

**National Air Toxics Trends Stations
(NATTS)
Proficiency Testing Program**

**200503 Data Report
(3rd Quarter)**

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For

**U.S. Environmental Protection Agency
Office of Air Quality Planning and Standards
Research triangle Park, North Carolina 27711**

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Forward

This report is being submitted in compliance with the requirements of Work Assignment 3.01 of Contract 68-D-03-006 and summarizes the data compiled during the Proficiency Tests conducted during the third quarter of 2005. This data should be used by individuals outside of this program only after verifying its applicability.

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Acronym List

EPA	U.S. Environmental Protection Agency
DNPH	Dinitrophenylhydrazine
ERG	Eastern Research Group
NATTS	National Air Toxics Trends Stations
OAQPS	Office of Air Quality Planning and Standards
PE	Performance Evaluation
PT	Proficiency Test
RTP	Research Triangle Park, North Carolina
VOC	Volatile Organic Compound(s)

Executive Summary

The Environmental Protection Agency has established a long-term goal of eliminating unacceptable health risks associated with exposure to the emission of air toxics and to substantially reduce or eliminate the adverse effects of air toxics on the environment.

As an aid in attaining this goal, EPA has established a National Air Toxics Trends Network in the contiguous 48 states. The network consists of 22 sampling stations operated by state and/or local agencies. In order to provide an estimate of the quality of data collected in NATTS, EPA has undertaken a Proficiency Testing Program for those laboratories that perform analyses on the collected samples.

Alion Science and Technology has been given the task of preparing and distributing the PT samples to the NATTS laboratories. Three separate types of PT Sample were prepared, namely Carbonyl, VOC and Metals.

A data system has been developed for use in tracking individual results and to simplify any correlation of PT data with the actual sampling data from the NATTS stations. Each sampling agency has been assigned a unique number the EPA Region in which the site is located and the agency operating it.

Lab Code	NATTS Site	Lab Code	NATTS Site
01-01	Providence, RI	05-03	Mayville, WI
01-02	Chittenden, VT	06-01	Houston & Harrison, TX
01-03	Roxbury, MA	07-01	St. Louis, MO
01-04	EPA Region 1 Laboratory	08-01	Bountiful, UT
02-01	Rochester and Queens, NY	09-01	San Jose, CA
03-01	Washington, DC	09-02	Phoenix, AZ
04-01	Tampa, FL	10-01	Seattle, WA
04-02	Chesterfield, SC	10-02	La Grande, OR
04-03	Hazard, KY	11-01*	ERG-RTP, NC
04-04	Atlanta, GA		
05-01	Detroit, MI		
05-02	Chicago, IL		

* **ERG serves as the analytical laboratory for several agencies**

Since the various agencies may utilize a different laboratory to analyze each of the three types of PT samples, a dash and a letter was added to the end of the lab code to identify the analytical laboratory.

- C signifies a Carbonyl Study analytical laboratory
- V identifies a laboratory used to analyze VOC samples
- M is a Metals laboratory.

The carbonyl samples consisted of one sampling cartridge, spiked with a known amount of formaldehyde, acetaldehyde and acetone. Participants in the study were asked to analyze this sample in their “normal” manner and report results as ug/cartridge.

Each participating laboratory supplied Alion with a cleaned VOC canister which was then filled with a mixture of target VOC compounds. It is assumed that any errors in the canister cleaning process will be laboratory specific and will show up as contamination in the overall laboratory results.

In the past, Metals Samples consisted of Teflon filters impregnated with known amounts of the eight metals of interest. Since many of the NATTS laboratories do not use Teflon filters when sampling, participation in the Metals PT study was low. Accordingly, the 200503-M samples were prepared on quartz filters.

After analyzing the samples, participating laboratories sent their results to Alion and a PE Report was generated for each lab. The report shows the percent difference between the submitted results and the “True value”. EPA established a “Warning Limit” of +/- 20% for all compounds/elements. The upper limit was set at +/- 25%.

A graph was also generated which shows a laboratory’s performance compared to the other laboratories, as well as to the “True value”. These reports were emailed to personnel at the sampling agency, the analytical laboratory and to the appropriate EPA personnel. The Work Assignment Manager was also given a report showing graphically how the laboratories’ results compared to the Study Mean. Copies of these reports can be found in the appendices.

Originally, the studies were designed to include NIST analysis of two samples from each individual study. Two samples were sent to NIST as part of the Metals and VOC studies. As of this date, no results have been received from NIST

Carbonyl Study Results

(200503-C)

The Carbonyl Study was again delayed due to unavailability of cartridges. Samples were shipped to participating laboratories, via FedEx Air, on October 21st and the closing date was set for November 15th. The cartridges used during this study were spiked with formaldehyde, acetaldehyde and acetone. Seventeen laboratories returned results. One of these laboratories did not report any results for acetone. However, the two laboratories not reporting acetone for the 200502-C Study did report results for this study.

The following tables show the results submitted by the participating laboratories for the three spiked compounds.

Formaldehyde

Lab Code	Reported	% Difference	Evaluation
01-01-C	0.90	1.1	
01-02-C	0.89	0.0	
01-03-C	0.77	-13.5	
01-04-C	0.96	7.9	
02-01-C	0.93	4.5	
03-01-C	0.73	-18.0	
04-02-C	0.88	-1.1	
04-03-C	0.73	-18.0	
04-04-C	1.16	30.3	>25%
05-01-C	0.88	-1.2	
05-02-C	0.77	-13.5	
05-03-C	0.92	3.4	
06-01-C	0.98	10.1	
09-02-C	0.88	-1.1	
10-01-C	1.06	19.1	
10-02-C	0.83	-6.7	
11-01-C	0.84	-5.3	

Assigned Value = 0.89 ug/cartridge

Acetaldehyde

Lab Code	Reported	% Difference	Evaluation
01-01-C	1.00	9.9	
01-02-C	0.94	3.0	
01-03-C	0.89	-2.2	
01-04-C	0.93	2.2	
02-01-C	1.20	31.9	>25%
03-01-C	0.91	0.0	
04-02-C	1.01	11.0	
04-03-C	0.80	-12.1	
04-04-C	1.04	14.3	
05-01-C	0.92	1.5	
05-02-C	0.93	1.6	
05-03-C	1.00	9.9	
06-01-C	0.93	2.2	
09-02-C	0.93	2.2	
10-01-C	1.01	11.0	
10-02-C	0.97	6.6	
11-01-C	0.94	3.7	

Assigned Value = 0.91 ug/cartridge

Acetone

Lab Code	Reported	% Difference	Evaluation
01-01-C	0.90	12.5	
01-02-C	0.82	2.1	
01-03-C	0.95	18.7	
01-04-C	0.74	-7.5	
02-01-C	1.14	42.5	>25%
03-01-C	0.94	17.5	
04-02-C	0.90	12.5	
04-03-C	Not Reported		
04-04-C	0.75	-6.3	
05-01-C	0.75	-6.3	
05-02-C	0.77	-3.5	
05-03-C	0.84	5.0	
06-01-C	0.73	-8.7	
09-02-C	0.78	-2.5	
10-01-C	0.73	-8.7	
10-02-C	0.79	-1.2	
11-01-C	0.82	2.6	

Assigned Value = 0.80 ug/cartridge

Metals Study Results

(200503-M)

The samples were shipped to Metals participants on August 29th, with a closing date of June September. Participation continues to be a problem with only eleven out of a possible seventeen laboratories returning results.

The 200503-M samples were prepared by exposing quartz filters to an air stream containing aerosolized salts of the target compounds. The resulting concentrations were verified by an independent contractor.

The following seven tables show the results submitted by the twelve laboratories, compared to the “assigned value”.

Arsenic

Assigned Value = 1.37 ug/filter

Lab Code	Reported	% Difference *	Evaluation
01-04-M	0.83	-39.1	<-25%
03-01-M	1.08	-21.2	Warning
04-01-M	1.56	13.9	
04-03-M	1.17	-14.6	
04-04-M	5.84	326.3	Outlier
05-01-M	0.97	-29.2	<-25%
05-03-M	1.45	6.1	
08-02-M	1.03	-24.8	Warning
10-01-M	0.99	-27.8	<-25%
10-02-M	1.45	5.8	
11-01-M	1.50	9.5	

Beryllium

Assigned Value =1.27 ug/filter

Lab Code	Reported	% Difference *	Evaluation
01-04-M	1.10	-13.4	
03-01-M	1.26	-0.8	
04-01-M	1.53	20.3	Warning
04-03-M	1.27	0.0	
04-04-M	0.89	-29.6	<-25%
05-01-M	1.22	-3.9	
05-03-M	1.86	46.1	>25%
08-02-M	1.06	-16.5	
10-01-M	1.06	-16.5	
10-02-M	1.58	24.4	Warning
11-01-M	1.56	22.8	Warning

Cadmium

Assigned Value = 1.47 ug/filter

Lab Code	Reported	% Difference	Evaluation
01-04-M	1.11	-24.5	Warning
03-01-M	1.32	-10.2	
04-01-M	1.56	6.3	
04-03-M	1.25	-15.0	
04-04-M	8.08	449.7	Outlier
05-01-M	1.18	-19.7	
05-03-M	1.60	8.8	
08-02-M	1.22	-17.0	
10-01-M	1.02	-30.6	<-25%
10-02-M	1.50	2.0	
11-01-M	1.65	12.2	

Chromium

Assigned Value = 1.59 ug/filter

Lab Code	Reported	% Difference	Evaluation
01-04-M	1.60	0.6	
03-01-M	1.56	-1.9	
04-01-M	1.47	-7.8	
04-03-M	1.36	-14.5	
04-04-M	8.40	428.3	Outlier
05-01-M	1.37	-13.8	
05-03-M	1.77	11.4	
08-02-M	1.55	-2.5	
10-01-M	1.21	-23.9	Warning
10-02-M	1.63	2.50	
11-01-M	1.66	4.4	

Lead

(Assigned Value = 1.46 ug/filter)

Lab Code	Reported	% Difference	Evaluation
01-04-M	1.14	-21.9	Warning
03-01-M	1.41	-3.4	
04-01-M	1.61	10.0	
04-03-M	1.25	-14.4	
04-04-M	7.28	398.6	Outlier
05-01-M	1.22	16.4	
05-03-M	1.64	12.4	
08-02-M	1.29	-11.6	
10-01-M	1.07	-26.7	<-25%
10-02-M	1.50	2.7	
11-01-M	1.65	13.0	

Manganese

Assigned Value = 1.63 ug/filter

Lab Code	Reported	% Difference	Evaluation
01-04-M	1.25	-23.3	Warning
03-01-M	1.43	-12.3	
04-01-M	1.75	7.3	
04-03-M	1.31	-19.6	
04-04-M	6.68	309.8	Outlier
05-01-M	1.53	-6.1	
05-03-M	1.74	6.9	
08-02-M	1.38	-15.3	
10-01-M	1.16	-28.8	<-25%
10-02-M	1.74	6.7	
11-01-M	1.64	0.6	

Nickel

Assigned Value = 1.47 ug/filter

Lab Code	Reported	% Difference	Evaluation
01-04-M	1.13	-23.1	Warning
03-01-M	1.24	-15.6	
04-01-M	1.62	10.3	
04-03-M	1.29	-12.2	
04-04-M	7.78	429.3	Outlier
05-01-M	1.37	-6.8	
05-03-M	1.60	9.0	
08-02-M	1.26	-14.3	
10-01-M	1.09	-25.9	<-25%
10-02-M	1.52	3.4	
11-01-M	1.50	2.0	

VOC Study Results (200503-V)

The second VOC study was conducted during July and closed on July 21. Sixteen laboratories supplied Alion with a cleaned Summa canister and returned results for this study. The canisters were humidified by Alion personnel as they were filled and then shipped back to the laboratories via FedEx.

Two Alion canisters were filled with each of the two groups of samples. These canisters were analyzed initially and then after a period of two weeks. The following tables show the results of these analyses as well as the percent difference between them.

Alion Analysis Results (Can 34971)

Compound	Initial Analysis	Second Analysis	% Difference
Vinyl Chloride	2.55	2.55	-0.00
1,3-Butadiene	1.70	1.64	-3.30
Dichloromethane	1.79	1.90	6.24
Trichloromethane	2.31	2.26	-1.76
1,2-Dichloroethane	1.78	1.84	3.51
Benzene	2.14	2.24	4.54
Carbon Tetrachloride	1.49	1.73	16.58
1,2-Dichloropropane	2.14	2.32	8.40
Trichloroethene	1.83	1.91	3.87
Cis-1,3-Dichloropropene	1.94	2.11	8.50
Trans-1,3-Dichloropropene	2.11	2.17	2.63
1,2-Dibromoethane	1.71	1.72	0.59
Tetrachloroethene	2.32	2.30	-0.58
1,1,2,2-Tetrachloroethane	1.84	1.92	4.01

Alion Analysis Results (Can 34974)

Compound	Initial Analysis	Second Analysis	% Difference
Vinyl Chloride	2.29	2.61	14.09
1,3-Butadiene	1.52	1.74	14.07
Dichloromethane	1.71	1.89	10.60
Trichloromethane	2.03	2.25	10.80
1,2-Dichloroethane	1.60	1.91	19.21
Benzene	1.97	2.30	16.49
Carbon Tetrachloride	1.30	1.78	36.62
1,2-Dichloropropane	2.02	2.42	19.82
Trichloroethene	1.70	2.03	19.25
Cis-1,3-Dichloropropene	1.78	2.17	21.92
Trans-1,3-Dichloropropene	1.96	2.25	14.75
1,2-Dibromoethane	1.64	1.75	6.99
Tetrachloroethene	2.15	2.37	10.26
1,1,2,2-Tetrachloroethane	1.69	1.88	11.26

The tables on the following pages contain the results submitted by participating laboratories for each compound.

Benzene

Assigned value = 1.48 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.50	1.4	
01-02-V	1.54	4.1	
01-04-V	1.56	5.4	
02-01-V	1.63	10.1	
03-01-V	1.41	-4.7	
04-01-V	1.53	3.4	
04-02-V	2.20	48.6	>25%
04-03-V	1.61	8.8	
04-04-V	1.44	-2.7	
05-01-V	1.50	1.4	
05-03-V	1.54	4.1	
06-01-V	1.53	3.4	
10-01B-V	2.19	48.0	>25%
10-01-V	1.65	11.5	

1,3 Butadiene

Assigned value = 1.38 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.35	-2.2	
01-02-V	1.23	-10.9	
01-04-V	1.44	4.3	
02-01-V	1.31	-5.1	
03-01-V	1.29	-6.5	
04-01-V	1.44	4.3	
04-02-V	1.81	31.2	>25%
04-03-V	1.89	37.0	>25%
04-04-V	1.41	2.2	
05-01-V	1.40	1.4	
05-03-V	1.52	10.2	
06-01-V	1.47	6.5	
10-01B-V	1.28	-7.2	
10-01-V	1.57	13.8	

Carbon Tetrachloride

Assigned value = 1.40 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.42	1.4	
01-02-V	1.55	10.7	
01-04-V	1.47	5.0	
02-01-V	1.66	18.6	
03-01-V	1.43	2.1	
04-01-V	1.53	9.3	
04-02-V	1.48	5.7	
04-03-V	1.59	13.6	
04-04-V	1.39	-0.7	
05-01-V	1.58	12.9	
05-03-V	1.61	15.2	
06-01-V	1.67	19.3	
10-01B-V	1.33	-5.0	
10-01-V	1.87	33.6	>25%

Chloroform

Assigned value = 1.52 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.49	-2.0	
01-02-V	1.58	3.9	
01-04-V	1.52	0.0	
02-01-V	1.64	7.9	
03-01-V	1.40	-7.9	
04-01-V	1.51	-0.7	
04-02-V	1.35	-11.2	
04-03-V	1.57	3.3	
04-04-V	1.46	-3.9	
05-01-V	1.49	-2.0	
05-03-V	1.51	-0.5	
06-01-V	1.60	5.3	
10-01B-V	1.38	-9.2	
10-01-V	1.66	9.2	

1,2 dibromoethane

Assigned value = 1.46 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.48	1.4	
01-02-V	1.57	7.5	
01-04-V	1.49	2.1	
02-01-V	1.71	17.1	
03-01-V	1.46	0.0	
04-01-V	1.57	7.5	
04-02-V	1.68	15.1	
04-03-V	1.68	15.1	
04-04-V	1.42	-2.7	
05-01-V	1.59	8.9	
05-03-V	Not Reported		
06-01-V	1.33	-8.9	
10-01B-V	1.74	19.2	
10-01-V	2.00	37.0	>25%

1,2 dichloropropane

Assigned value = 1.55 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.52	-1.9	
01-02-V	1.52	-1.9	
01-04-V	1.52	-1.9	
02-01-V	1.70	9.7	
03-01-V	1.42	-8.4	
04-01-V	1.48	-4.5	
04-02-V	2.63	69.7	>25%
04-03-V	1.51	-2.6	
04-04-V	1.43	-7.7	
05-01-V	1.54	-0.6	
05-03-V	1.59	2.8	
06-01-V	1.53	-1.3	
10-01B-V	1.36	-12.3	
10-01-V	1.66	7.1	

1,2 dichloroethane

Assigned value = 1.54 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.44	-6.5	
01-02-V	1.66	7.8	
01-04-V	1.59	3.2	
02-01-V	1.71	11.0	
03-01-V	1.46	-5.2	
04-01-V	1.51	-1.9	
04-02-V	1.57	1.9	
04-03-V	1.61	4.5	
04-04-V	1.51	-1.9	
05-01-V	1.53	-0.6	
05-03-V	1.54	0.1	
06-01-V	1.61	4.5	
10-01B-V	1.53	-0.6	
10-01-V	1.72	11.7	

Dichloromethane

Assigned value =1.50 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.37	-8.7	
01-02-V	1.49	-0.7	
01-04-V	1.49	-0.7	
02-01-V	1.68	12.0	
03-01-V	1.41	-6.0	
04-01-V	1.48	-1.3	
04-02-V	1.72	14.7	
04-03-V	1.61	7.3	
04-04-V	1.52	1.3	
05-01-V	0.92	-38.7	<-25%
05-03-V	1.52	1.3	
06-01-V	1.61	7.3	
10-01B-V	1.06	-29.3	<-25%
10-01-V	1.86	24.0	Warning

1,1,2,2 tetrachloroethane

Assigned value =1.46 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.57	7.5	
01-02-V	1.58	8.2	
01-04-V	1.50	2.7	
02-01-V	1.89	29.5	>25%
03-01-V	1.47	0.7	
04-01-V	1.67	14.4	
04-02-V	3.76	157.5	Outlier
04-03-V	1.80	23.3	Warning
04-04-V	1.59	8.9	
05-01-V	1.67	14.4	
05-03-V	1.79	22.7	Warning
06-01-V	1.50	2.7	
10-01B-V	1.16	-20.5	Warning
10-01-V	1.67	14.4	

Tetrachloroethylene (PERC)

Assigned value =1.64 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.41	-14.0	
01-02-V	1.45	-11.6	
01-04-V	1.53	-6.7	
02-01-V	1.57	-4.3	
03-01-V	1.65	0.6	
04-01-V	1.47	-10.4	
04-02-V	2.22	35.4	>25%
04-03-V	1.56	-4.9	
04-04-V	1.49	-9.1	
05-01-V	1.55	-5.5	
05-03-V	1.63	-0.6	
06-01-V	1.39	-15.2	
10-01B-V	1.73	5.5	
10-01-V	1.71	4.3	

Trichloroethylene

Assigned value =1.57 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.47	-6.4	
01-02-V	1.44	-8.3	
01-04-V	1.54	-1.9	
02-01-V	1.60	1.9	
03-01-V	1.40	-10.8	
04-01-V	1.48	-5.7	
04-02-V	1.73	10.2	
04-03-V	1.46	-7.0	
04-04-V	1.59	1.3	
05-01-V	1.52	-3.2	
05-03-V	1.58	0.3	
06-01-V	1.42	-9.6	
10-01B-V	0.98	-37.6	<-25%
10-01-V	1.29	-17.8	

Vinyl Chloride

Assigned value =1.65 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.26	-23.6	Warning
01-02-V	1.02	-38.2	<25%
01-04-V	1.47	-10.9	
02-01-V	1.53	-7.3	
03-01-V	1.26	-23.6	Warning
04-01-V	1.56	-5.5	
04-02-V	1.92	16.4	
04-03-V	1.72	4.2	
04-04-V	1.51	-8.5	
05-01-V	1.49	-9.7	
05-03-V	1.56	-5.3	
06-01-V	1.52	-7.9	
10-01B-V	1.31	-20.6	Warning
10-01-V	2.03	23.0	Warning

Cis-1,3-Dichloropropene

Assigned value =1.41 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.51	7.1	
01-02-V	1.46	3.5	
01-04-V	1.56	10.6	
02-01-V	1.56	10.6	
03-01-V	1.46	3.5	
04-01-V	1.48	5.0	
04-02-V	2.35	66.7	>25%
04-03-V	1.45	2.8	
04-04-V	1.35	-4.3	
05-01-V	1.52	7.8	
05-03-V	1.93	37.2	>25%
06-01-V	1.30	-7.8	
10-01B-V	1.24	-12.1	
10-01-V	1.89	34.0	>25%

Trans-1,3-Dichloropropene

Assigned value =1.46ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.54	5.5	
01-02-V	1.74	19.2	
01-04-V	1.67	14.4	
02-01-V	1.88	28.8	>25%
03-01-V	1.51	3.4	
04-01-V	1.70	16.4	
04-02-V	1.66	13.7	
04-03-V	1.92	31.8	>25%
04-04-V	1.41	-3.4	
05-01-V	1.81	24.0	Warning
05-03-V	1.88	29.0	>25%
06-01-V	1.57	7.5	
10-01B-V	1.88	28.8	>25%
10-01-V	1.97	34.9	>25%

Appendix A

200503-C

Individual Results and Summary Graphs

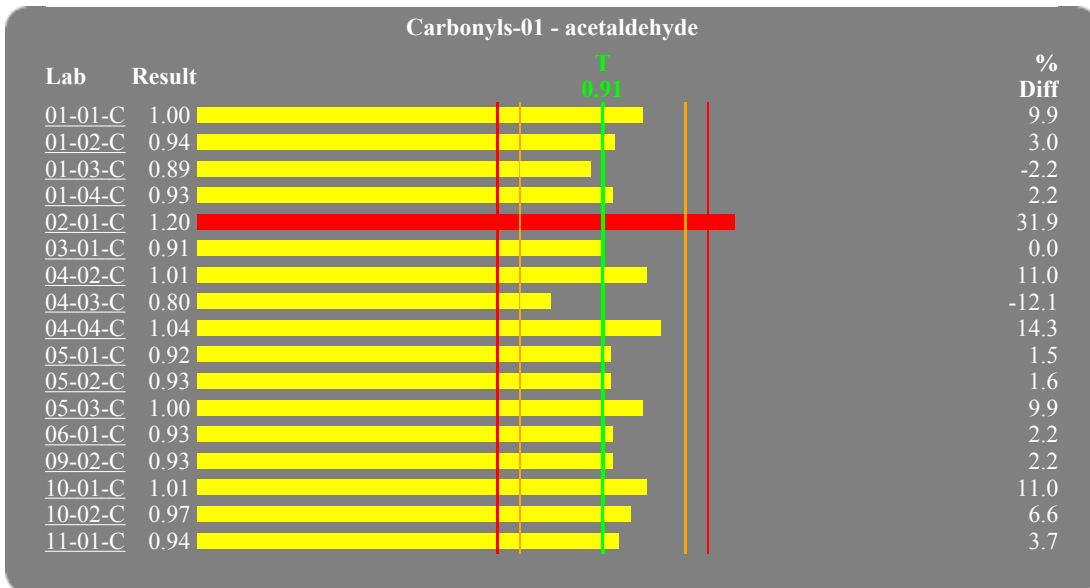
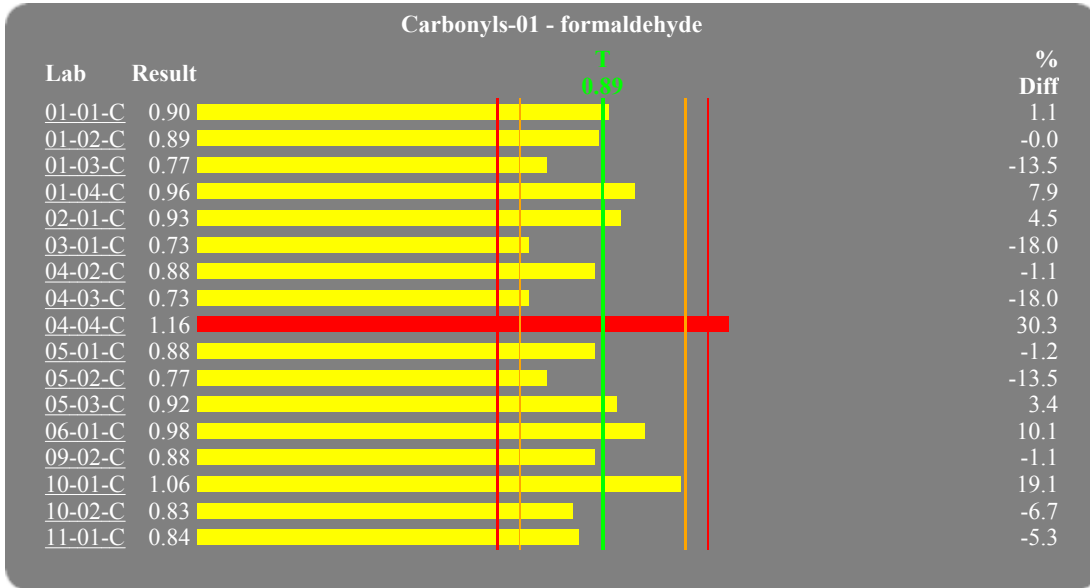
Analyte Results for a Specific Study

11/21/2005



Study Number: 200503-C

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



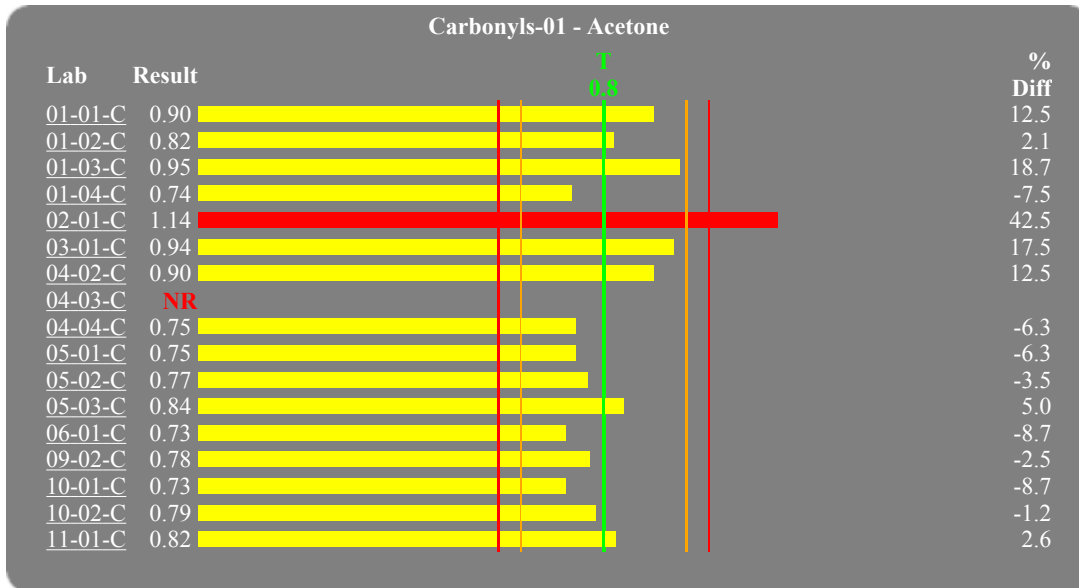
Analyte Results for a Specific Study

11/21/2005



Study Number: 200503-C

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



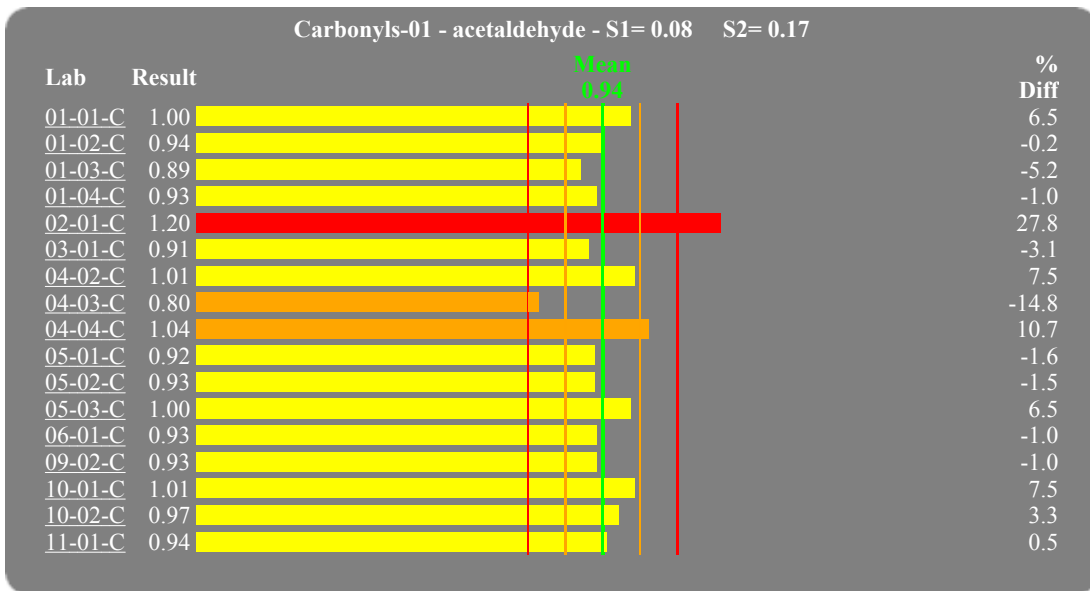
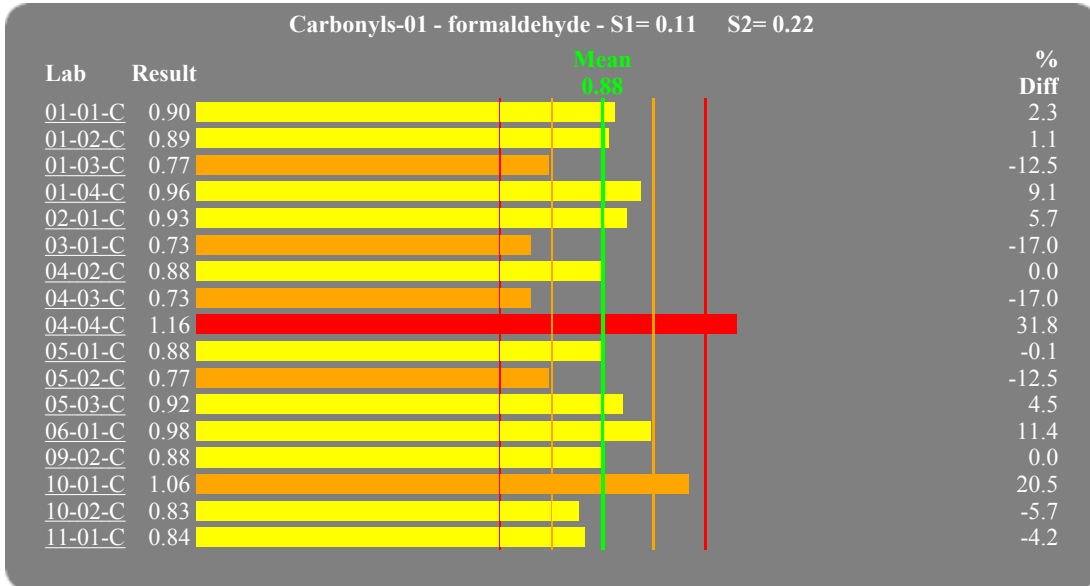
Analyte Results Versus the Study Mean

11/21/2005



Study Number: 200503-C

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported
 ■ NI No Information



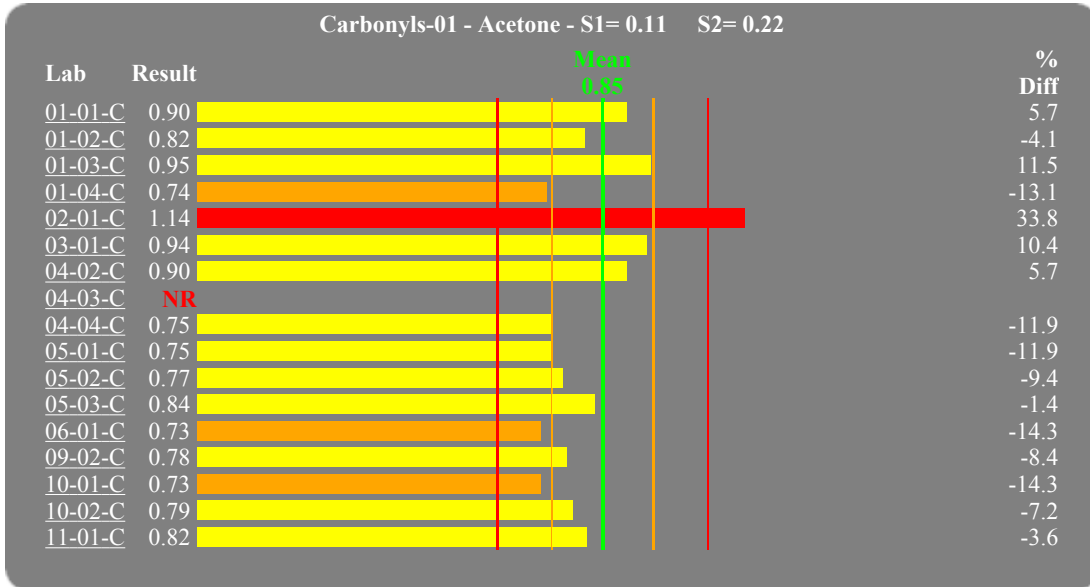
Analyte Results Versus the Study Mean

11/21/2005



Study Number: 200503-C

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported
 ■ NI No Information



PTNATTS PE Report

11/21/2005



Study: 200503-C Close Date: 11/15/2005 Lab Code: 01-01-C

This evaluation report is being submitted for:

Providence, RI
 Attention: Jeannine Dougherty
 RI Dept. of Health Lab.
 50 Orms Street
 Providence, RI, 02904

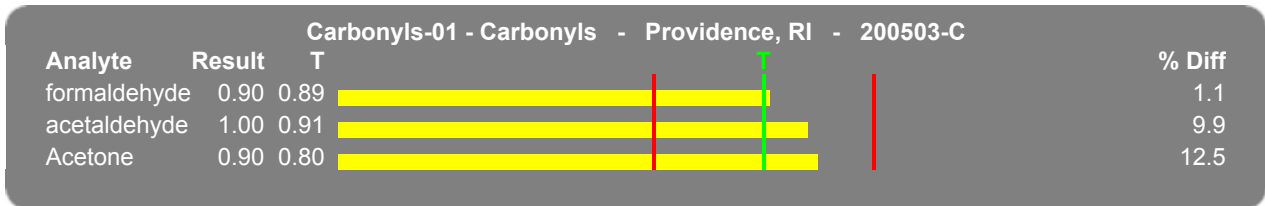
401-222-5550

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Providence, RI - 200503-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	1050 HPLC	L.Zbarcea	ug/crtge	0.9	0.890	1.1	20 0.712 to 1.07	25 0.668 to 1.11	
102 acetaldehyde	1050 HPLC	L.Zbarcea	ug/crtge	1.0	0.910	9.9	20 0.728 to 1.09	25 0.683 to 1.14	
103 Acetone	1050 HPLC	L.Zbarcea	ug/crtg	0.9	0.800	12.5	20 0.640 to 0.960	25 0.600 to 1.00	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

11/21/2005



Study: 200503-C

Close Date: 11/15/2005

Lab Code: 01-02-C

This evaluation report is being submitted for:

Chittenden, VT
Attention: Chris Russo
Vermont DEC Environmental Lab
103 South Main Street
Waterbury, VT, 05671-0409

802-241-1381

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Chittenden, VT - 200503-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	TO 11	WZ	ug/crtge	0.89	0.890	-0.0	20 0.712 to 1.07	25 0.668 to 1.11	
102 acetaldehyde	TO 11	WZ	ug/crtge	0.937	0.910	3.0	20 0.728 to 1.09	25 0.683 to 1.14	
103 Acetone	TO 11	WZ	ug/crtg	0.817	0.800	2.1	20 0.640 to 0.960	25 0.600 to 1.00	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

11/21/2005



Study: 200503-C Close Date: 11/15/2005 Lab Code: 01-03-C

This evaluation report is being submitted for:

Roxbury, MA
 Attention: Thomas McGrath
 DEP, Air Quality, WES
 37 Shattuck Street
 Lawrence, MA, 01843

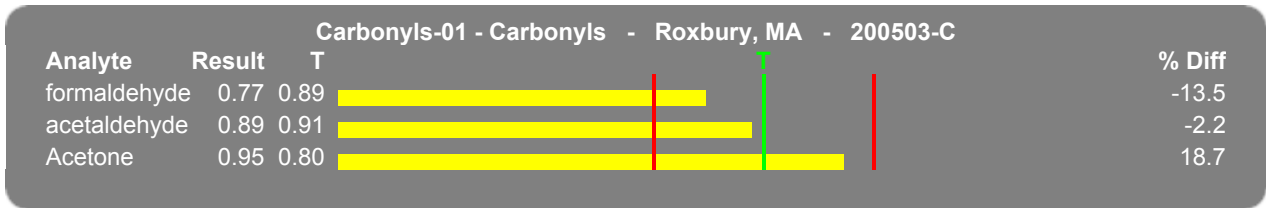
978-975-1138 x318

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Roxbury, MA - 200503-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	TO-11	TB	ug/crtge	0.77	0.890	-13.5	20 0.712 to 1.07	25 0.668 to 1.11	
102 acetaldehyde	TO-11	TB	ug/crtge	0.89	0.910	-2.2	20 0.728 to 1.09	25 0.683 to 1.14	
103 Acetone	TO-11	TB	ug/crtg	0.95	0.800	18.7	20 0.640 to 0.960	25 0.600 to 1.00	

Accepted
 Warning
 Outside
 Outlier
 NE Not Evaluated
 NR Not Reported



PTNATTS PE Report

11/21/2005



Study: 200503-C Close Date: 11/15/2005 Lab Code: 01-04-C

This evaluation report is being submitted for:

Region 1
 Attention: Agnes VanLangenhove
 US EPA Region 1 Lab
 11 Technology Drive
 North Chelmsford,, MA, 01863

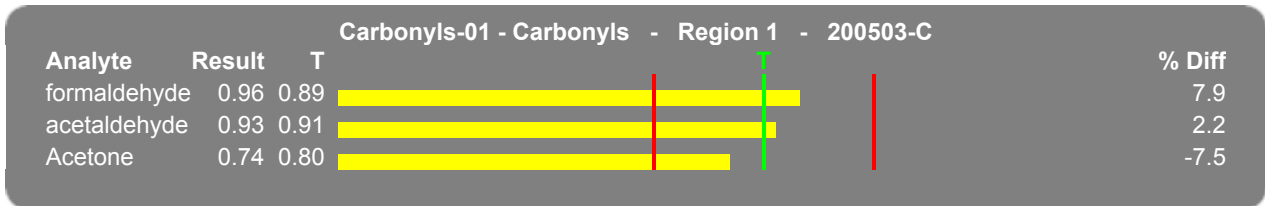
617-918-8338

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Region 1 - 200503-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	TO-11	PC	ug/crtge	0.96	0.890	7.9	20 0.712 to 1.07	25 0.668 to 1.11	
102 acetaldehyde	TO-11	PC	ug/crtge	0.93	0.910	2.2	20 0.728 to 1.09	25 0.683 to 1.14	
103 Acetone	TO-11	PC	ug/crtg	0.74	0.800	-7.5	20 0.640 to 0.960	25 0.600 to 1.00	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

11/21/2005



Study: 200503-C Close Date: 11/15/2005 Lab Code: 02-01-C

This evaluation report is being submitted for:

Rochester & Bronx, NY
 Attention: Gary Boynton
 1 University Place
 Room D112
 Rensselaer, NY, 12144

518-525-2733

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Rochester & Queens, NY - 200503-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	TO 11-A	PBM	ug/crtge	0.93	0.890	4.5	20 0.712 to 1.07	25 0.668 to 1.11	
102 acetaldehyde	TO 11-A	PBM	ug/crtge	1.2	0.910	31.9	20 0.728 to 1.09	25 0.683 to 1.14	> 25%
103 Acetone	TO 11-A	PBM	ug/crtg	1.14	0.800	42.5	20 0.640 to 0.960	25 0.600 to 1.00	> 25%

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

11/21/2005



Study: 200503-C Close Date: 11/15/2005 Lab Code: 03-01-C

This evaluation report is being submitted for:

Washington, DC
Attention: Robert Day
Air Management Services Laboratory
1501 Lycoming Street
Philadelphia, PA, 19124

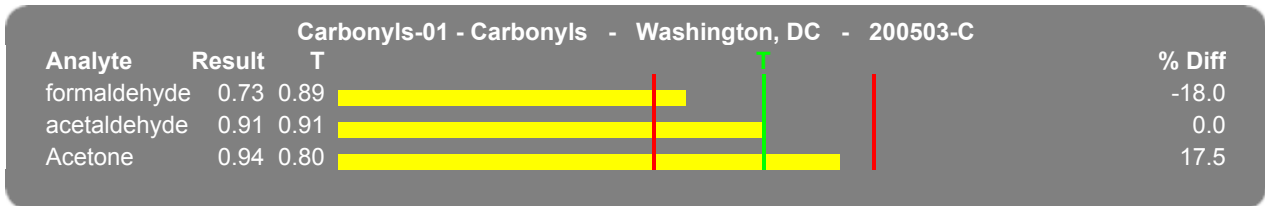
202-535-2986

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Washington, DC - 200503-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	TO-11A	H.Smith	ug/crtge	0.73	0.890	-18.0	20 0.712 to 1.07	25 0.668 to 1.11	
102 acetaldehyde	TO-11A	H.Smith	ug/crtge	0.91	0.910	0.0	20 0.728 to 1.09	25 0.683 to 1.14	
103 Acetone	TO-11A	H.Smith	ug/crtg	0.94	0.800	17.5	20 0.640 to 0.960	25 0.600 to 1.00	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

11/21/2005



Study: 200503-C Close Date: 11/15/2005 Lab Code: 04-02-C

This evaluation report is being submitted for:

Chesterfield, SC
 Attention: Scott Reynolds
 SC Dept of HEC, Div. of AQ Analysis
 8231 Parklane Road
 Columbia, SC, 29223

803-896-0902

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Chesterfield, SC - 200503-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/- % Range	Accept Limits +/- % Range	Evaluation
101 formaldehyde	unk	MN	ug/crtge	0.88	0.890	-1.1	20 0.712 to 1.07	25 0.668 to 1.11	
102 acetaldehyde	unk	MN	ug/crtge	1.01	0.910	11.0	20 0.728 to 1.09	25 0.683 to 1.14	
103 Acetone	unk	MN	ug/crtg	0.9	0.800	12.5	20 0.640 to 0.960	25 0.600 to 1.00	

Accepted
 Warning
 Outside
 Outlier
 NE Not Evaluated
 NR Not Reported



PTNATTS PE Report

11/21/2005



Study: 200503-C

Close Date: 11/15/2005

Lab Code: 04-03-C

This evaluation report is being submitted for:

Hazard, KY
Attention: Charles Snodgrass
Div of Environmental Services
100 Sower Blvd. Suite 104
Frankfort, KY, 40601-8272

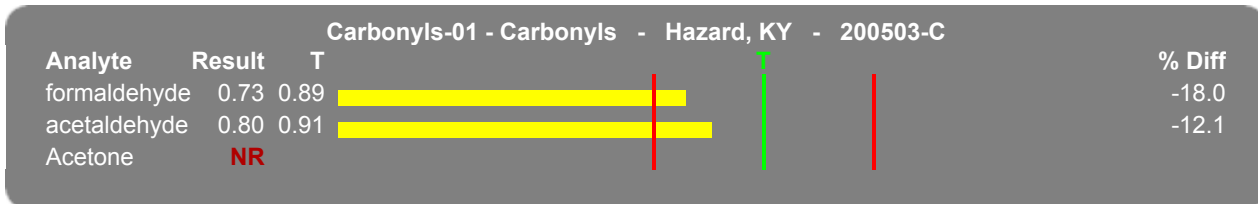
502-573-3382

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Hazard, KY - 200503-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	TO-11A	J.Thompson	ug/crtge	0.73	0.890	-18.0	20 0.712 to 1.07	25 0.668 to 1.11	
102 acetaldehyde	TO-11A	J.Thompson	ug/crtge	0.8	0.910	-12.1	20 0.728 to 1.09	25 0.683 to 1.14	
103 Acetone				NR	0.800		0.640 to 0.960	0.600 to 1.00	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

11/21/2005



Study: 200503-C

Close Date: 11/15/2005

Lab Code: 04-04-C

This evaluation report is being submitted for:

Atlanta, GA
Attention: Susan Zimmer-Dauphinee
GA DNR EPD Laboratory
455 14th Street
Atlanta, GA, 30318-7900

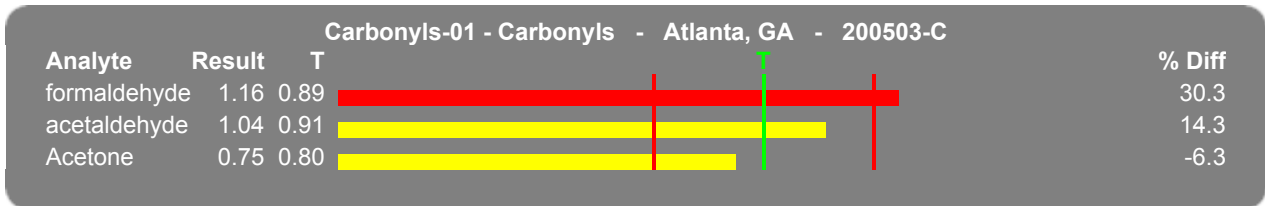
404-363-7004

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Atlanta, GA - 200503-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
101 formaldehyde	TO-11	J.Dyer	ug/crtge	1.16	0.890	30.3	20 0.712 to 1.07	25 0.668 to 1.11	> 25%
102 acetaldehyde	TO-11	J.Dyer	ug/crtge	1.04	0.910	14.3	20 0.728 to 1.09	25 0.683 to 1.14	
103 Acetone	TO-11	J.Dyer	ug/crtg	0.75	0.800	-6.3	20 0.640 to 0.960	25 0.600 to 1.00	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

11/21/2005



Study: 200503-C

Close Date: 11/15/2005

Lab Code: 05-01-C

This evaluation report is being submitted for:

Detroit, MI
 Attention: Mary Ann Heindorf
 DEQ Lab
 3350 N MLK Bldg.44 3rd Floor
 Lansing, MI, 48906

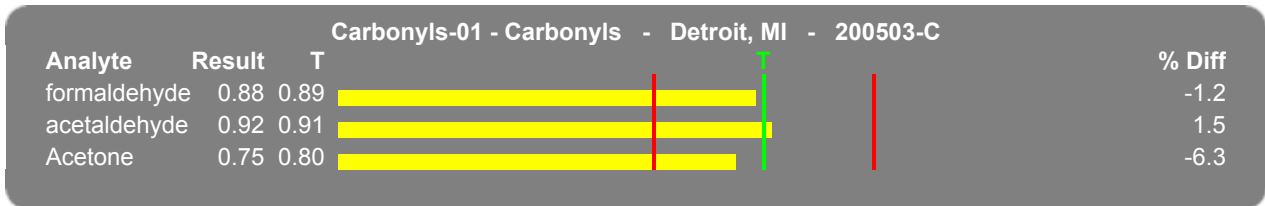
517-373-2151

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Detroit, MI - 200503-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	TO 11	JB	ug/crtge	0.879	0.890	-1.2	20 0.712 to 1.07	25 0.668 to 1.11	
102 acetaldehyde	TO 11	JB	ug/crtge	0.924	0.910	1.5	20 0.728 to 1.09	25 0.683 to 1.14	
103 Acetone	TO 11	JB	ug/crtg	0.75	0.800	-6.3	20 0.640 to 0.960	25 0.600 to 1.00	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

11/21/2005



Study: 200503-C Close Date: 11/15/2005 Lab Code: 05-02-C

This evaluation report is being submitted for:

Chicago
Attention: Mel Schuchardt
IEPA Air Monitoring
1021 N Grande Ave. East
Springfield, IL, 53707

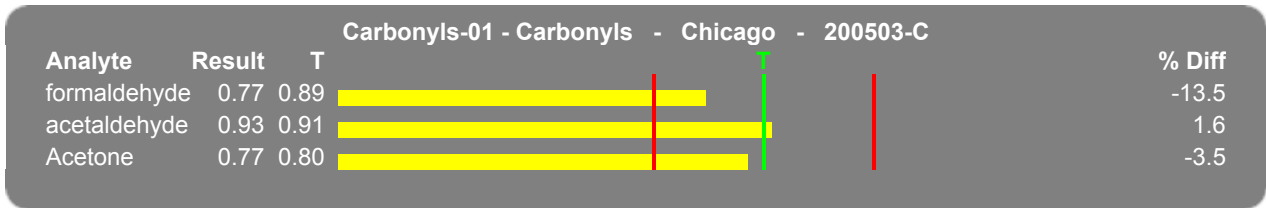
(217) 782-9281

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Chicago - 200503-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	TO-11A	LEVE	ug/crtge	0.77	0.890	-13.5	20 0.712 to 1.07	25 0.668 to 1.11	
102 acetaldehyde	TO-11A	LEVE	ug/crtge	0.925	0.910	1.6	20 0.728 to 1.09	25 0.683 to 1.14	
103 Acetone	TO-11A	LEVE	ug/crtg	0.772	0.800	-3.5	20 0.640 to 0.960	25 0.600 to 1.00	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

11/21/2005



Study: 200503-C

Close Date: 11/15/2005

Lab Code: 05-03-C

This evaluation report is being submitted for:

Madison, WI
Attention: Mark Allen
Wisconsin DNR
101 S Webster St
Madison, WI, 53707

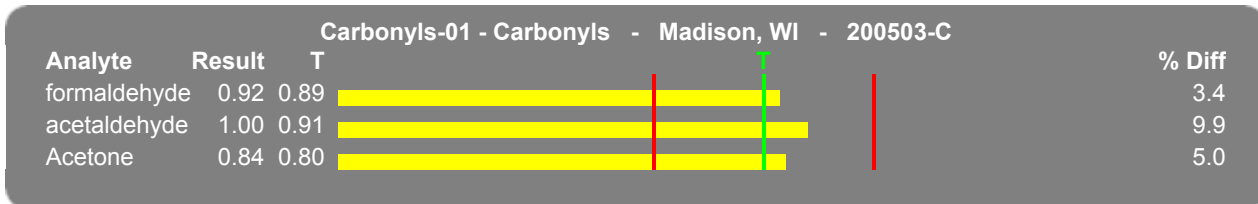
608-266-8049

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Madison, WI - 200503-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
101 formaldehyde	202	J.G.	ug/crtge	0.92	0.890	3.4	20 0.712 to 1.07	25 0.668 to 1.11	
102 acetaldehyde	202	J.G.	ug/crtge	1.0	0.910	9.9	20 0.728 to 1.09	25 0.683 to 1.14	
103 Acetone	202	J.G.	ug/crtg	0.84	0.800	5.0	20 0.640 to 0.960	25 0.600 to 1.00	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

11/21/2005



Study: 200503-C

Close Date: 11/15/2005

Lab Code: 06-01-C

This evaluation report is being submitted for:

Houston & Harrison TX
Attention: David Brymer
Texas CEQ
1200 Park 35 Circle
Austin, TX, 78753

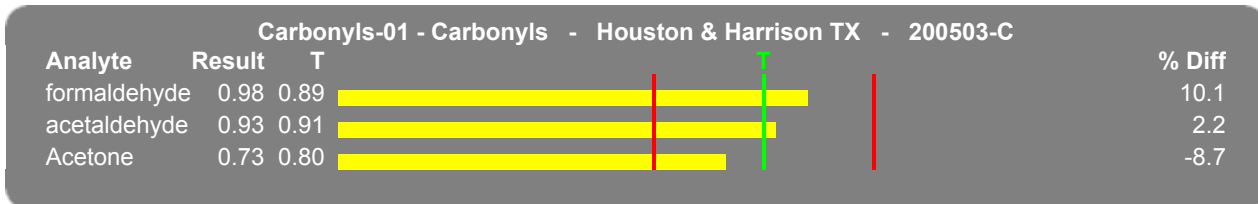
512-239-1725

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Houston & Harrison TX - 200503-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	TO-11 modified	AM	ug/crtge	0.98	0.890	10.1	20 0.712 to 1.07	25 0.668 to 1.11	
102 acetaldehyde	TO-11 modified	AM	ug/crtge	0.93	0.910	2.2	20 0.728 to 1.09	25 0.683 to 1.14	
103 Acetone	TO-11 modified	AM	ug/crtg	0.73	0.800	-8.7	20 0.640 to 0.960	25 0.600 to 1.00	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

11/21/2005



Study: 200503-C Close Date: 11/15/2005 Lab Code: 09-02-C

This evaluation report is being submitted for:

Phoenix, AZ
 Attention: Michael Sunbloom
 San Diego Air Pollution Control District
 9186 Chesapaeke Drive
 San Diego, CA, 92123

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Phoenix, AZ - 200503-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	202	DNS	ug/crtge	0.88	0.890	-1.1	20 0.712 to 1.07	25 0.668 to 1.11	
102 acetaldehyde	202	DNS	ug/crtge	0.93	0.910	2.2	20 0.728 to 1.09	25 0.683 to 1.14	
103 Acetone	202	DNS	ug/crtg	0.78	0.800	-2.5	20 0.640 to 0.960	25 0.600 to 1.00	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

11/21/2005



Study: 200503-C Close Date: 11/15/2005 Lab Code: 10-01-C

This evaluation report is being submitted for:

Seattle, Wa
Attention: Hal Westberg
CEE Department Sloan Hall, Room 101
Washington State University
Pullman, WA, 99164-2910

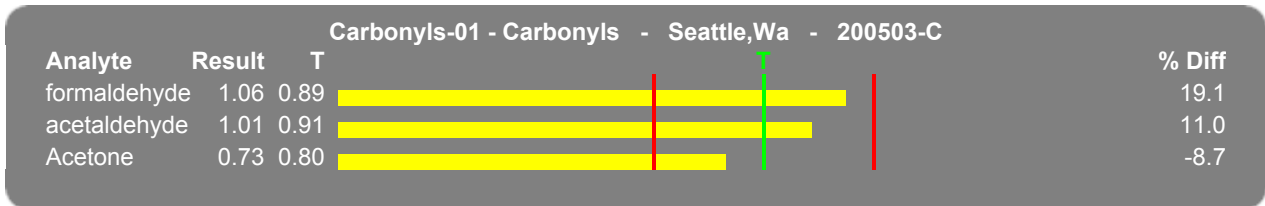
509-335-1529

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Seattle, Wa - 200503-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	TO-11A	Bamesber.	ug/crtge	1.06	0.890	19.1	20 0.712 to 1.07	25 0.668 to 1.11	
102 acetaldehyde	TO-11A	Bamesber.	ug/crtge	1.01	0.910	11.0	20 0.728 to 1.09	25 0.683 to 1.14	
103 Acetone	TO-11A	Bamesber.	ug/crtg	0.73	0.800	-8.7	20 0.640 to 0.960	25 0.600 to 1.00	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

11/21/2005



Study: 200503-C

Close Date: 11/15/2005

Lab Code: 10-02-C

This evaluation report is being submitted for:

LaGrande, Or
Attention: Gregg Lande
Oregon DEQ Lab
1712 SW 11th Ave.
Portland, OR, 97201

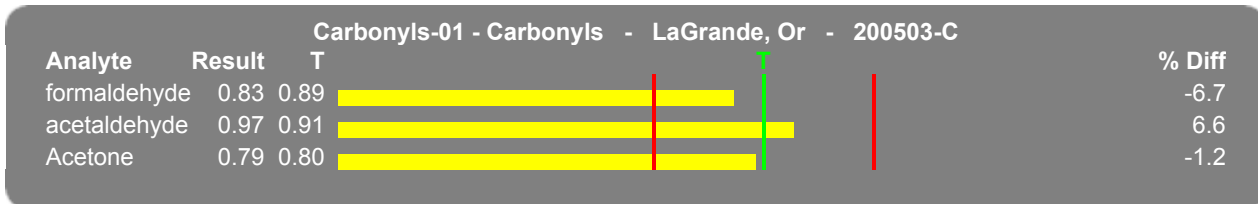
503-229-6411

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - LaGrande, Or - 200503-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	TO 11A	RR	ug/crtge	0.83	0.890	-6.7	20 0.712 to 1.07	25 0.668 to 1.11	
102 acetaldehyde	TO 11A	RR	ug/crtge	0.97	0.910	6.6	20 0.728 to 1.09	25 0.683 to 1.14	
103 Acetone	TO 11A	RR	ug/crtg	0.79	0.800	-1.2	20 0.640 to 0.960	25 0.600 to 1.00	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

11/21/2005



Study: 200503-C

Close Date: 11/15/2005

Lab Code: 11-01-C

This evaluation report is being submitted for:

Tampa, St Louis, Grand Junction, Bountiful

Attention: Julie Swift

ERG

601 Keystone Park Drive, Suite 700

Morrisville, NC, 27560

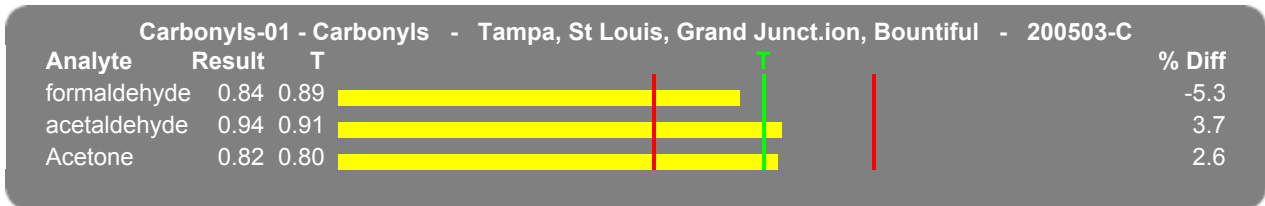
919-468-7924

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Tampa, St Louis, Grand Junction, Bountiful - 200503-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	TO-11A	LEVE	ug/crtge	0.843	0.890	-5.3	20 0.712 to 1.07	25 0.668 to 1.11	
102 acetaldehyde	TO-11A	LEVE	ug/crtge	0.944	0.910	3.7	20 0.728 to 1.09	25 0.683 to 1.14	
103 Acetone	TO-11A	LEVE	ug/crtg	0.821	0.800	2.6	20 0.640 to 0.960	25 0.600 to 1.00	

Accepted Warning Outside Outlier Not Evaluated Not Reported



Appendix B

200503-M

Individual Results and Summary Graphs

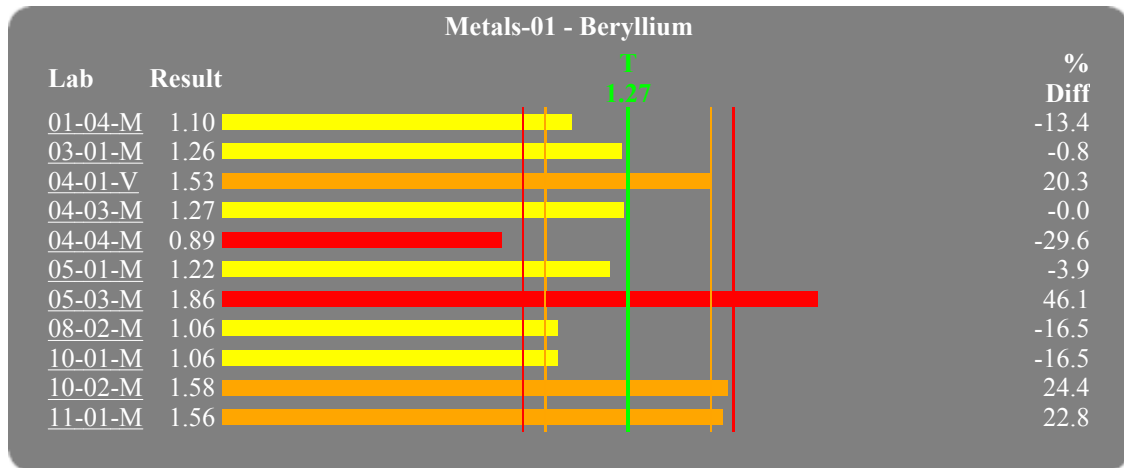
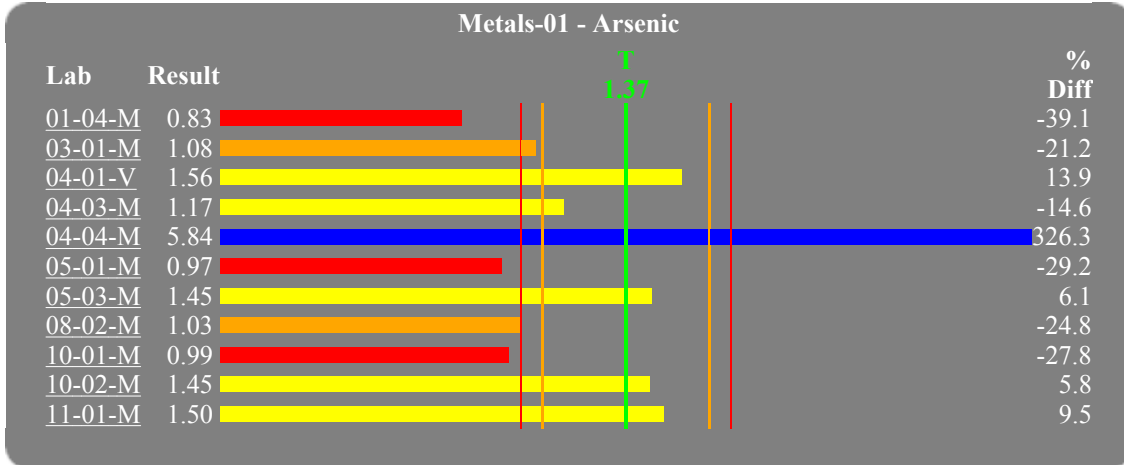
Analyte Results for a Specific Study

03/27/2006



Study Number: 200503-M

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



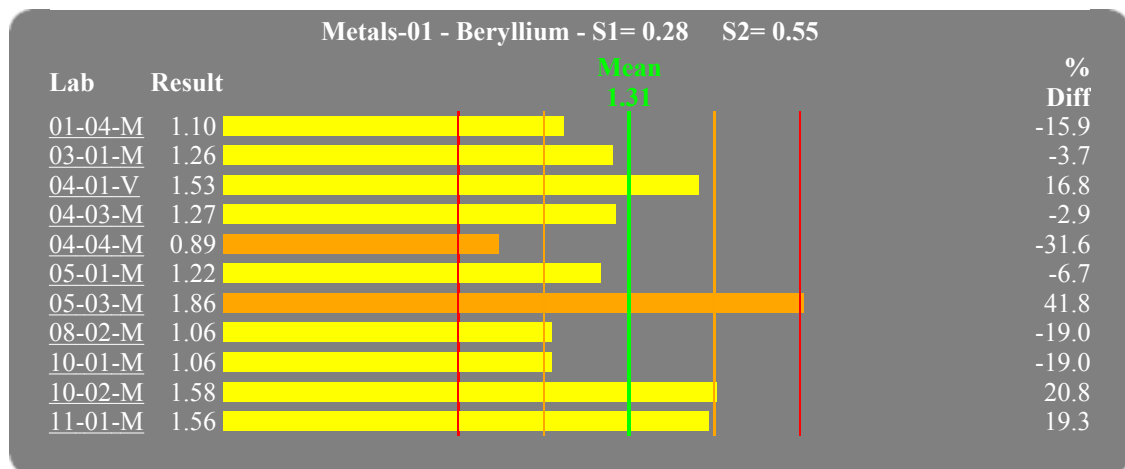
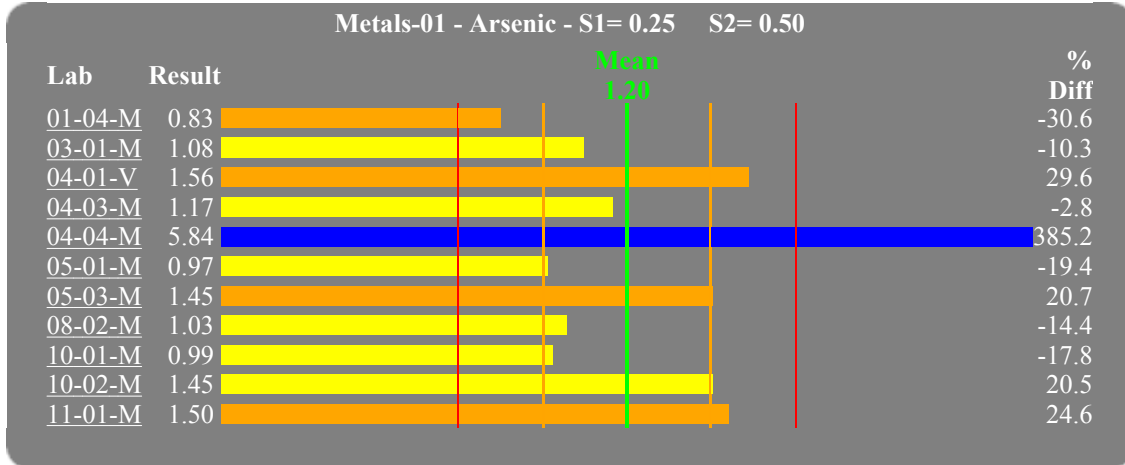
Analyte Results Versus the Study Mean

03/27/2006



Study Number: 200503-M

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported
 ■ NI No Information



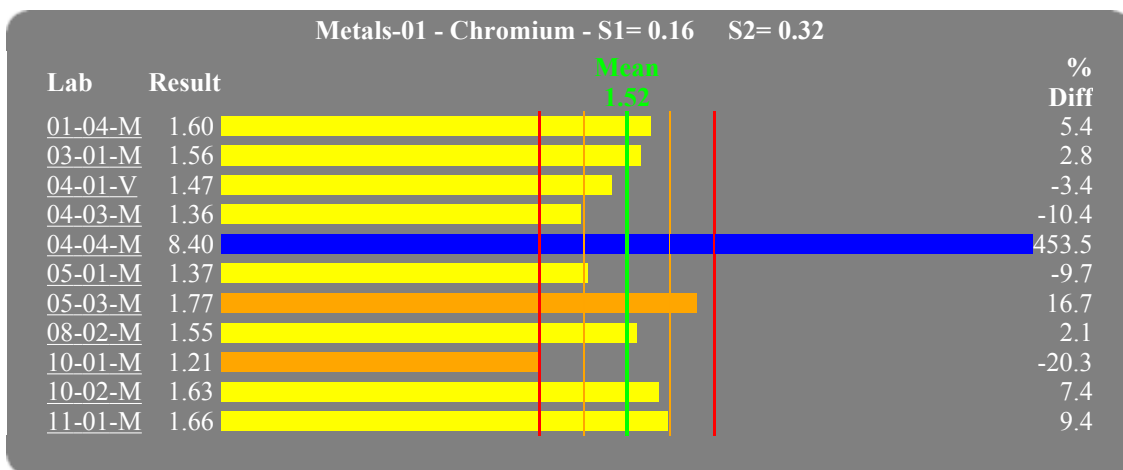
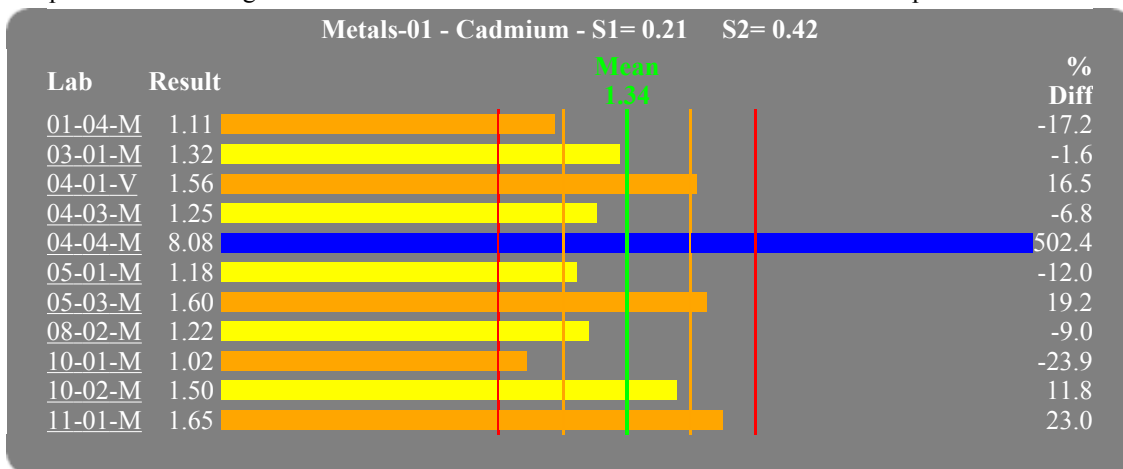
Analyte Results Versus the Study Mean

03/27/2006



Study Number: 200503-M

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported
 ■ NI No Information



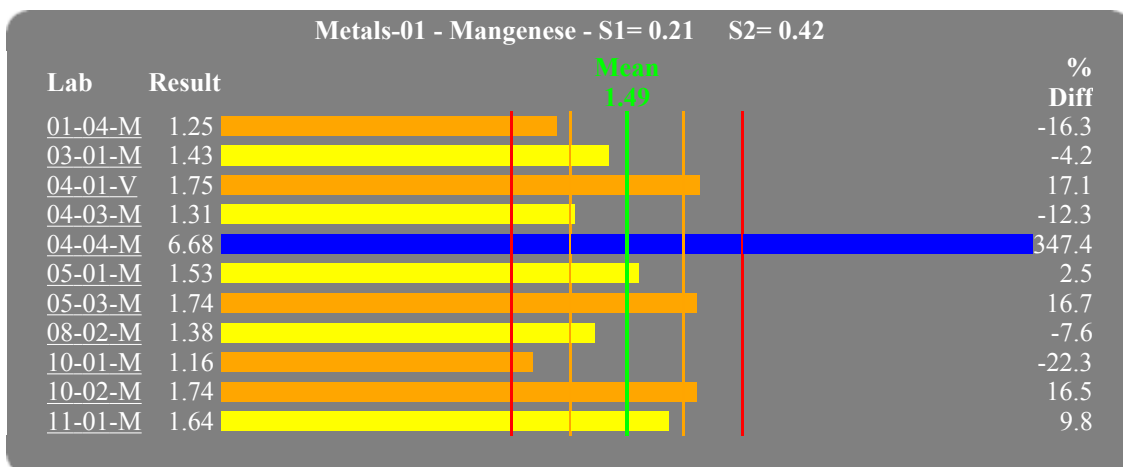
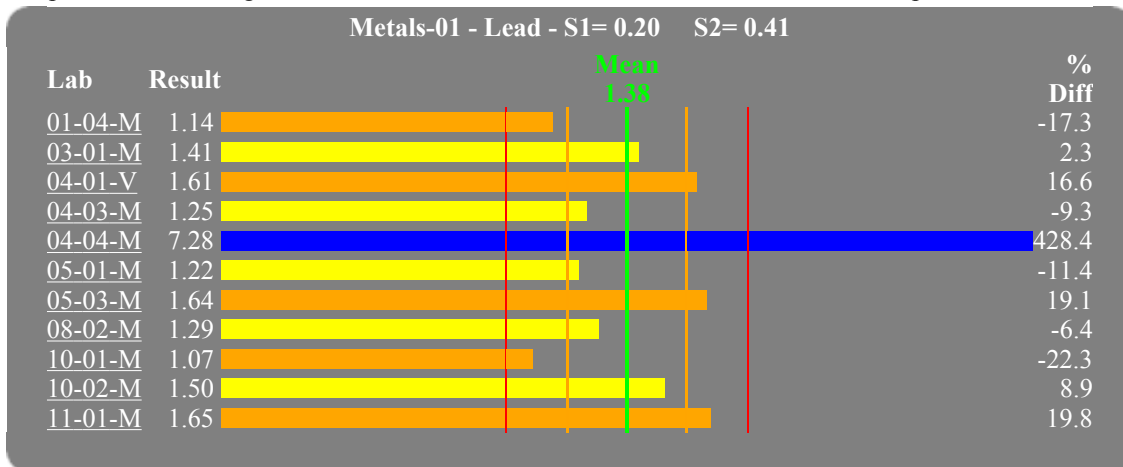
Analyte Results Versus the Study Mean

03/27/2006



Study Number: 200503-M

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported
 ■ NI No Information



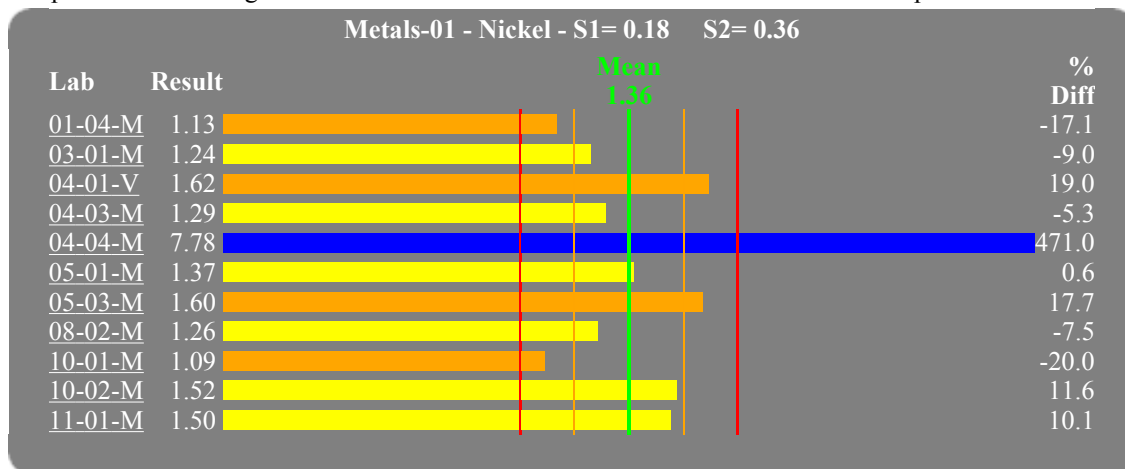
Analyte Results Versus the Study Mean

03/27/2006



Study Number: 200503-M

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported NI No Information



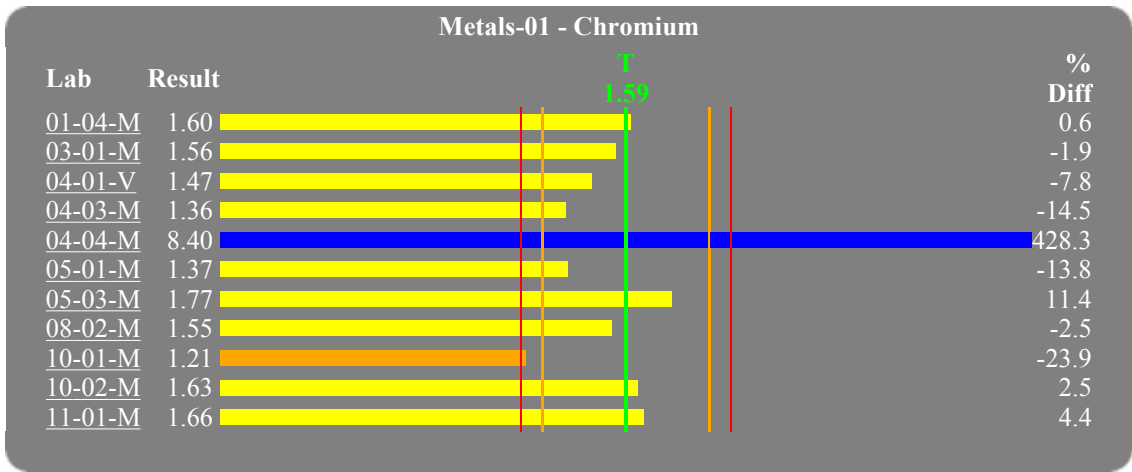
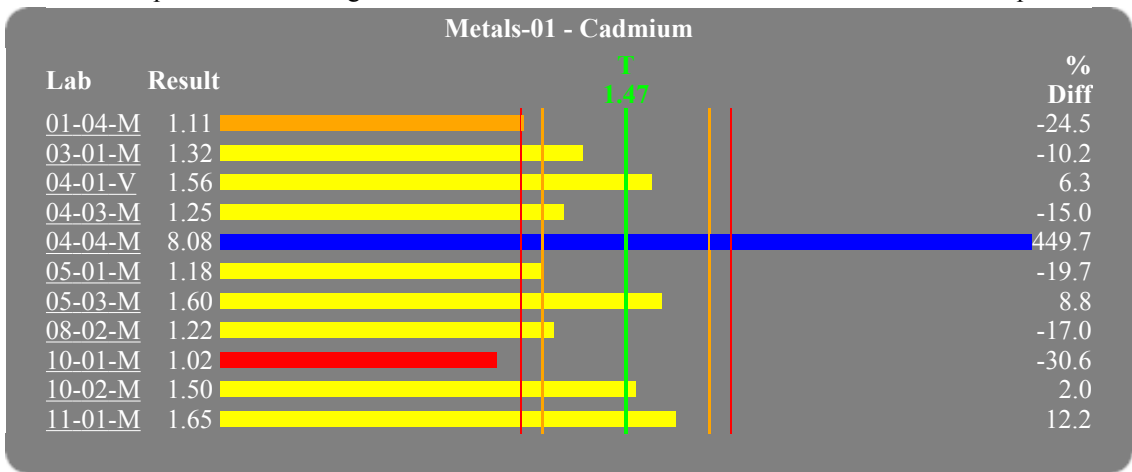
Analyte Results for a Specific Study

03/27/2006



Study Number: 200503-M

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



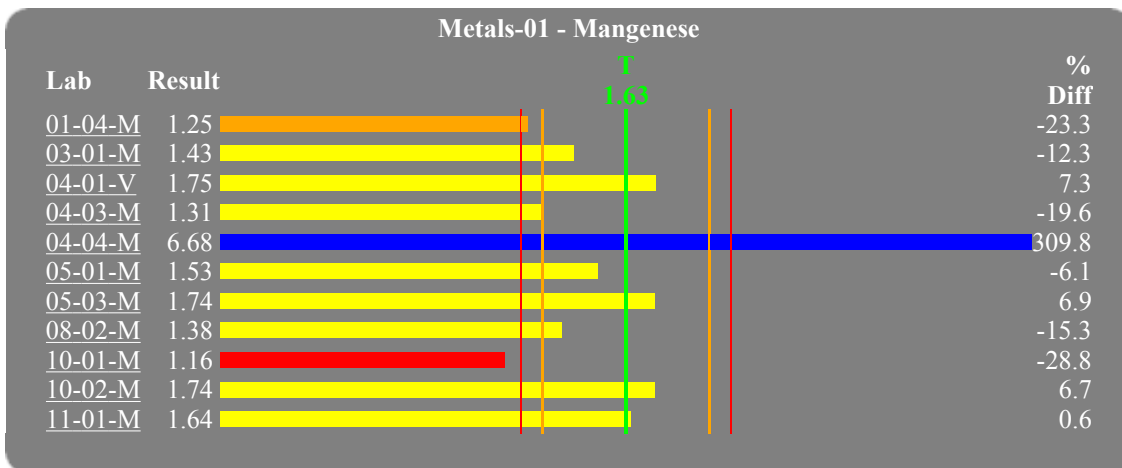
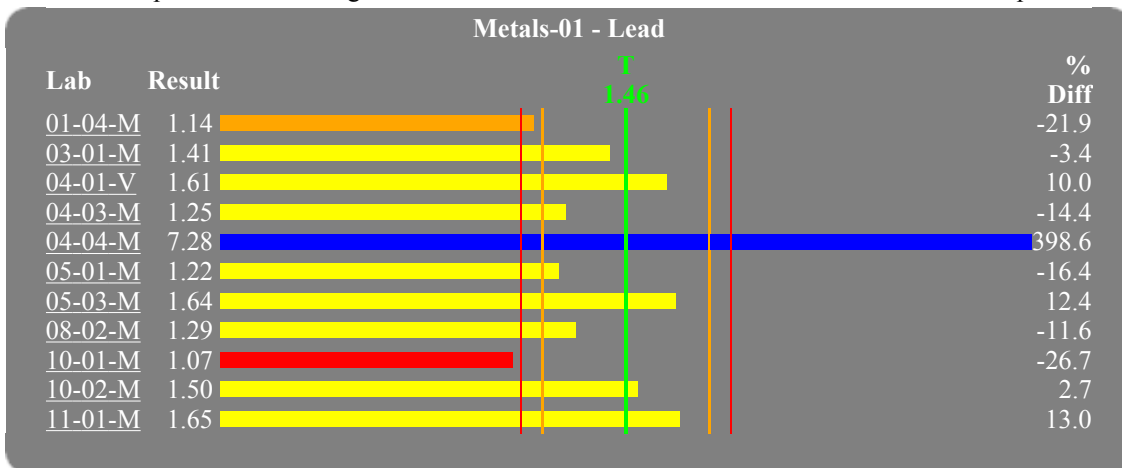
Analyte Results for a Specific Study

03/27/2006



Study Number: 200503-M

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



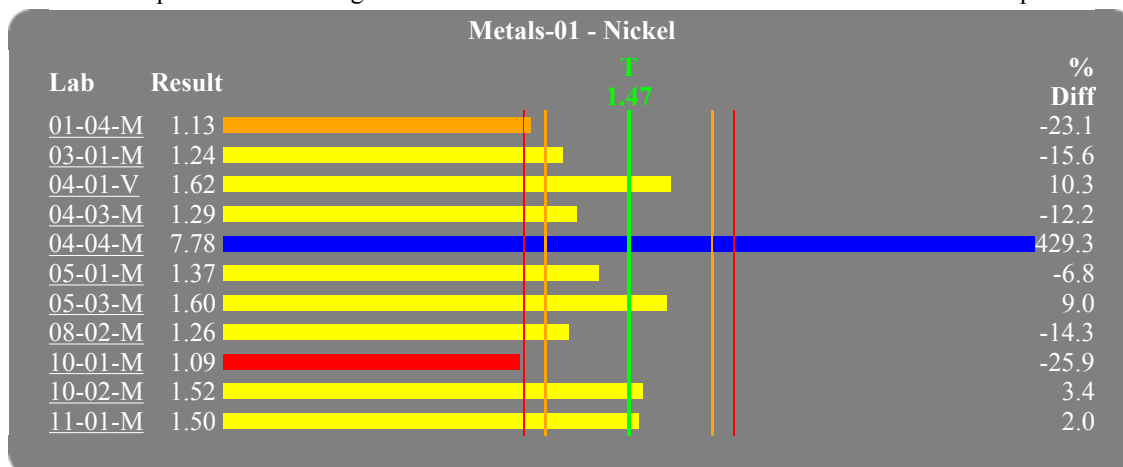
Analyte Results for a Specific Study

03/27/2006



Study Number: 200503-M

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

3/27/2006



Study: 200503-M Close Date: 09/23/2005 Lab Code: 01-04-M

This evaluation report is being submitted for:

Region 1
 Attention: Agnes VanLangenhove
 US EPA Region 1 Lab
 11 Technology Drive
 North Chelmsford, MA, 01863

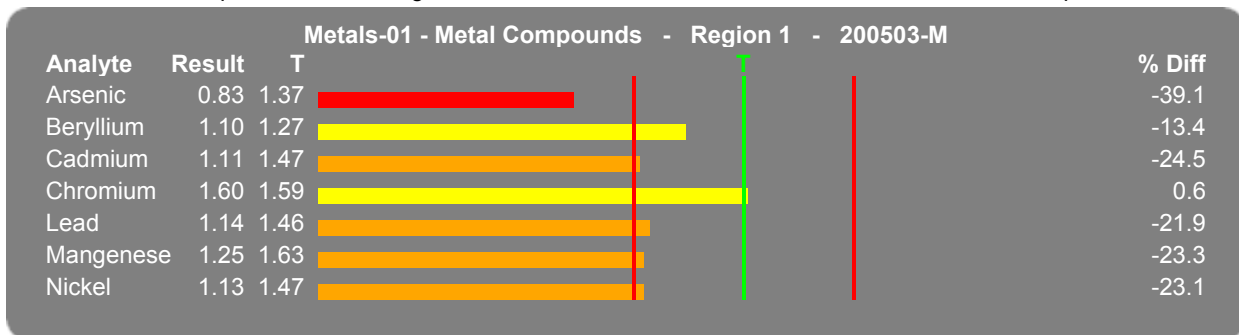
617-918-8338

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Region 1 - 200503-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
201 Arsenic	IO-3.0, 3.5	M.Dowling	ug/filter	0.835	1.37	-39.1	20 1.10 to 1.64	25 1.03 to 1.71	< 25%
202 Beryllium	IO-3.0, 3.5	M.Dowling	ug/filter	1.1	1.27	-13.4	20 1.02 to 1.52	25 0.953 to 1.59	
203 Cadmium	IO-3.0, 3.5	M.Dowling	ug/filter	1.11	1.47	-24.5	20 1.18 to 1.76	25 1.10 to 1.84	WARNING
204 Chromium	IO-3.0, 3.5	M.Dowling	ug/filter	1.6	1.59	0.6	20 1.27 to 1.91	25 1.19 to 1.99	
205 Lead	IO-3.0, 3.5	M.Dowling	ug/filter	1.14	1.46	-21.9	20 1.17 to 1.75	25 1.10 to 1.83	WARNING
206 Manganese	IO-3.0, 3.5	M.Dowling	ug/filter	1.25	1.63	-23.3	20 1.30 to 1.96	25 1.22 to 2.04	WARNING
208 Nickel	IO-3.0, 3.5	M.Dowling	ug/filter	1.13	1.47	-23.1	20 1.18 to 1.76	25 1.10 to 1.84	WARNING

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ Not Evaluated
 ■ Not Reported



PTNATTS PE Report

3/22/2006



Study: 200503-M Close Date: 09/23/2005 Lab Code: 03-01-M

This evaluation report is being submitted for:

Washington, DC
 Attention: Jason Thomas
 DEP Division of Air Quality
 4900 Brenda Lane, Bldg. 14
 Charleston, WV, 25312

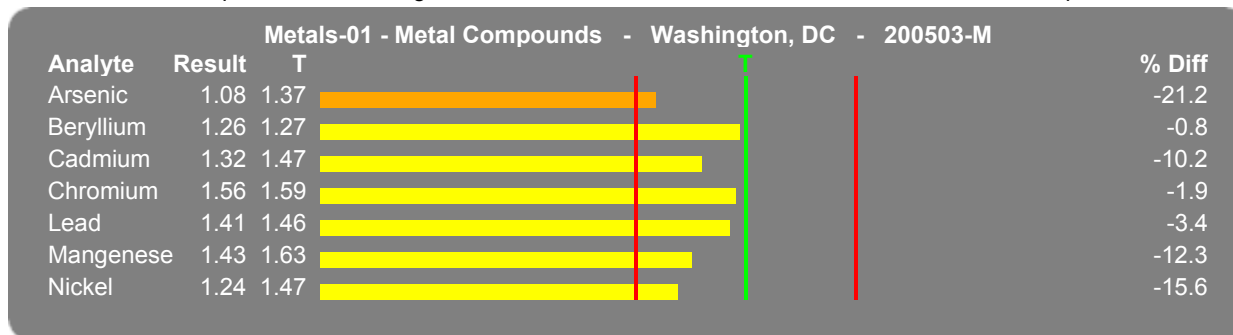
202-535-2986

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Washington, DC - 200503-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
201 Arsenic	T.O. 3.5	JT	ug/filter	1.08	1.37	-21.2	20 1.10 to 1.64	25 1.03 to 1.71	WARNING
202 Beryllium	T.O. 3.5	JT	ug/filter	1.26	1.27	-0.8	20 1.02 to 1.52	25 0.953 to 1.59	
203 Cadmium	T.O. 3.5	JT	ug/filter	1.32	1.47	-10.2	20 1.18 to 1.76	25 1.10 to 1.84	
204 Chromium	T.O. 3.5	JT	ug/filter	1.56	1.59	-1.9	20 1.27 to 1.91	25 1.19 to 1.99	
205 Lead	T.O. 3.5	JT	ug/filter	1.41	1.46	-3.4	20 1.17 to 1.75	25 1.10 to 1.83	
206 Manganese	T.O. 3.5	JT	ug/filter	1.43	1.63	-12.3	20 1.30 to 1.96	25 1.22 to 2.04	
208 Nickel	T.O. 3.5	JT	ug/filter	1.24	1.47	-15.6	20 1.18 to 1.76	25 1.10 to 1.84	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

3/22/2006



Study: 200503-M Close Date: 09/23/2005 Lab Code: 04-01-V

This evaluation report is being submitted for:

Tampa
 Attention: Tom Stringfellow
 Pinellas Co. DEM AQ
 300 S Garden Ave
 Clearwater, FL, 33756

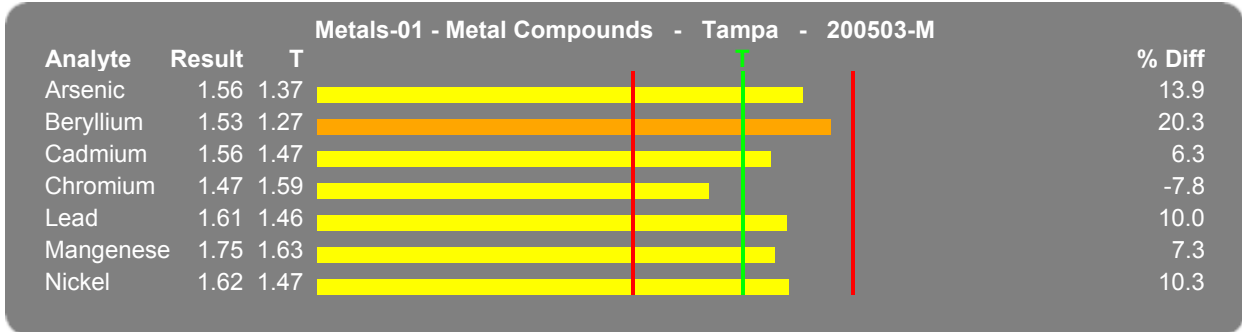
727-464-4422

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Tampa - 200503-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
201 Arsenic	200.7	SP	ug/filter	1.56	1.37	13.9	20 1.10 to 1.64	25 1.03 to 1.71	WARNING
202 Beryllium	200.7	SP	ug/filter	1.528	1.27	20.3	20 1.02 to 1.52	25 0.953 to 1.59	
203 Cadmium	200.7	SP	ug/filter	1.563	1.47	6.3	20 1.18 to 1.76	25 1.10 to 1.84	
204 Chromium	200.7	SP	ug/filter	1.466	1.59	-7.8	20 1.27 to 1.91	25 1.19 to 1.99	
205 Lead	200.7	SP	ug/filter	1.606	1.46	10.0	20 1.17 to 1.75	25 1.10 to 1.83	
206 Manganese	200.7	SP	ug/filter	1.749	1.63	7.3	20 1.30 to 1.96	25 1.22 to 2.04	
208 Nickel	200.7	SP	ug/filter	1.622	1.47	10.3	20 1.18 to 1.76	25 1.10 to 1.84	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ Not Evaluated
 ■ Not Reported



PTNATTS PE Report

3/22/2006



Study: 200503-M Close Date: 09/23/2005 Lab Code: 04-03-M

This evaluation report is being submitted for:

Hazard, KY
 Attention: Larry Garrison
 Div of Environmental Services
 100 Sower Blvd. Suite 104
 Frankfort, KY, 40601-8272

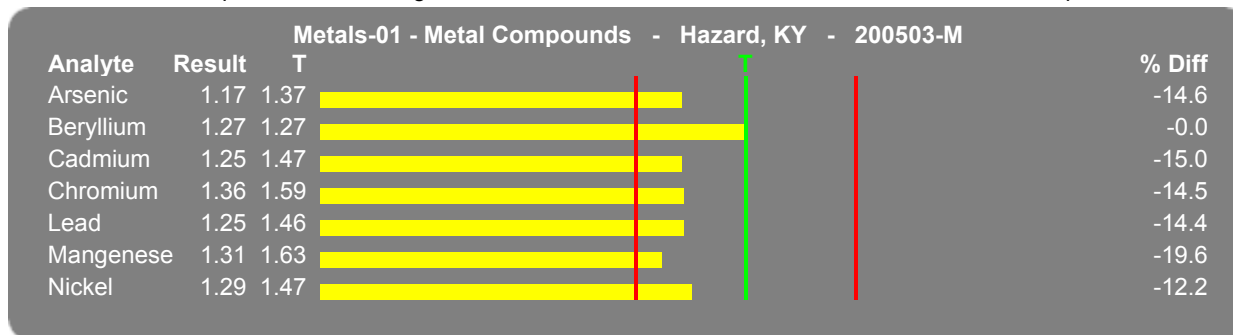
502-573-3382

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Hazard, KY - 200503-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
201 Arsenic	IO-3.5	S. Dutton	ug/filter	1.17	1.37	-14.6	20 1.10 to 1.64	25 1.03 to 1.71	
202 Beryllium	IO-3.5	S. Dutton	ug/filter	1.27	1.27	-0.0	20 1.02 to 1.52	25 0.953 to 1.59	
203 Cadmium	IO-3.5	S. Dutton	ug/filter	1.25	1.47	-15.0	20 1.18 to 1.76	25 1.10 to 1.84	
204 Chromium	IO-3.5	S. Dutton	ug/filter	1.36	1.59	-14.5	20 1.27 to 1.91	25 1.19 to 1.99	
205 Lead	IO-3.5	S. Dutton	ug/filter	1.25	1.46	-14.4	20 1.17 to 1.75	25 1.10 to 1.83	
206 Manganese	IO-3.5	S. Dutton	ug/filter	1.31	1.63	-19.6	20 1.30 to 1.96	25 1.22 to 2.04	
208 Nickel	IO-3.5	S. Dutton	ug/filter	1.29	1.47	-12.2	20 1.18 to 1.76	25 1.10 to 1.84	

Accepted
 Warning
 Outside
 Outlier
 NE Not Evaluated
 NR Not Reported



PTNATTS PE Report

3/22/2006



Study: 200503-M Close Date: 09/23/2005 Lab Code: 04-04-M

This evaluation report is being submitted for:

Atlanta, GA
 Attention: Susan Zimmer-Dauphinee
 GA DNR EPD Laboratory
 455 14th Street
 Atlanta, GA, 30318

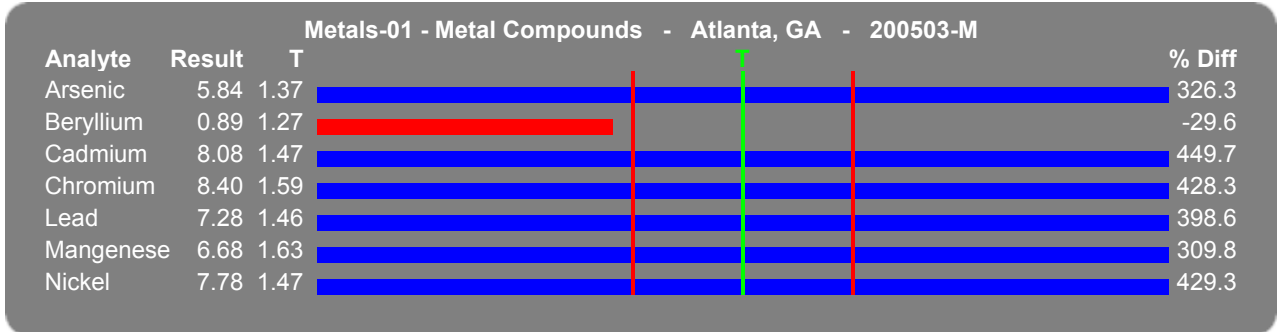
404-363-7004

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Atlanta, GA - 200503-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
201 Arsenic	IO-3.5	NT	ug/filter	5.84	1.37	326.3	20 1.10 to 1.64	25 1.03 to 1.71	> 25%
202 Beryllium	IO-3.5	NT	ug/filter	0.894	1.27	-29.6	20 1.02 to 1.52	25 0.953 to 1.59	< 25%
203 Cadmium	IO-3.5	NT	ug/filter	8.08	1.47	449.7	20 1.18 to 1.76	25 1.10 to 1.84	> 25%
204 Chromium	IO-3.5	NT	ug/filter	8.4	1.59	428.3	20 1.27 to 1.91	25 1.19 to 1.99	> 25%
205 Lead	IO-3.5	NT	ug/filter	7.28	1.46	398.6	20 1.17 to 1.75	25 1.10 to 1.83	> 25%
206 Manganese	IO-3.5	NT	ug/filter	6.68	1.63	309.8	20 1.30 to 1.96	25 1.22 to 2.04	> 25%
208 Nickel	IO-3.5	NT	ug/filter	7.78	1.47	429.3	20 1.18 to 1.76	25 1.10 to 1.84	> 25%

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

3/22/2006



Study: 200503-M Close Date: 09/23/2005 Lab Code: 05-01-M

This evaluation report is being submitted for:

Detroit, MI
 Attention: Mary Ann Heindorf
 DEQ Lab
 3350 N MLK Bldg.44 3rd Floor
 Lansing, MI, 48906

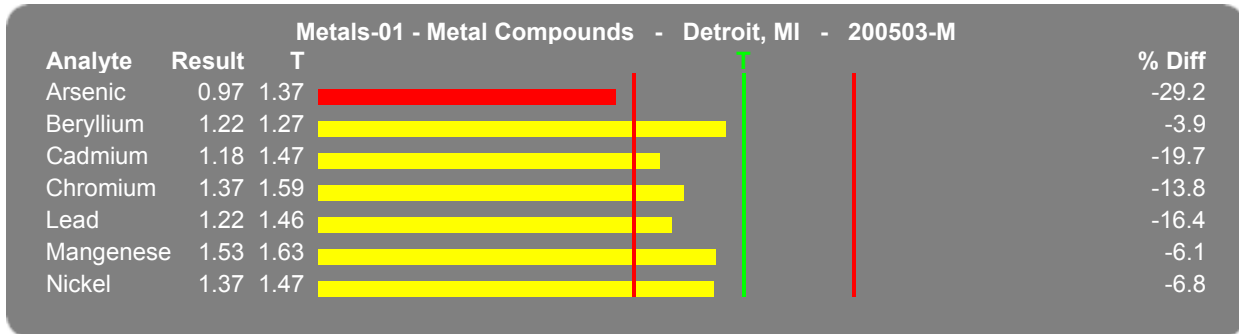
517-373-2151

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Detroit, MI - 200503-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
201 Arsenic	ICPMS	KS	ug/filter	0.97	1.37	-29.2	20 1.10 to 1.64	25 1.03 to 1.71	< 25%
202 Beryllium	ICPMS	KS	ug/filter	1.22	1.27	-3.9	20 1.02 to 1.52	25 0.953 to 1.59	
203 Cadmium	ICPMS	KS	ug/filter	1.18	1.47	-19.7	20 1.18 to 1.76	25 1.10 to 1.84	WARNING
204 Chromium	ICPMS	KS	ug/filter	1.37	1.59	-13.8	20 1.27 to 1.91	25 1.19 to 1.99	
205 Lead	ICPMS	KS	ug/filter	1.22	1.46	-16.4	20 1.17 to 1.75	25 1.10 to 1.83	
206 Manganese	ICPMS	KS	ug/filter	1.53	1.63	-6.1	20 1.30 to 1.96	25 1.22 to 2.04	
208 Nickel	ICPMS	KS	ug/filter	1.37	1.47	-6.8	20 1.18 to 1.76	25 1.10 to 1.84	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ Not Evaluated
 ■ Not Reported



PTNATTS PE Report

3/22/2006



Study: 200503-M Close Date: 09/23/2005 Lab Code: 05-03-M

This evaluation report is being submitted for:

Mayville, WI
 Attention: Mark Allen
 Wisconsin DNR
 101 S Wester St
 Madison,, WI, 53707

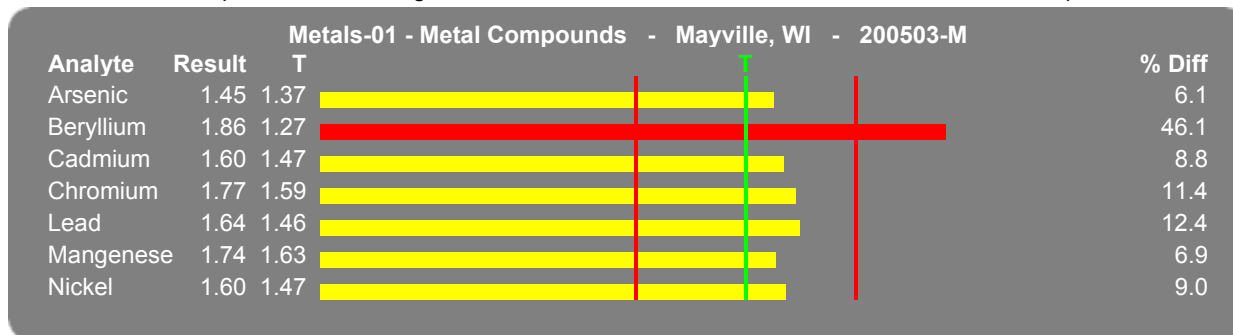
608-266-8049

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Mayville, WI - 200503-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
201 Arsenic	109, Hi-vol/PM	JS/CW	ug/filter	1.453	1.37	6.1	20 1.10 to 1.64	25 1.03 to 1.71	
202 Beryllium	109, Hi-vol/PM	JS/CW	ug/filter	1.855	1.27	46.1	20 1.02 to 1.52	25 0.953 to 1.59	> 25%
203 Cadmium	109, Hi-vol/PM	JS/CW	ug/filter	1.599	1.47	8.8	20 1.18 to 1.76	25 1.10 to 1.84	
204 Chromium	109, Hi-vol/PM	JS/CW	ug/filter	1.771	1.59	11.4	20 1.27 to 1.91	25 1.19 to 1.99	
205 Lead	109, Hi-vol/PM	JS/CW	ug/filter	1.641	1.46	12.4	20 1.17 to 1.75	25 1.10 to 1.83	
206 Manganese	109, Hi-vol/PM	JS/CW	ug/filter	1.742	1.63	6.9	20 1.30 to 1.96	25 1.22 to 2.04	
208 Nickel	109, Hi-vol/PM	JS/CW	ug/filter	1.603	1.47	9.0	20 1.18 to 1.76	25 1.10 to 1.84	

Accepted
 Warning
 Outside
 Outlier
 NE Not Evaluated
 NR Not Reported



PTNATTS PE Report

3/22/2006



Study: 200503-M Close Date: 09/23/2005 Lab Code: 08-02-M

This evaluation report is being submitted for:

Grand Junction
 Attention: Gordon Pierce
 Co DPHE APCD-TS-B1
 4300 Cherry Creek Drive South
 Denver, CO, 80246

303-692-3238

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Grand Junction - 200503-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
201 Arsenic	IO-3.5	MS	ug/filter	1.03	1.37	-24.8	20 1.10 to 1.64	25 1.03 to 1.71	< 25%
202 Beryllium	IO-3.5	MS	ug/filter	1.06	1.27	-16.5	20 1.02 to 1.52	25 0.953 to 1.59	
203 Cadmium	IO-3.5	MS	ug/filter	1.22	1.47	-17.0	20 1.18 to 1.76	25 1.10 to 1.84	
204 Chromium	IO-3.5	MS	ug/filter	1.55	1.59	-2.5	20 1.27 to 1.91	25 1.19 to 1.99	
205 Lead	IO-3.5	MS	ug/filter	1.29	1.46	-11.6	20 1.17 to 1.75	25 1.10 to 1.83	
206 Manganese	IO-3.5	MS	ug/filter	1.38	1.63	-15.3	20 1.30 to 1.96	25 1.22 to 2.04	
208 Nickel	IO-3.5	MS	ug/filter	1.26	1.47	-14.3	20 1.18 to 1.76	25 1.10 to 1.84	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ Not Evaluated
 ■ Not Reported



PTNATTS PE Report

3/27/2006



Study: 200503-M Close Date: 09/23/2005 Lab Code: 10-01-M

This evaluation report is being submitted for:

Seattle, Washington
 Attention: Rich Westberg
 Center For Laboratory Services RJL Group
 2715 St. Andrews Loop, Suite F
 Pasco, WA, 99301

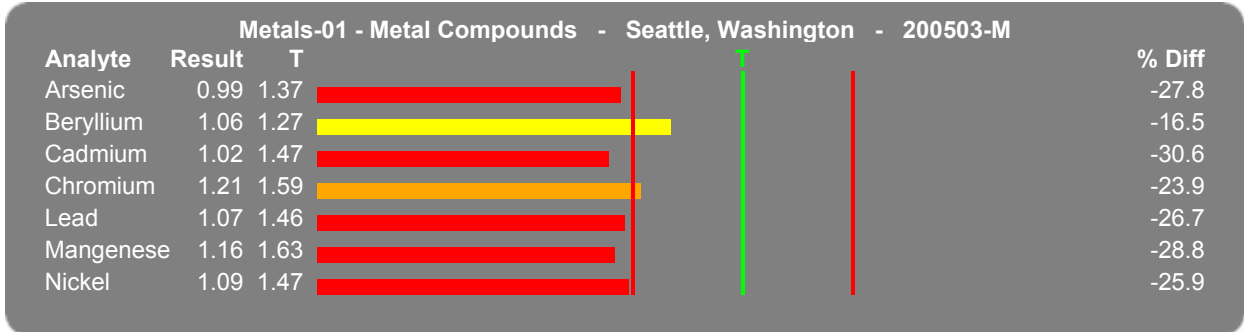
509-545-4989

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Seattle, Washington - 200503-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
201 Arsenic	IO-3.5	A. Goodall	ug/filter	0.989	1.37	-27.8	20 1.10 to 1.64	25 1.03 to 1.71	< 25%
202 Beryllium	IO-3.5	A. Goodall	ug/filter	1.06	1.27	-16.5	20 1.02 to 1.52	25 0.953 to 1.59	
203 Cadmium	IO-3.5	A. Goodall	ug/filter	1.02	1.47	-30.6	20 1.18 to 1.76	25 1.10 to 1.84	< 25%
204 Chromium	IO-3.5	A. Goodall	ug/filter	1.21	1.59	-23.9	20 1.27 to 1.91	25 1.19 to 1.99	WARNING
205 Lead	IO-3.5	A. Goodall	ug/filter	1.07	1.46	-26.7	20 1.17 to 1.75	25 1.10 to 1.83	< 25%
206 Manganese	IO-3.5	A. Goodall	ug/filter	1.16	1.63	-28.8	20 1.30 to 1.96	25 1.22 to 2.04	< 25%
208 Nickel	IO-3.5	A. Goodall	ug/filter	1.09	1.47	-25.9	20 1.18 to 1.76	25 1.10 to 1.84	< 25%

Accepted
 Warning
 Outside
 Outlier
 NE Not Evaluated
 NR Not Reported



PTNATTS PE Report

3/22/2006



Study: 200503-M Close Date: 09/23/2005 Lab Code: 10-02-M

This evaluation report is being submitted for:

Oregon DEQ
 Attention: Gregg Lande
 Oregon DEQ Lab
 1712 SW 11th Ave
 Portland, OR, 97201

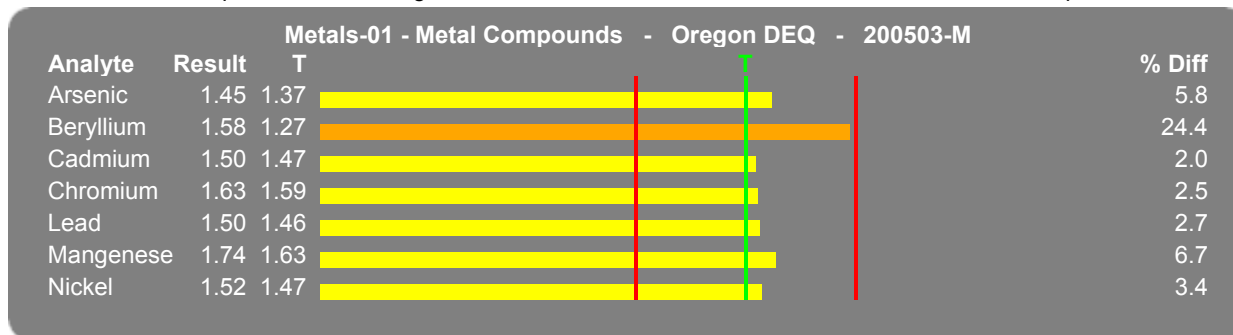
503-229-6411

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Oregon DEQ - 200503-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
201 Arsenic	Mod.CARB/IO-3.5	GY/KY	ug/filter	1.45	1.37	5.8	20 1.10 to 1.64	25 1.03 to 1.71	
202 Beryllium	Mod.CARB/IO-3.5	GY/KY	ug/filter	1.58	1.27	24.4	20 1.02 to 1.52	25 0.953 to 1.59	WARNING
203 Cadmium	Mod.CARB/IO-3.5	GY/KY	ug/filter	1.5	1.47	2.0	20 1.18 to 1.76	25 1.10 to 1.84	
204 Chromium	Mod.CARB/IO-3.5	GY/KY	ug/filter	1.63	1.59	2.5	20 1.27 to 1.91	25 1.19 to 1.99	
205 Lead	Mod.CARB/IO-3.5	GY/KY	ug/filter	1.5	1.46	2.7	20 1.17 to 1.75	25 1.10 to 1.83	
206 Manganese	Mod.CARB/IO-3.5	GY/KY	ug/filter	1.74	1.63	6.7	20 1.30 to 1.96	25 1.22 to 2.04	
208 Nickel	Mod.CARB/IO-3.5	GY/KY	ug/filter	1.52	1.47	3.4	20 1.18 to 1.76	25 1.10 to 1.84	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ Not Evaluated
 ■ Not Reported



PTNATTS PE Report

3/22/2006



Study: 200503-M Close Date: 09/23/2005 Lab Code: 11-01-M

This evaluation report is being submitted for:
 Roxbury, MA Providence, RI, St Louis, MO Bountiful
 Attention: Julie Swift
 ERG
 601 Keystone Park Drive Suite 700
 Morrisville, NC, 27560

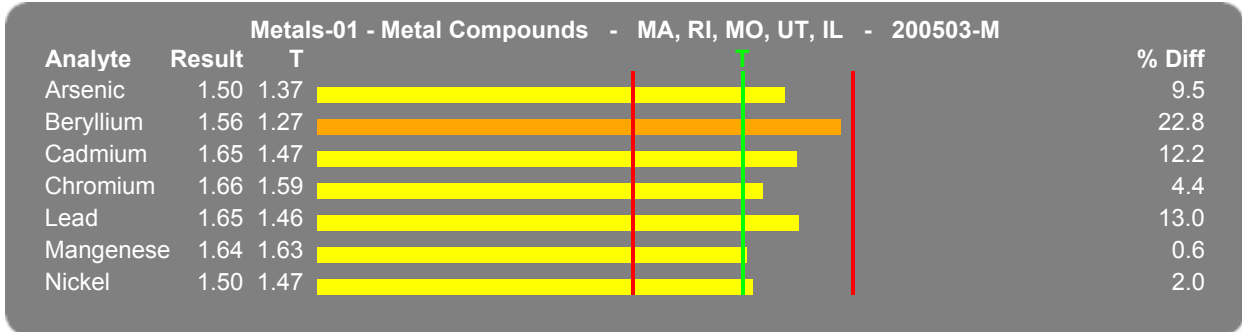
919-468-7924

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - MA, RI, MO, UT, IL - 200503-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
201 Arsenic	IO-3.5	M.F.	ug/filter	1.5	1.37	9.5	20 1.10 to 1.64	25 1.03 to 1.71	WARNING
202 Beryllium	IO-3.5	M.F.	ug/filter	1.56	1.27	22.8	20 1.02 to 1.52	25 0.953 to 1.59	
203 Cadmium	IO-3.5	M.F.	ug/filter	1.65	1.47	12.2	20 1.18 to 1.76	25 1.10 to 1.84	
204 Chromium	IO-3.5	M.F.	ug/filter	1.66	1.59	4.4	20 1.27 to 1.91	25 1.19 to 1.99	
205 Lead	IO-3.5	M.F.	ug/filter	1.65	1.46	13.0	20 1.17 to 1.75	25 1.10 to 1.83	
206 Manganese	IO-3.5	M.F.	ug/filter	1.64	1.63	0.6	20 1.30 to 1.96	25 1.22 to 2.04	
208 Nickel	IO-3.5	M.F.	ug/filter	1.5	1.47	2.0	20 1.18 to 1.76	25 1.10 to 1.84	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ Not Evaluated
 ■ NR Not Reported



Appendix C

200503-V

Individual Results and Summary Graphs

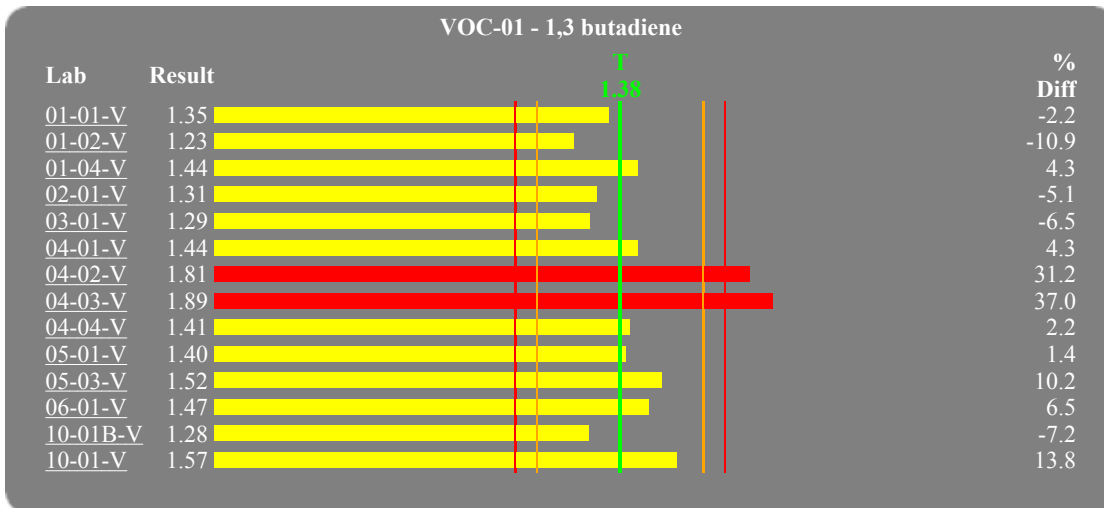
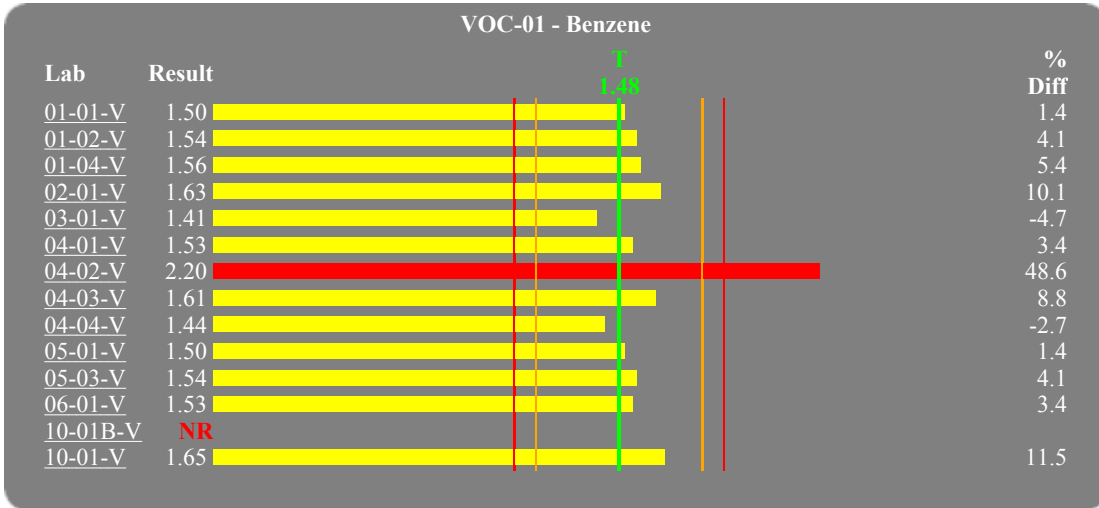
Analyte Results for a Specific Study

10/19/2005



Study Number: 200503-V

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



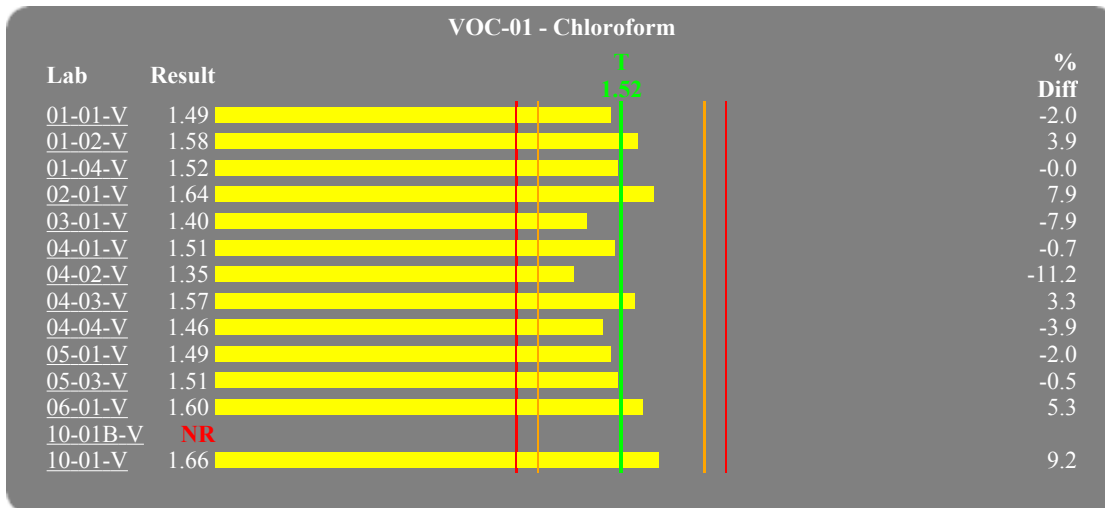
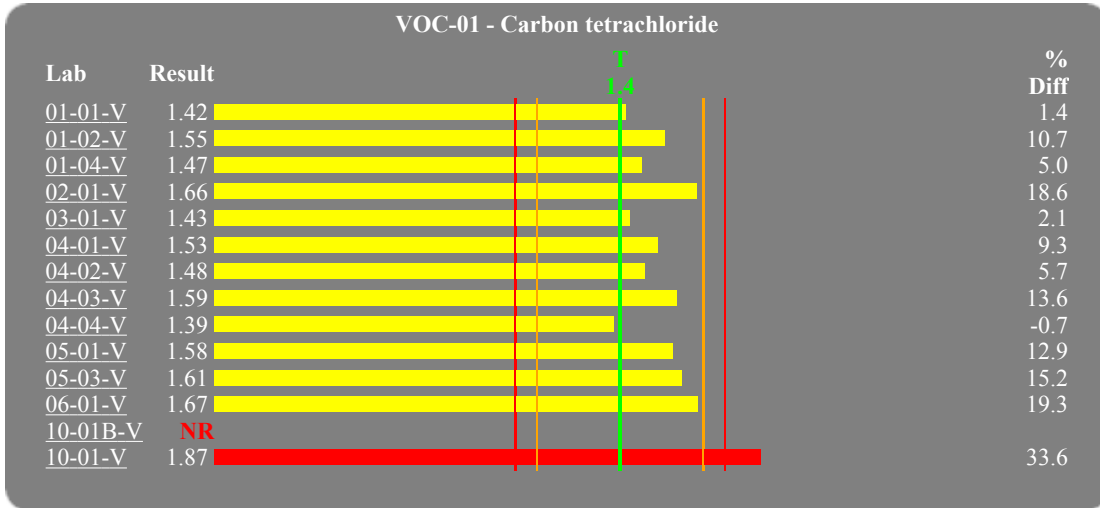
Analyte Results for a Specific Study

10/19/2005



Study Number: 200503-V

■ Accepted
 ■ Warning
 ■ Outside
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 ■ NE Not Evaluated
 ■ NR Not Reported



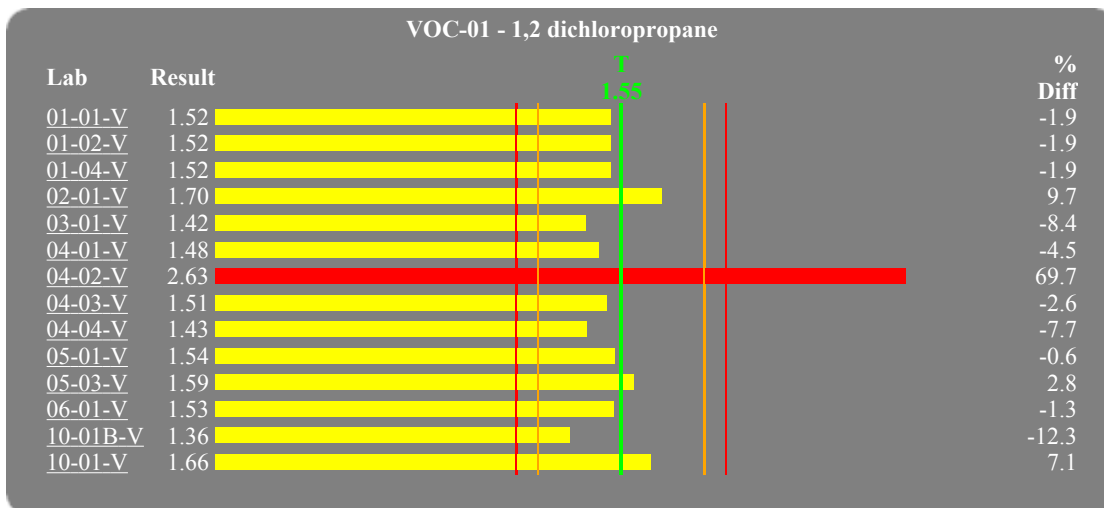
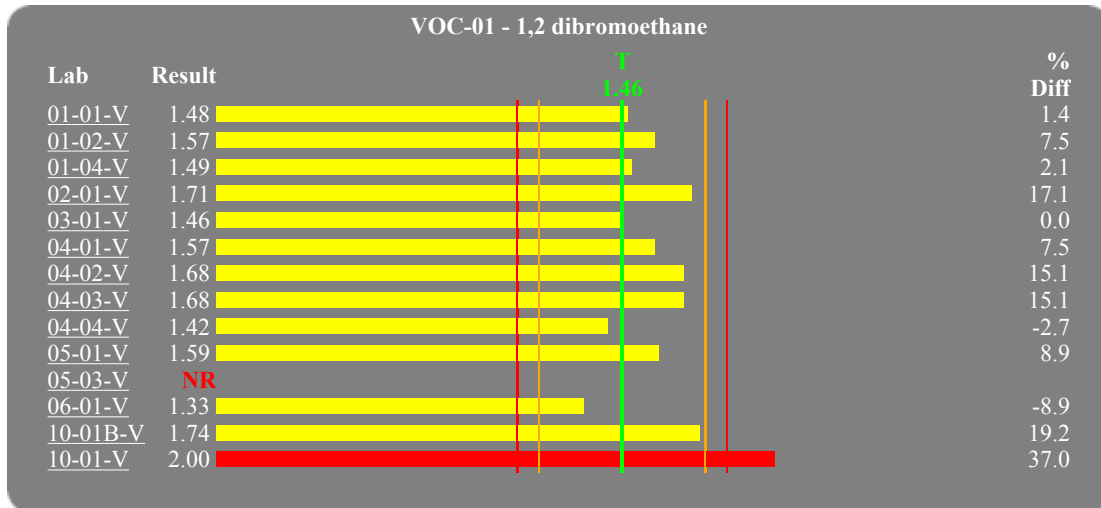
Analyte Results for a Specific Study

10/19/2005



Study Number: 200503-V

■ Accepted
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 ■ NE Not Evaluated
 ■ NR Not Reported



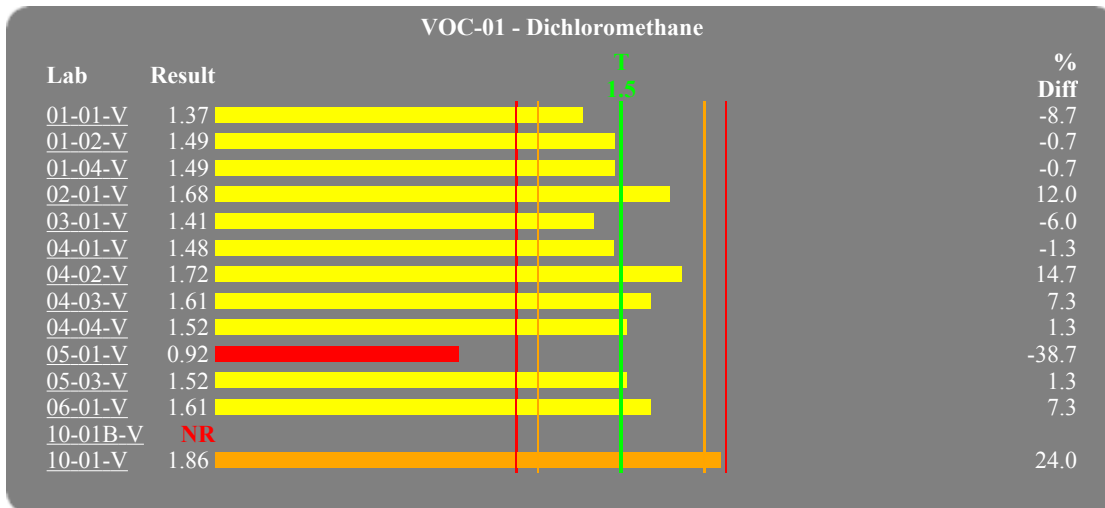
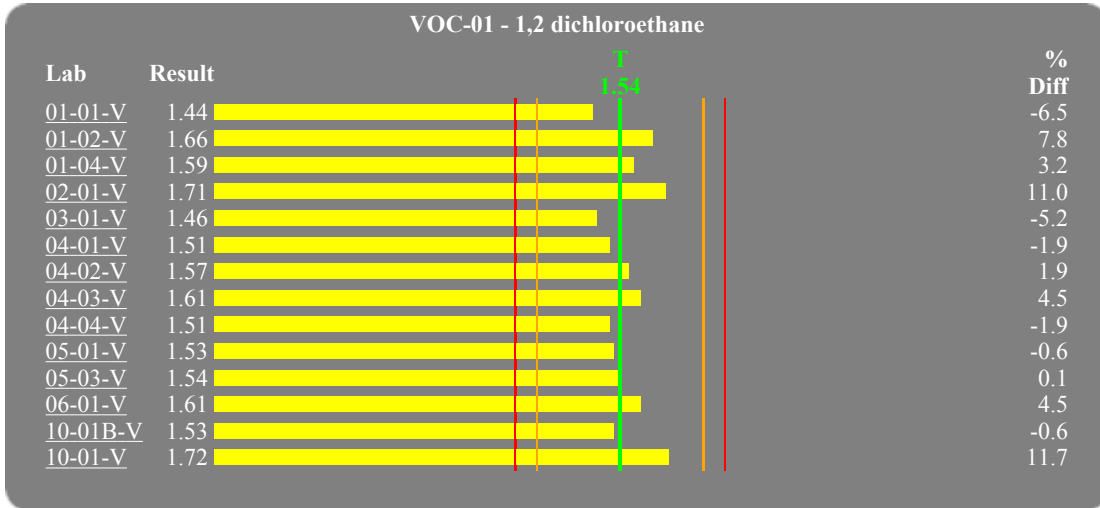
Analyte Results for a Specific Study

10/19/2005



Study Number: 200503-V

■ Accepted
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 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



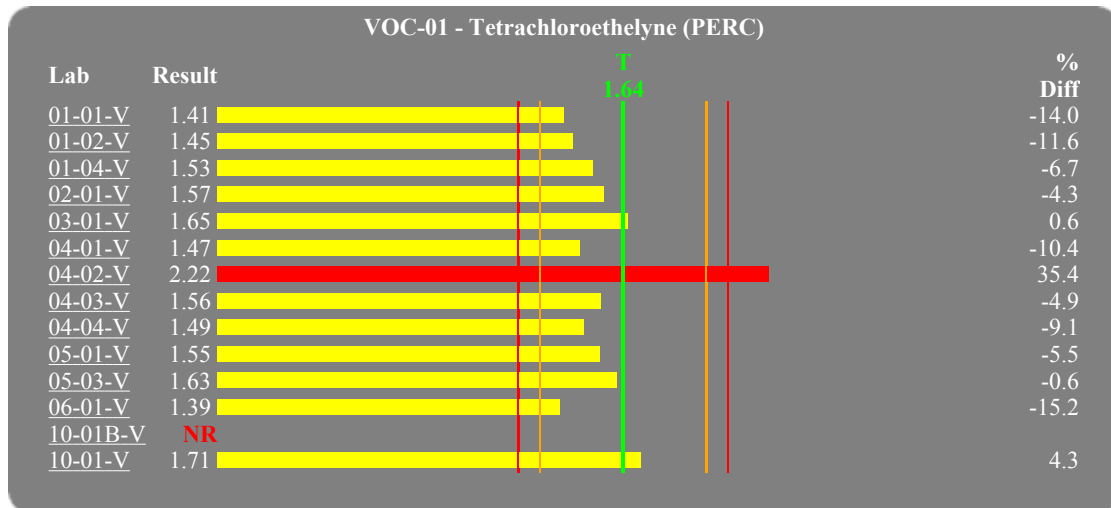
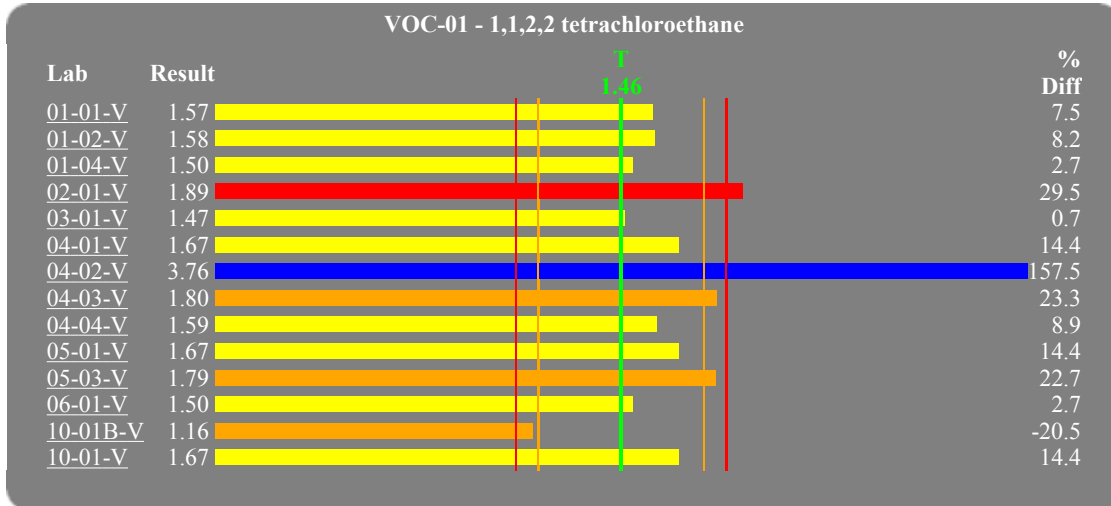
Analyte Results for a Specific Study

10/19/2005



Study Number: 200503-V

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



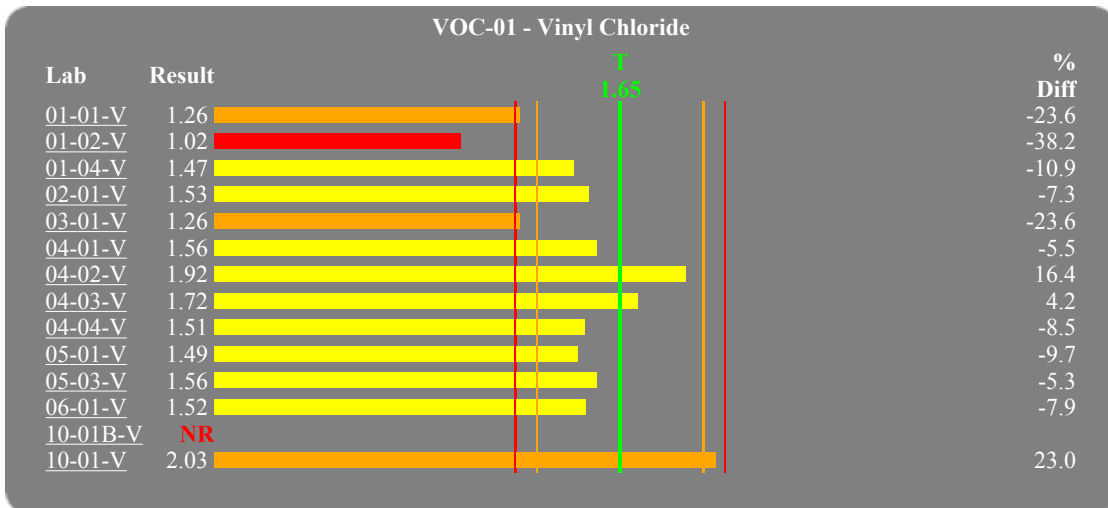
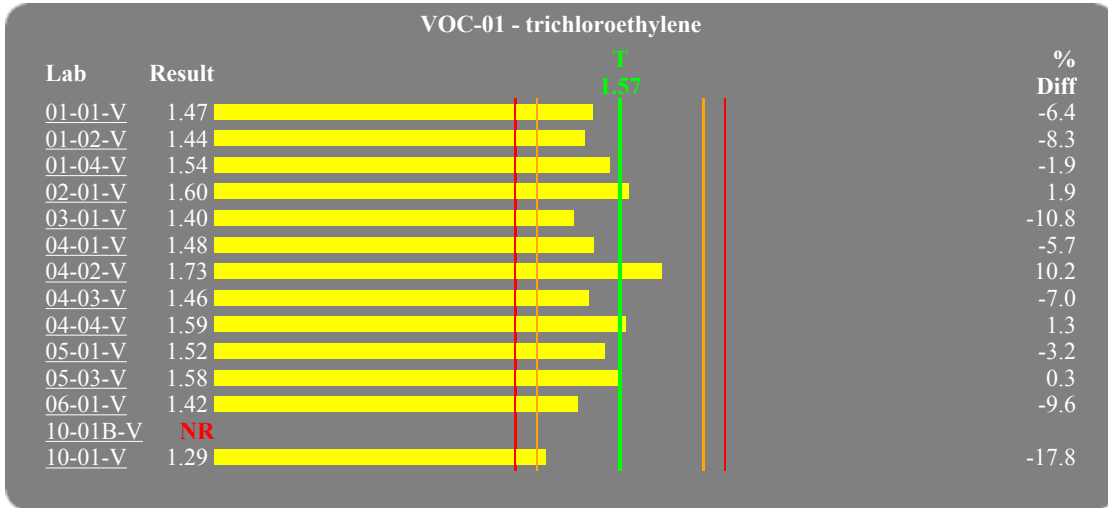
Analyte Results for a Specific Study

10/19/2005



Study Number: 200503-V

■ Accepted
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 ■ NE Not Evaluated
 ■ NR Not Reported



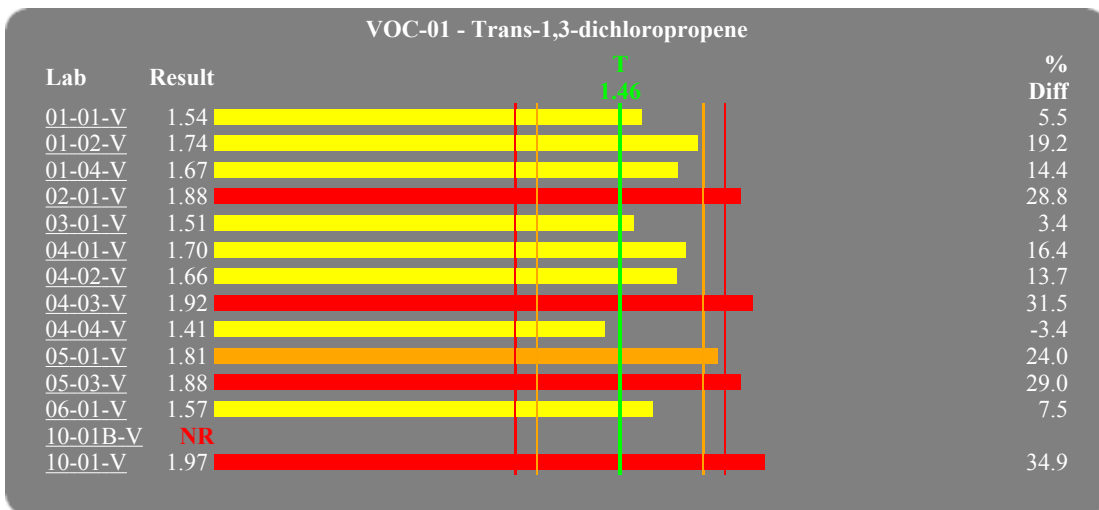
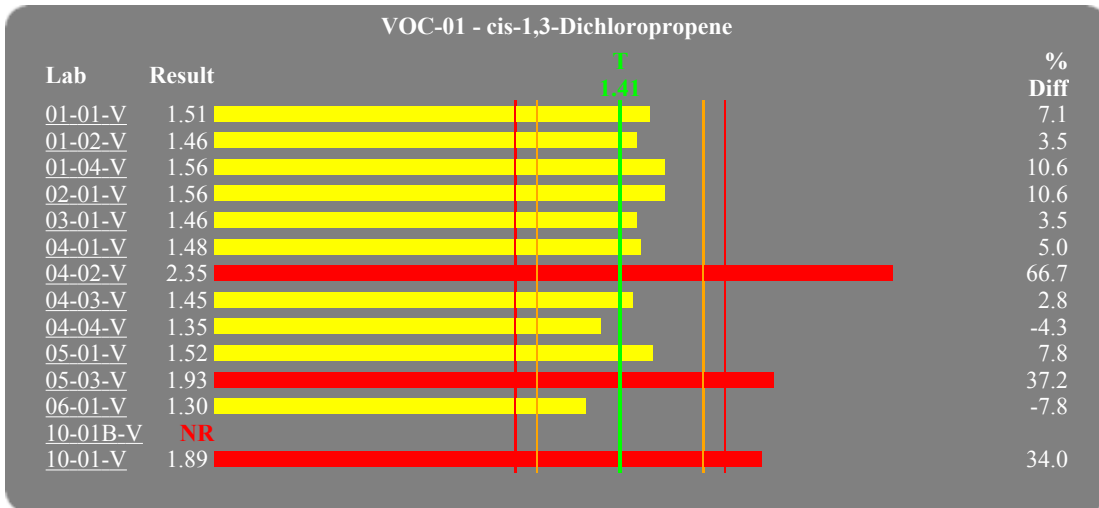
Analyte Results for a Specific Study

10/19/2005



Study Number: 200503-V

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



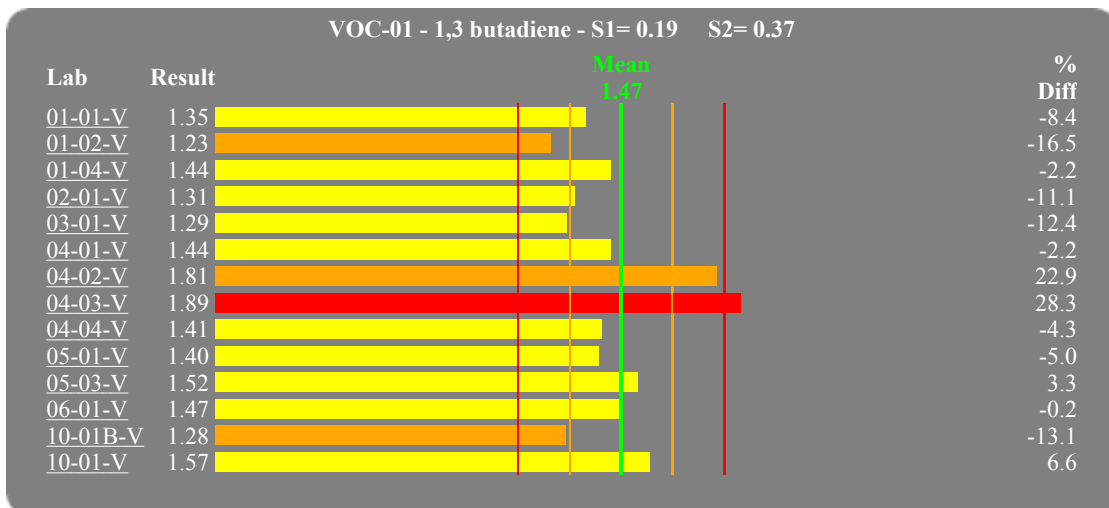
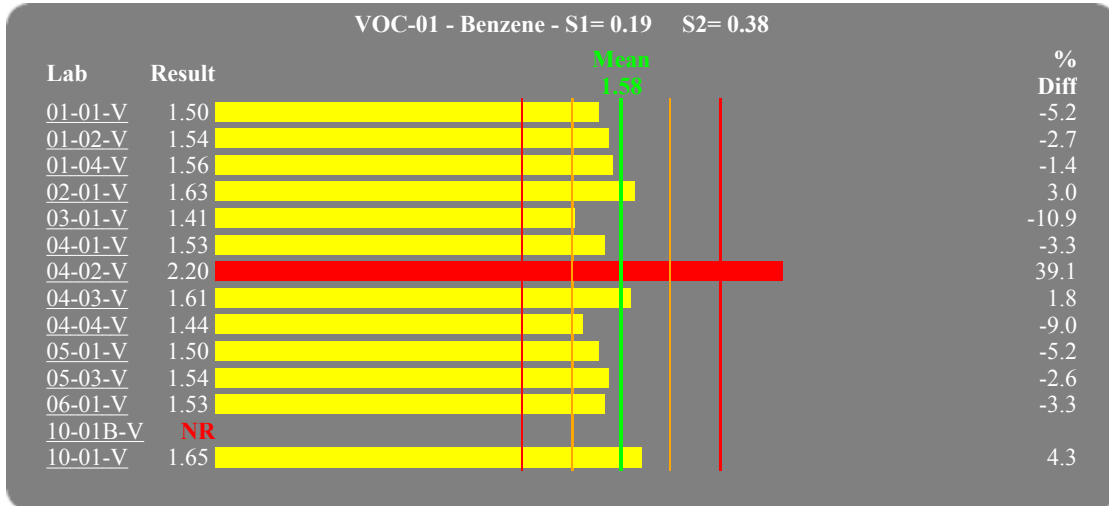
Analyte Results Versus the Study Mean

10/19/2005



Study Number: 200503-V

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported
 ■ NI No Information



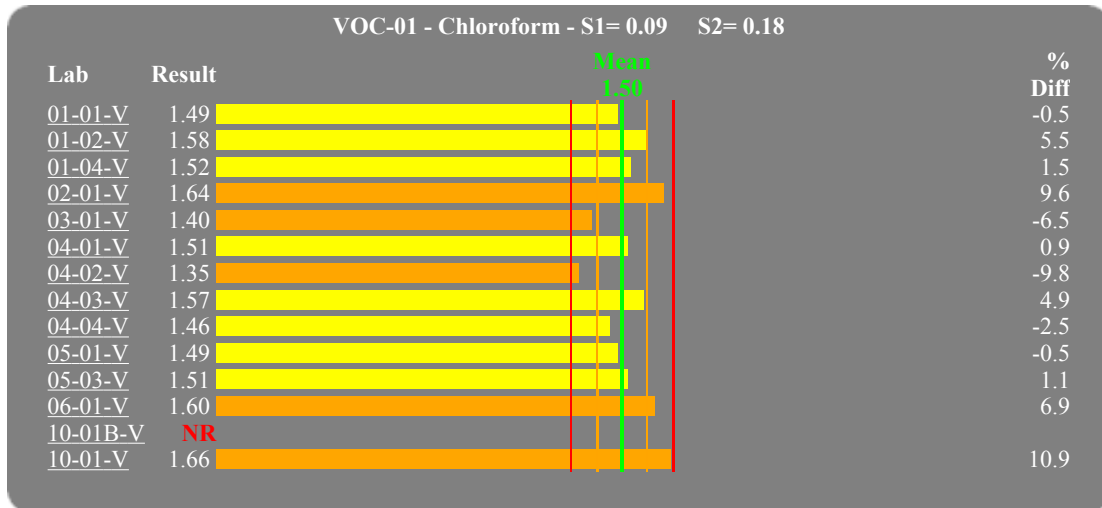
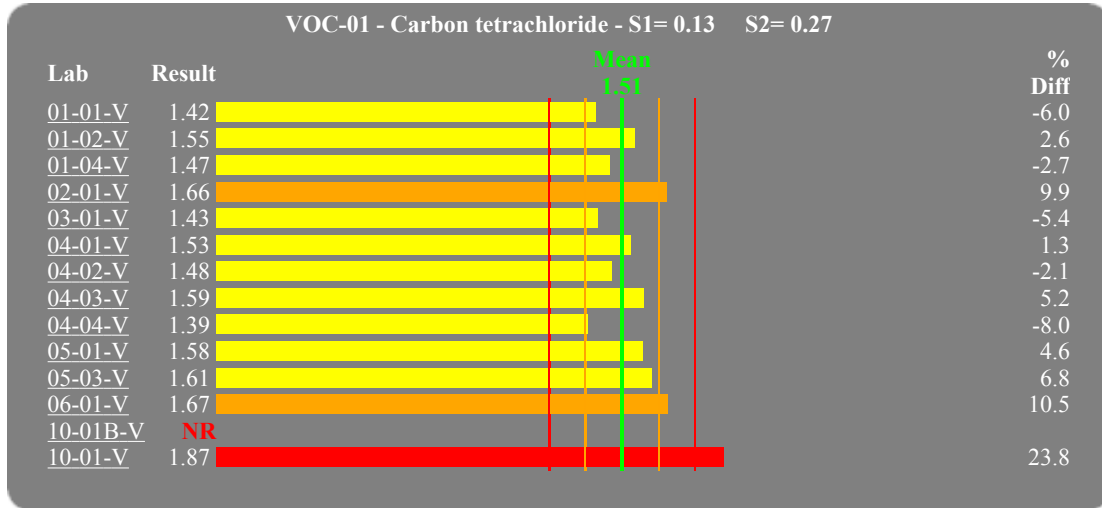
Analyte Results Versus the Study Mean

10/19/2005



Study Number: 200503-V

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
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 ■ NR Not Reported
 ■ NI No Information



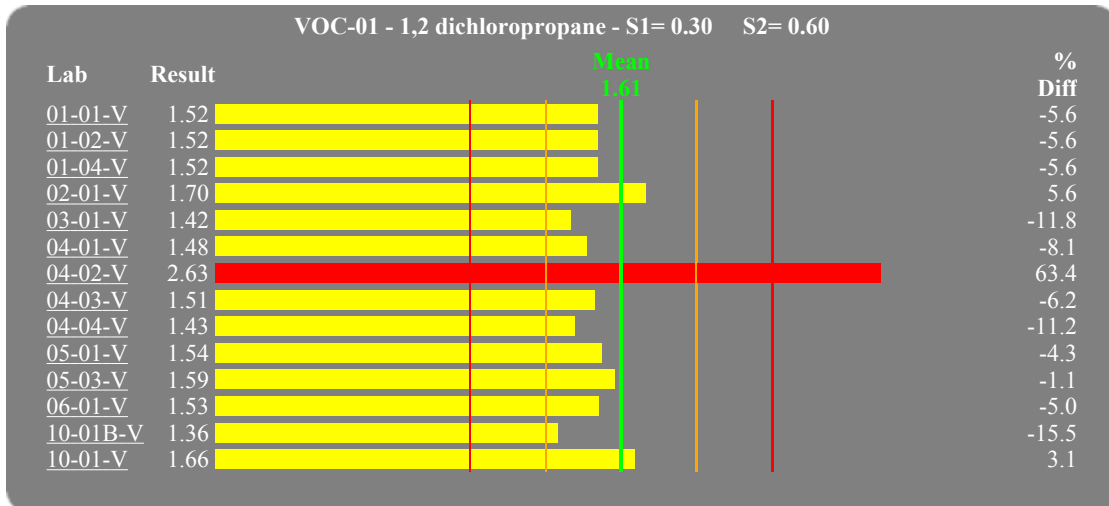
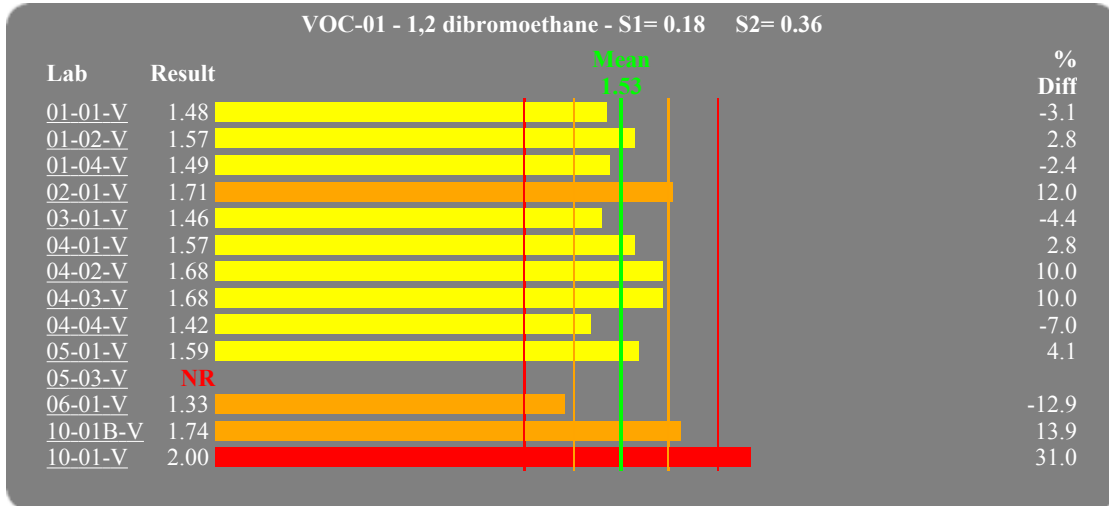
Analyte Results Versus the Study Mean

10/19/2005



Study Number: 200503-V

■ Accepted
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 ■ Outside
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 ■ NR Not Reported
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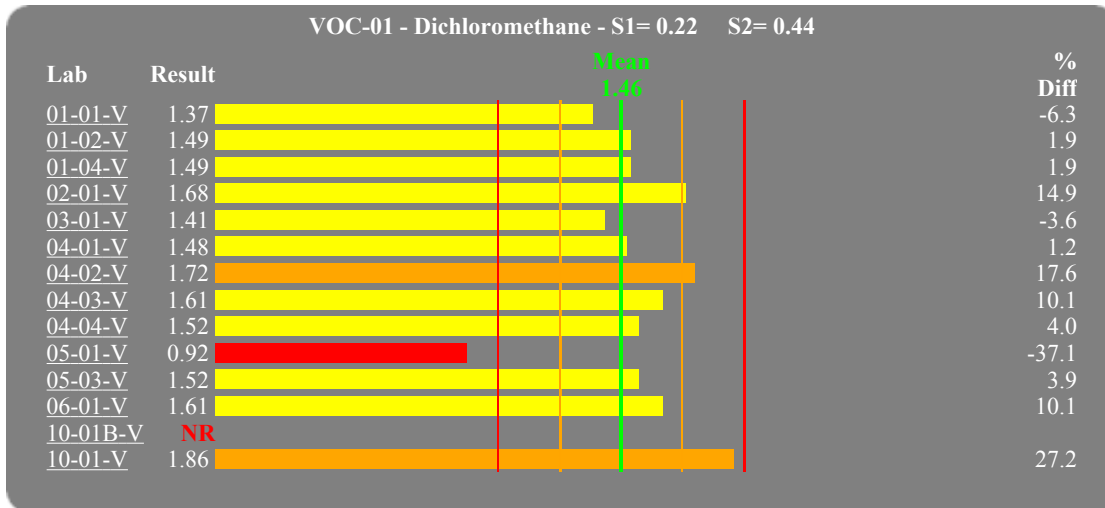
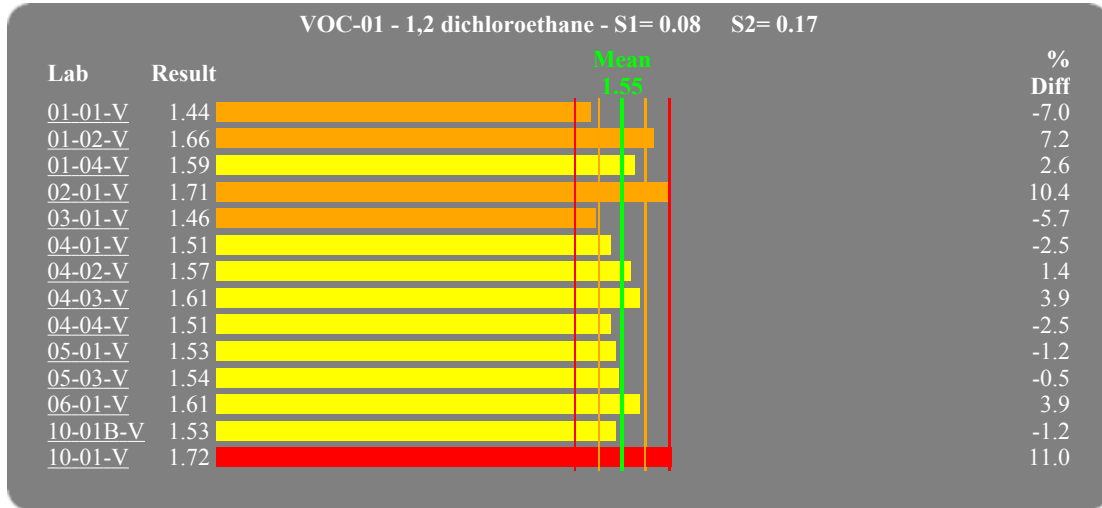
Analyte Results Versus the Study Mean

10/19/2005



Study Number: 200503-V

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported NI No Information



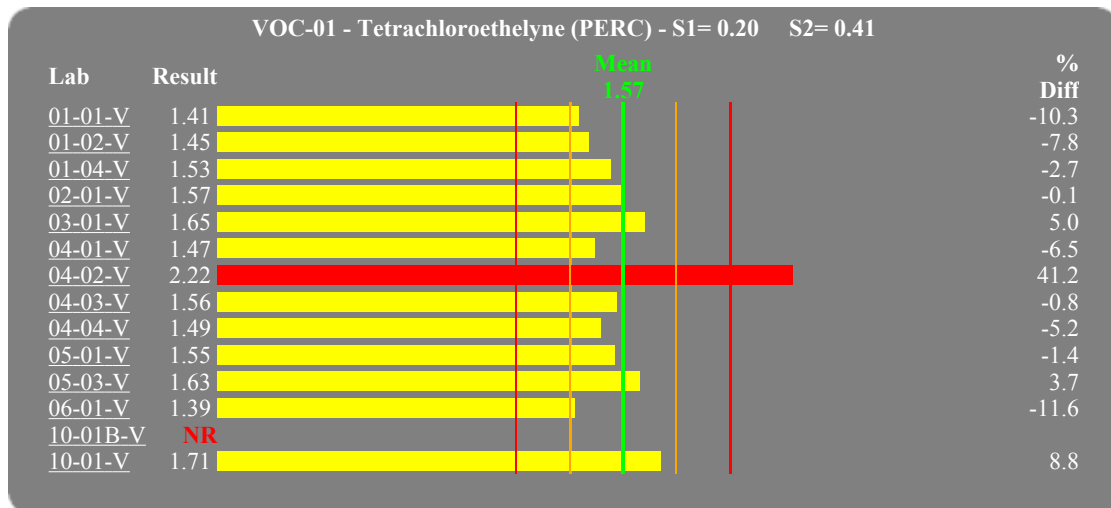
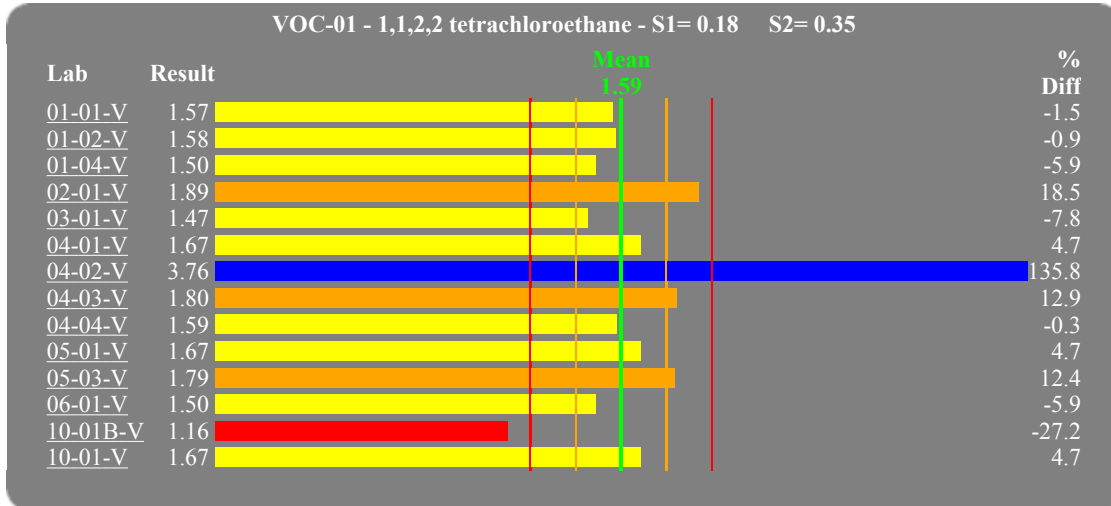
Analyte Results Versus the Study Mean

10/19/2005



Study Number: 200503-V

■ Accepted
 ■ Warning
 ■ Outside
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 ■ NE Not Evaluated
 ■ NR Not Reported
 ■ NI No Information



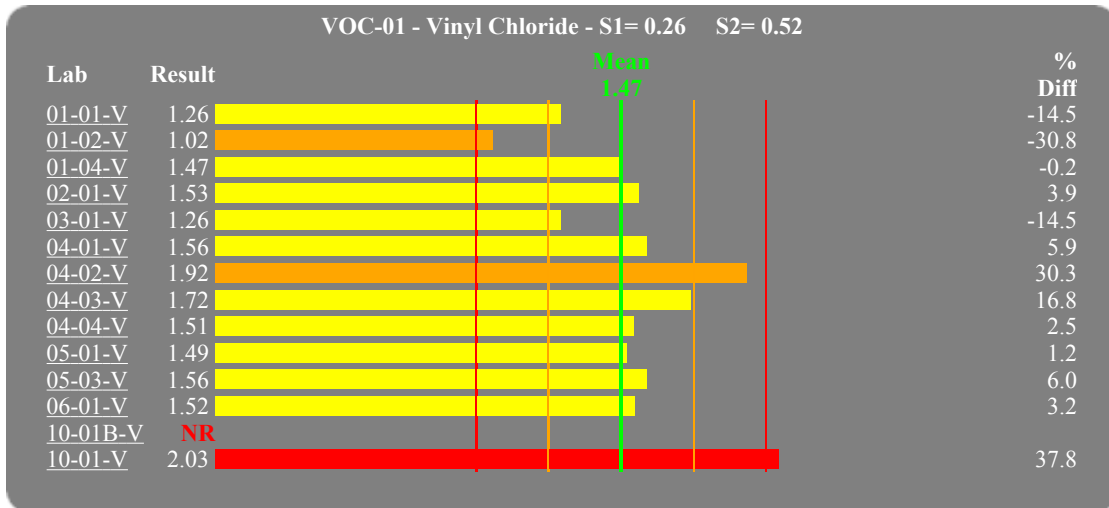
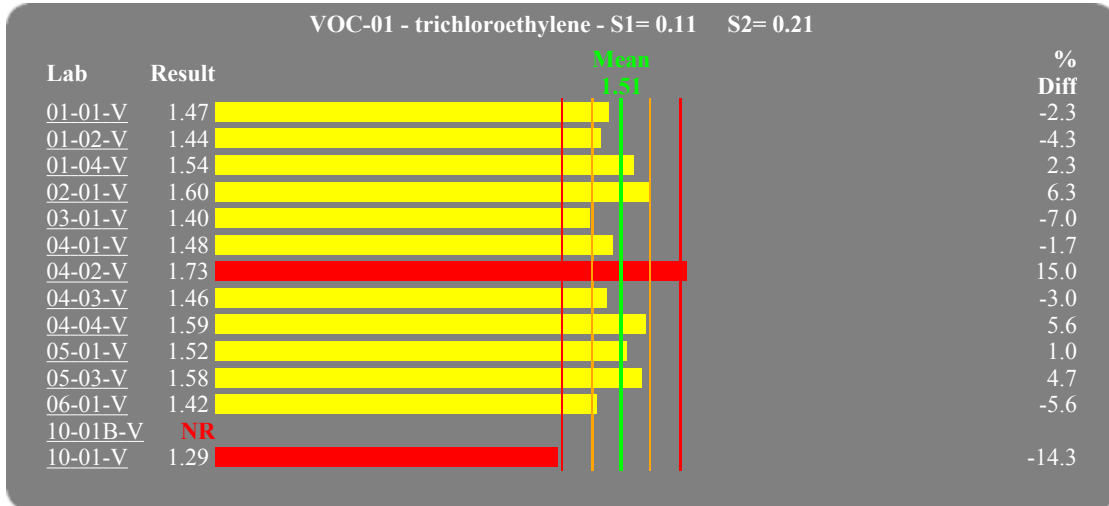
Analyte Results Versus the Study Mean

10/19/2005



Study Number: 200503-V

■ Accepted
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 ■ Outside
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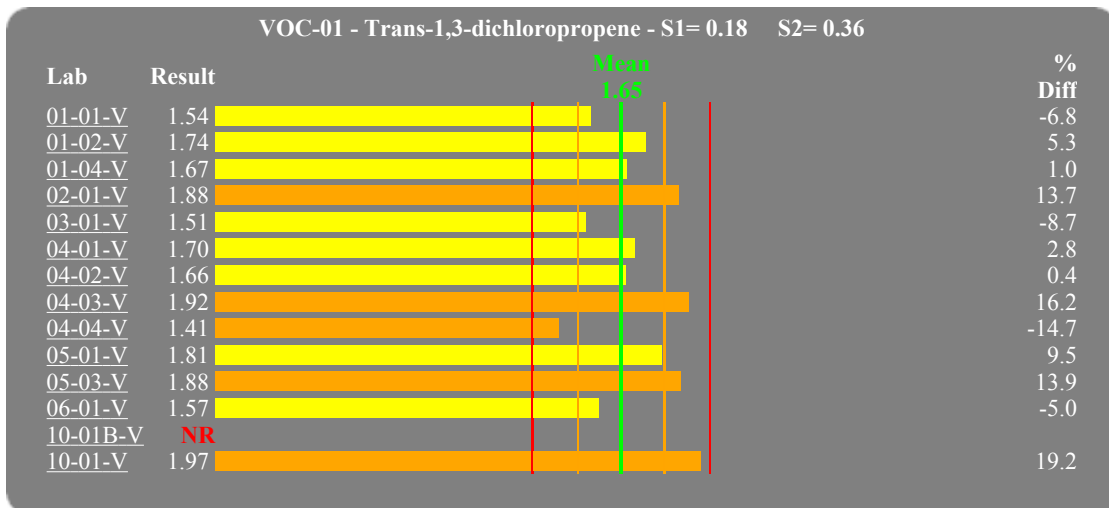
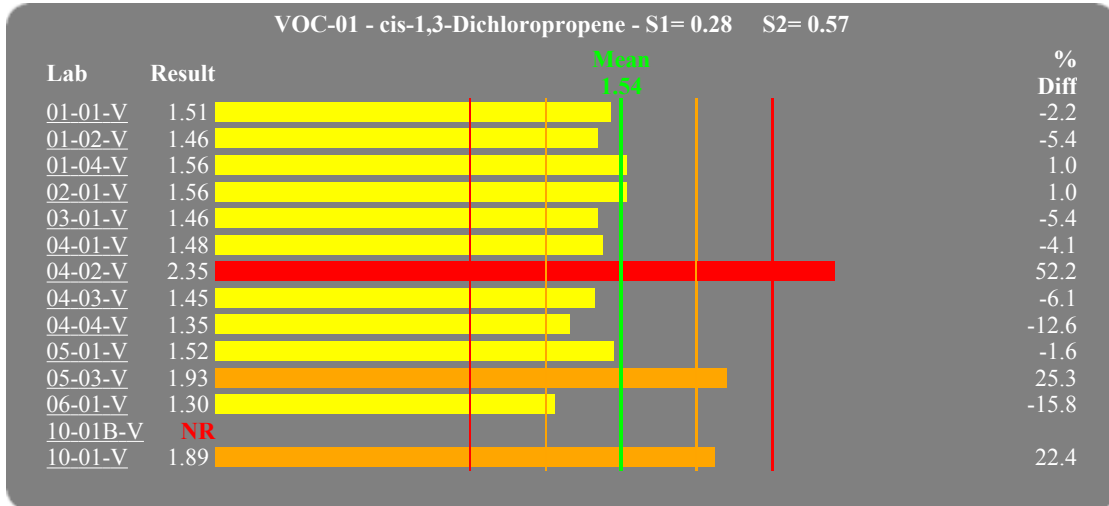
Analyte Results Versus the Study Mean

10/19/2005



Study Number: 200503-V

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported
 ■ NI No Information



PTNATTS PE Report

10/19/2005



Study: 200503-V Close Date: 10/15/2005 Lab Code: 01-01-V

This evaluation report is being submitted for:

Providence, RI
 Attention: Jeannine Dougherty
 RI Dept. of Health Lab.
 50 Orms Street
 Providence, RI, 02904

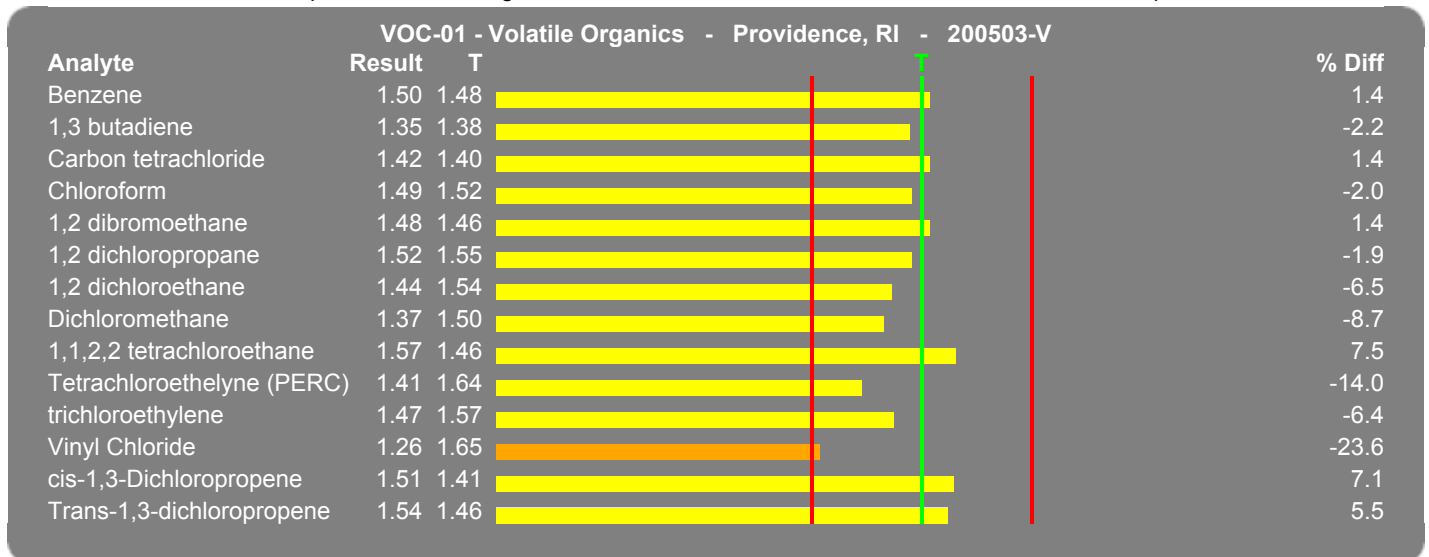
401-222-5550

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Providence, RI - 200503-V

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	Unk	RH	ppbv	1.5	1.48	1.4	20 1.18 to 1.78	25 1.11 to 1.85	
2 1,3 butadiene	Unk	RH	ppbv	1.35	1.38	-2.2	20 1.10 to 1.66	25 1.04 to 1.72	
3 Carbon tetrachloride	Unk	RH	ppbv	1.42	1.40	1.4	20 1.12 to 1.68	25 1.05 to 1.75	
4 Chloroform	Unk	RH	ppbv	1.49	1.52	-2.0	20 1.22 to 1.82	25 1.14 to 1.90	
5 1,2 dibromoethane	Unk	RH	ppbv	1.48	1.46	1.4	20 1.17 to 1.75	25 1.10 to 1.83	
8 1,2 dichloropropane	Unk	RH	ppbv	1.52	1.55	-1.9	20 1.24 to 1.86	25 1.16 to 1.94	
9 1,2 dichloroethane	Unk	RH	ppbv	1.44	1.54	-6.5	20 1.23 to 1.85	25 1.16 to 1.93	
11 Dichloromethane	Unk	RH	ppbv	1.37	1.50	-8.7	20 1.20 to 1.80	25 1.13 to 1.88	
12 1,1,2,2 tetrachloroethane	Unk	RH	ppbv	1.57	1.46	7.5	20 1.17 to 1.75	25 1.10 to 1.83	
13 Tetrachloroethelyne (PERC)	Unk	RH	ppbv	1.41	1.64	-14.0	20 1.31 to 1.97	25 1.23 to 2.05	
14 trichloroethylene	Unk	RH	ppbv	1.47	1.57	-6.4	20 1.26 to 1.88	25 1.18 to 1.96	
15 Vinyl Chloride	Unk	RH	ppbv	1.26	1.65	-23.6	20 1.32 to 1.98	25 1.24 to 2.06	WARNING
16 cis-1,3-Dichloropropene	Unk	RH	ppbv	1.51	1.41	7.1	20 1.13 to 1.69	25 1.06 to 1.76	
17 Trans-1,3-dichloropropene	Unk	RH	ppbv	1.54	1.46	5.5	20 1.17 to 1.75	25 1.10 to 1.83	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

10/19/2005



Study: 200503-V Close Date: 10/15/2005 Lab Code: 01-02-V

This evaluation report is being submitted for:

Chittenden, VT
 Attention: Chris Russo
 Vermont DEC Environmental Lab
 103 South Main Street
 Waterbury, VT, 05671-0409

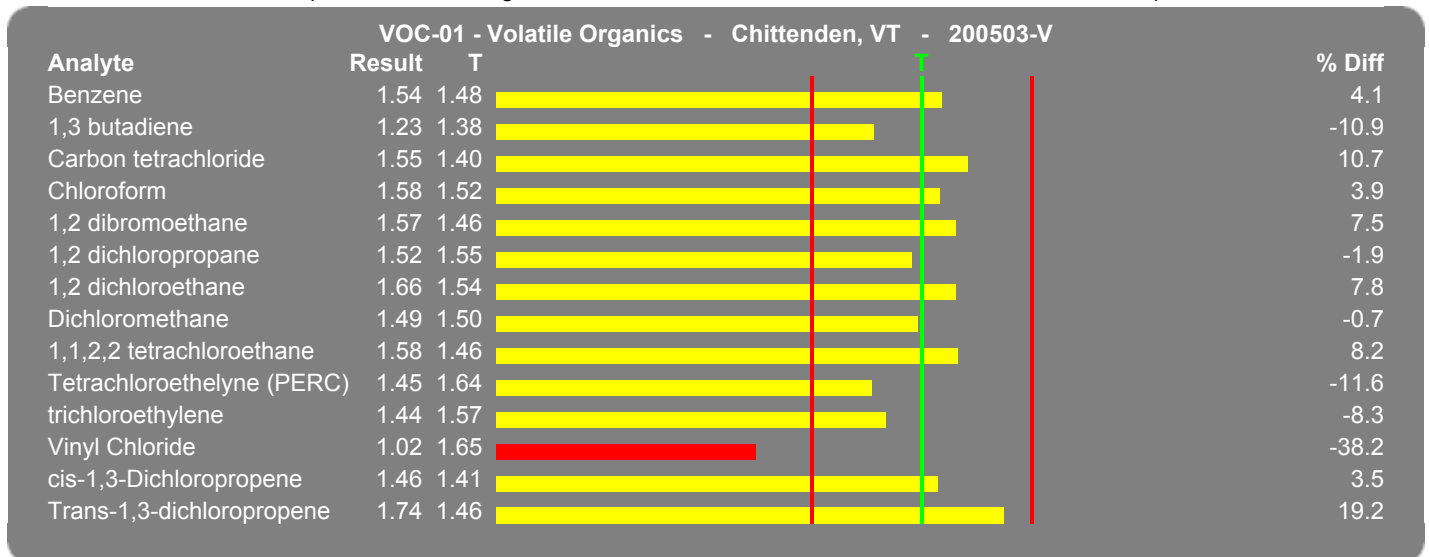
802-241-1381

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Chittenden, VT - 200503-V

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	TO-15	SRL	ppbv	1.54	1.48	4.1	20 1.18 to 1.78	25 1.11 to 1.85	
2 1,3 butadiene	TO-15	SRL	ppbv	1.23	1.38	-10.9	20 1.10 to 1.66	25 1.04 to 1.72	
3 Carbon tetrachloride	TO-15	SRL	ppbv	1.55	1.40	10.7	20 1.12 to 1.68	25 1.05 to 1.75	
4 Chloroform	TO-15	SRL	ppbv	1.58	1.52	3.9	20 1.22 to 1.82	25 1.14 to 1.90	
5 1,2 dibromoethane	TO-15	SRL	ppbv	1.57	1.46	7.5	20 1.17 to 1.75	25 1.10 to 1.83	
8 1,2 dichloropropane	TO-15	SRL	ppbv	1.52	1.55	-1.9	20 1.24 to 1.86	25 1.16 to 1.94	
9 1,2 dichloroethane	TO-15	SRL	ppbv	1.66	1.54	7.8	20 1.23 to 1.85	25 1.16 to 1.93	
11 Dichloromethane	TO-15	SRL	ppbv	1.49	1.50	-0.7	20 1.20 to 1.80	25 1.13 to 1.88	
12 1,1,2,2 tetrachloroethane	TO-15	SRL	ppbv	1.58	1.46	8.2	20 1.17 to 1.75	25 1.10 to 1.83	
13 Tetrachloroethelyne (PERC)	TO-15	SRL	ppbv	1.45	1.64	-11.6	20 1.31 to 1.97	25 1.23 to 2.05	
14 trichloroethylene	TO-15	SRL	ppbv	1.44	1.57	-8.3	20 1.26 to 1.88	25 1.18 to 1.96	
15 Vinyl Chloride	TO-15	SRL	ppbv	1.02	1.65	-38.2	20 1.32 to 1.98	25 1.24 to 2.06	< 25%
16 cis-1,3-Dichloropropene	TO-15	SRL	ppbv	1.46	1.41	3.5	20 1.13 to 1.69	25 1.06 to 1.76	
17 Trans-1,3-dichloropropene	TO-15	SRL	ppbv	1.74	1.46	19.2	20 1.17 to 1.75	25 1.10 to 1.83	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

10/19/2005



Study: 200503-V Close Date: 10/15/2005 Lab Code: 01-04-V

This evaluation report is being submitted for:

Region 1
 Attention: Agnes VanLangenhove
 US EPA Region 1 Lab
 11 Technology Drive
 North Chelmsford, MA, 01863

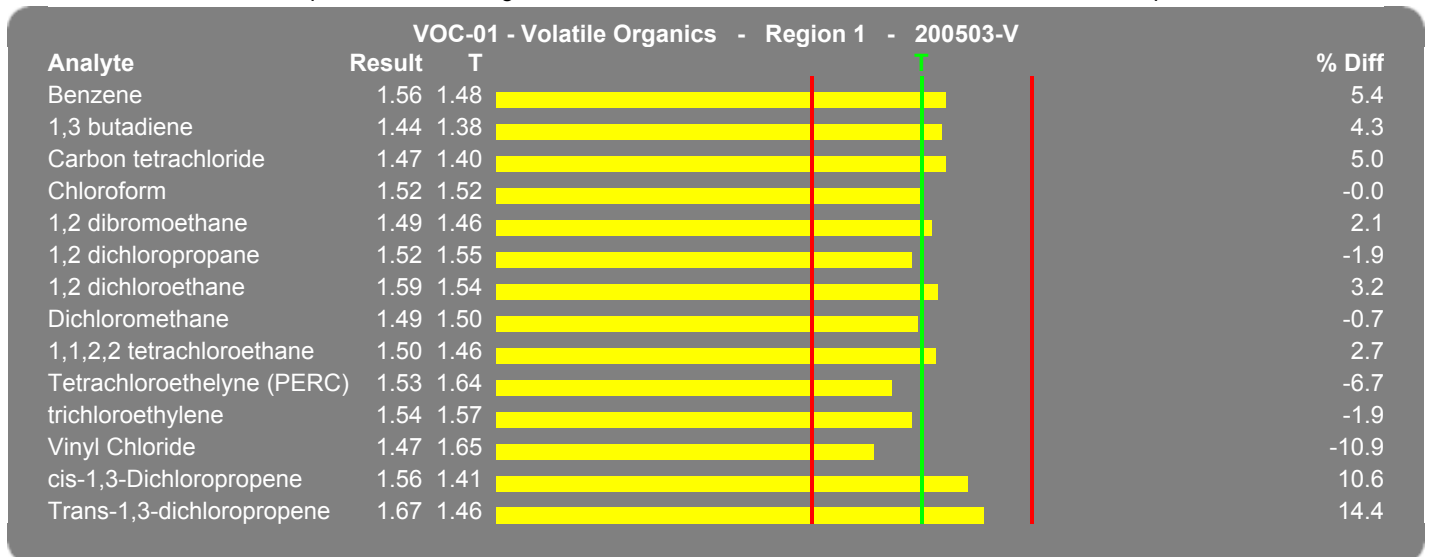
617-918-8338

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Region 1 - 200503-V

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	TO-15	DC	ppbv	1.56	1.48	5.4	20 1.18 to 1.78	25 1.11 to 1.85	
2 1,3 butadiene	TO-15	DC	ppbv	1.44	1.38	4.3	20 1.10 to 1.66	25 1.04 to 1.72	
3 Carbon tetrachloride	TO-15	DC	ppbv	1.47	1.40	5.0	20 1.12 to 1.68	25 1.05 to 1.75	
4 Chloroform	TO-15	DC	ppbv	1.52	1.52	-0.0	20 1.22 to 1.82	25 1.14 to 1.90	
5 1,2 dibromoethane	TO-15	DC	ppbv	1.49	1.46	2.1	20 1.17 to 1.75	25 1.10 to 1.83	
8 1,2 dichloropropane	TO-15	DC	ppbv	1.52	1.55	-1.9	20 1.24 to 1.86	25 1.16 to 1.94	
9 1,2 dichloroethane	TO-15	DC	ppbv	1.59	1.54	3.2	20 1.23 to 1.85	25 1.16 to 1.93	
11 Dichloromethane	TO-15	DC	ppbv	1.49	1.50	-0.7	20 1.20 to 1.80	25 1.13 to 1.88	
12 1,1,2,2 tetrachloroethane	TO-15	DC	ppbv	1.5	1.46	2.7	20 1.17 to 1.75	25 1.10 to 1.83	
13 Tetrachloroethelyne (PERC)	TO-15	DC	ppbv	1.53	1.64	-6.7	20 1.31 to 1.97	25 1.23 to 2.05	
14 trichloroethylene	TO-15	DC	ppbv	1.54	1.57	-1.9	20 1.26 to 1.88	25 1.18 to 1.96	
15 Vinyl Chloride	TO-15	DC	ppbv	1.47	1.65	-10.9	20 1.32 to 1.98	25 1.24 to 2.06	
16 cis-1,3-Dichloropropene	TO-15	DC	ppbv	1.56	1.41	10.6	20 1.13 to 1.69	25 1.06 to 1.76	
17 Trans-1,3-dichloropropene	TO-15	DC	ppbv	1.67	1.46	14.4	20 1.17 to 1.75	25 1.10 to 1.83	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

10/19/2005



Study: 200503-V Close Date: 10/15/2005 Lab Code: 02-01-V

This evaluation report is being submitted for:

Rochester and Queens
 Attention: Gary Boynton
 SUNY E. Campus, D Wing, Rm 112
 One University Place
 Rensselaer, NY, 12144

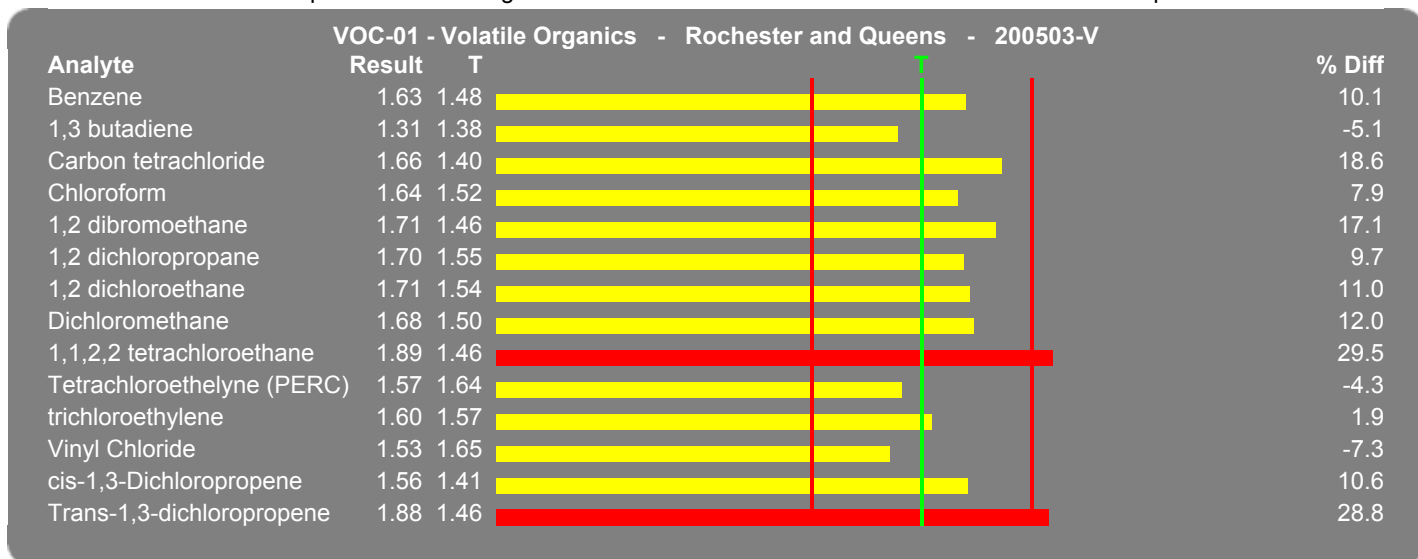
518-525-2733

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Rochester and Queens - 200503-V

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	150	J.Perry	ppbv	1.63	1.48	10.1	20 1.18 to 1.78	25 1.11 to 1.85	
2 1,3 butadiene	150	J.Perry	ppbv	1.31	1.38	-5.1	20 1.10 to 1.66	25 1.04 to 1.72	
3 Carbon tetrachloride	150	J.Perry	ppbv	1.66	1.40	18.6	20 1.12 to 1.68	25 1.05 to 1.75	
4 Chloroform	150	J.Perry	ppbv	1.64	1.52	7.9	20 1.22 to 1.82	25 1.14 to 1.90	
5 1,2 dibromoethane	150	J.Perry	ppbv	1.71	1.46	17.1	20 1.17 to 1.75	25 1.10 to 1.83	
8 1,2 dichloropropane	150	J.Perry	ppbv	1.7	1.55	9.7	20 1.24 to 1.86	25 1.16 to 1.94	
9 1,2 dichloroethane	150	J.Perry	ppbv	1.71	1.54	11.0	20 1.23 to 1.85	25 1.16 to 1.93	
11 Dichloromethane	150	J.Perry	ppbv	1.68	1.50	12.0	20 1.20 to 1.80	25 1.13 to 1.88	
12 1,1,2,2 tetrachloroethane	150	J.Perry	ppbv	1.89	1.46	29.5	20 1.17 to 1.75	25 1.10 to 1.83	> 25%
13 Tetrachloroethelyne (PERC)	150	J.Perry	ppbv	1.57	1.64	-4.3	20 1.31 to 1.97	25 1.23 to 2.05	
14 trichloroethylene	150	J.Perry	ppbv	1.6	1.57	1.9	20 1.26 to 1.88	25 1.18 to 1.96	
15 Vinyl Chloride	150	J.Perry	ppbv	1.53	1.65	-7.3	20 1.32 to 1.98	25 1.24 to 2.06	
16 cis-1,3-Dichloropropene	150	J.Perry	ppbv	1.56	1.41	10.6	20 1.13 to 1.69	25 1.06 to 1.76	
17 Trans-1,3-dichloropropene	150	J.Perry	ppbv	1.88	1.46	28.8	20 1.17 to 1.75	25 1.10 to 1.83	> 25%

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

10/19/2005



Study: 200503-V Close Date: 10/15/2005 Lab Code: 03-01-V

This evaluation report is being submitted for:

Washington, DC
 Attention: Robert Day
 MD Dept. of the Environment-ARMA
 1800 Washington Blvd. Suite 110
 Baltimore, MD, 21230-1721

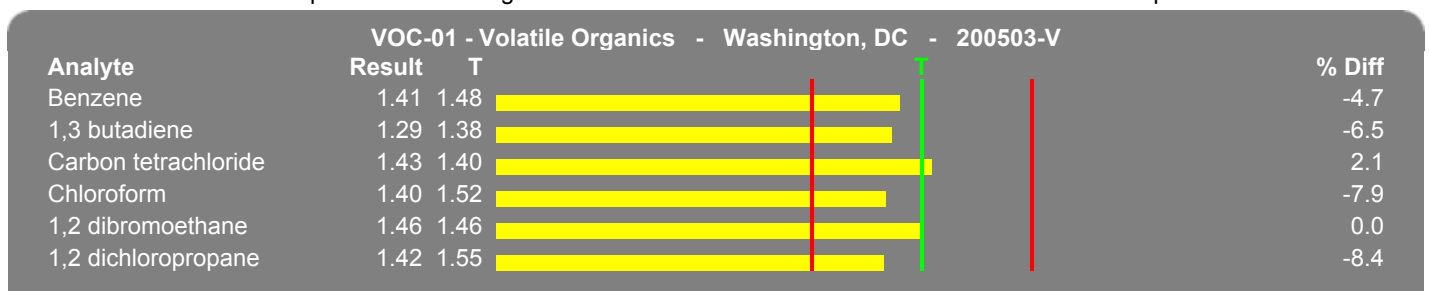
202-535-2986









Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Washington, DC - 200503-V

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn +/-%	Limits Range	Accept +/-%	Limits Range	Evaluation
1 Benzene	113	Sandra V.	ppbv	1.41	1.48	-4.7	20	1.18 to 1.78	25	1.11 to 1.85	
2 1,3 butadiene	113	Sandra V.	ppbv	1.29	1.38	-6.5	20	1.10 to 1.66	25	1.04 to 1.72	
3 Carbon tetrachloride	113	Sandra V.	ppbv	1.43	1.40	2.1	20	1.12 to 1.68	25	1.05 to 1.75	
4 Chloroform	113	Sandra V.	ppbv	1.4	1.52	-7.9	20	1.22 to 1.82	25	1.14 to 1.90	
5 1,2 dibromoethane	113	Sandra V.	ppbv	1.46	1.46	0.0	20	1.17 to 1.75	25	1.10 to 1.83	
8 1,2 dichloropropane	113	Sandra V.	ppbv	1.42	1.55	-8.4	20	1.24 to 1.86	25	1.16 to 1.94	
9 1,2 dichloroethane	113	Sandra V.	ppbv	1.46	1.54	-5.2	20	1.23 to 1.85	25	1.16 to 1.93	
11 Dichloromethane	113	Sandra V.	ppbv	1.41	1.50	-6.0	20	1.20 to 1.80	25	1.13 to 1.88	
12 1,1,2,2 tetrachloroethane	113	Sandra V.	ppbv	1.47	1.46	0.7	20	1.17 to 1.75	25	1.10 to 1.83	
13 (PERC) Tetrachloroethylene	113	Sandra V.	ppbv	1.65	1.64	0.6	20	1.31 to 1.97	25	1.23 to 2.05	
14 trichloroethylene	113	Sandra V.	ppbv	1.4	1.57	10.8	20	1.26 to 1.88	25	1.18 to 1.96	
15 Vinyl Chloride	113	Sandra V.	ppbv	1.26	1.65	23.6	20	1.32 to 1.98	25	1.24 to 2.06	WARNING
16 cis-1,3-Dichloropropene	113	Sandra V.	ppbv	1.46	1.41	3.5	20	1.13 to 1.69	25	1.06 to 1.76	
17 Trans-1,3-dichloropropene	113	Sandra V.	ppbv	1.51	1.46	3.4	20	1.17 to 1.75	25	1.10 to 1.83	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



1,2 dichloroethane	1.46	1.54		-5.2
Dichloromethane	1.41	1.50		-6.0
1,1,2,2 tetrachloroethane	1.47	1.46		0.7
Tetrachloroethelyne (PERC)	1.65	1.64		0.6
trichloroethylene	1.40	1.57		-10.8
Vinyl Chloride	1.26	1.65		-23.6
cis-1,3-Dichloropropene	1.46	1.41		3.5
Trans-1,3-dichloropropene	1.51	1.46		3.4

PTNATTS PE Report

10/19/2005



Study: 200503-V Close Date: 10/15/2005 Lab Code: 04-01-V

This evaluation report is being submitted for:

Tampa
 Attention: Tom Stringfellow
 Pinellas Co. DEM AQ
 300 S Garden Ave
 Clearwater, FL, 33756

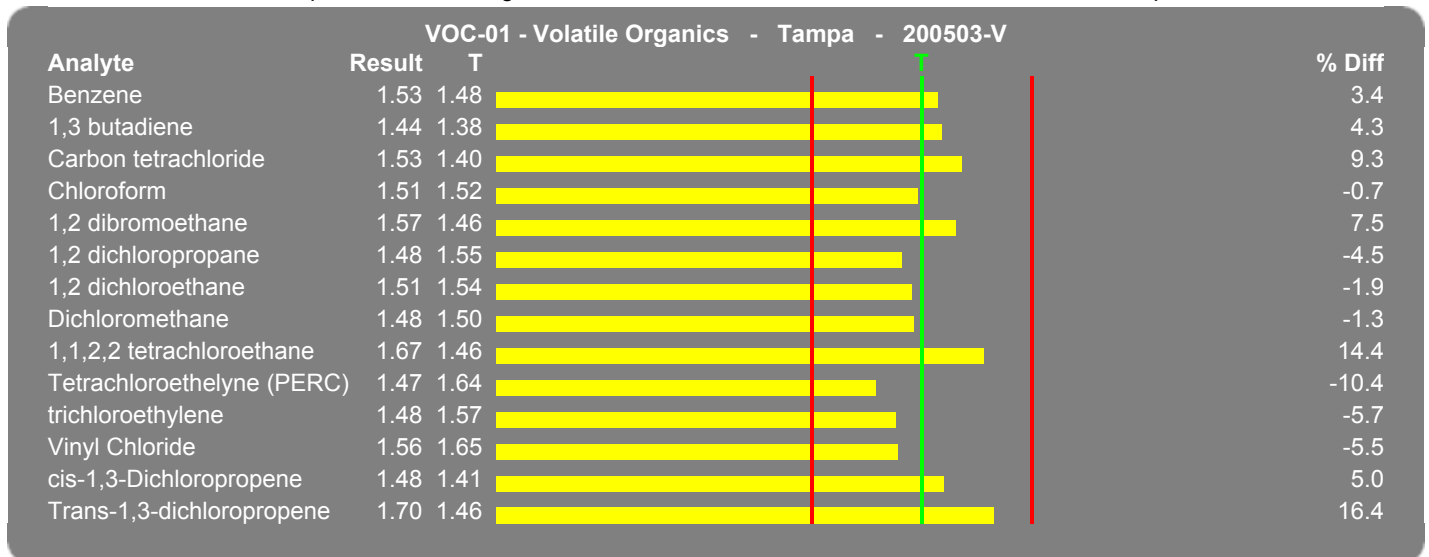
727-464-4422

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Tampa - 200503-V

Analyte	Method	Description	Analyst	Units	Reported Assigned		% Diff	Warn Limits		Accept Limits		Evaluation
					Value	Value (T)		+/-%	Range	+/-%	Range	
1 Benzene	176	MJL	ppbv	1.53	1.48	3.4	20	1.18 to 1.78	25	1.11 to 1.85		
2 1,3 butadiene	176	MJL	ppbv	1.44	1.38	4.3	20	1.10 to 1.66	25	1.04 to 1.72		
3 Carbon tetrachloride	176	MJL	ppbv	1.53	1.40	9.3	20	1.12 to 1.68	25	1.05 to 1.75		
4 Chloroform	176	MJL	ppbv	1.51	1.52	-0.7	20	1.22 to 1.82	25	1.14 to 1.90		
5 1,2 dibromoethane	176	MJL	ppbv	1.57	1.46	7.5	20	1.17 to 1.75	25	1.10 to 1.83		
8 1,2 dichloropropane	176	MJL	ppbv	1.48	1.55	-4.5	20	1.24 to 1.86	25	1.16 to 1.94		
9 1,2 dichloroethane	176	MJL	ppbv	1.51	1.54	-1.9	20	1.23 to 1.85	25	1.16 to 1.93		
11 Dichloromethane	176	MJL	ppbv	1.48	1.50	-1.3	20	1.20 to 1.80	25	1.13 to 1.88		
12 1,1,2,2 tetrachloroethane	176	MJL	ppbv	1.67	1.46	14.4	20	1.17 to 1.75	25	1.10 to 1.83		
13 Tetrachloroethelyne (PERC)	176	MJL	ppbv	1.47	1.64	-10.4	20	1.31 to 1.97	25	1.23 to 2.05		
14 trichloroethylene	176	MJL	ppbv	1.48	1.57	-5.7	20	1.26 to 1.88	25	1.18 to 1.96		
15 Vinyl Chloride	176	MJL	ppbv	1.56	1.65	-5.5	20	1.32 to 1.98	25	1.24 to 2.06		
16 cis-1,3-Dichloropropene	176	MJL	ppbv	1.48	1.41	5.0	20	1.13 to 1.69	25	1.06 to 1.76		
17 Trans-1,3-dichloropropene	176	MJL	ppbv	1.7	1.46	16.4	20	1.17 to 1.75	25	1.10 to 1.83		

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

10/19/2005



Study: 200503-V Close Date: 10/15/2005 Lab Code: 04-02-V

This evaluation report is being submitted for:

Chesterfield, SC
 Attention: Scott Reynolds
 SC Dept of HEC, Div. of AQ Analysis
 8231 Parklane Road
 Columbia, SC, 29223

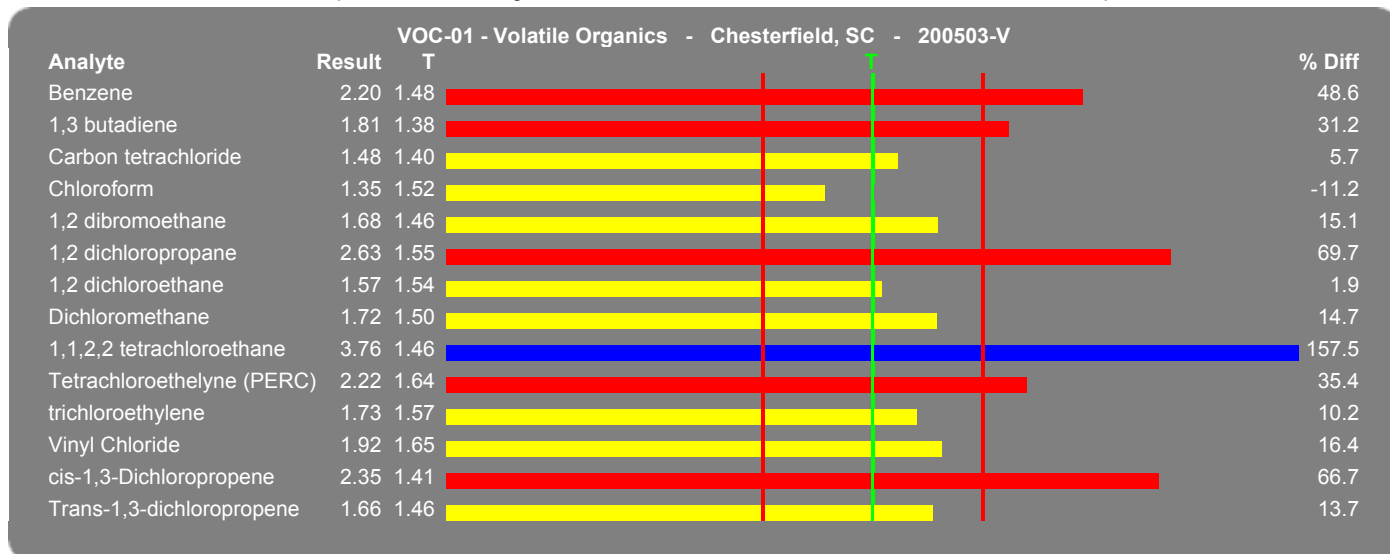
803-896-0902

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Chesterfield, SC - 200503-V

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/- Range	Accept Limits +/- Range	Evaluation
1 Benzene	TO-15	Dale Baer	ppbv	2.2	1.48	48.6	20 1.18 to 1.78	25 1.11 to 1.85	> 25%
2 1,3 butadiene	TO-15	Dale Baer	ppbv	1.81	1.38	31.2	20 1.10 to 1.66	25 1.04 to 1.72	> 25%
3 Carbon tetrachloride	TO-15	Dale Baer	ppbv	1.48	1.40	5.7	20 1.12 to 1.68	25 1.05 to 1.75	
4 Chloroform	TO-15	Dale Baer	ppbv	1.35	1.52	-11.2	20 1.22 to 1.82	25 1.14 to 1.90	
5 1,2 dibromoethane	TO-15	Dale Baer	ppbv	1.68	1.46	15.1	20 1.17 to 1.75	25 1.10 to 1.83	
8 1,2 dichloropropane	TO-15	Dale Baer	ppbv	2.63	1.55	69.7	20 1.24 to 1.86	25 1.16 to 1.94	> 25%
9 1,2 dichloroethane	TO-15	Dale Baer	ppbv	1.57	1.54	1.9	20 1.23 to 1.85	25 1.16 to 1.93	
11 Dichloromethane	TO-15	Dale Baer	ppbv	1.72	1.50	14.7	20 1.20 to 1.80	25 1.13 to 1.88	
12 1,1,2,2 tetrachloroethane	TO-15	Dale Baer	ppbv	3.76	1.46	157.5	20 1.17 to 1.75	25 1.10 to 1.83	> 25%
13 Tetrachloroethelyne (PERC)	TO-15	Dale Baer	ppbv	2.22	1.64	35.4	20 1.31 to 1.97	25 1.23 to 2.05	> 25%
14 trichloroethylene	TO-15	Dale Baer	ppbv	1.73	1.57	10.2	20 1.26 to 1.88	25 1.18 to 1.96	
15 Vinyl Chloride	TO-15	Dale Baer	ppbv	1.92	1.65	16.4	20 1.32 to 1.98	25 1.24 to 2.06	
16 cis-1,3-Dichloropropene	TO-15	Dale Baer	ppbv	2.35	1.41	66.7	20 1.13 to 1.69	25 1.06 to 1.76	> 25%
17 Trans-1,3-dichloropropene	TO-15	Dale Baer	ppbv	1.66	1.46	13.7	20 1.17 to 1.75	25 1.10 to 1.83	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

10/19/2005



Study: 200503-V Close Date: 10/15/2005 Lab Code: 04-03-V

This evaluation report is being submitted for:

Hazard, KY
 Attention: Charles Snodgrass
 Div of Environmental Services
 100 Sower Blvd. Suite 104
 Frankfort, KY, 40601-8272

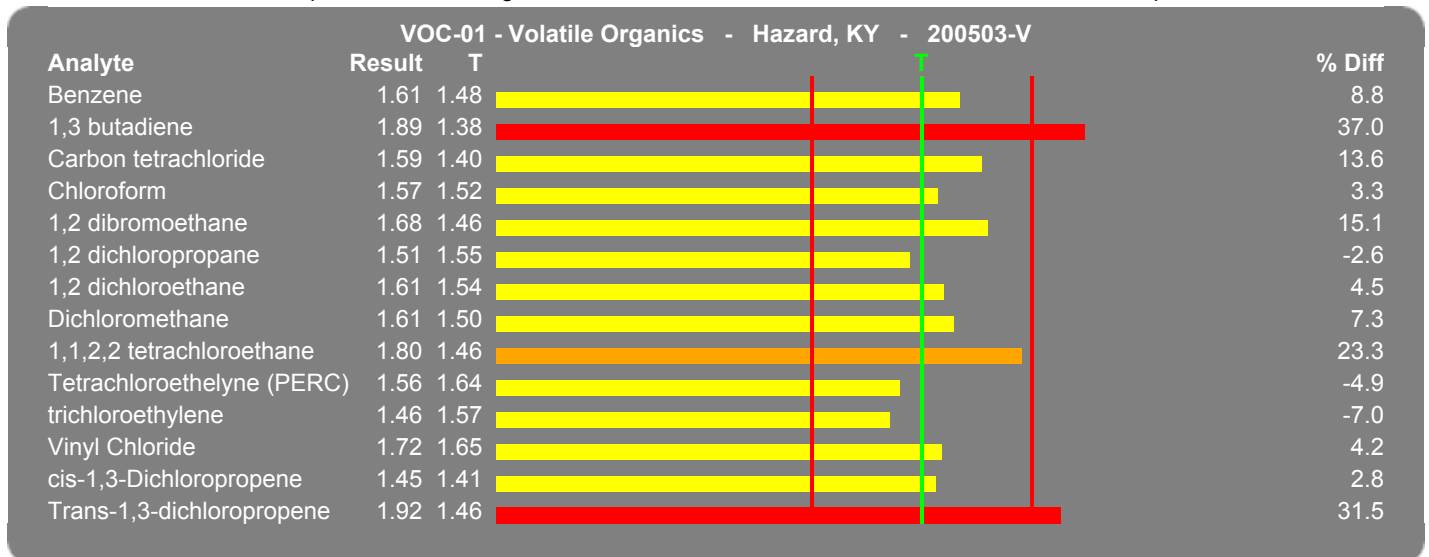
502-573-3382

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Hazard, KY - 200503-V

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	TO-15	B. Chen	ppbv	1.61	1.48	8.8	20 1.18 to 1.78	25 1.11 to 1.85	
2 1,3 butadiene	TO-15	B. Chen	ppbv	1.89	1.38	37.0	20 1.10 to 1.66	25 1.04 to 1.72	> 25%
3 Carbon tetrachloride	TO-15	B. Chen	ppbv	1.59	1.40	13.6	20 1.12 to 1.68	25 1.05 to 1.75	
4 Chloroform	TO-15	B. Chen	ppbv	1.57	1.52	3.3	20 1.22 to 1.82	25 1.14 to 1.90	
5 1,2 dibromoethane	TO-15	B. Chen	ppbv	1.68	1.46	15.1	20 1.17 to 1.75	25 1.10 to 1.83	
8 1,2 dichloropropane	TO-15	B. Chen	ppbv	1.51	1.55	-2.6	20 1.24 to 1.86	25 1.16 to 1.94	
9 1,2 dichloroethane	TO-15	B. Chen	ppbv	1.61	1.54	4.5	20 1.23 to 1.85	25 1.16 to 1.93	
11 Dichloromethane	TO-15	B. Chen	ppbv	1.61	1.50	7.3	20 1.20 to 1.80	25 1.13 to 1.88	
12 1,1,2,2 tetrachloroethane	TO-15	B. Chen	ppbv	1.8	1.46	23.3	20 1.17 to 1.75	25 1.10 to 1.83	WARNING
13 Tetrachloroethelyne (PERC)	TO-15	B. Chen	ppbv	1.56	1.64	-4.9	20 1.31 to 1.97	25 1.23 to 2.05	
14 trichloroethylene	TO-15	B. Chen	ppbv	1.46	1.57	-7.0	20 1.26 to 1.88	25 1.18 to 1.96	
15 Vinyl Chloride	TO-15	B. Chen	ppbv	1.72	1.65	4.2	20 1.32 to 1.98	25 1.24 to 2.06	
16 cis-1,3-Dichloropropene	TO-15	B. Chen	ppbv	1.45	1.41	2.8	20 1.13 to 1.69	25 1.06 to 1.76	
17 Trans-1,3-dichloropropene	TO-15	B. Chen	ppbv	1.92	1.46	31.5	20 1.17 to 1.75	25 1.10 to 1.83	> 25%

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

10/19/2005



Study: 200503-V Close Date: 10/15/2005 Lab Code: 04-04-V

This evaluation report is being submitted for:

Atlanta, GA
 Attention: Susan Zimmer-Dauphinee
 GA DNR EPD Laboratory
 455 14th Street
 Atlanta, GA, 30318-7900

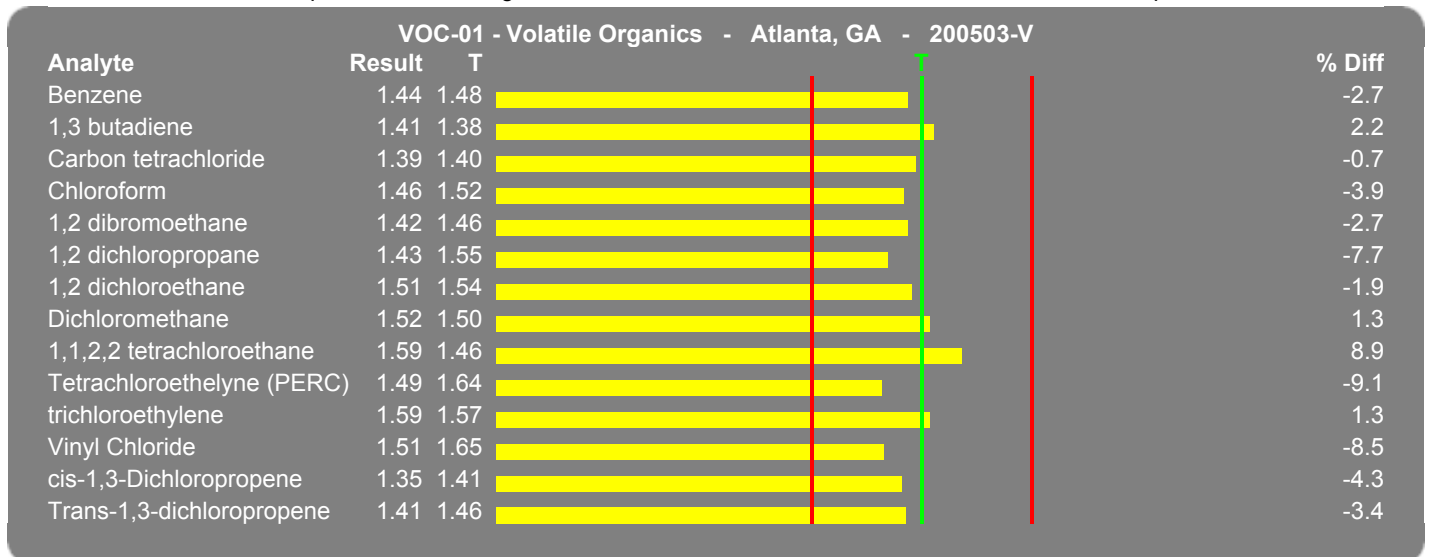
404-363-7004

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Atlanta, GA - 200503-V

Analyte	Method Description	Analyst Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	TO-14/TO-15 HZ	ppbv	1.44	1.48	-2.7	20 1.18 to 1.78	25 1.11 to 1.85	
2 1,3 butadiene	TO-14/TO-15 HZ	ppbv	1.41	1.38	2.2	20 1.10 to 1.66	25 1.04 to 1.72	
3 Carbon tetrachloride	TO-14/TO-15 HZ	ppbv	1.39	1.40	-0.7	20 1.12 to 1.68	25 1.05 to 1.75	
4 Chloroform	TO-14/TO-15 HZ	ppbv	1.46	1.52	-3.9	20 1.22 to 1.82	25 1.14 to 1.90	
5 1,2 dibromoethane	TO-14/TO-15 HZ	ppbv	1.42	1.46	-2.7	20 1.17 to 1.75	25 1.10 to 1.83	
8 1,2 dichloropropane	TO-14/TO-15 HZ	ppbv	1.43	1.55	-7.7	20 1.24 to 1.86	25 1.16 to 1.94	
9 1,2 dichloroethane	TO-14/TO-15 HZ	ppbv	1.51	1.54	-1.9	20 1.23 to 1.85	25 1.16 to 1.93	
11 Dichloromethane	TO-14/TO-15 HZ	ppbv	1.52	1.50	1.3	20 1.20 to 1.80	25 1.13 to 1.88	
12 1,1,2,2 tetrachloroethane	TO-14/TO-15 HZ	ppbv	1.59	1.46	8.9	20 1.17 to 1.75	25 1.10 to 1.83	
13 Tetrachloroethelyne (PERC)	TO-14/TO-15 HZ	ppbv	1.49	1.64	-9.1	20 1.31 to 1.97	25 1.23 to 2.05	
14 trichloroethylene	TO-14/TO-15 HZ	ppbv	1.59	1.57	1.3	20 1.26 to 1.88	25 1.18 to 1.96	
15 Vinyl Chloride	TO-14/TO-15 HZ	ppbv	1.51	1.65	-8.5	20 1.32 to 1.98	25 1.24 to 2.06	
16 cis-1,3-Dichloropropene	TO-14/TO-15 HZ	ppbv	1.35	1.41	-4.3	20 1.13 to 1.69	25 1.06 to 1.76	
17 Trans-1,3-dichloropropene	TO-14/TO-15 HZ	ppbv	1.41	1.46	-3.4	20 1.17 to 1.75	25 1.10 to 1.83	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

10/19/2005



Study: 200503-V Close Date: 10/15/2005 Lab Code: 05-01-V

This evaluation report is being submitted for:

Detroit, MI
 Attention: Carol Smith
 DEQ, AQD, Air Toxics
 3350 N MLK Bldg.44 3rd Floor
 Lansing, MI, 48906

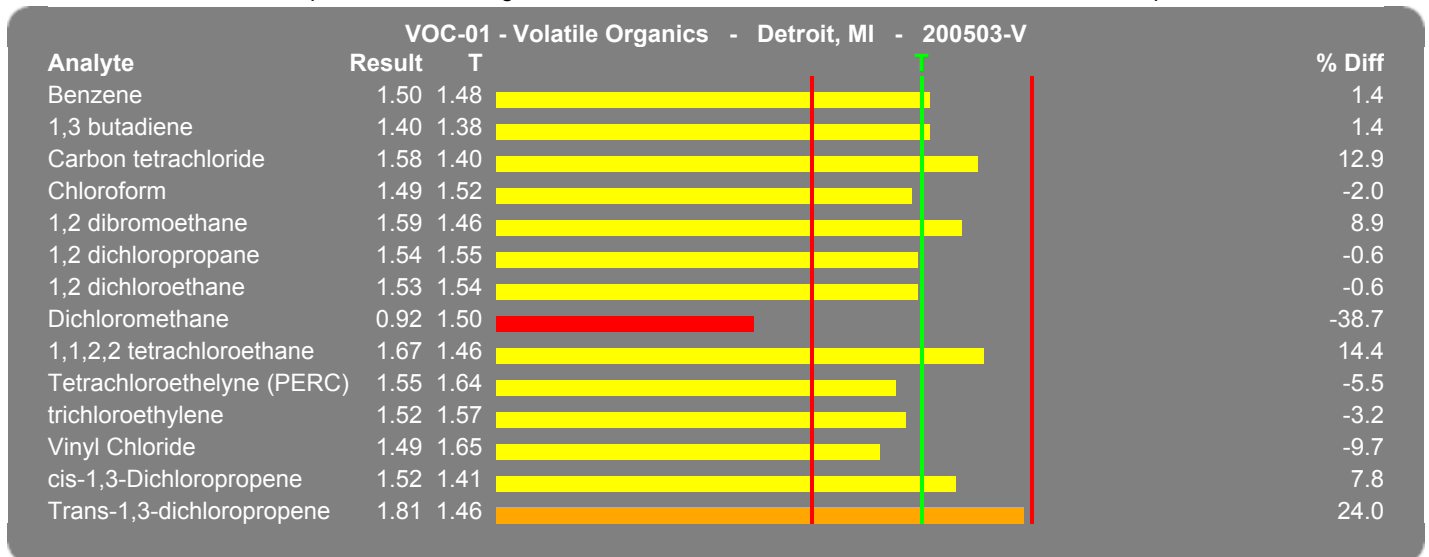
517-335-9550

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Detroit, MI - 200503-V

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	TO-15	JB	ppbv	1.5	1.48	1.4	20 1.18 to 1.78	25 1.11 to 1.85	
2 1,3 butadiene	TO-15	JB	ppbv	1.4	1.38	1.4	20 1.10 to 1.66	25 1.04 to 1.72	
3 Carbon tetrachloride	TO-15	JB	ppbv	1.58	1.40	12.9	20 1.12 to 1.68	25 1.05 to 1.75	
4 Chloroform	TO-15	JB	ppbv	1.49	1.52	-2.0	20 1.22 to 1.82	25 1.14 to 1.90	
5 1,2 dibromoethane	TO-15	JB	ppbv	1.59	1.46	8.9	20 1.17 to 1.75	25 1.10 to 1.83	
8 1,2 dichloropropane	TO-15	JB	ppbv	1.54	1.55	-0.6	20 1.24 to 1.86	25 1.16 to 1.94	
9 1,2 dichloroethane	TO-15	JB	ppbv	1.53	1.54	-0.6	20 1.23 to 1.85	25 1.16 to 1.93	
11 Dichloromethane	TO-15	JB	ppbv	0.92	1.50	-38.7	20 1.20 to 1.80	25 1.13 to 1.88	< 25%
12 1,1,2,2 tetrachloroethane	TO-15	JB	ppbv	1.67	1.46	14.4	20 1.17 to 1.75	25 1.10 to 1.83	
13 Tetrachloroethelyne (PERC)	TO-15	JB	ppbv	1.55	1.64	-5.5	20 1.31 to 1.97	25 1.23 to 2.05	
14 trichloroethylene	TO-15	JB	ppbv	1.52	1.57	-3.2	20 1.26 to 1.88	25 1.18 to 1.96	
15 Vinyl Chloride	TO-15	JB	ppbv	1.49	1.65	-9.7	20 1.32 to 1.98	25 1.24 to 2.06	
16 cis-1,3-Dichloropropene	TO-15	JB	ppbv	1.52	1.41	7.8	20 1.13 to 1.69	25 1.06 to 1.76	
17 Trans-1,3-dichloropropene	TO-15	JB	ppbv	1.81	1.46	24.0	20 1.17 to 1.75	25 1.10 to 1.83	WARNING

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

10/19/2005



Study: 200503-V Close Date: 10/15/2005 Lab Code: 05-03-V

This evaluation report is being submitted for:

Mayville, WI
 Attention: Mark Allen
 Wisconsin DNR
 101 S Webster St
 Madison,, WI, 53707

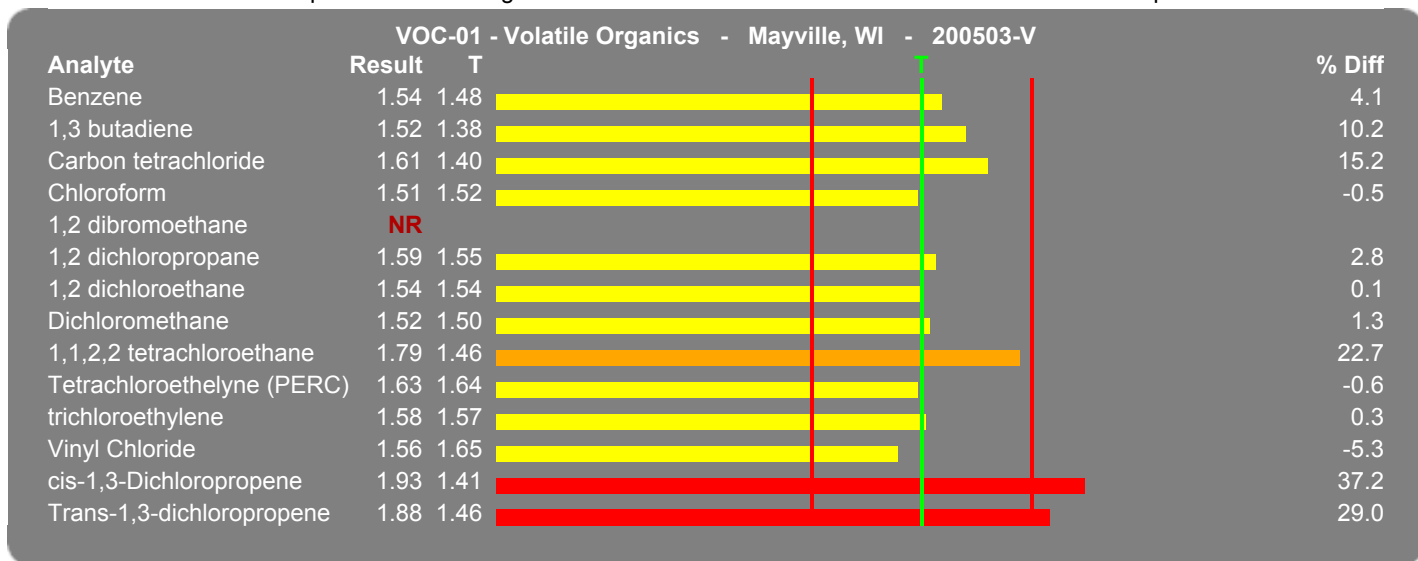
608-266-8049

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Mayville, WI - 200503-V

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	15.0	EM/MKA	ppbv	1.541	1.48	4.1	20 1.18 to 1.78	25 1.11 to 1.85	
2 1,3 butadiene	15.0	EM/MKA	ppbv	1.521	1.38	10.2	20 1.10 to 1.66	25 1.04 to 1.72	
3 Carbon tetrachloride	15.0	EM/MKA	ppbv	1.613	1.40	15.2	20 1.12 to 1.68	25 1.05 to 1.75	
4 Chloroform	15.0	EM/MKA	ppbv	1.513	1.52	-0.5	20 1.22 to 1.82	25 1.14 to 1.90	
5 1,2 dibromoethane				NR	1.46		1.17 to 1.75	1.10 to 1.83	
8 1,2 dichloropropane	15.0	EM/MKA	ppbv	1.593	1.55	2.8	20 1.24 to 1.86	25 1.16 to 1.94	
9 1,2 dichloroethane	15.0	EM/MKA	ppbv	1.541	1.54	0.1	20 1.23 to 1.85	25 1.16 to 1.93	
11 Dichloromethane	15.0	EM/MKA	ppbv	1.519	1.50	1.3	20 1.20 to 1.80	25 1.13 to 1.88	
12 1,1,2,2 tetrachloroethane	15.0	EM/MKA	ppbv	1.792	1.46	22.7	20 1.17 to 1.75	25 1.10 to 1.83	WARNING
13 Tetrachloroethelyne (PERC)	15.0	EM/MKA	ppbv	1.63	1.64	-0.6	20 1.31 to 1.97	25 1.23 to 2.05	
14 trichloroethylene	15.0	EM/MKA	ppbv	1.575	1.57	0.3	20 1.26 to 1.88	25 1.18 to 1.96	
15 Vinyl Chloride	15.0	EM/MKA	ppbv	1.562	1.65	-5.3	20 1.32 to 1.98	25 1.24 to 2.06	
16 cis-1,3-Dichloropropene	15.0	EM/MKA	ppbv	1.935	1.41	37.2	20 1.13 to 1.69	25 1.06 to 1.76	> 25%
17 Trans-1,3-dichloropropene	15.0	EM/MKA	ppbv	1.883	1.46	29.0	20 1.17 to 1.75	25 1.10 to 1.83	> 25%

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

10/19/2005



Study: 200503-V Close Date: 10/15/2005 Lab Code: 06-01-V

This evaluation report is being submitted for:

Houston & Harrison TX
 Attention: David Brymer
 Texas CEQ
 12124 Park 35 Circle, MC 165 Bldg B
 Austin, TX, 78753

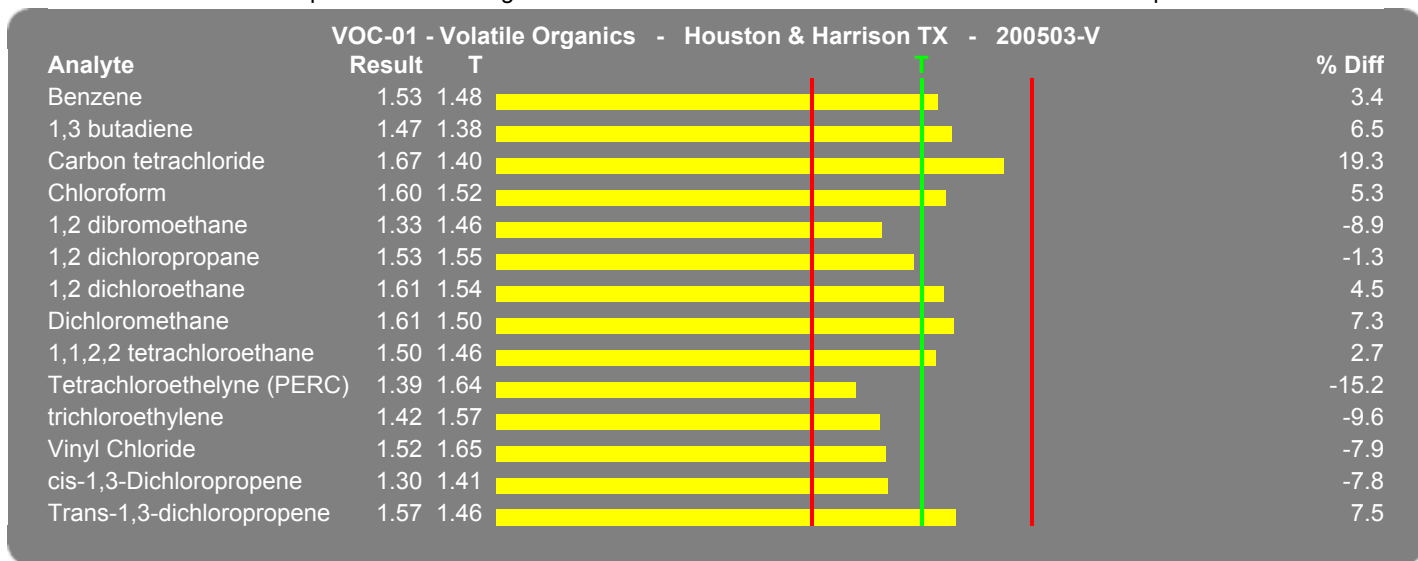
512-239-1725

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Houston & Harrison TX - 200503-V

Analyte	Method Description	Analyst	Units	Reported Assigned		% Diff	Warn Limits		Accept Limits		Evaluation
				Value	Value (T)		+/-%	Range	+/-%	Range	
1 Benzene	TO-15	JL	ppbv	1.53	1.48	3.4	20 1.18 to 1.78	25 1.11 to 1.85			
2 1,3 butadiene	TO-15	JL	ppbv	1.47	1.38	6.5	20 1.10 to 1.66	25 1.04 to 1.72			
3 Carbon tetrachloride	TO-15	JL	ppbv	1.67	1.40	19.3	20 1.12 to 1.68	25 1.05 to 1.75			
4 Chloroform	TO-15	JL	ppbv	1.6	1.52	5.3	20 1.22 to 1.82	25 1.14 to 1.90			
5 1,2 dibromoethane	TO-15	JL	ppbv	1.33	1.46	-8.9	20 1.17 to 1.75	25 1.10 to 1.83			
8 1,2 dichloropropane	TO-15	JL	ppbv	1.53	1.55	-1.3	20 1.24 to 1.86	25 1.16 to 1.94			
9 1,2 dichloroethane	TO-15	JL	ppbv	1.61	1.54	4.5	20 1.23 to 1.85	25 1.16 to 1.93			
11 Dichloromethane	TO-15	JL	ppbv	1.61	1.50	7.3	20 1.20 to 1.80	25 1.13 to 1.88			
12 1,1,2,2 tetrachloroethane	TO-15	JL	ppbv	1.5	1.46	2.7	20 1.17 to 1.75	25 1.10 to 1.83			
13 Tetrachloroethelyne (PERC)	TO-15	JL	ppbv	1.39	1.64	-15.2	20 1.31 to 1.97	25 1.23 to 2.05			
14 trichloroethylene	TO-15	JL	ppbv	1.42	1.57	-9.6	20 1.26 to 1.88	25 1.18 to 1.96			
15 Vinyl Chloride	TO-15	JL	ppbv	1.52	1.65	-7.9	20 1.32 to 1.98	25 1.24 to 2.06			
16 cis-1,3-Dichloropropene	TO-15	JL	ppbv	1.3	1.41	-7.8	20 1.13 to 1.69	25 1.06 to 1.76			
17 Trans-1,3-dichloropropene	TO-15	JL	ppbv	1.57	1.46	7.5	20 1.17 to 1.75	25 1.10 to 1.83			

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

10/19/2005



Study: 200503-V Close Date: 10/15/2005 Lab Code: 10-01B-V

This evaluation report is being submitted for:

R.J Lee Group, Center for Laboratory Sciences
 Attention: Rich Westberg
 Columbia Basin College
 2715 St. Andrews Loop, Suite F
 Pasco, , 99301

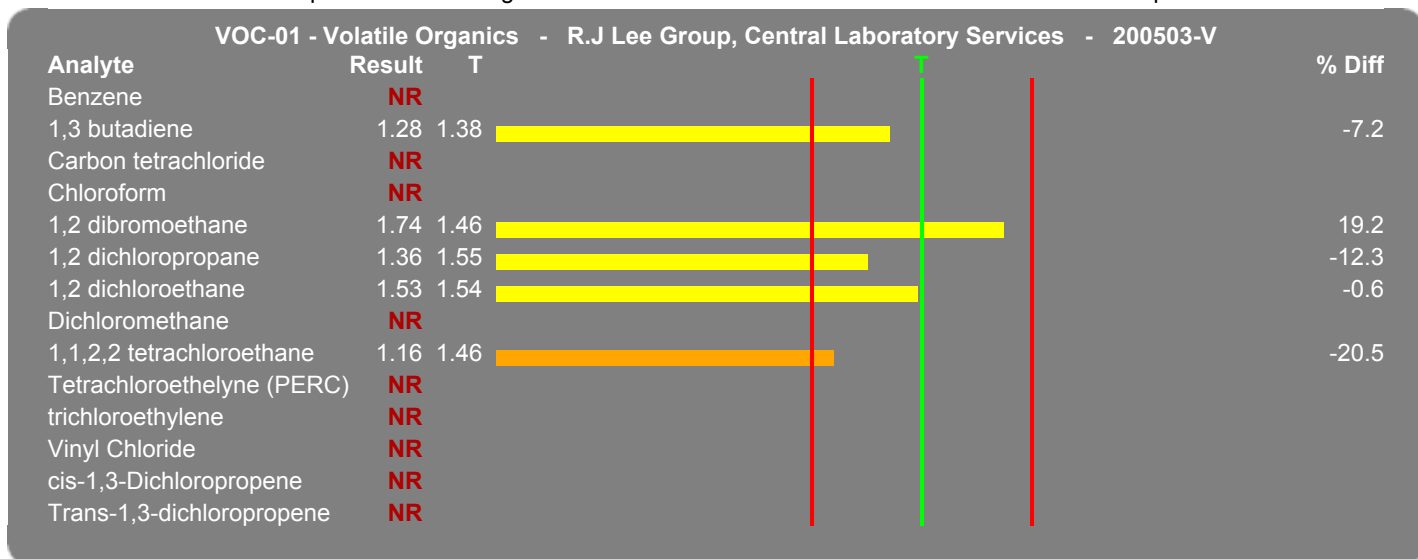
509-545-4989

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - R.J Lee Group, Central Laboratory Services - 200503-V

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene				NR	1.48		1.18 to 1.78	1.11 to 1.85	
2 1,3 butadiene	TO-15	Seors	ppbv	1.28	1.38	-7.2	20 1.10 to 1.66	25 1.04 to 1.72	
3 Carbon tetrachloride				NR	1.40		1.12 to 1.68	1.05 to 1.75	
4 Chloroform				NR	1.52		1.22 to 1.82	1.14 to 1.90	
5 1,2 dibromoethane	TO-15	Seors	ppbv	1.74	1.46	19.2	20 1.17 to 1.75	25 1.10 to 1.83	
8 1,2 dichloropropane	TO-15	Seors	ppbv	1.36	1.55	-12.3	20 1.24 to 1.86	25 1.16 to 1.94	
9 1,2 dichloroethane	TO-15	Seors	ppbv	1.53	1.54	-0.6	20 1.23 to 1.85	25 1.16 to 1.93	
11 Dichloromethane				NR	1.50		1.20 to 1.80	1.13 to 1.88	
12 1,1,2,2 tetrachloroethane	TO-15	Seors	ppbv	1.16	1.46	-20.5	20 1.17 to 1.75	25 1.10 to 1.83	WARNING
13 Tetrachloroethelyne (PERC)				NR	1.64		1.31 to 1.97	1.23 to 2.05	
14 trichloroethylene				NR	1.57		1.26 to 1.88	1.18 to 1.96	
15 Vinyl Chloride				NR	1.65		1.32 to 1.98	1.24 to 2.06	
16 cis-1,3-Dichloropropene				NR	1.41		1.13 to 1.69	1.06 to 1.76	
17 Trans-1,3-dichloropropene				NR	1.46		1.17 to 1.75	1.10 to 1.83	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

10/19/2005



Study: 200503-V Close Date: 10/15/2005 Lab Code: 10-01-V

This evaluation report is being submitted for:

Seattle, Wa
 Attention: John Williamson
 CEE Department Sloan Hall, Room 101
 Washington State University
 Pullman, WA, 99164-2910

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Seattle, Wa - 200503-V

Analyte	Method Description	Analyst	Units	Reported Assigned		% Diff	Warn Limits		Accept Limits		Evaluation
				Value	Value (T)		+/-%	Range	+/-%	Range	
1 Benzene	TO-15	FILIPY	ppbv	1.65	1.48	11.5	20 1.18 to 1.78	25 1.11 to 1.85			
2 1,3 butadiene	TO-15	FILIPY	ppbv	1.57	1.38	13.8	20 1.10 to 1.66	25 1.04 to 1.72			
3 Carbon tetrachloride	TO-15	FILIPY	ppbv	1.87	1.40	33.6	20 1.12 to 1.68	25 1.05 to 1.75	> 25%		
4 Chloroform	TO-15	FILIPY	ppbv	1.66	1.52	9.2	20 1.22 to 1.82	25 1.14 to 1.90			
5 1,2 dibromoethane	TO-15	FILIPY	ppbv	2.0	1.46	37.0	20 1.17 to 1.75	25 1.10 to 1.83	> 25%		
8 1,2 dichloropropane	TO-15	FILIPY	ppbv	1.66	1.55	7.1	20 1.24 to 1.86	25 1.16 to 1.94			
9 1,2 dichloroethane	TO-15	FILIPY	ppbv	1.72	1.54	11.7	20 1.23 to 1.85	25 1.16 to 1.93			
11 Dichloromethane	TO-15	FILIPY	ppbv	1.86	1.50	24.0	20 1.20 to 1.80	25 1.13 to 1.88	WARNING		
12 1,1,2,2 tetrachloroethane	TO-15	FILIPY	ppbv	1.67	1.46	14.4	20 1.17 to 1.75	25 1.10 to 1.83			
13 Tetrachloroethelyne (PERC)	TO-15	FILIPY	ppbv	1.71	1.64	4.3	20 1.31 to 1.97	25 1.23 to 2.05			
14 trichloroethylene	TO-15	FILIPY	ppbv	1.29	1.57	-17.8	20 1.26 to 1.88	25 1.18 to 1.96			
15 Vinyl Chloride	TO-15	FILIPY	ppbv	2.03	1.65	23.0	20 1.32 to 1.98	25 1.24 to 2.06	WARNING		
16 cis-1,3-Dichloropropene	TO-15	FILIPY	ppbv	1.89	1.41	34.0	20 1.13 to 1.69	25 1.06 to 1.76	> 25%		
17 Trans-1,3-dichloropropene	TO-15	FILIPY	ppbv	1.97	1.46	34.9	20 1.17 to 1.75	25 1.10 to 1.83	> 25%		

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported

