:30	Instrument ID:	ATMS5		
Lims ID:	320-6061-A-8	Lab Sample ID:	320-6061-8		
Client ID:	34000927				
Operator ID:	AO	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		

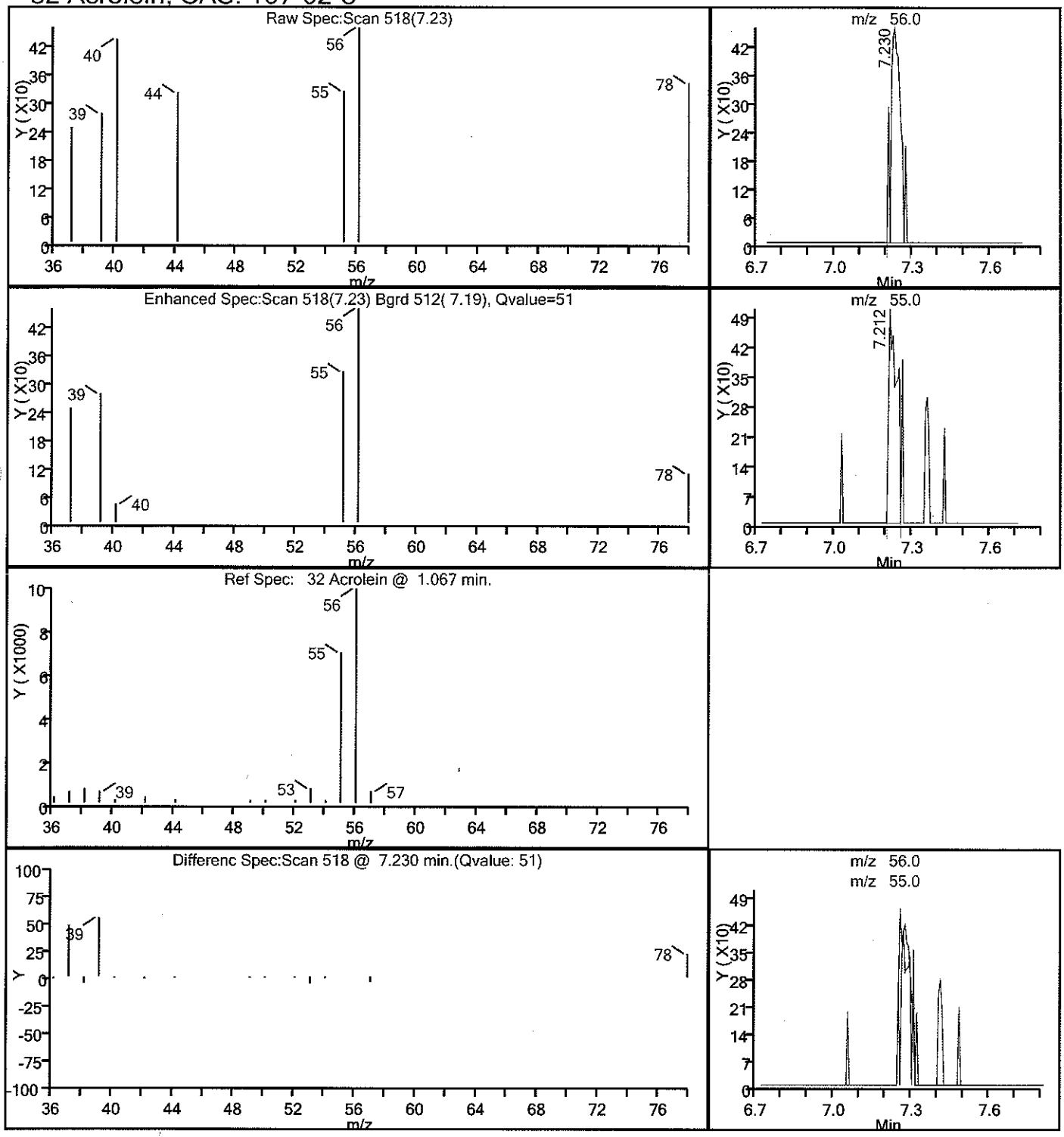


Report Date: 12-Feb-2014 11:01:49 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021112.D				
Injection Date:	12-Feb-2014 02:31:30	Instrument ID:	ATMS5		
Lims ID:	320-6061-A-8	Lab Sample ID:	320-6061-8		
Client ID:	34000927				
Operator ID:	AO	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

32 Acrolein, CAS: 107-02-8

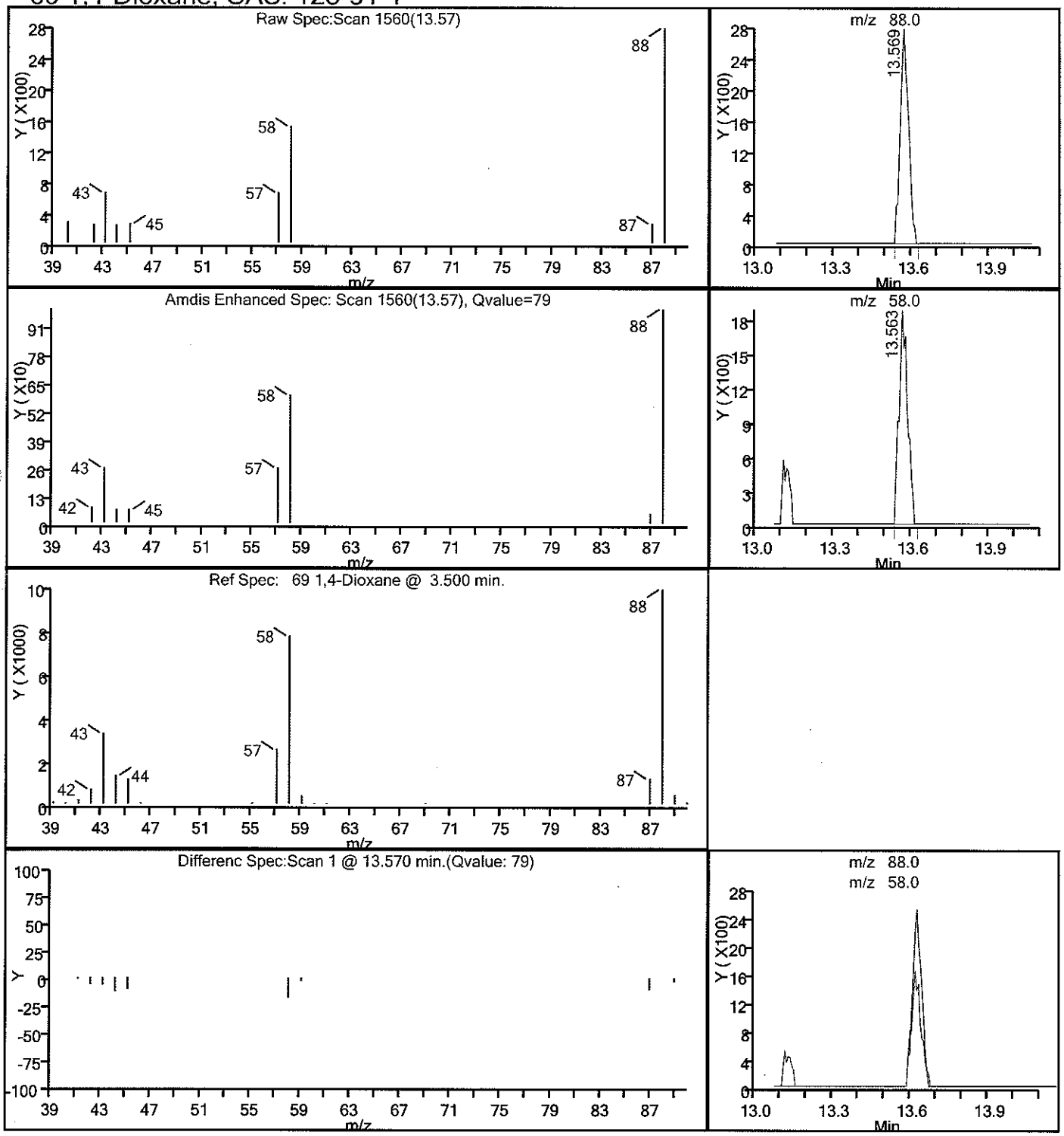


Report Date: 12-Feb-2014 11:01:49 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021112.D				
Injection Date:	12-Feb-2014 02:31:30	Instrument ID:	ATMS5		
Lims ID:	320-6061-A-8	Lab Sample ID:	320-6061-8		
Client ID:	34000927				
Operator ID:	AO	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

69 1,4-Dioxane, CAS: 123-91-1



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6061-1

SDG No.:

Client Sample ID: 34001283 | Lab Sample ID: 320-6061-9

Matrix: Air | Lab File ID: MS5021113.D

Analysis Method: TO-15 | Date Collected: 02/07/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 03:25

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 36079 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	1.4	J B	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	0.35	J B	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	0.31	J	0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6061-1

SDG No.:

Client Sample ID: 34001283 | Lab Sample ID: 320-6061-9

Matrix: Air | Lab File ID: MS5021113.D

Analysis Method: TO-15 | Date Collected: 02/07/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 03:25

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 36079 | Units: ppb v/v

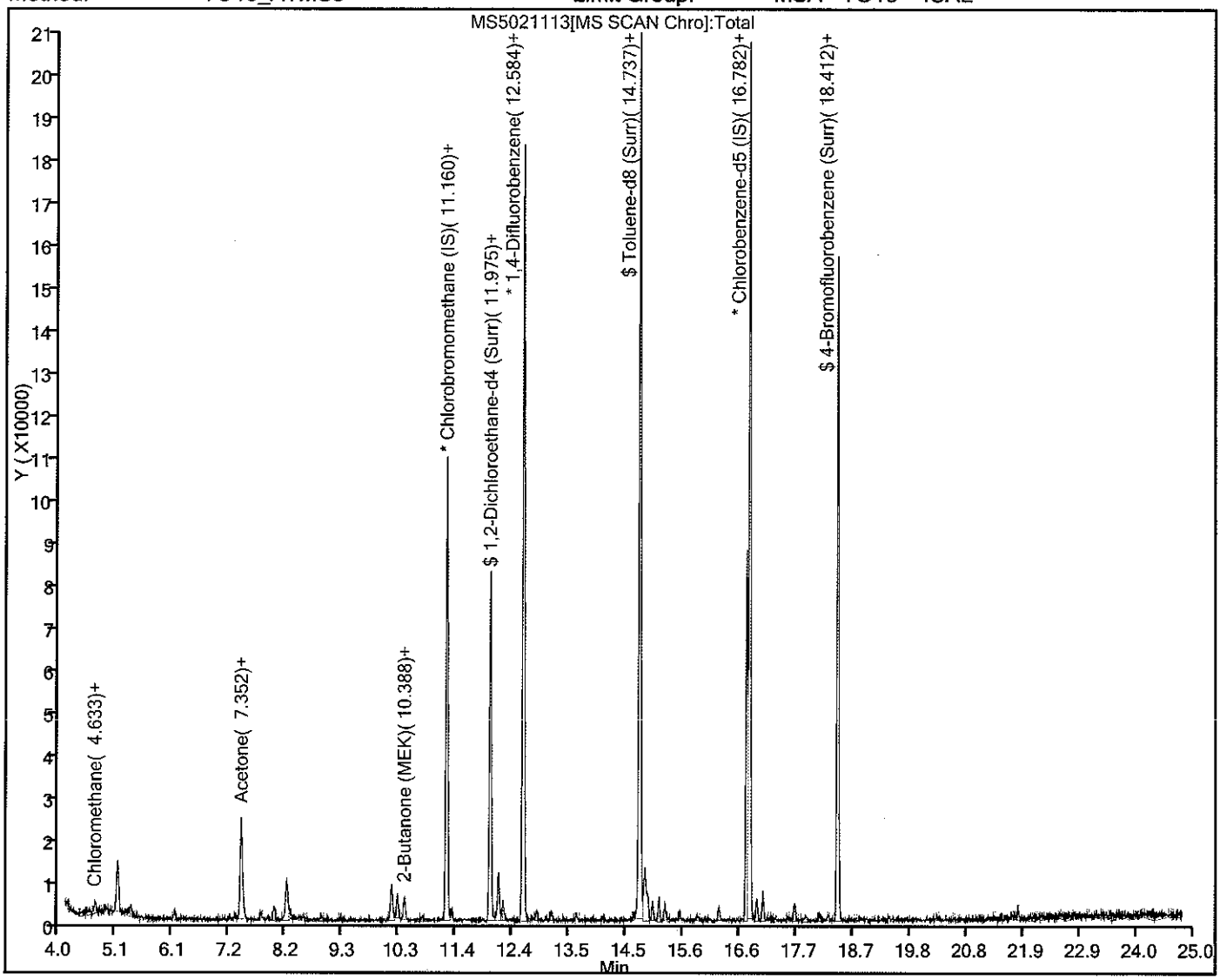
CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

Report Date: 12-Feb-2014 11:01:54 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021113.D				
Injection Date:	12-Feb-2014 03:25:30	Instrument ID:	ATMS5		
Lims ID:	320-6061-A-9	Lab Sample ID:	320-6061-9		
Client ID:	34001283				
Operator ID:	AO	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		

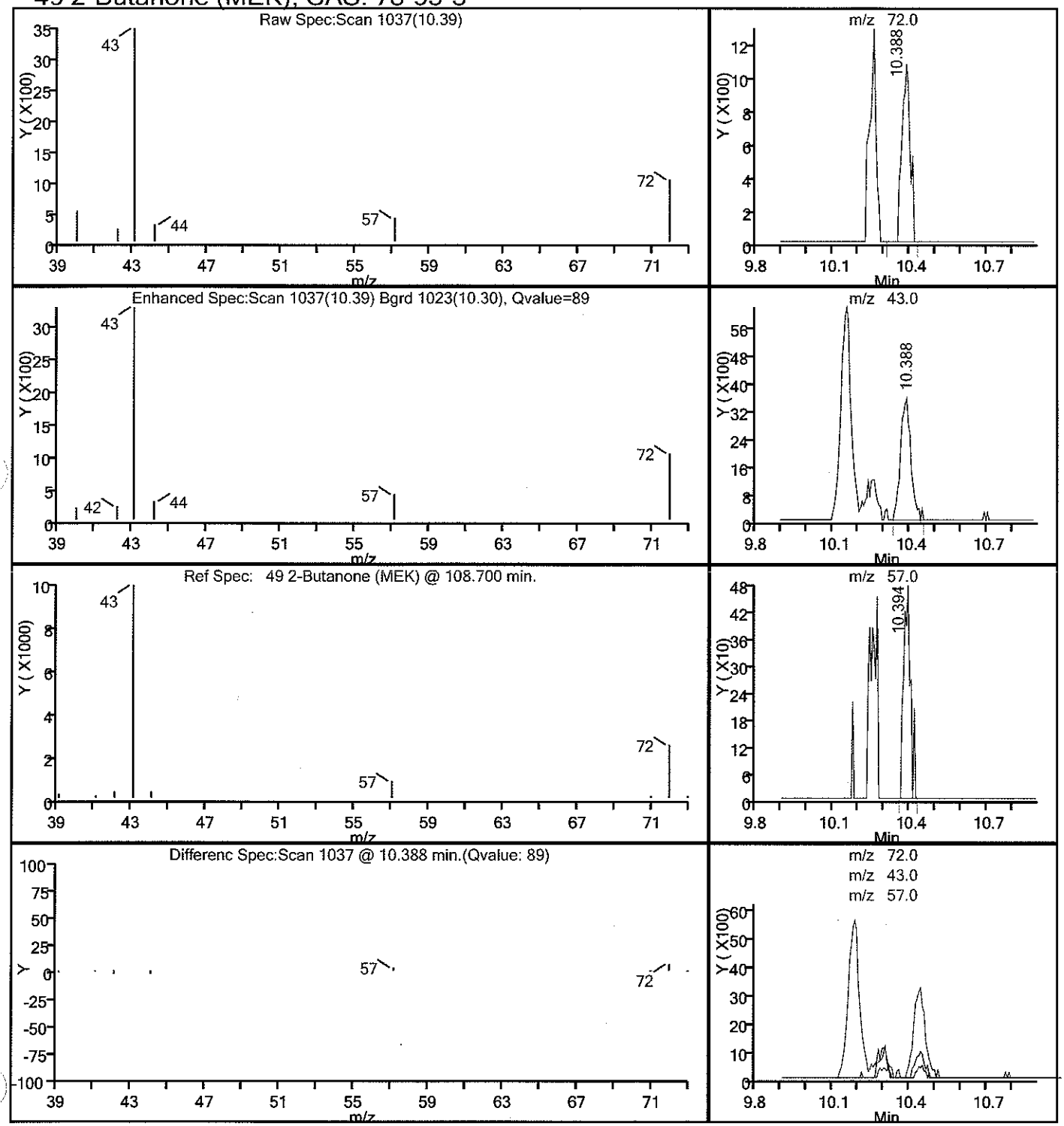


Report Date: 12-Feb-2014 11:01:54 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021113.D				
Injection Date:	12-Feb-2014 03:25:30	Instrument ID:	ATMS5		
Lims ID:	320-6061-A-9	Lab Sample ID:	320-6061-9		
Client ID:	34001283				
Operator ID:	AO	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

49 2-Butanone (MEK), CAS: 78-93-3



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6061-1

SDG No.:

Client Sample ID: 34002021 | Lab Sample ID: 320-6061-10

Matrix: Air | Lab File ID: MS5021114.D

Analysis Method: TO-15 | Date Collected: 02/07/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 04:18

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 36079 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.20	J B	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6061-1

SDG No.:

Client Sample ID: 34002021 | Lab Sample ID: 320-6061-10

Matrix: Air | Lab File ID: MS5021114.D

Analysis Method: TO-15 | Date Collected: 02/07/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 04:18

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 36079 | Units: ppb v/v

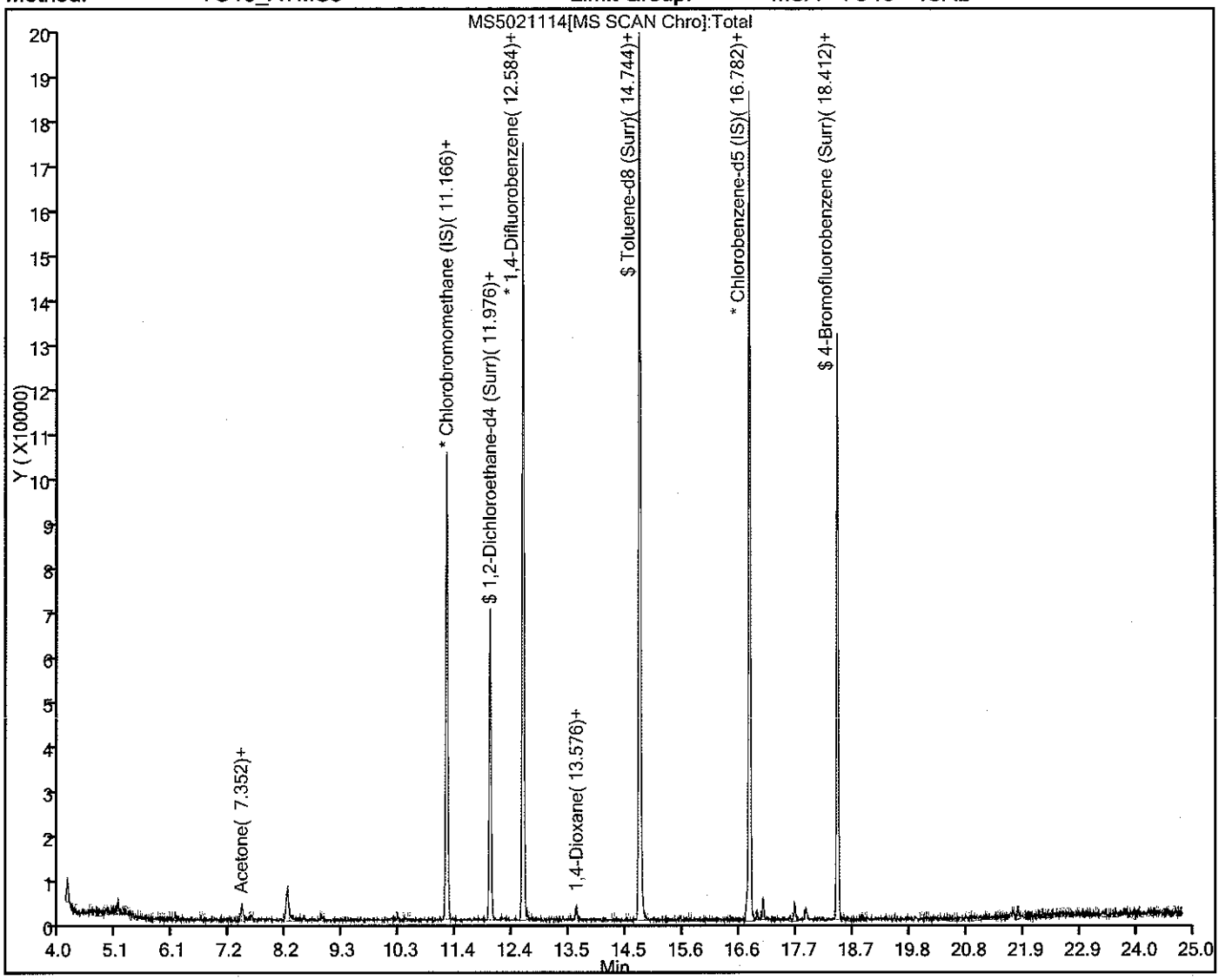
CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

Report Date: 12-Feb-2014 11:02:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021114.D				
Injection Date:	12-Feb-2014 04:18:30	Instrument ID:	ATMS5		
Lims ID:	320-6061-A-10	Lab Sample ID:	320-6061-10		
Client ID:	34002021				
Operator ID:	AO	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		

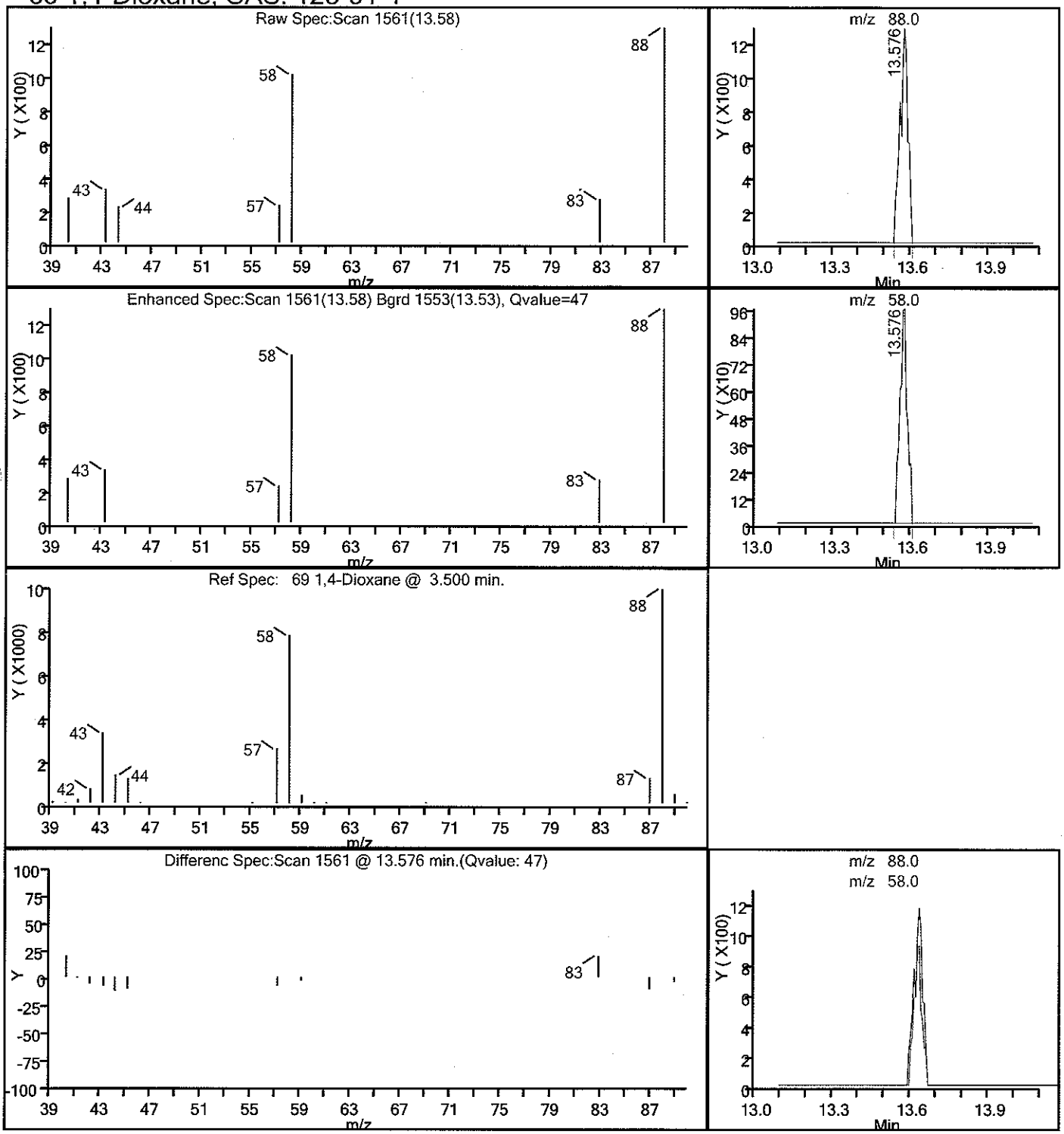


Report Date: 12-Feb-2014 11:02:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021114.D				
Injection Date:	12-Feb-2014 04:18:30	Instrument ID:	ATMS5		
Lims ID:	320-6061-A-10	Lab Sample ID:	320-6061-10		
Client ID:	34002021				
Operator ID:	AO	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

69 1,4-Dioxane, CAS: 123-91-1



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6061-1

SDG No.:

Client Sample ID: 34000790 | Lab Sample ID: 320-6061-11

Matrix: Air | Lab File ID: MS5021115.D

Analysis Method: TO-15 | Date Collected: 02/07/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 05:10

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 36079 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

FORM I TO-15

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021115.D
Lims ID: 320-6061-A-11 Lab Sample ID: 320-6061-11
Client ID: 34000790
Sample Type: Client
Inject. Date: 12-Feb-2014 05:10:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6061-
Misc. Info.: 500mL; 34000790
Operator ID: AO Instrument ID: ATMS5

Method: \\SACCHROM\ChromData\ATMS5\20140211-10460.b\TO15_ATMS5.m
Limit Group: MSA - TO15 - ICAL
Last Update: 12-Feb-2014 11:02:10 Calib Date: 11-Feb-2014 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021103.D

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: ortizam Date: 12-Feb-2014 11:02:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.166	11.167	0.0	93	49224	3.88	
* 2 1,4-Difluorobenzene	114	12.584	12.584	0.0	93	197384	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.781	16.782	-0.001	84	146766	4.00	
) 4 1,2-Dichloroethane-d4 (Surr)	65	11.975	11.976	-0.001	0	61998	3.79	
$ 5 Toluene-d8 (Surr)	100	14.737	14.744	-0.007	92	122229	3.83	
$ 6 4-Bromofluorobenzene (Surr)	95	18.412	18.412	0.0	87	62882	3.53	
33 Acetone	43	7.370	7.370	0.012	84	5295	0.1649	7a

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
a - User Assigned ID

Manual Integration/User Assign Peak Report

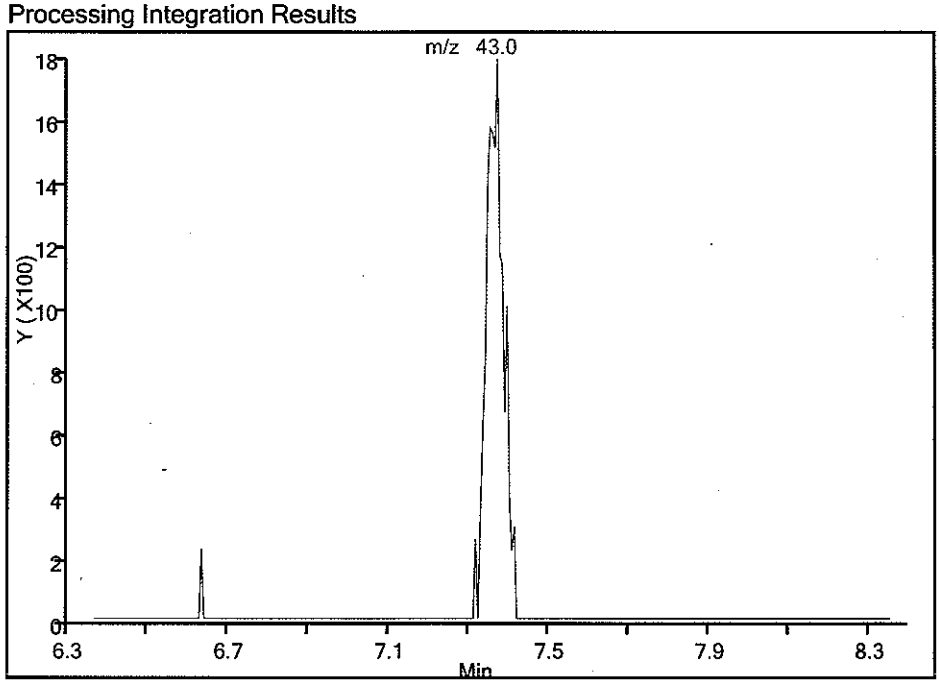
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021115.D				
Injection Date:	12-Feb-2014 05:10:30	Instrument ID:	ATMS5		
Lims ID:	320-6061-A-11	Lab Sample ID:	320-6061-11		
Client ID:	34000790				
Operator ID:	AO	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1

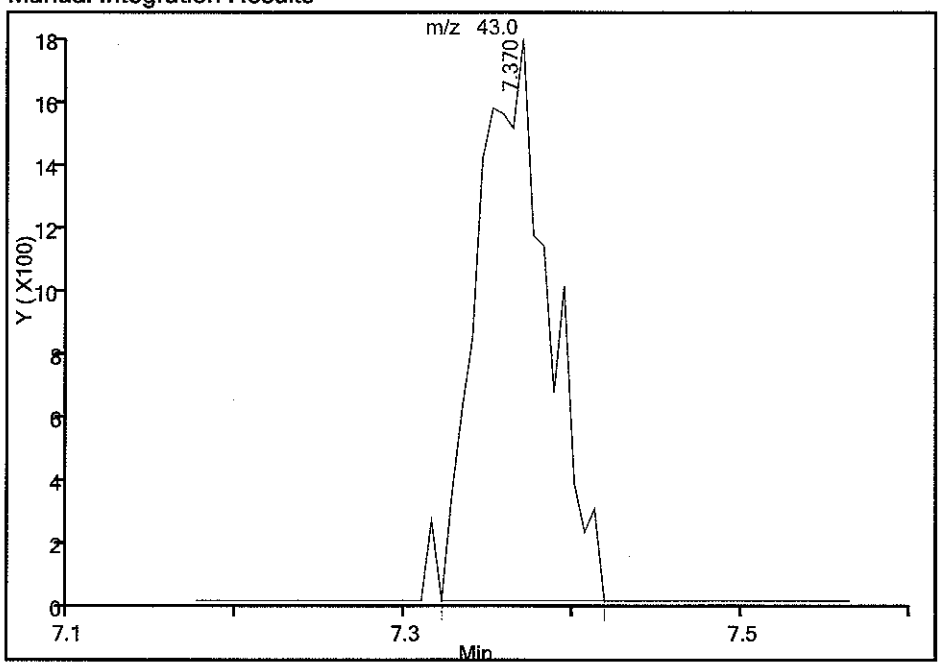
Not Detected
Expected RT: 7.36

Processing Integration Results



RT: 7.37
Response: 5295
Amount: 0.164862

Manual Integration Results



Reviewer: ortizam, 12-Feb-2014 11:02:10
Audit Action: Assigned Compound ID
Audit Reason:

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6061-1

SDG No.:

Client Sample ID: 34001127 | Lab Sample ID: 320-6061-12

Matrix: Air | Lab File ID: MS5021116.D

Analysis Method: TO-15 | Date Collected: 02/07/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 06:03

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 36079 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

FORM I TO-15

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021116.D
Lims ID: 320-6061-A-12 Lab Sample ID: 320-6061-12
Client ID: 34001127
Sample Type: Client
Inject. Date: 12-Feb-2014 06:03:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6061-
Misc. Info.: 500mL; 34001127
Operator ID: AO Instrument ID: ATMS5

Method: \\SACCHROM\ChromData\ATMS5\20140211-10460.b\TO15_ATMS5.m
Limit Group: MSA - TO15 - ICAL
Last Update: 12-Feb-2014 11:02:19 Calib Date: 11-Feb-2014 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021103.D

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: ortizam Date: 12-Feb-2014 11:02:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.172	11.167	0.006	96	48326	3.88	
* 2 1,4-Difluorobenzene	114	12.584	12.584	0.0	93	197619	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.782	16.782	0.0	83	147999	4.00	
4 1,2-Dichloroethane-d4 (Surr)	65	11.976	11.976	0.0	0	63339	3.86	
$ 5 Toluene-d8 (Surr)	100	14.737	14.744	-0.007	92	121308	3.80	
$ 6 4-Bromofluorobenzene (Surr)	95	18.412	18.412	0.0	86	63885	3.55	
33 Acetone	43	7.364	7.364	0.006	82	4771	0.1513	7a

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
a - User Assigned ID

Manual Integration/User Assign Peak Report

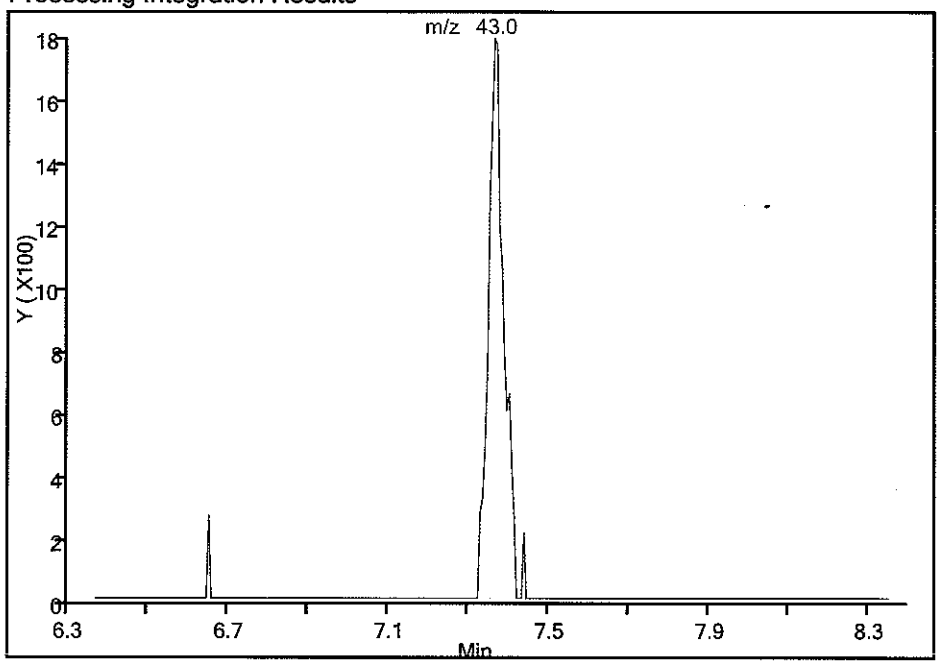
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140211-10460.b\MS5021116.D				
Injection Date:	12-Feb-2014 06:03:30	Instrument ID:	ATMS5		
Lims ID:	320-6061-A-12	Lab Sample ID:	320-6061-12		
Client ID:	34001127				
Operator ID:	AO	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1

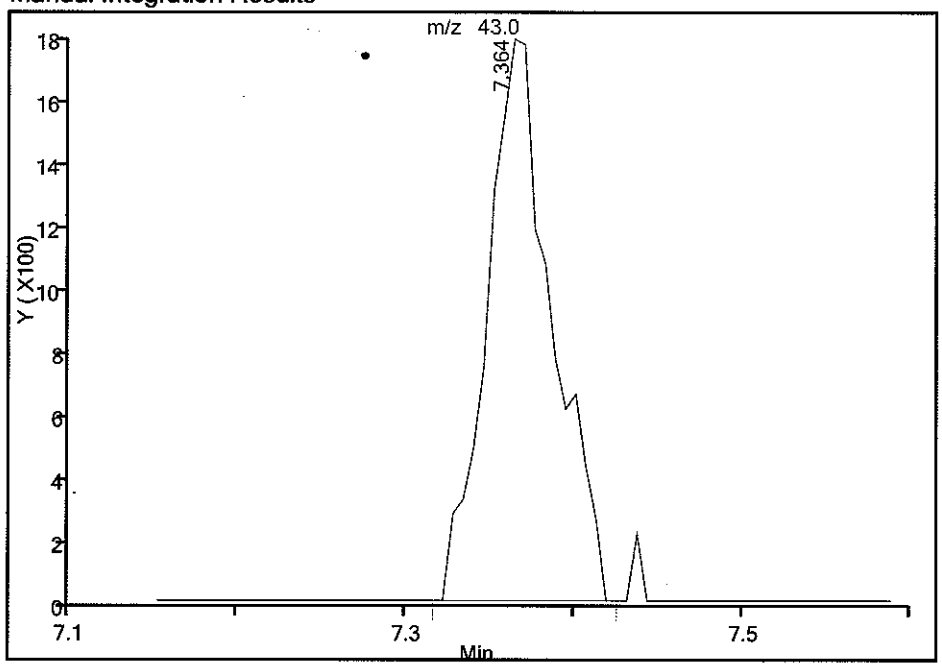
Not Detected
Expected RT: 7.36

Processing Integration Results



RT: 7.36
Response: 4771
Amount: 0.151308

Manual Integration Results



Reviewer: ortizam, 12-Feb-2014 11:02:22
Audit Action: Assigned Compound ID
Audit Reason:

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-6369-1

SDG No.:

Client Sample ID: 34001240 Lab Sample ID: 320-6369-1

Matrix: Air Lab File ID: 14030520.D

Analysis Method: TO-15 Date Collected: 02/27/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/06/2014 06:54

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37696 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	1.3		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	0.13	J	0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	0.52		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	1.1	J	2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

FORM I TO-15

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS2\20140305-10916.b\14030520.D				
Lims ID:	320-6369-A-1	Lab Sample ID:	320-6369-1		
Client ID:	34001240				
Sample Type:	Client				
Inject. Date:	06-Mar-2014 06:54:30	ALS Bottle#:	14	Worklist Smp#:	21
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-6369-A-1				
Misc. Info.:	500 mL CAN 34001240				
Operator ID:	LHS	Instrument ID:	ATMS2		
Method:	\\SACCHROM\ChromData\ATMS2\20140305-10916.b\TO15_ATMS2N.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	06-Mar-2014 11:39:40	Calib Date:	21-Feb-2014 12:00:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS2\20140220-10651.b\14022023.D				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				

First Level Reviewer: leeh Date: 06-Mar-2014 10:59:39

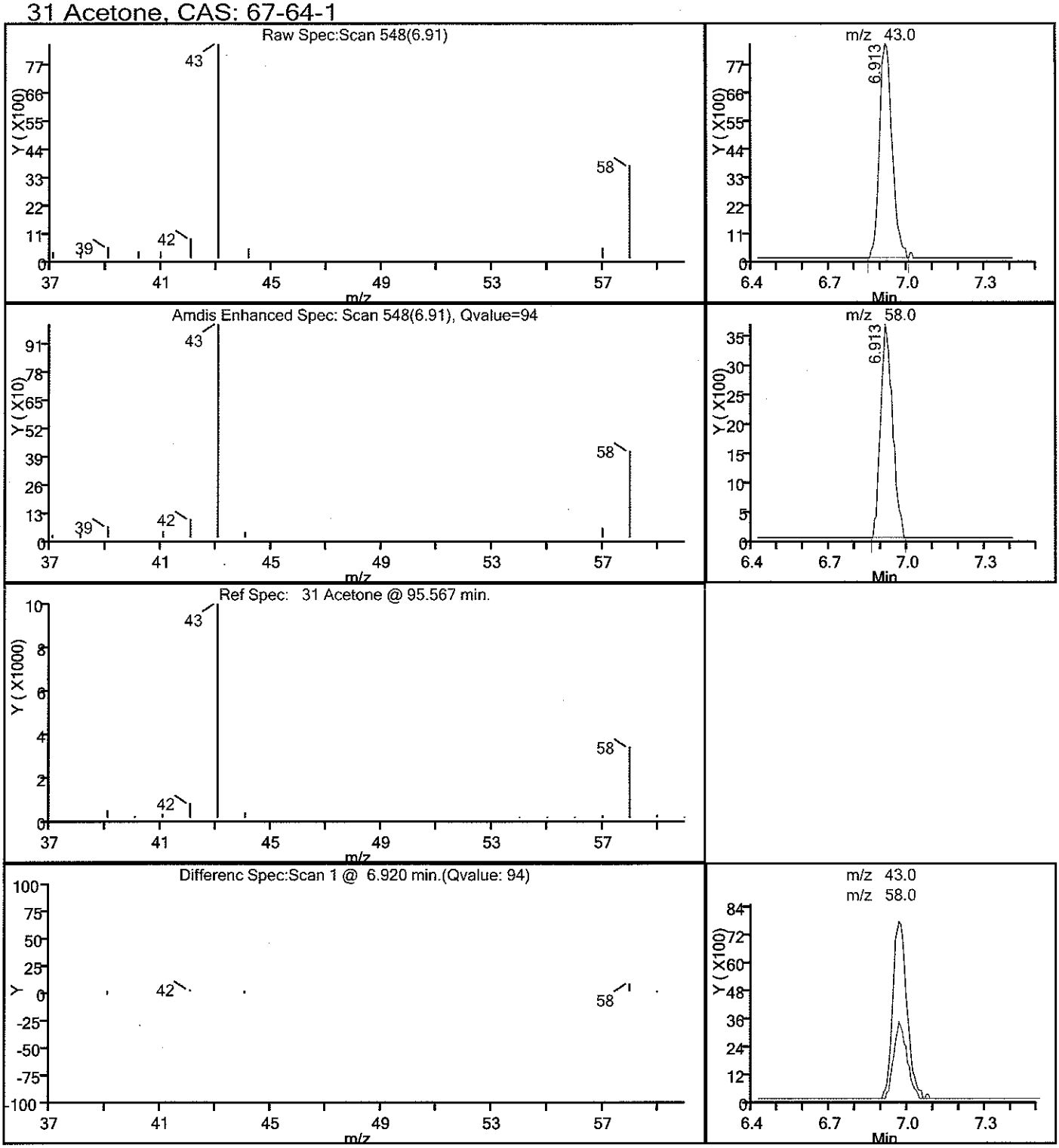
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.512	11.512	0.0	82	43349	3.87	
* 2 1,4-Difluorobenzene	114	13.611	13.611	0.0	97	175219	3.99	
* 3 Chlorobenzene-d5 (IS)	117	20.242	20.248	-0.006	88	147124	3.99	
4 1,2-Dichloroethane-d4 (Surr)	65	12.680	12.680	0.0	97	69430	3.71	
$ 5 Toluene-d8 (Surr)	100	16.951	16.945	0.007	95	109636	4.05	
$ 6 4-Bromofluorobenzene (Surr)	174	22.827	22.827	0.0	88	86674	3.67	
14 Propene	41	3.810	3.810	0.0	76	2587	0.1336	
31 Acetone	43	6.913	6.895	0.018	94	29303	1.49	
72 1,4-Dioxane	88	15.199	15.168	0.031	76	7628	1.26	
85 Toluene	91	17.121	17.121	0.0	88	20463	0.5168	
126 1,2,4-Trichlorobenzene	180	29.385	29.398	-0.013	1	995	1.11	

Report Date: 06-Mar-2014 11:48:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS2\20140305-10916.b\14030520.D				
Injection Date:	06-Mar-2014 06:54:30	Instrument ID:	ATMS2		
Lims ID:	320-6369-A-1	Lab Sample ID:	320-6369-1		
Client ID:	34001240				
Operator ID:	LHS	ALS Bottle#:	14	Worklist Smp#:	21
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1

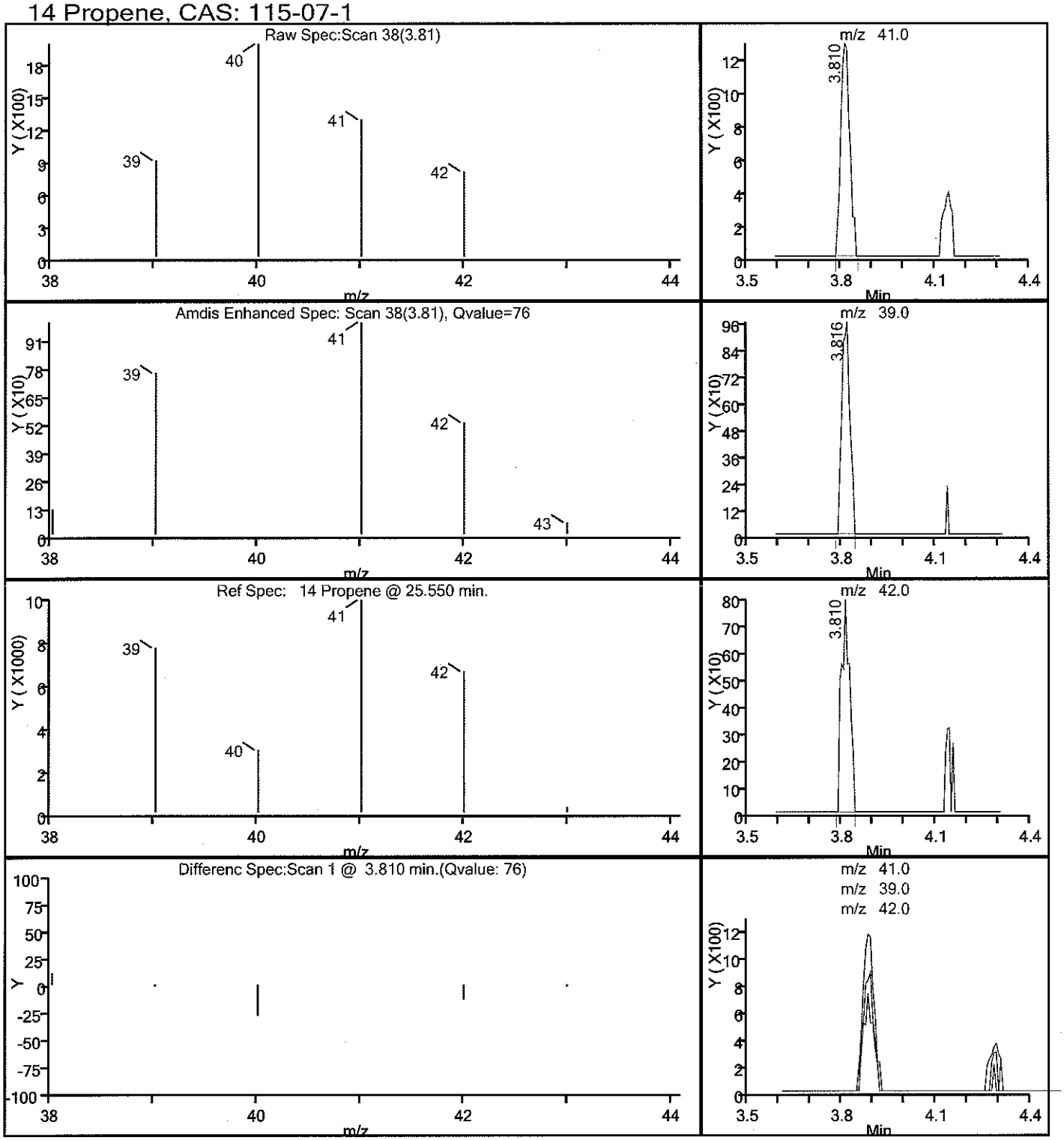


Report Date: 06-Mar-2014 11:48:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS2\20140305-10916.b\14030520.D				
Injection Date:	06-Mar-2014 06:54:30	Instrument ID:	ATMS2		
Lims ID:	320-6369-A-1	Lab Sample ID:	320-6369-1		
Client ID:	34001240				
Operator ID:	LHS	ALS Bottle#:	14	Worklist Smp#:	21
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

14 Propene, CAS: 115-07-1

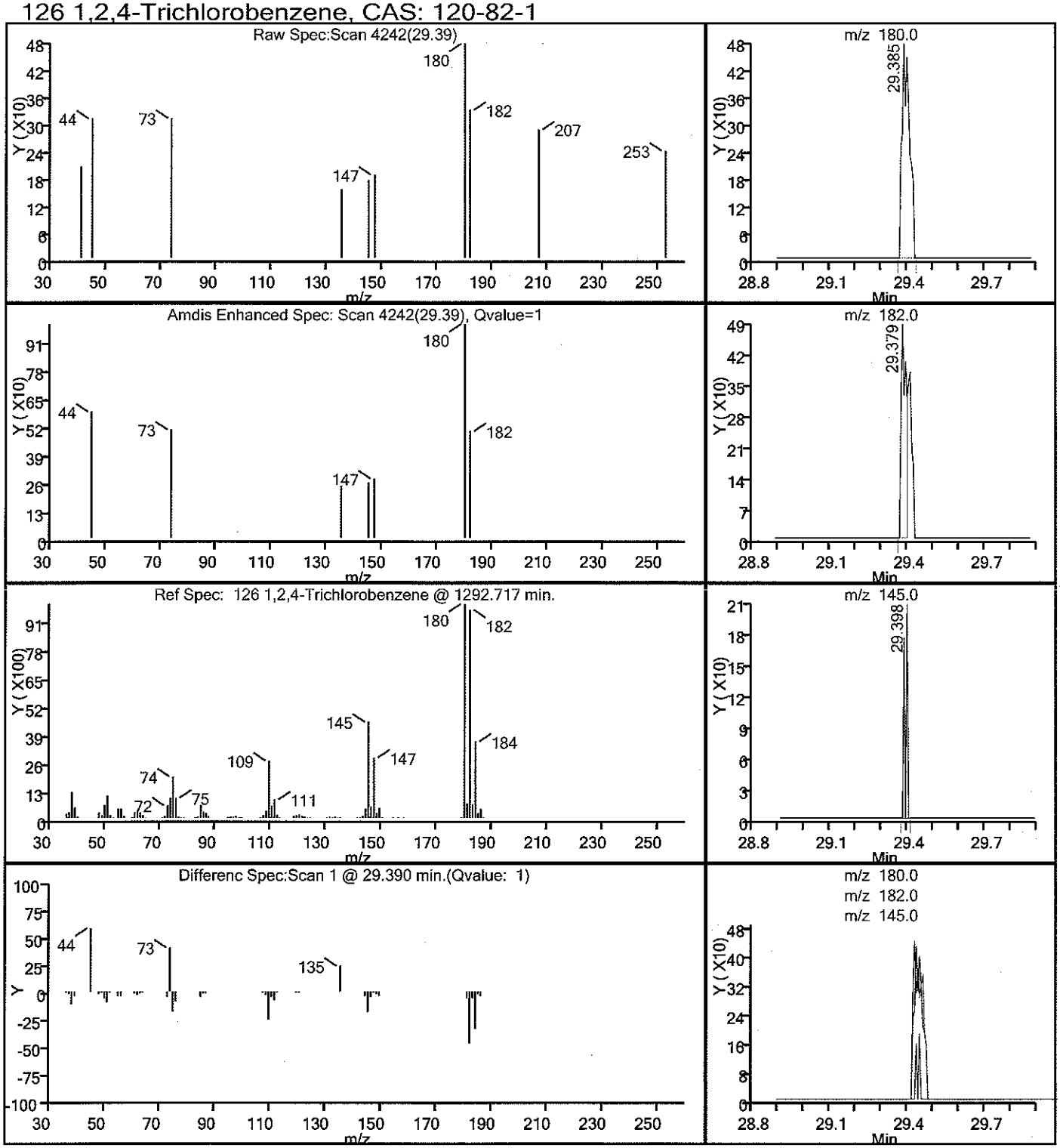


Report Date: 06-Mar-2014 11:48:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS2\20140305-10916.b\14030520.D				
Injection Date:	06-Mar-2014 06:54:30	Instrument ID:	ATMS2		
Lims ID:	320-6369-A-1	Lab Sample ID:	320-6369-1		
Client ID:	34001240				
Operator ID:	LHS	ALS Bottle#:	14	Worklist Smp#:	21
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

126 1,2,4-Trichlorobenzene, CAS: 120-82-1



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6369-1

SDG No.:

Client Sample ID: 34000549 | Lab Sample ID: 320-6369-2

Matrix: Air | Lab File ID: 14030521.D

Analysis Method: TO-15 | Date Collected: 02/27/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/06/2014 07:49

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 37696 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	0.23	J	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	1.1	J	2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

FORM I TO-15

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS2\20140305-10916.b\14030521.D				
Lims ID:	320-6369-A-2	Lab Sample ID:	320-6369-2		
Client ID:	34000549				
Sample Type:	Client				
Inject. Date:	06-Mar-2014 07:49:30	ALS Bottle#:	15	Worklist Smp#:	22
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-6369-A-2				
Misc. Info.:	500 mL CAN 34000549				
Operator ID:	LHS	Instrument ID:	ATMS2		
Method:	\\SACCHROM\ChromData\ATMS2\20140305-10916.b\TO15_ATMS2N.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	06-Mar-2014 11:39:40	Calib Date:	21-Feb-2014 12:00:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS2\20140220-10651.b\14022023.D				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				

First Level Reviewer: leeh Date: 06-Mar-2014 11:00:50

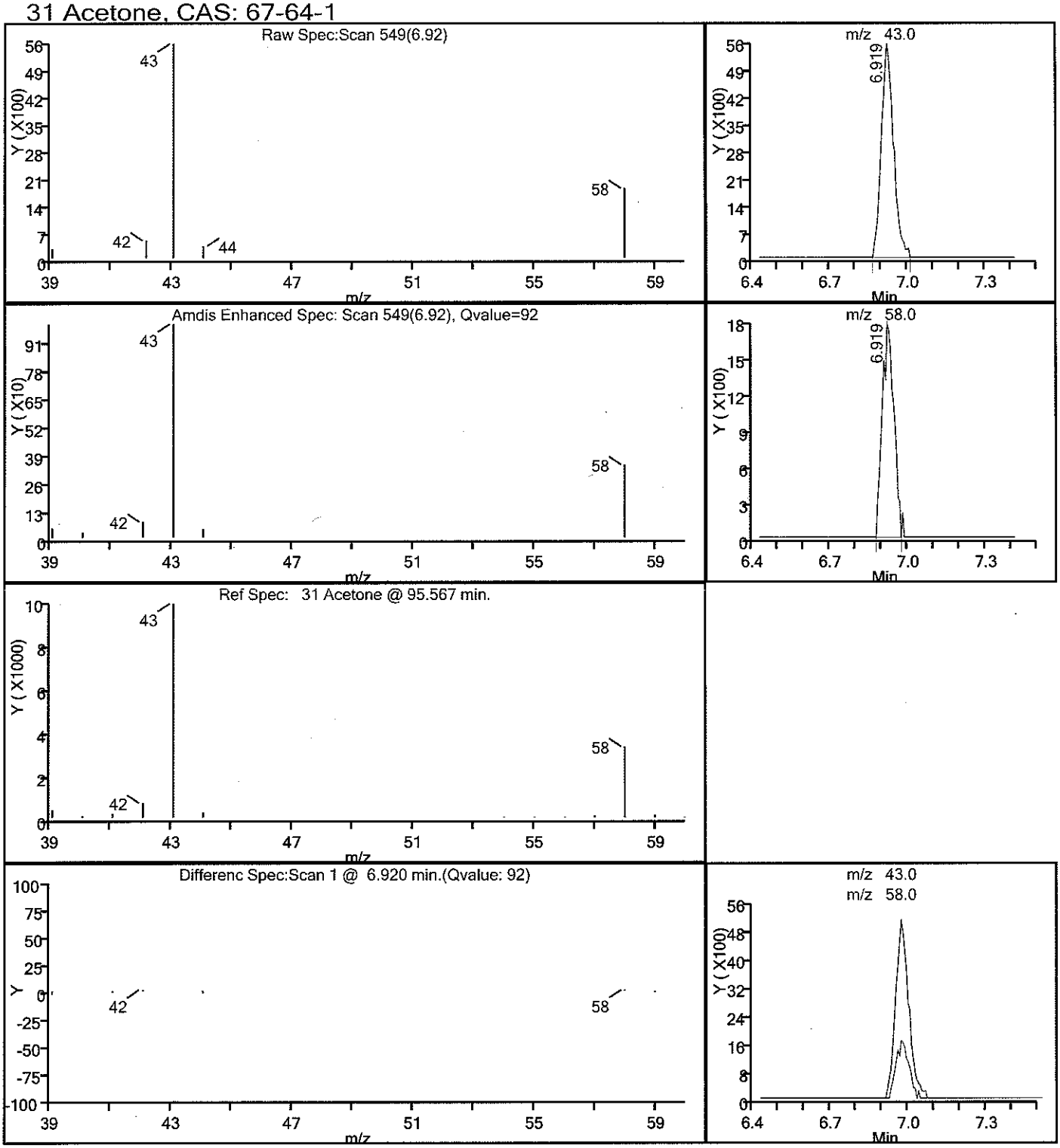
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.512	11.512	0.0	82	41615	3.87	
* 2 1,4-Difluorobenzene	114	13.611	13.611	0.0	96	173795	3.99	
* 3 Chlorobenzene-d5 (IS)	117	20.248	20.248	0.0	89	144355	3.99	
4 1,2-Dichloroethane-d4 (Surr)	65	12.680	12.680	0.0	97	69092	3.72	
$ 5 Toluene-d8 (Surr)	100	16.951	16.945	0.007	95	108498	4.04	
$ 6 4-Bromofluorobenzene (Surr)	174	22.828	22.827	0.001	89	84734	3.66	
14 Propene	41	3.810	3.810	0.0	86	1231	0.0662	
31 Acetone	43	6.919	6.895	0.024	92	17959	0.9529	
85 Toluene	91	17.109	17.121	-0.012	69	9127	0.2324	
126 1,2,4-Trichlorobenzene	180	29.392	29.398	-0.006	1	1021	1.12	

Report Date: 06-Mar-2014 11:48:25 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS2\20140305-10916.b\14030521.D				
Injection Date:	06-Mar-2014 07:49:30	Instrument ID:	ATMS2		
Lims ID:	320-6369-A-2	Lab Sample ID:	320-6369-2		
Client ID:	34000549				
Operator ID:	LHS	ALS Bottle#:	15	Worklist Smp#:	22
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1

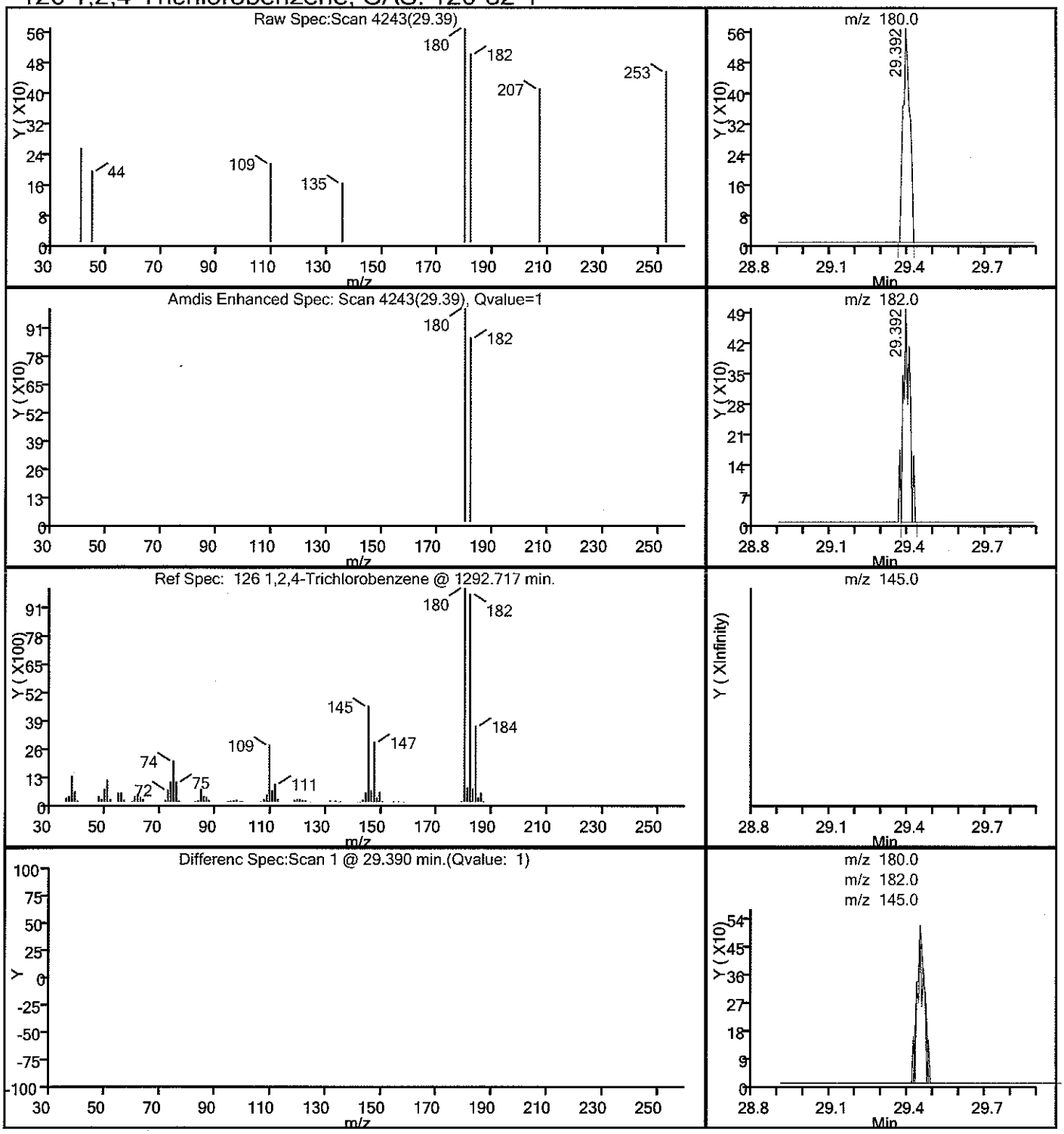


Report Date: 06-Mar-2014 11:48:25 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS2\20140305-10916.b\14030521.D				
Injection Date:	06-Mar-2014 07:49:30	Instrument ID:	ATMS2		
Lims ID:	320-6369-A-2	Lab Sample ID:	320-6369-2		
Client ID:	34000549				
Operator ID:	LHS	ALS Bottle#:	15	Worklist Smp#:	22
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

126 1,2,4-Trichlorobenzene, CAS: 120-82-1



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6369-1

SDG No.:

Client Sample ID: 34001306 | Lab Sample ID: 320-6369-3

Matrix: Air | Lab File ID: 14030522.D

Analysis Method: TO-15 | Date Collected: 02/27/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/06/2014 08:45

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 37696 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	1.2		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	0.15	J	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	1.1	J	2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

FORM I TO-15

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS2\20140305-10916.b\14030522.D				
Lims ID:	320-6369-A-3	Lab Sample ID:	320-6369-3		
Client ID:	34001306				
Sample Type:	Client				
Inject. Date:	06-Mar-2014 08:45:30	ALS Bottle#:	16	Worklist Smp#:	23
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-6369-A-3				
Misc. Info.:	500 mL CAN 34001306				
Operator ID:	LHS	Instrument ID:	ATMS2		
Method:	\\SACCHROM\ChromData\ATMS2\20140305-10916.b\TO15_ATMS2N.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	06-Mar-2014 11:39:40	Calib Date:	21-Feb-2014 12:00:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS2\20140220-10651.b\14022023.D				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				

First Level Reviewer: leeh Date: 06-Mar-2014 11:36:22

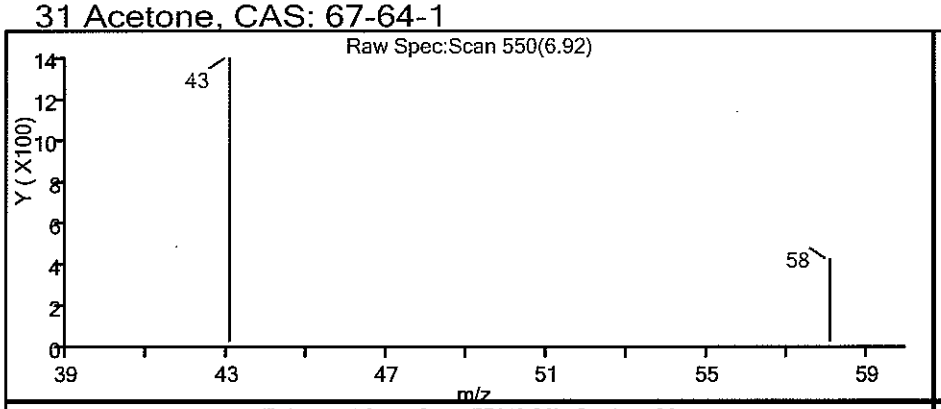
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.512	11.512	0.0	82	41587	3.87	
* 2 1,4-Difluorobenzene	114	13.611	13.611	0.0	97	168472	3.99	
* 3 Chlorobenzene-d5 (IS)	117	20.248	20.248	0.0	89	141095	3.99	
4 1,2-Dichloroethane-d4 (Surr)	65	12.674	12.680	-0.006	97	68131	3.79	
$ 5 Toluene-d8 (Surr)	100	16.945	16.945	0.001	94	105654	4.05	
$ 6 4-Bromofluorobenzene (Surr)	174	22.827	22.827	0.0	88	81669	3.61	
14 Propene	41	3.810	3.810	0.0	90	1288	0.0694	
31 Acetone	43	6.925	6.895	0.030	66	4530	0.2405	
85 Toluene	91	17.127	17.121	0.006	59	5766	0.1515	
126 1,2,4-Trichlorobenzene	180	29.385	29.398	-0.013	1	957	1.12	
127 Naphthalene	128	29.836	29.836	0.0	1	1091	1.23	

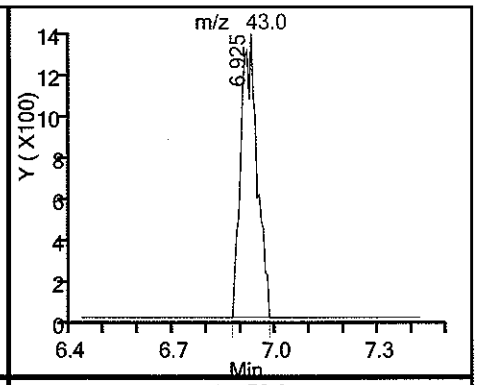
Report Date: 06-Mar-2014 11:48:26 Chrom Revision: 2.1 15-Jan-2014 14:06:26

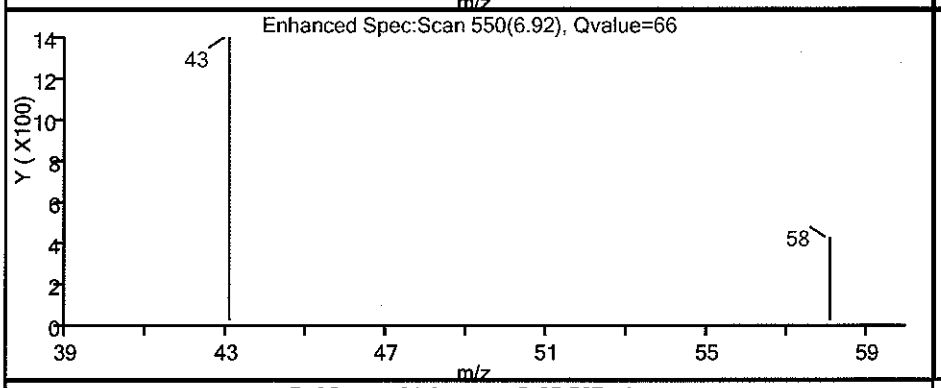
TestAmerica Sacramento

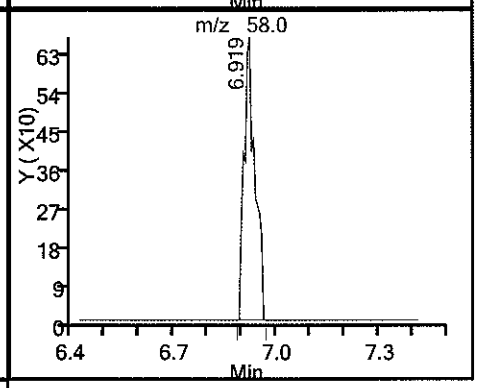
Data File:	\\SACCHROM\ChromData\ATMS2\20140305-10916.b\14030522.D				
Injection Date:	06-Mar-2014 08:45:30	Instrument ID:	ATMS2		
Lims ID:	320-6369-A-3	Lab Sample ID:	320-6369-3		
Client ID:	34001306				
Operator ID:	LHS	ALS Bottle#:	16	Worklist Smp#:	23
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

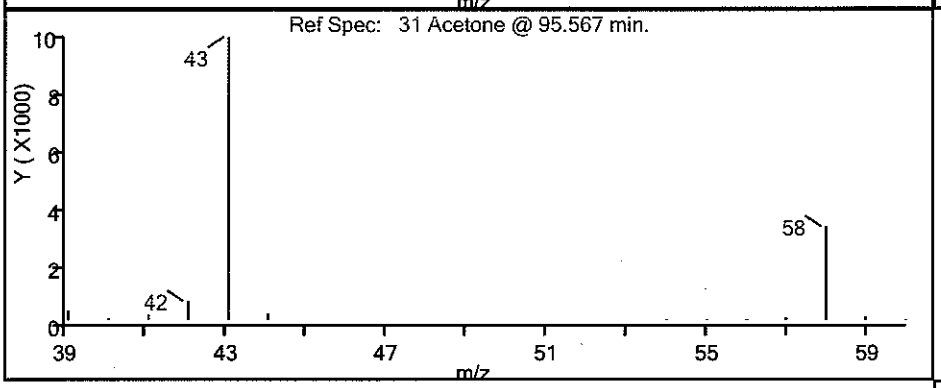
31 Acetone, CAS: 67-64-1

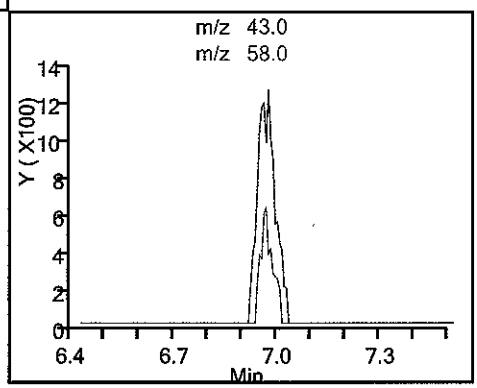










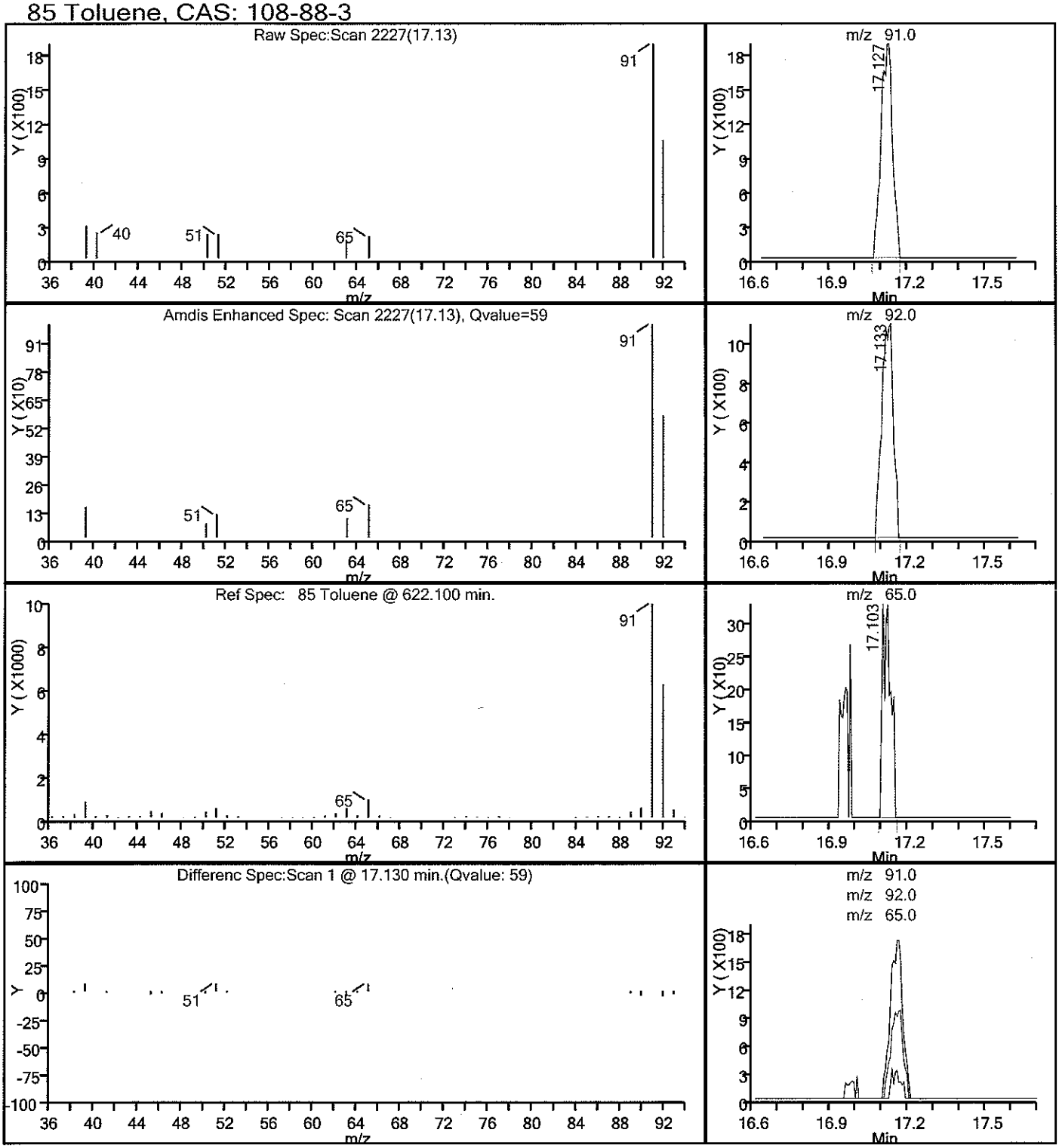


Report Date: 06-Mar-2014 11:48:26 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS2\20140305-10916.b\14030522.D				
Injection Date:	06-Mar-2014 08:45:30	Instrument ID:	ATMS2		
Lims ID:	320-6369-A-3	Lab Sample ID:	320-6369-3		
Client ID:	34001306				
Operator ID:	LHS	ALS Bottle#:	16	Worklist Smp#:	23
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

85 Toluene, CAS: 108-88-3



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6369-1

SDG No.:

Client Sample ID: 34000087 | Lab Sample ID: 320-6369-4

Matrix: Air | Lab File ID: 14030523.D

Analysis Method: TO-15 | Date Collected: 02/27/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/06/2014 09:40

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 37696 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.67	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-6369-1

SDG No.:

Client Sample ID: 34000087 Lab Sample ID: 320-6369-4

Matrix: Air Lab File ID: 14030523.D

Analysis Method: TO-15 Date Collected: 02/27/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/06/2014 09:40

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37696 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

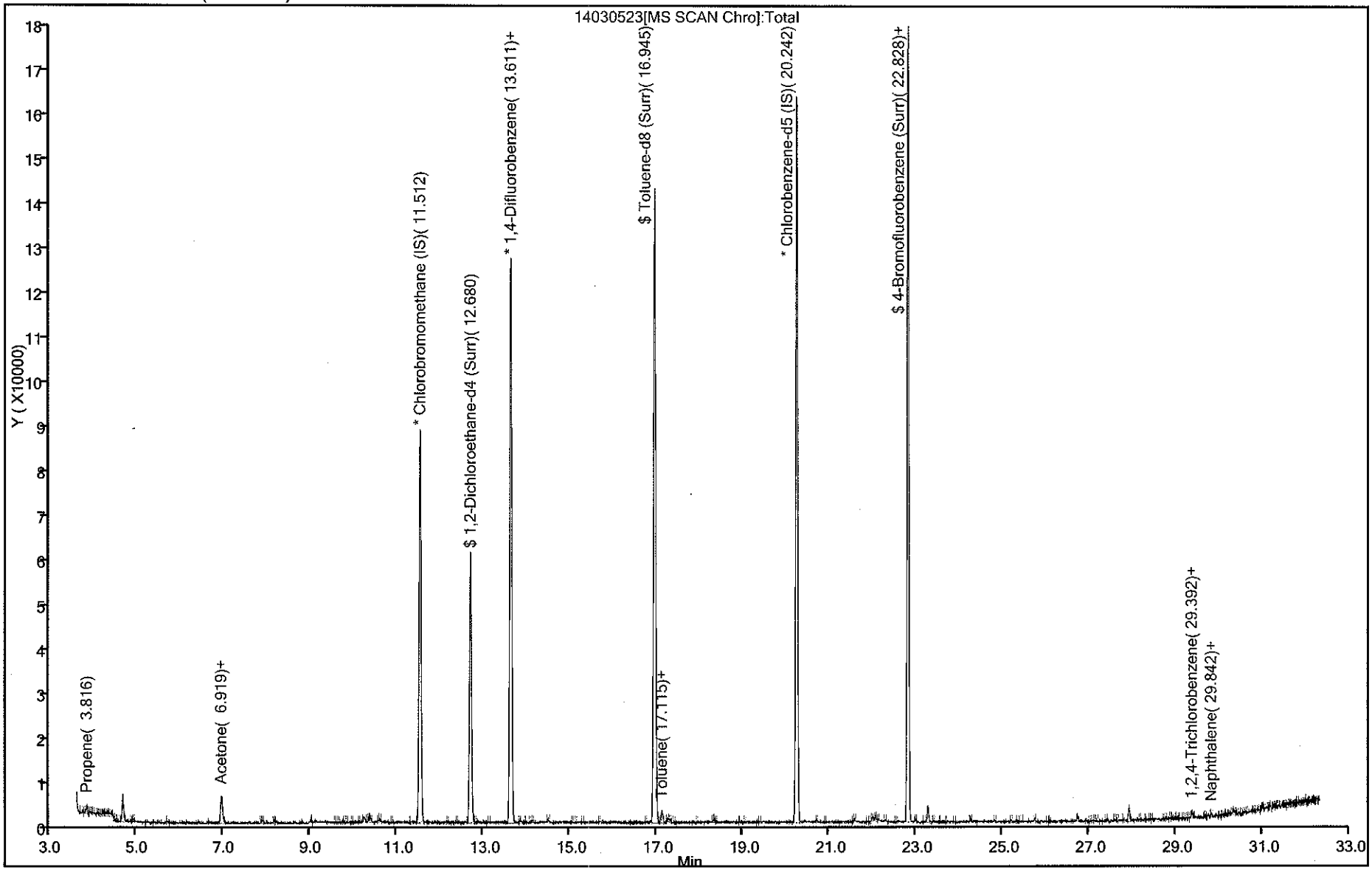
Report : 06-Mar-2014 11:48:27 Chrom Revision: 2.1 n-2014 14:06:26

TestAmerica Sacramento

Data File: \\SACCHROM\ChromData\ATMS2\20140305-10916.b\14030523.D

Injection Date:	06-Mar-2014 09:40:30	Instrument ID:	ATMS2	Operator ID:	LHS
Lims ID:	320-6369-A-4	Lab Sample ID:	320-6369-4	Worklist Smp#:	24
Client ID:	34000087				
Purge Vol:	250.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

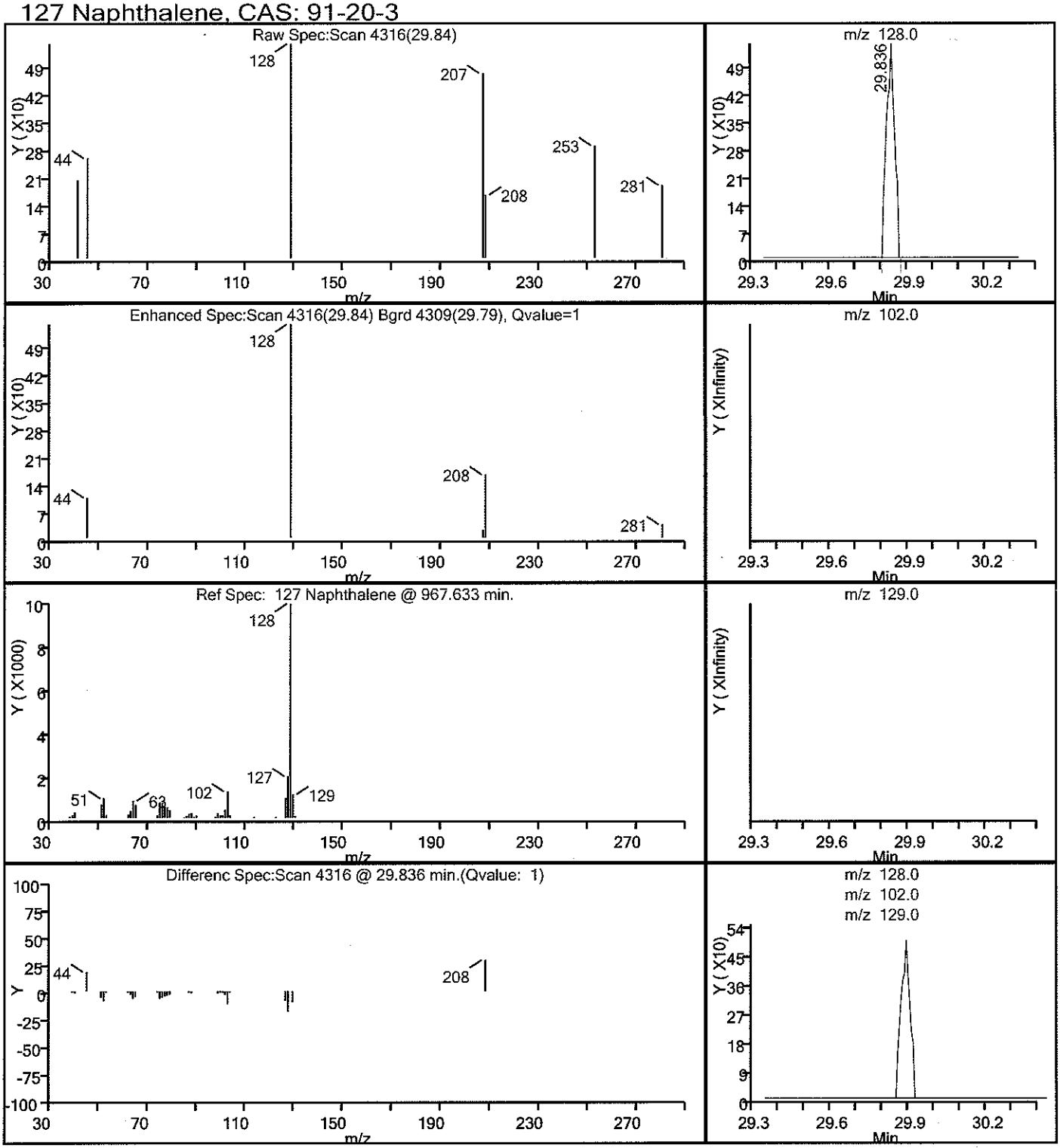


Report Date: 06-Mar-2014 11:48:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS2\20140305-10916.b\14030523.D				
Injection Date:	06-Mar-2014 09:40:30	Instrument ID:	ATMS2		
Lims ID:	320-6369-A-4	Lab Sample ID:	320-6369-4		
Client ID:	34000087				
Operator ID:	LHS	ALS Bottle#:	1	Worklist Smp#:	24
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

127 Naphthalene, CAS: 91-20-3

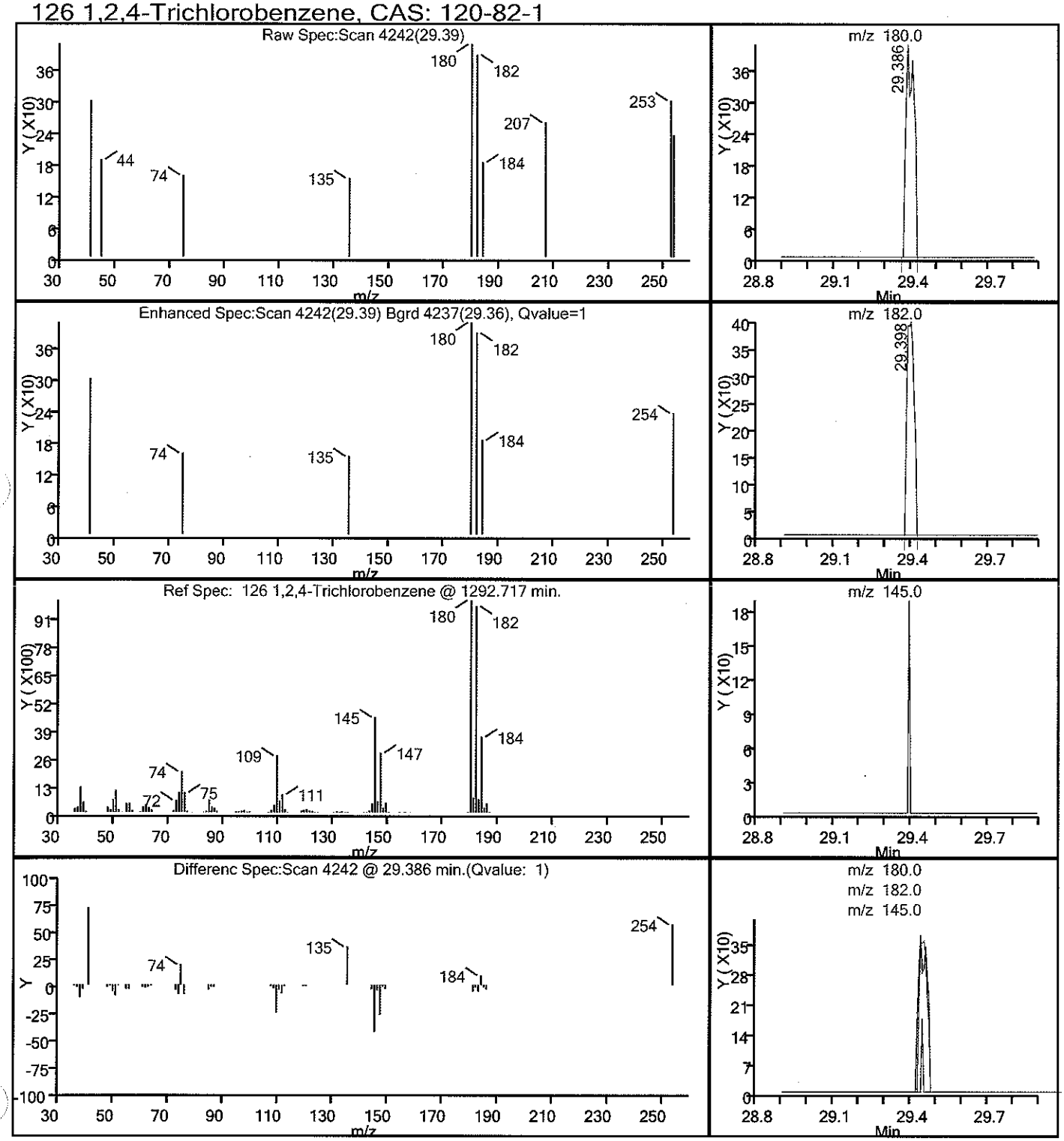


Report Date: 06-Mar-2014 11:48:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS2\20140305-10916.b\14030523.D				
Injection Date:	06-Mar-2014 09:40:30	Instrument ID:	ATMS2		
Lims ID:	320-6369-A-4	Lab Sample ID:	320-6369-4		
Client ID:	34000087				
Operator ID:	LHS	ALS Bottle#:	1	Worklist Smp#:	24
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

126 1,2,4-Trichlorobenzene, CAS: 120-82-1



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6369-1

SDG No.:

Client Sample ID: 34000425 | Lab Sample ID: 320-6369-5

Matrix: Air | Lab File ID: 14030424.D

Analysis Method: TO-15 | Date Collected: 02/27/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/05/2014 09:34

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 37602 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	1.1	J	2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

FORM I TO-15

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS2\20140304-10892.b\14030424.D				
Lims ID:	320-6369-A-5	Lab Sample ID:	320-6369-5		
Client ID:	34000425				
Sample Type:	Client				
Inject. Date:	05-Mar-2014 09:34:30	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-6369-A-5				
Misc. Info.:	500 mL CAN 34000425				
Operator ID:	LHS	Instrument ID:	ATMS2		
Method:	\\SACCHROM\ChromData\ATMS2\20140304-10892.b\TO15_ATMS2N.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	06-Mar-2014 01:55:14	Calib Date:	21-Feb-2014 12:00:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS2\20140220-10651.b\14022023.D				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				

First Level Reviewer: leeh Date: 06-Mar-2014 07:31:30

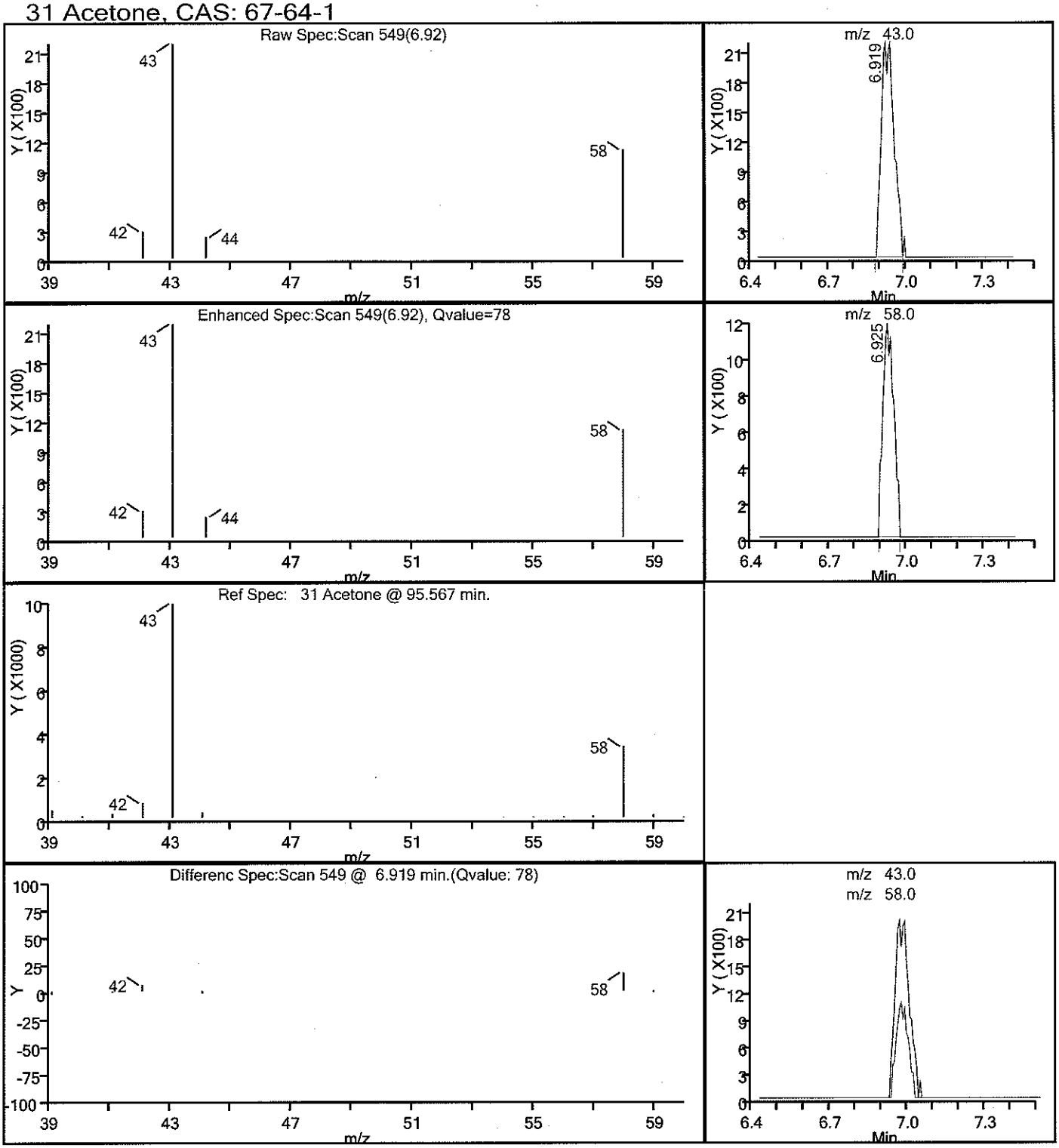
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.512	11.512	0.0	82	40629	3.87	
* 2 1,4-Difluorobenzene	114	13.617	13.611	0.006	96	161632	3.99	
* 3 Chlorobenzene-d5 (IS)	117	20.248	20.248	0.0	90	134735	3.99	
4 1,2-Dichloroethane-d4 (Surr)	65	12.680	12.680	0.0	98	66246	3.84	
$ 5 Toluene-d8 (Surr)	100	16.945	16.945	0.0	95	100175	4.01	
$ 6 4-Bromofluorobenzene (Surr)	174	22.827	22.827	0.0	89	79048	3.66	
14 Propene	41	3.804	3.810	-0.006	77	1469	0.0810	
31 Acetone	43	6.919	6.888	0.031	78	7598	0.4129	
126 1,2,4-Trichlorobenzene	180	29.392	29.398	-0.006	1	981	1.12	

Report Date: 06-Mar-2014 07:31:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS2\20140304-10892.b\14030424.D				
Injection Date:	05-Mar-2014 09:34:30	Instrument ID:	ATMS2		
Lims ID:	320-6369-A-5	Lab Sample ID:	320-6369-5		
Client ID:	34000425				
Operator ID:	LHS	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6369-1

SDG No.:

Client Sample ID: 34001590 | Lab Sample ID: 320-6369-6

Matrix: Air | Lab File ID: 14030717.D

Analysis Method: TO-15 | Date Collected: 02/27/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/08/2014 05:09

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 37916 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.37	J B	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-6369-1

SDG No.:

Client Sample ID: 34001590 Lab Sample ID: 320-6369-6

Matrix: Air Lab File ID: 14030717.D

Analysis Method: TO-15 Date Collected: 02/27/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/08/2014 05:09

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37916 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

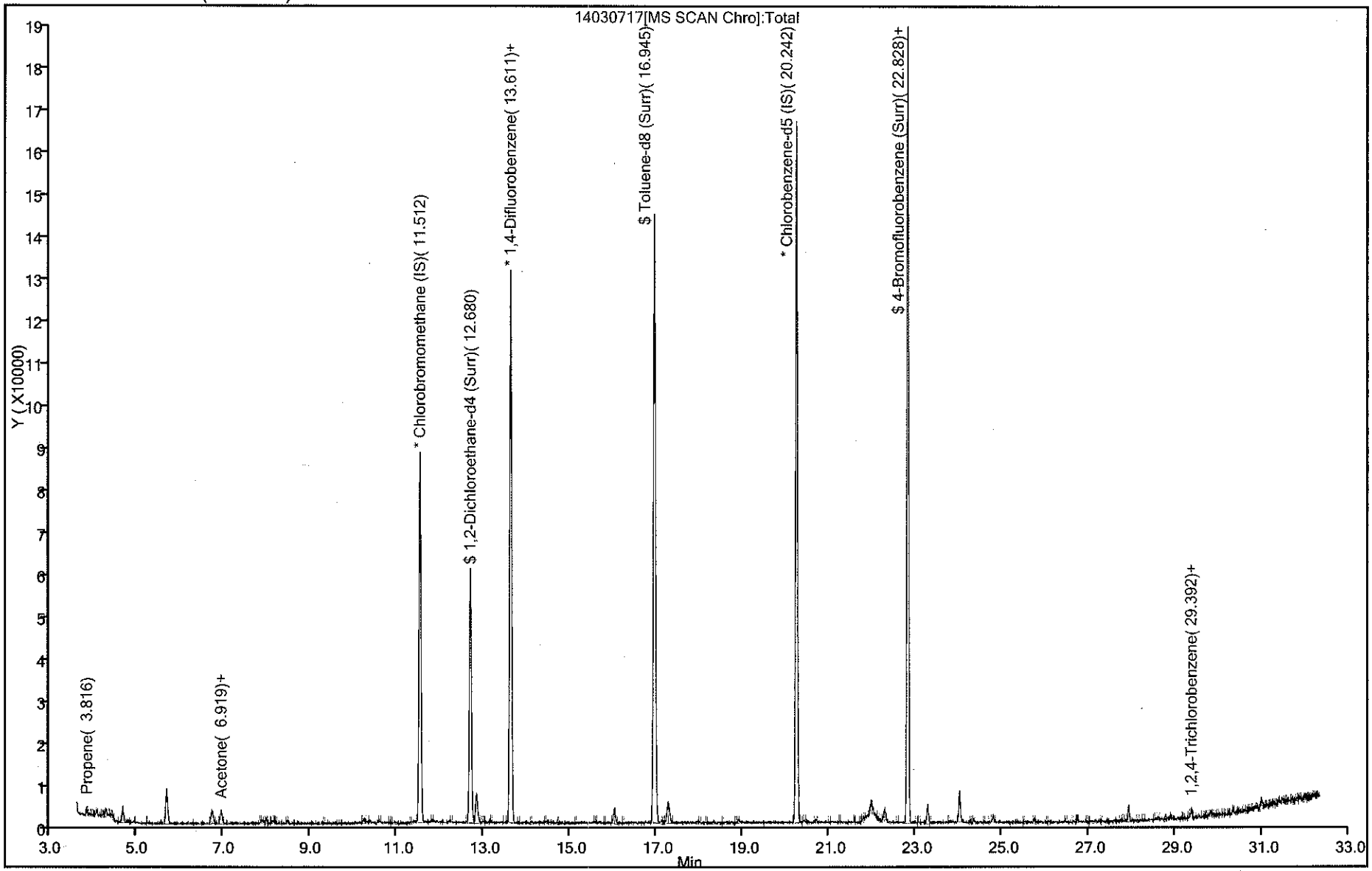
CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

Report : 12-Mar-2014 11:21:30 Chrom Revision: 2.2 eb-2014 15:12:04

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS2\20140307-10992.b\14030717.D				
Injection Date:	08-Mar-2014 05:09:30	Instrument ID:	ATMS2	Operator ID:	LHS
Lims ID:	320-6369-A-6	Lab Sample ID:	320-6369-6	Worklist Smp#:	16
Client ID:	34001590				
Purge Vol:	250.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

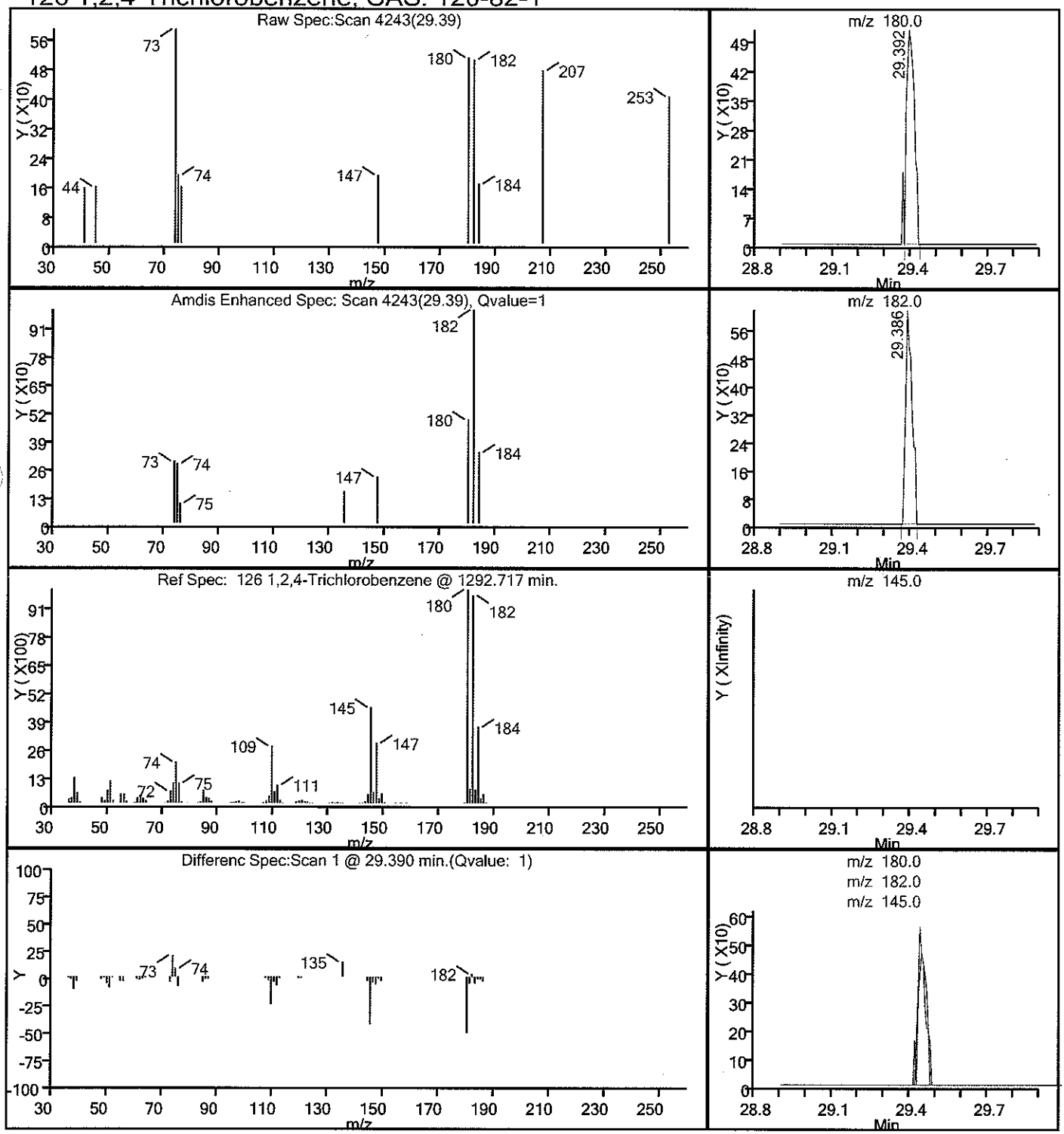


Report Date: 12-Mar-2014 11:21:30 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS2\20140307-10992.b\14030717.D				
Injection Date:	08-Mar-2014 05:09:30	Instrument ID:	ATMS2		
Lims ID:	320-6369-A-6	Lab Sample ID:	320-6369-6		
Client ID:	34001590				
Operator ID:	LHS	ALS Bottle#:	13	Worklist Smp#:	16
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

126 1,2,4-Trichlorobenzene, CAS: 120-82-1



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6369-1

SDG No.:

Client Sample ID: 34000608 | Lab Sample ID: 320-6369-7

Matrix: Air | Lab File ID: 14030718.D

Analysis Method: TO-15 | Date Collected: 02/27/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/08/2014 06:01

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 37916 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	1.1	J B	2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

FORM I TO-15

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS2\20140307-10992.b\14030718.D				
Lims ID:	320-6369-A-7	Lab Sample ID:	320-6369-7		
Client ID:	34000608				
Sample Type:	Client				
Inject. Date:	08-Mar-2014 06:01:30	ALS Bottle#:	14	Worklist Smp#:	17
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-6369-A-7				
Misc. Info.:	500 mL CAN 34000608				
Operator ID:	LHS	Instrument ID:	ATMS2		
Method:	\\SACCHROM\ChromData\ATMS2\20140307-10992.b\TO15_ATMS2N.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	12-Mar-2014 11:21:16	Calib Date:	21-Feb-2014 12:00:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS2\20140220-10651.b\14022023.D				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK020				

First Level Reviewer: leeh Date: 12-Mar-2014 11:17:32

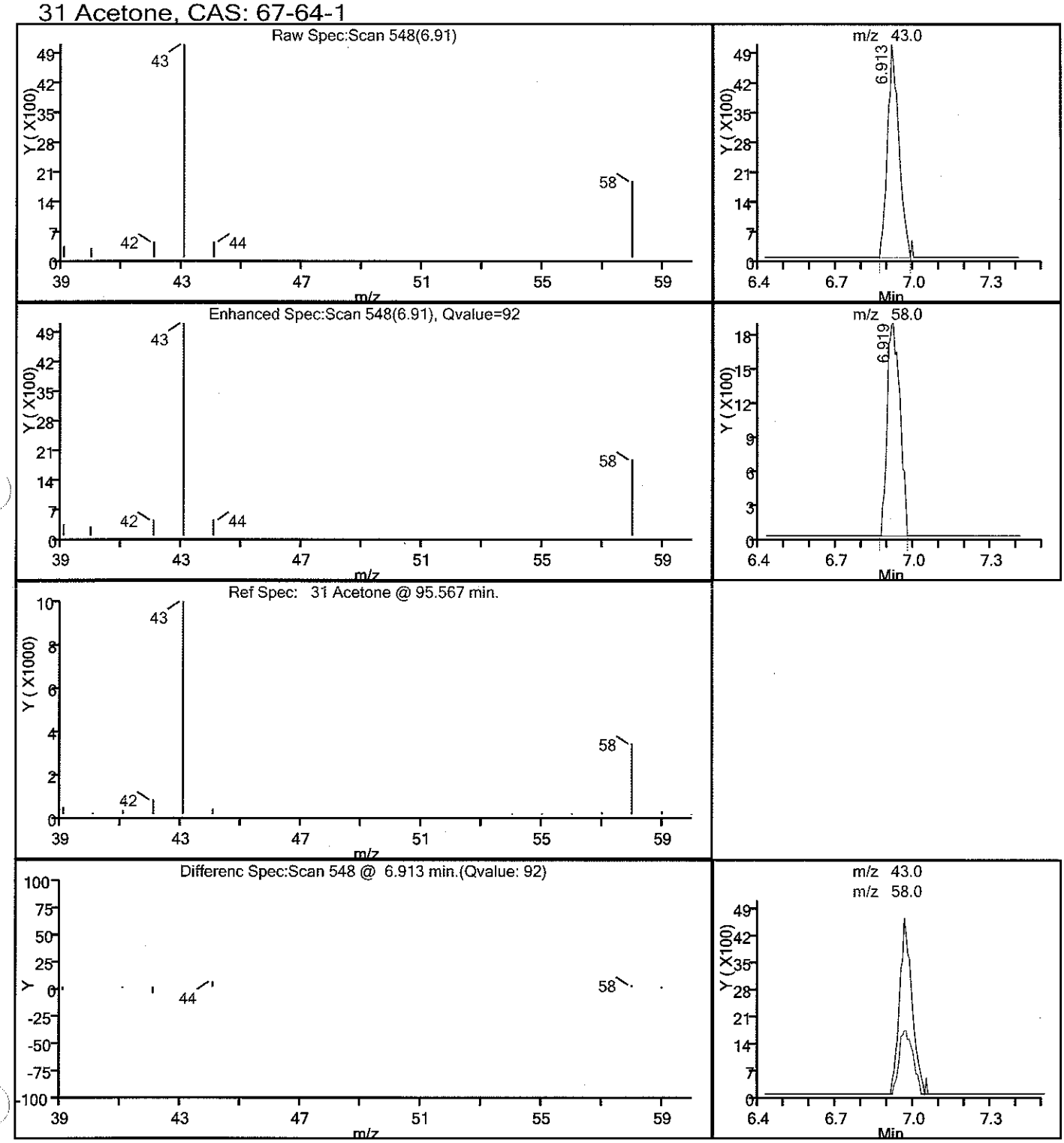
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.512	11.512	0.0	81	39654	3.87	
* 2 1,4-Difluorobenzene	114	13.611	13.617	-0.006	97	157654	3.99	
* 3 Chlorobenzene-d5 (IS)	117	20.242	20.248	-0.006	90	131203	3.99	
4 1,2-Dichloroethane-d4 (Surr)	65	12.680	12.680	0.0	97	64268	3.82	
$ 5 Toluene-d8 (Surr)	100	16.945	16.945	0.0	95	97670	4.01	
$ 6 4-Bromofluorobenzene (Surr)	174	22.828	22.827	0.001	88	79999	3.80	
31 Acetone	43	6.913	6.888	0.025	92	15532	0.8649	
54 2-Butanone (MEK)	72	10.575	10.532	0.043	61	210	0.0574	
126 1,2,4-Trichlorobenzene	180	29.404	29.398	0.006	1	914	1.12	

Report Date: 12-Mar-2014 11:21:31 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS2\20140307-10992.b\14030718.D				
Injection Date:	08-Mar-2014 06:01:30	Instrument ID:	ATMS2		
Lims ID:	320-6369-A-7	Lab Sample ID:	320-6369-7		
Client ID:	34000608				
Operator ID:	LHS	ALS Bottle#:	14	Worklist Smp#:	17
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-6369-1

SDG No.:

Client Sample ID: 34000847 Lab Sample ID: 320-6369-9

Matrix: Air Lab File ID: 14030720.D

Analysis Method: TO-15 Date Collected: 02/27/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/08/2014 07:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37916 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.57	J B	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	0.28	J	0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-6369-1

SDG No.:

Client Sample ID: 34000847 | Lab Sample ID: 320-6369-9

Matrix: Air | Lab File ID: 14030720.D

Analysis Method: TO-15 | Date Collected: 02/27/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/08/2014 07:45

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 37916 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

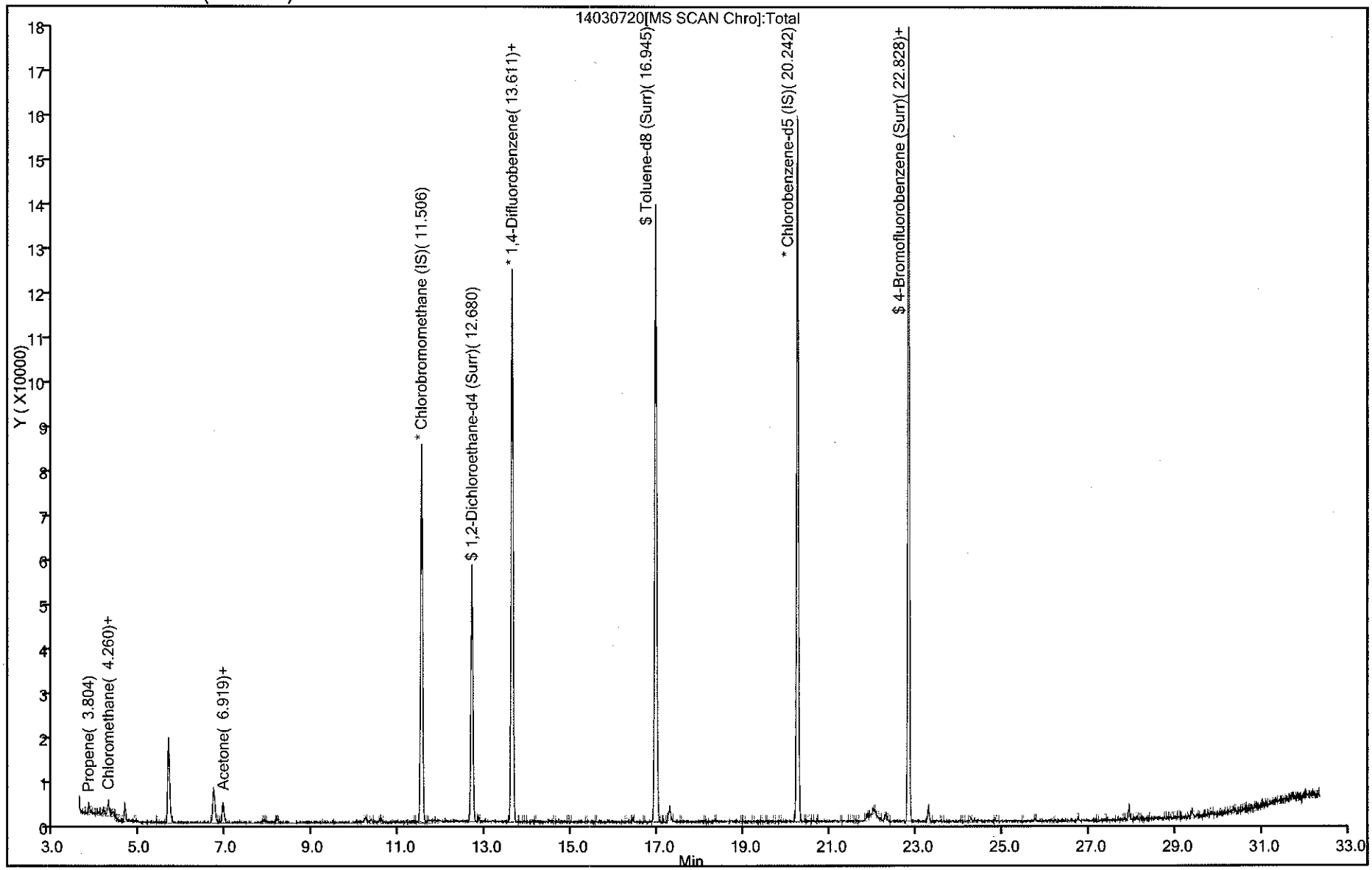
CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

Report Date: 12-Mar-2014 11:21:33 Chrom Revision: 2.2 [illegible]eb-2014 15:12:04

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS2\20140307-10992.b\14030720.D				
Injection Date:	08-Mar-2014 07:45:30	Instrument ID:	ATMS2	Operator ID:	LHS
Lims ID:	320-6369-A-9	Lab Sample ID:	320-6369-9	Worklist Smp#:	19
Client ID:	34000847				
Purge Vol:	250.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

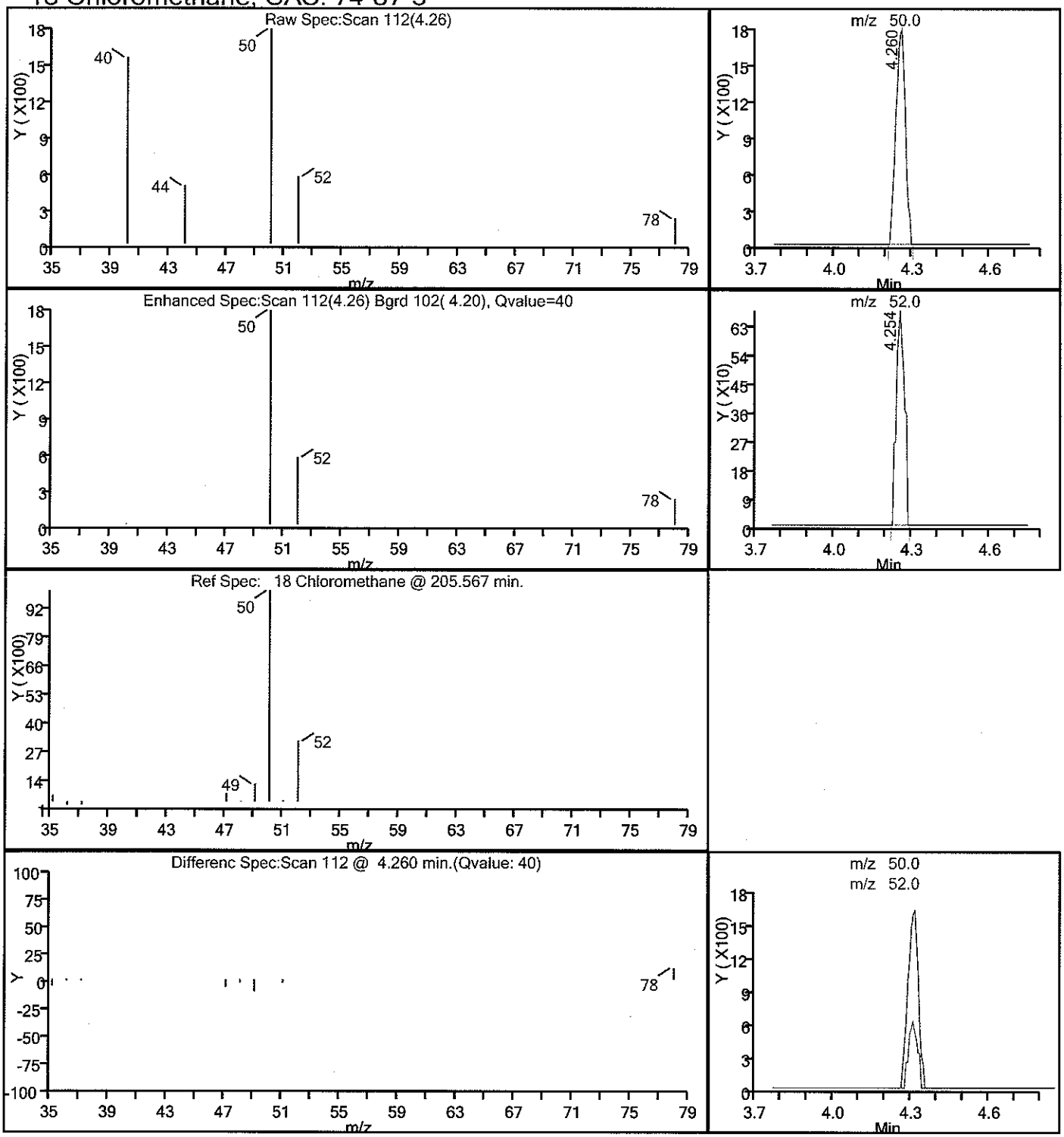


Report Date: 12-Mar-2014 11:21:33 Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS2\20140307-10992.b\14030720.D				
Injection Date:	08-Mar-2014 07:45:30	Instrument ID:	ATMS2		
Lims ID:	320-6369-A-9	Lab Sample ID:	320-6369-9		
Client ID:	34000847				
Operator ID:	LHS	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	250.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS2N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

18 Chloromethane, CAS: 74-87-3



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-7169-1

SDG No.:

Client Sample ID: 34001609 | Lab Sample ID: 320-7169-10

Matrix: Air | Lab File ID: MS7042106.d

Analysis Method: TO-15 | Date Collected: 04/23/2014 00:00

Sample wt/vol: 250(mL) | Date Analyzed: 04/24/2014 19:06

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 41159 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

FORM I TO-15

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS7\20140424-12054.b\MS7042106.d				
Lims ID:	320-7169-A-10	Lab Sample ID:	320-7169-10		
Client ID:	34001609				
Sample Type:	Client				
Inject. Date:	24-Apr-2014 19:06:30	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-7169-10				
Misc. Info.:	500mL; 34001609 Certs				
Operator ID:	AJS	Instrument ID:	ATMS7		
Method:	\\SACCHROM\ChromData\ATMS7\20140424-12054.b\TO15_ATMS7N.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	25-Apr-2014 10:27:01	Calib Date:	08-Apr-2014 16:51:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS7\20140407-11658.b\MS7040804.D				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK028				

First Level Reviewer: ortizam Date: 25-Apr-2014 11:11:57

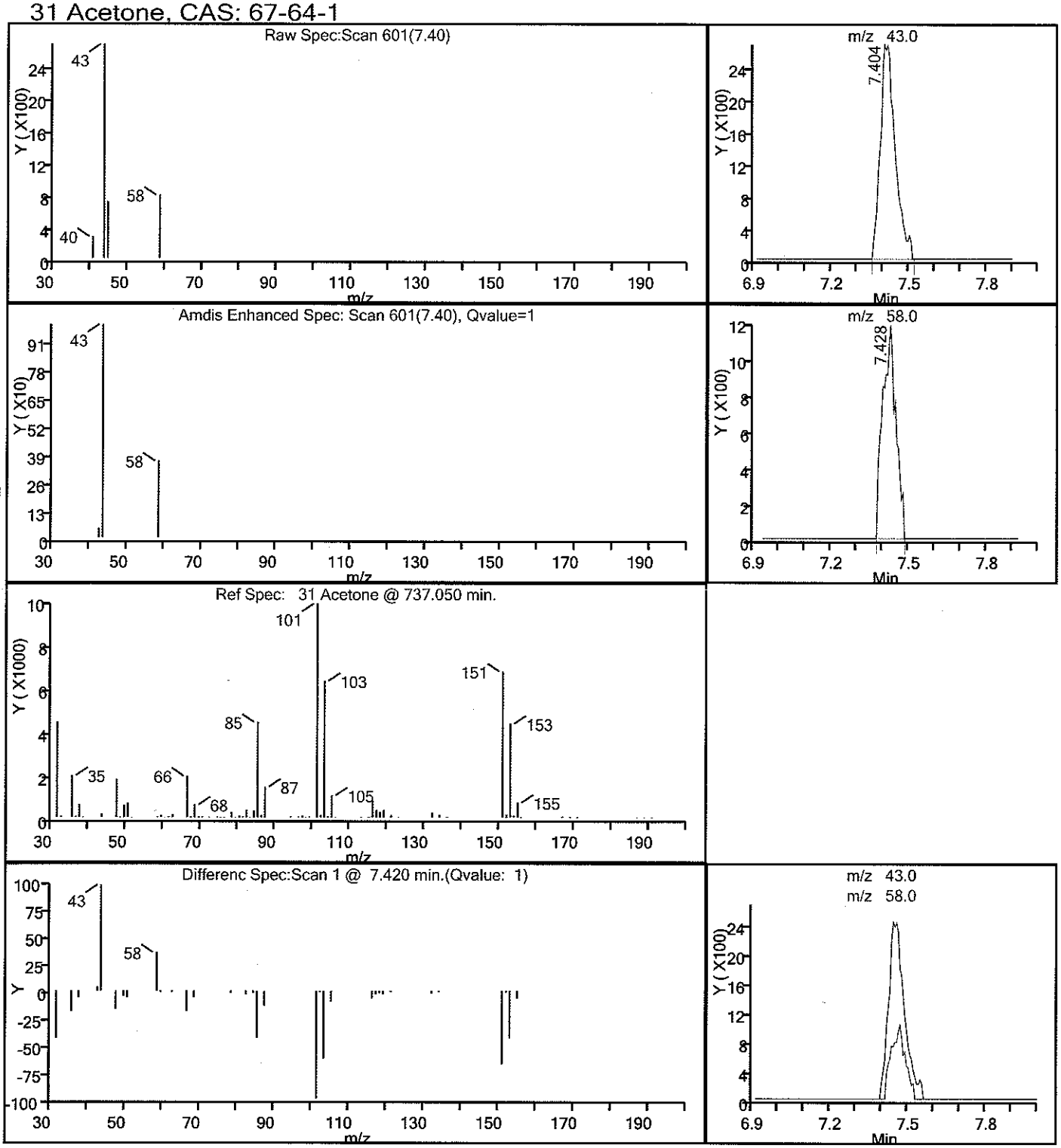
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.174	12.174	0.000	88	35103	3.88	
* 2 1,4-Difluorobenzene	114	14.303	14.303	0.000	89	145298	4.00	
* 3 Chlorobenzene-d5 (IS)	117	21.129	21.153	-0.024	82	119619	4.00	
4 1,2-Dichloroethane-d4 (Sur	65	13.360	13.354	0.006	0	53368	3.73	
$ 5 Toluene-d8 (Surr)	100	17.697	17.716	-0.019	87	87795	4.17	
$ 6 4-Bromofluorobenzene (Surr	95	23.763	23.775	-0.012	89	81317	4.11	
31 Acetone	43	7.404	7.368	0.036	1	10716	0.2818	

Report Date: 25-Apr-2014 11:11:57 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140424-12054.b\MS7042106.d				
Injection Date:	24-Apr-2014 19:06:30	Instrument ID:	ATMS7		
Lims ID:	320-7169-A-10	Lab Sample ID:	320-7169-10		
Client ID:	34001609				
Operator ID:	AJS	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-7237-1

SDG No.:

Client Sample ID: 34001349 | Lab Sample ID: 320-7237-1

Matrix: Air | Lab File ID: MS5042912.D

Analysis Method: TO-15 | Date Collected: 04/28/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 04/30/2014 10:02

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 41414 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

FORM I TO-15

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS5\20140429-12161.b\MS5042912.D				
Lims ID:	320-7237-A-1	Lab Sample ID:	320-7237-1		
Client ID:	34001349				
Sample Type:	Client				
Inject. Date:	30-Apr-2014 10:02:30	ALS Bottle#:	1	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-7237-1				
Misc. Info.:	500mL; 34001349				
Operator ID:	AO	Instrument ID:	ATMS5		
Method:	\\SACCHROM\ChromData\ATMS5\20140429-12161.b\TO15_ATMS5.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	30-Apr-2014 10:59:27	Calib Date:	29-Apr-2014 14:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS5\20140429-12161.b\MS5042904.D				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK005				

First Level Reviewer: ortizam Date: 30-Apr-2014 10:59:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.160	11.160	0.000	93	36938	3.88	
* 2 1,4-Difluorobenzene	114	12.578	12.578	0.000	92	150579	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.775	16.775	0.000	79	128068	4.00	
4 1,2-Dichloroethane-d4 (Sur	65	11.969	11.969	0.000	0	46063	4.00	
$ 5 Toluene-d8 (Surr)	100	14.737	14.737	0.000	92	96633	4.03	
$ 6 4-Bromofluorobenzene (Surr	95	18.406	18.406	0.000	85	80680	3.81	

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-7352-1

SDG No.:

Client Sample ID: 34000895 | Lab Sample ID: 320-7352-1

Matrix: Air | Lab File ID: MS7050609.d

Analysis Method: TO-15 | Date Collected: 05/06/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 05/06/2014 18:43

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 41830 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.31	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-7352-1

SDG No.:

Client Sample ID: 34000895 Lab Sample ID: 320-7352-1

Matrix: Air Lab File ID: MS7050609.d

Analysis Method: TO-15 Date Collected: 05/06/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 05/06/2014 18:43

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 41830 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

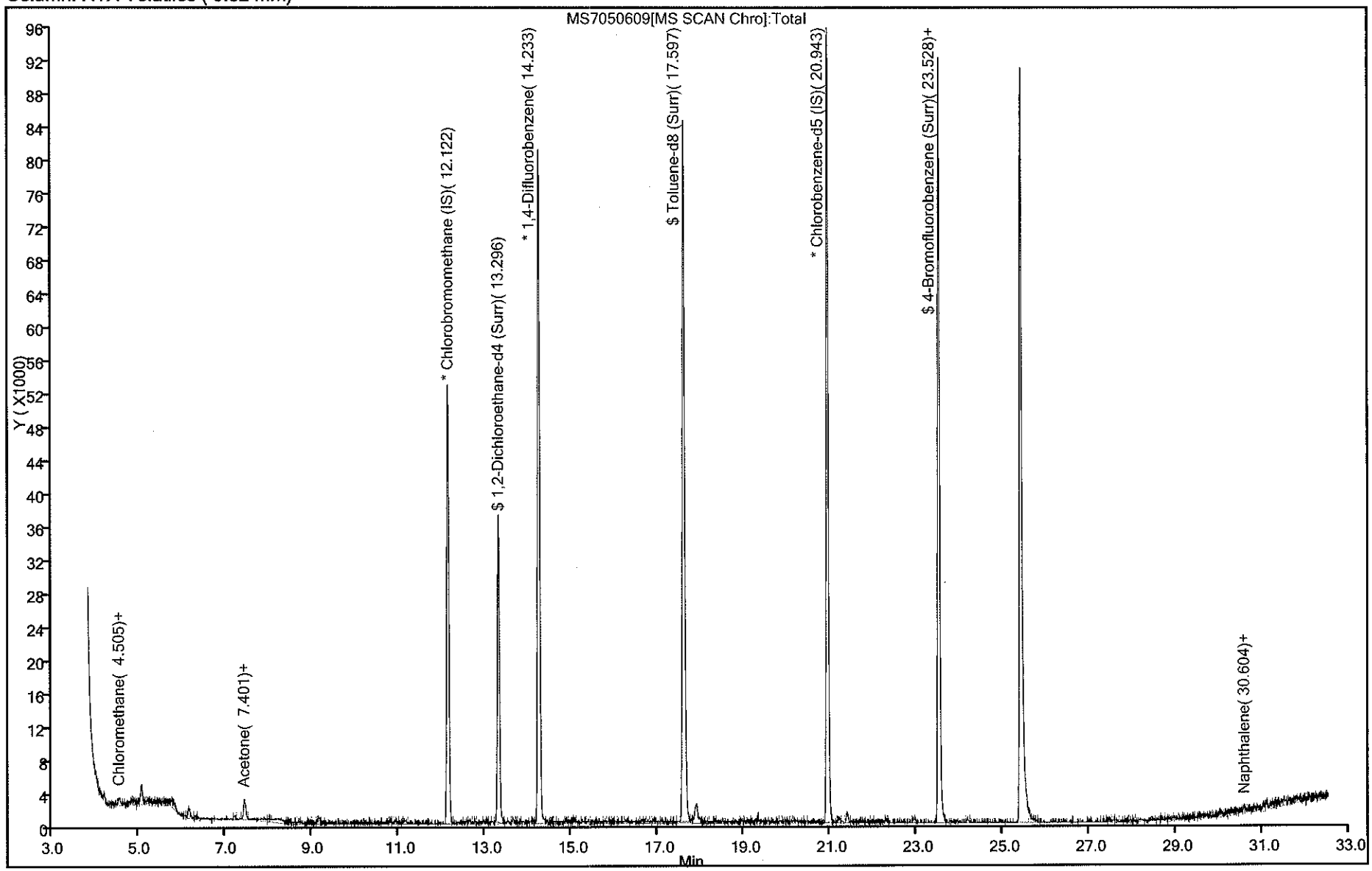
CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	82		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

Report Date: 07-May-2014 08:47:02 Chrom Revision: 2.2 [illegible]pr-2014 13:40:08

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140506-12308.b\MS7050609.d				
Injection Date:	06-May-2014 18:43:30	Instrument ID:	ATMS7	Operator ID:	gg
Lims ID:	320-7352-A-1	Lab Sample ID:	320-7352-1	Worklist Smp#:	16
Client ID:	34000895				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



5/30/2014

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-7352-1

SDG No.:

Client Sample ID: 34001299 | Lab Sample ID: 320-7352-2

Matrix: Air | Lab File ID: MS7050610.d

Analysis Method: TO-15 | Date Collected: 05/06/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 05/06/2014 19:38

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 41830 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	ND		5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-7352-1

SDG No.:

Client Sample ID: 34001299 | Lab Sample ID: 320-7352-2

Matrix: Air | Lab File ID: MS7050610.d

Analysis Method: TO-15 | Date Collected: 05/06/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 05/06/2014 19:38

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 41830 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

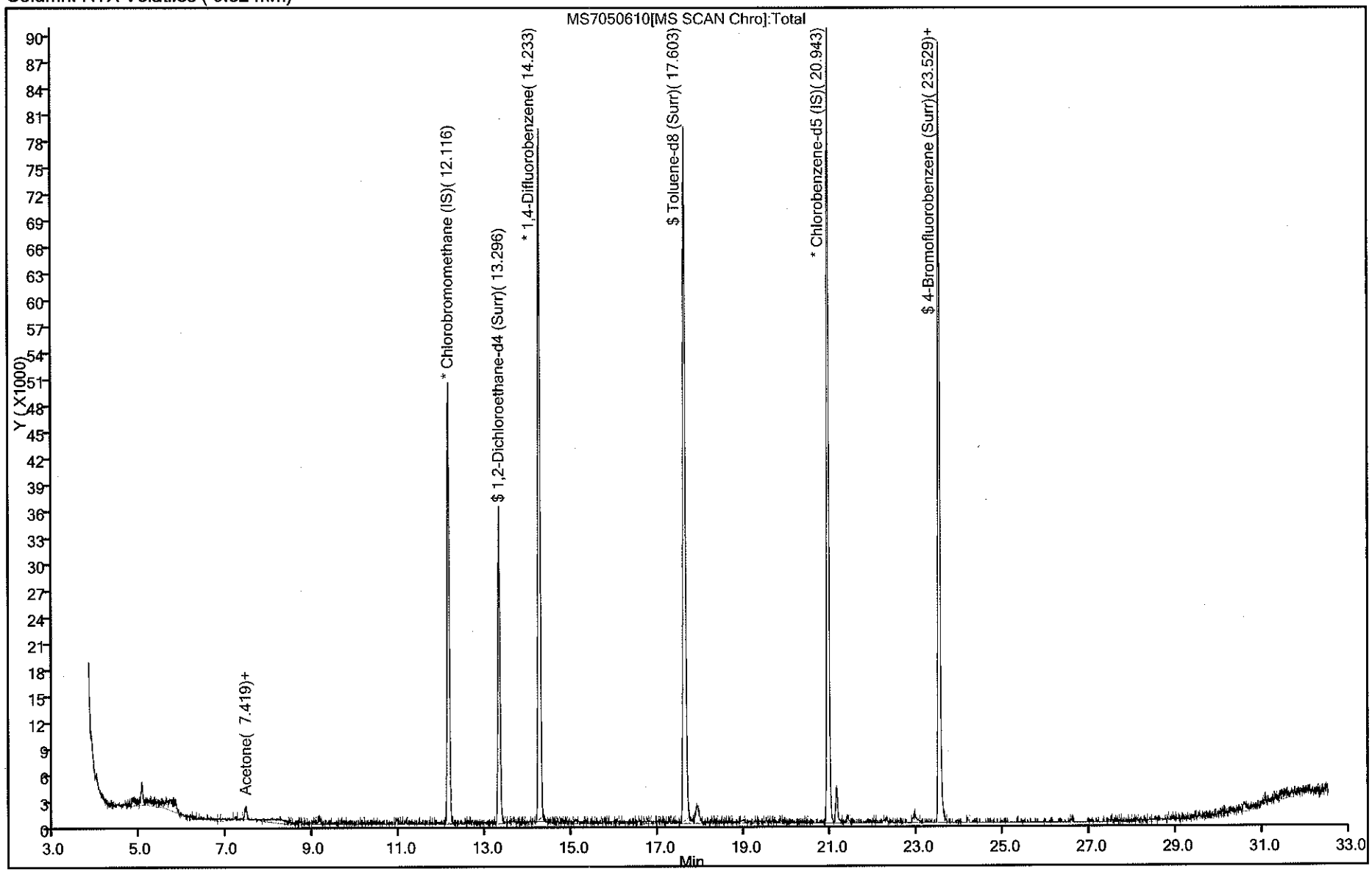
Report : 06-May-2014 20:27:52 Chrom Revision: 2.2 pr-2014 13:40:08

TestAmerica Sacramento

Data File: \\SACCHROM\ChromData\ATMS7\20140506-12308.b\MS7050610.d

Injection Date:	06-May-2014 19:38:30	Instrument ID:	ATMS7	Operator ID:	gg
Lims ID:	320-7352-A-2	Lab Sample ID:	320-7352-2	Worklist Smp#:	15
Client ID:	34001299				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



5/30/2014

15

Appendix B

Photographic Log

URS

PHOTOGRAPHIC LOG

Client Name:	Sample Location: Building 1A	Project No.
El Paso / KM		41011691.05019

Photo No.	Date:
1	5/16/14

Description:
Evacuated stainless-steel canister and flow controller used to collect 8-hour indoor air sample in Building 1A break room. Canister was placed on window shelf to minimize disruption to building occupants.

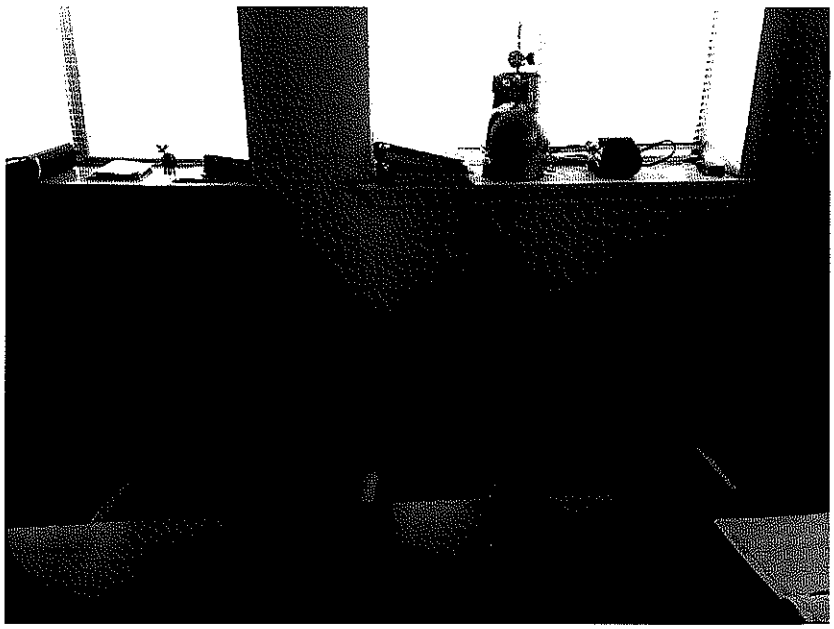


Photo No.	Date:
2	5/16/14

Description:
Evacuated, stainless-steel canisters with flow controllers prior to deployment. The vacuum within each canister was measured in the field prior to the start of sampling.

URS

PHOTOGRAPHIC LOG

Client Name:	Building 1A – Storage/Warehouse Area	Project No.
El Paso / KM		41011691.05019

Photo No.	Date:
3	5/16/14

Description:
View of 24-hr summa canister on top of storage cabinet in the Warehouse Area.

Photo No.	Date:
4	5/16/14

Description:
Close-up view of duplicate canisters in Building 1A – Warehouse Area.

URS

PHOTOGRAPHIC LOG

Client Name:	Building 6	Project No.
El Paso / KM		41011691.05019

Photo No.	Date:
5	5/16/14

Description:
Duplicate samples collected atop refrigerator in break room.

Potential indoor emission sources were not removed prior to sampling. Spray can of "HEB Fresh Linen" is atop refrigerator near the canisters.

Photo No.	Date:
6	5/16/14

Description:
Sample collected in open work area. Canister was placed on shelving to minimize disruption to building occupants.

Differential pressure across the slab was also measured at a port located a few feet to the right of the canister.

URS

PHOTOGRAPHIC LOG

Client Name:	Building 7	Project No.
Paso / KM		41011691.05019

Photo No.	Date:
7	5/16/14

Description:
Laundry room in Building 7. Canister located on boot drying rack.

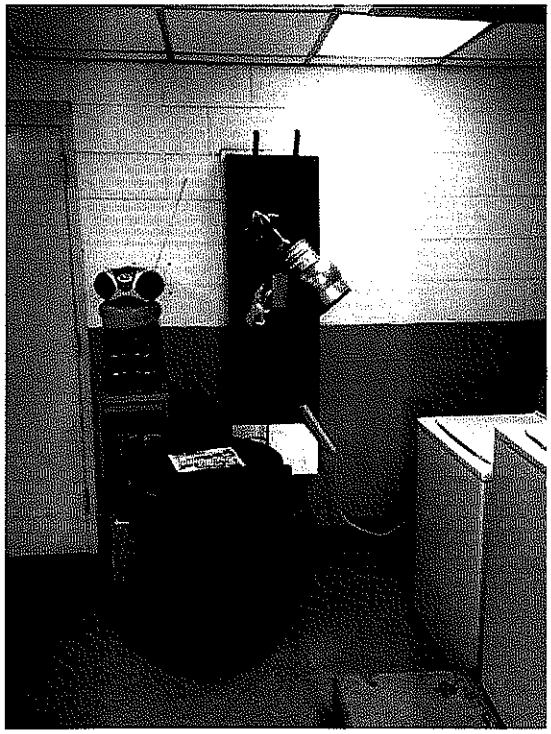


Photo No.	Date:
8	5/16/14

Description:
Change room in Building 7. Canister attached to clothing rack.